



UTTAR PRADESH RAJKIYA NIRMAN NIGAM Ltd.

Vishweshwaraiya Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow – 226 010 (Uttar Pradesh)
(Incorporating Amendments upto date of Publishing & Ratification)

STANDARD BID DOCUMENT

2020

**NAME OF WORK: PROPOSED OF SMOKE EXTRACTION SYSTEM,
PRESSURIZATION SYSTEM & FIRE CHECK DOOR IN LIBRARY AUDITORIUM
& PMSSY BUILDING AT S.G.P.G.I.M.S. LUCKNOW, U.P.**

**INDEX**


Name Of Work: Proposed of Smoke Extraction System, Pressurization System & Fire Check Door in Library Auditorium & Pmssy Building at S.G.P.G.I.M.S. Lucknow, U.P.


S. No.	DESCRIPTION	PAGE
1.	Notice Inviting e-Tender	
2.	Part-A:	
	Information to Bidders	
	Qualification Information	
	Annexure 1 to 11	
	Letters of Acceptance	
3.	Part-B: Major Component of Work	
	General Information	
	Guarantee Bond for water proofing works	
	Reduction for rates sample Performa	
	Schedule A (BOQ Major Component) Electrical	
	Drawing (Electrical)	
4.	Part-C: Minor Component of Work (Civil)	
	Eligibility Criteria for main agency with respect to associated Civil Agency	
	Consent/ willingness letter from eligible associate agency of minor	
	Schedule A (BOQ Minor Component) Civil	
	Drawing (Civil)	
5.	General Conditions of Contract (GCC) for building construction works and Schedules 'B' to 'F' Civil construction, E/M	


सुबेन्द्र मोहन

सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ




इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Uttar Pradesh Rajkiya Nirman Nigam Ltd
(An ISO 9001:2008 QMS & ISO 14001:2004 EMS Certified Company)
Vishweshwaraiya Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow

Name of Work: Proposed of Smoke Extraction System, Pressurization System & Fire Check Door in Library Auditorium & PMSSY Building at S.G.P.G.I.M.S. Lucknow, U.P.

Name of the Owner: Medical Education Department, Govt. of Uttar Pradesh.

NIT No.: 635/A.P.M.(E.)/HCEU/ Tender /RNN/2026 dt. 06-06-2026

ESTIMATED COST OF WORK : Rs. 1634.98 Lakhs (GST Extra)

EARNEST MONEY : Rs. 42.90 Lakhs (No Exemption Allowed)

This Bid Document Consists of: Technical Bid/Eligibility Bid

Last date/Time of Tender submission: Date- 27-06-2026 At Time - 03:00 PM

Date of Opening of bid: Date- 27-06-2026 At Time - 05:00 PM

Defect Liability Period: Nil

Warranty: Nil

Financial Bid: Date, Time & Place of opening to be intimated only to those Bidders who qualify for Financial Bid.

Zonal Office, General Manager, (Electrical Zone-4), UPRNN Ltd, Lucknow.

Unit Office: APM (E.) UPRNN Ltd., High Court Electrical Unit, Lucknow.

Phone/mobile No- 9415519459 **E-mail id-** hcelectrical01@gmail.com

Tender Cost- Rs. 1634.98 Lakhs (GST Extra)

Tender Fees: Rs 10000/- (GST 18% Extra)

Upto 40Lakhs Rs.1000/-
From 40-100 Lakhs Rs.2000/-
From 100-500lakhs..... Rs.5000/-
Above 500Lakhs Rs.10000/-

सुजिन्दा मोहन

सहायक लेखाधिकारी स्तर-11
0प्र0 राजकीय निर्माण निगम लि0
हाईकोर्ट विद्युत इकाई, लखनऊ

2

इपतखार अली

स्थानिक अभियन्ता (वि0)
30 प्र0 राजकीय निर्माण निगम लि0
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि0)
30 प्र0 राजकीय निर्माण निगम लि0
हाईकोर्ट विद्युत इकाई, लखनऊ

**NIT for E- Tender****FORMING PART OF BID DOCUMENT**NIT No. **636/A.P.M.(E.)/HCEU/ Tender /RNN/2026** dt. **06-06-2026**

The General Manager UPRNN Ltd. Electrical Zone-4, Lko invites on behalf of the MD, UPRNNL, online Percentage rate composite bids on two bid system from eligible Registered Contractor of UPRNN Ltd. The detailed document is available on U.P. Government e-tender www.etender.up.nic.in or UPRNNL website <https://www.uprnn.upsdc.gov.in>

Sl. No.	Name of Work & Location	Estimated Cost (GST Extra)	Earnest Money*	Cost of Tender Fee	Stipulated period of completion	Last date & Time of Submission of online bid	Time & date of opening of technical bid
1	Proposed of Smoke Extraction System, Pressurization System & Fire Check Door in Library Auditorium & PMSSY Building at SGPGIMS Lucknow, U.P.	Rs. 1634.98 Lakhs	Rs. 42.90 Lakhs	Rs. 11800/-	15 MONTHS FROM ISSUE OF LOI	Date-27.06.2026 at Time - 03:00 PM	Date-27.06.2026 at Time-05.00 PM

1. The intending bidder must have valid class-II digital signature to submit the bid.
2. The intending bidder must read the terms and conditions of bidding document carefully. He should submit bid only if he considers himself eligible and in possession of all the documents required.
3. Information and Instructions for bidders posted on website shall form part of bid document.
4. The bid document consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.etender.up.nic.in or UPRNNL website <https://www.uprnn.upsdc.gov.in> Free of cost. Applicants are advised to keep visiting the above mentioned web-sites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.

*Earnest money (i) for works estimated to cost upto Rs. Ten Crores: 2% of the estimated cost inclusive GST.

(ii) For works estimated to cost more than Rs. Ten Crores: Rs. Twenty Lacs plus 1% of the estimated cost in excess of Rs. Ten Crore. (Round to Rs. 10thousand)

5. Online bid documents uploaded by intending bidders shall be opened only of those bidders, whose original EMD deposited at any Office of Project Manager UPRNN Ltd. and other documents scanned and uploaded are found in order.
6. Receipt of deposition of Bank Guarantee shall also be uploaded to the e-tendering website by the intending bidder before bid submission.

सुरेश मोहन

सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

2

इफतेखार अली

स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

65

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ




7. Period for downloading tender document Date- 06-06-2026 to 27-06-2026
8. Last date of submission of bid Date- 27-06-2026 at Time - 03:00 PM
9. Opening of technical bid Date- 27-06-2026 at Time – 05:00 PM
10. The Contractor must be valid registration with UPRNN in the **Fire Fighting Category**.
11. Prebid Meeting held on 12.06.2026 at 3.00 PM, Unit office Electrical Unit -High Court UPRNNL Gomti Nagar Vistar-7, Plat No. 4, Lucknow.
12. The date and time of opening of financial bid to the qualified bidders shall be intimated by email and the list of qualified bidders shall be uploaded on the tender portal.
13. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
14. Contractor can upload documents in the form of JPG format (minimum 100 dpi) and PDF format.
15. Contractor must ensure to quote his item rates in the schedules. If the contractor does not fill any entry, related to rates (overall percentage rate/item rates) then the bid shall be treated as invalid.
16. The bids shall remain valid for acceptance for a period of **90 days** from the date of opening of technical bids.
17. **Any bidder who is having criminal record is not allowed to participate in the bidding process.**
18. **Any bidder who is registered with the State Bar Council is not allowed to participate in the bidding process.**
19. Additional Performance Guarantee will be payable according to G.O. No. 622/23-12-2012-2 Audit/08 T.C.-2 Dated 08.06.2012 & GO No. 86/2026/649/2026/23-7099/106/2025, Dated- 23.05.2026 for unbalanced bids.
20. 1% Labour cess will be deducted from the Contractor Bill.
21. The qualified bidder shall have to register all the laborers employed in the project with the Labour department. The associated/ sub-contractors have also to comply accordingly.
22. Original MM-11 form as proof of royalty shall have to be produced at time of every running bill in accordance to G.O. no. 115(1)/86-2020 dated 15-01-2020 for all the materials procured from the quarries.
23. The bidder must also be comply SBD ammendment circular letter no. 1107/म0प0(तक0)/निविदा सकुलर फा0/रानिनि/ 2024 dated 15.03.2024. (Copy enclosed)



APM

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


06.06.24
General Manager


सहायक लेखाधिकारी स्तर-II
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

2


इश्वरी अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



PART - A

Information to Bidders



Information to Bidders

The state of Uttar Pradesh is geographically fourth largest State of India and the most populous State. The Uttar Pradesh Rajkiya Nirman Nigam Ltd. (hence in after called "UPRNNL") executes the construction, improvement, strengthening and maintenance of buildings. The responsibility of construction of building works of various departments of State Government under deposit schemes is with UPRNNL.

1. Bids (Two bid system – (a) technical bid and (b) financial bid) are invited on behalf of MD, UPRNNL from eligible contractors with any central/state departments of government/semi government undertakings for building works:-

Name of Work: Proposed of Smoke Extraction System, Pressurization System & Fire Check Door in Library Auditorium & Pmssy Building at S.G.P.G.I.M.S. Lucknow, U.P.

The estimated cost of Work is Rs. 1634.98 Lakhs (GST Extra)

2. Agreement shall be drawn with the successful tenderer on prescribed **Form of Bid** as per the bid document which is also available on website <https://www.uprnn.upsdc.gov.in>. Bidders shall quote his rates as per various terms and conditions of the said form which will be part of the Agreement.
3. The time allowed for carrying out the work will be **15 Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The bidder will have to deposit **Rs.11800/-** as cost of bid Documents through RTGS/NEFT.

Name of Beneficiary	:	UTTAR PRADESH RAJKIYA NIRMAN NIGAM LTD.	
Name of Bank	:	Union Bank of India	
Name of Branch of Bank	:	Munshi Puliya, Lucknow	
Account No.	:	533602050000875	
IFSC Code	:	UBIN0553361	
Amount	:	11800.00	

Payment receipt with details of UTR number is to be scanned and uploaded as pre- qualification document.

The payment is non-refundable.

1 Tender Cost:

Above 500Lakhs Rs.10000/-

सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-II
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

2

इफ्तेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

58

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

5. Composite Tenders

Only one agency is fixed i.e. the main contractor who is responsible for executing the entire work. The Engineer-in-charge of the major component of the work calls bids for the composite work. The cost of bid document (if any) and Earnest Money is fixed with respect to the combined estimated cost put to tender for the composite bid.

The eligible tenderers quote rates for various items of major as well as minor components of work. The lowest tenderer is decided based on quoted rates in respect of all the schedules attached in tender documents. It is obligatory on the part of the main contractor to sign the tender documents for all the components.

6. The site for the work is available. However if the building work is to start after dismantling of any existing structure, the same is within the scope of work.
7. The Architectural and Structural drawings shall be made available in phased manner as per requirement and approved program of completion submitted by the contractor after award of the work.
8. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with other necessary documents. Bid document is available on the web Site www.etender.up.nic.in or www.uprnn.upsdc.gov.in.
9. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified.
10. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the components) but before last time and date of submission of tender as notified.
11. Earnest Money shall be 2% upto the cost of Rs. 10 Crore and for works costing more than Rs. 10 crore, it shall be Rs. 20 Lacs plus 1% of the estimated cost in excess of Rs. 10 Crore. Earnest money in the form of FDR/NSC (issued from SBI/ Nationalized bank/ Scheduled Commercial Bank and drawn in favor of UPRNN Ltd payable at Lucknow) shall be scanned and uploaded to the e-tendering website within the period of bid submission.

An earnest money is also acceptable in shape of Bank Guarantee of any Scheduled Commercial Bank / SBI/ Nationalized bank/ Scheduled Commercial Bank having validity for 6 (six) months or more from the last date of receipt of bids should be deposited in any office of Project Manager, UPRNN Ltd within the period of bid submission. The same should be to be scanned and uploaded by the intending bidders. (The bank Guarantee as EMD should only be issued from the place in which the office of receiving Unit office is situated). The EMD receiving Project Manager (including NIT issuing PM) shall issue a receipt of deposition of earnest money deposit to the bidder in the prescribed format (enclosed) uploaded by Tender inviting authority in the NIT. This receipt of deposition of Bank Guarantee shall also be uploaded to the e-tendering website by the intending bidder up to the specified bid submission date and time.

सुप्रेम मोहन
सहायक लेखाधिकारी स्तर-॥
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

2

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



12. Certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.

Joint ventures/Consortium and special purpose vehicles are not accepted. The executed works should be in the sole name of firm/bidder and the works executed in joint ventures, consortium or special purpose vehicles shall not be accepted.

13. Bidders are required to submit TDS Certificates in Form 16-A, in case the similar works are executed for a private body, which shall form basis for establishing the completion cost of similar work executed by the bidder. Such type of works for private body shall be verified by technical team of UPRNN having member not less than PM/Unit-in-charge.

14. Bids invited in Two Bid System

(a) When bids are invited in two bid system, following steps are followed:

- Entire bid document related to Eligibility Criteria, Technical bid and Financial bid are uploaded.
- Stage-I: documents uploaded by the contractors related with Eligibility Criteria are opened first and after evaluation of bids the name of eligible contractors are approved by competent authority.
- Stage-II: stage-II deals with financial bid which is to be open of only those contractors who qualified in Stage-I.

15. Bidders who fulfill the following requirements shall be eligible to apply. The minimum period of 48 hours shall be provided for opening of financial bid.

- (a). Should have satisfactorily completed the following works in last 7 (seven) years ending previous day of last date of submission of bid. For this purpose, cost of work shall mean gross value of the completed work inclusive all Taxes and also including cost of material supplied by the Government/client but excluding those supplied free of cost. This should be certified by an officer not below the rank of Project Manager/Project Manager or equivalent.


Three similar completed works each costing not less than of the Estimated cost (40% of estimated cost)

OR


Two similar completed works each costing not less than of the Estimated cost (60% of estimated cost)

OR

One similar completed work each costing not less than of the Estimated cost (80% of estimated cost)


सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-॥
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


अनुराग चौधरी
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



(b) Note : - Similar work is defined as below-

Similar Work Mean

THE FIRM MUST HAVE CARRIED OUT THE FIRE FIGHTING/ FIRE ALARM/ STAIRCASE PRESSURIZATION SYSTEM/SMOKE EXTRACTIONS/ PRESSURIZATION SYSTEM WORK IN GOVERNMENT BUILDING.

- i) Bidder should have an average annual financial turn over (gross) of **Rs. 771.71 Lakhs** on Similar Work during the last three consecutive financial years ending **31st March 2025**. The Balance sheets should be duly audited by Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average.
- (b) At the time of uploading of bid, the bidder shall have also to upload scanned copy of an affidavit on Non-Judicial Stamp paper of Rs.10/- as under: -
 "I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in UPRNN in future forever & declare as blacklisted. Also, if such a violation comes to the notice of Department before date of start of work, the Employer shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee." **(Annexure-1)**
- (c) The bidder should have had average annual financial turn over (gross) of **Rs. 771.71 Lakhs** on Similar Work during the last three consecutive financial years ending **31st March 2025**.
*Bidder should have average annual turnover worth minimum 40% of the estimated cost. (Scanned copy of Certificate from Chartered Accountant to be uploaded). **(Annexure-5)***
- (d) The bidder should not have incurred any loss (profit after tax should be positive) in more than two years during the last three consecutive year sending **31st March 2025** (Scanned copy of certificate along with details of profit after tax taken from audited balance sheets and certified by the Chartered Accountant to be uploaded). **(Annexure-5)**
- (e) The applicant should demonstrate that he has access to, or has available, liquid assets (aggregate of working capital, cash in hand and uncommitted bank Guarantees) and/or credit facilities of not less than 10% of the value of the contract/contracts applied for certified by the Bankers (Not more than 3 months old) (Construction cash flow may be taken as 10% of the estimated value of contract/contracts) **(Annexure-6)**.
- (f) The contractor shall submit an undertaking that the bidder will be able to invest a minimum cash upto 25% of contract value of work, during implementation of work **(Annexure-7)**.
- (g) The audited balance sheets for the last five years should be submitted, which must demonstrate the soundness of the Applicant's financial position, showing long-term profitability. If necessary, the Employer will make enquiries with the applicant's bankers.
- (h) **Litigation History**
 The Applicant should provide accurate information on any *litigation or arbitration resulting from contracts completed or under execution* by him over the last five years. A consistent history of awards against the Applicant or any partner of a joint venture may result in failure of the applicant.

सुरेन्द्र मोहन

सहायक लेखाधिकारी स्तर-II
 उ०प्र० राजकीय निर्माण निगम लि०

सुरेन्द्र मोहन हाईकोर्ट विद्युत इकाई, लखनऊ

सहायक लेखाधिकारी स्तर-II
 उ०प्र० राजकीय निर्माण निगम लि०
 हाईकोर्ट विद्युत इकाई, लखनऊ

इफतेखार अली

स्थानिक अभियन्ता (वि०)
 उ० प्र० राजकीय निर्माण निगम लि०
 हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)
 उ० प्र० राजकीय निर्माण निगम लि०
 हाईकोर्ट विद्युत इकाई, लखनऊ



The Bidding capacity of the contractor should be equal to or more than the estimated cost of the work put to tender. The bidding capacity shall be worked out by the following formula:

$$\text{Bidding Capacity} = \{[A \times N \times M] - B\}$$

Where,

A = Maximum value of works executed in any one year during the last five years (updated to the price level of the last year at the rate of 7% a year) taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of the works for which bids are invited (period up to 6 months to be taken as half-year and more than 6 months as one year).

M = M is taken 2.0

B = Value, at the current price level, of existing commitments and on-going works to be completed during the next 1.5 years (period of completion of the works for which bids are invited).

Note:

- 1- The value of executed works shall be brought to current costing level by enhancing the actual value of work done at simple rate of 7% per annum; (updated to the price level of the last year at the rate of 7% a year).
- 2- The detailed calculation sheet for working out value of B shall be given in Qualification Information Section.
- 3- The bid capacity shall be calculated as per **Annexure-11**.

16. The bid submitted shall become invalid in the following cases:

- (i) The bidders do not upload all the documents (including GST registration) as stipulated in the bid document.
- (ii) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender.
- (iii) If any required form attached with this bid is not duly filled.

17. The eligible bidder shall quote percentage below/above/at par of major as well as minor components of the work.

(a) Applicable for Item rate tenders only:

In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.

सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

2

इपतेश्वर अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



However, if a tenderer quotes nil rates against each item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer and earnest money deposited shall be forfeited. The rate(s) must be quoted in decimal coinage. Amounts must be quoted in full Rupees by ignoring fifty paisa and considering more than fifty paisa as Rupee one.

(b) Applicable for Percentage Rate Tender only:

In case of Percentage Rate Tenders, contractor shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule-A, he will be willing to execute the work. In case of Percentage Rate Tenders, only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy. In Percentage Rate Tender, the tenderer shall quote percentage below/above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word 'Rs.' should be written before the figure of Rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15 P' and in case of words, the word 'Rupees' should precede and the word 'Paisa' should be written at the end.

The tender submitted shall be treated as invalid if the tenderer, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected.

18. **Certificate of Financial Turn Over:** At the time of submission of bid, bidder may upload affidavit/certificate from CA mentioning Financial Turn Over of last 5 years or for the period as specified in the bid document duly certified by the chartered accountant. **There is no need to upload entire voluminous balance sheet.**
19. Contractor has to deploy required Plant and machinery on the project. Minimum number of plant and machinery to be deployed by him is indicated in this tender document. In case the contractor fails to deploy the plant and machinery whenever required and as per the direction of the Engineer-in-charge, he (Engineer-in-charge) shall be at a liberty to get the same deployed at the risk and cost of the contractor.
20. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidders implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
21. The competent authority on behalf of the MD UPRNN does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without

सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

2

इमर खान अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

जनुम यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



assigning any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.

22. For executing the electrical works, the bidder or associated contractor must have a valid license of category A from the Chief Electrical Inspector. The bidder or the associated contractor for electrical works should have one diploma holder in electrical Engineering and a licensed electrician. Similarly for executing the mechanical works, the bidder or the associated contractor for mechanical works should have prescribed garage tools as approved by the Transport Commissioner.
23. Any other document as specified in Eligibility Criteria.
24. Canvassing whether directly or indirectly, in connection with the bidder is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.
25. The competent authority on behalf of Government of Uttar Pradesh reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
26. The contractor shall not be permitted to bid for works in the UPRNN Zone responsible for award and execution of contracts, in which his near relative is posted as Zonal/Unit

Accountant or as an officer in any capacity between the grades of General Manager and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Uttar Pradesh Public Works Department/UPRNN. Any breach of this condition by the contractor would render his bid liable for rejection or resigning of the contract, the moment any such matter is established.

No Engineer of Gazette rank or other Gazette Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of Uttar Pradesh is allowed to work as a contractor for a period of two year after his retirement from Government service, without the previous permission of the Government of Uttar Pradesh in writing. This contract is liable to be cancelled if either the contractor or any of his Employees is found any time to be such a person who had not obtained the permission of the Government of Uttar Pradesh as afore said before submission of the tender or engagement in the contractor's service.

27. The bids for the work shall remain open for acceptance for a period of Ninety (90) days from the date of opening of bids. For validity of tender Rs. 100/- stamp paper shall have to be deposited with the tender stating "The tender for the workis valid for 90 days from last date of bid due date i.e".
(as per Annexure-1).

In case of forfeiture of earnest money of the lowest bidder, the bidder shall not be allowed to participate in rebidding process of the same work.

28. This notice inviting bid shall form a part of the contract document. The successful bidder /contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:

Agreement Form (as per the required stamp duty on Annexure-11).

- i. The Notice Inviting bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

2

इफतेखर अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुपम यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- ii. Form of Bid as applicable amended and corrected up to last date of submission of online tender.

29. For Composite bids:-

The General Manager in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.

The bid document will include following three components:

Part A: NIT, Form of Bid duly executed on a non judicial stamp paper of Rs. 100/= including schedule A to F for the major component of the work, Standard General Conditions of Contract for Building Works of GCC as amended/modified up to date of bid uploading.

Part B: General / specific conditions, specifications and schedule of quantities applicable to major component of the work.

Part C: GM/PM in charge of major component shall also be competent authority under clause 2 and clause 5 as mentioned in schedule A to F for major components.

The bidders will either obtain valid electrical license at the time of execution of work or associate contractors having valid electrical license of eligible class.

30. The bid uploaded shall become invalid if:

- The bidder is found ineligible.
 - The bidder does not deposit original EMD with unit office of any Project Manager, UPRNN Ltd
 - The bidder does not upload all the documents (including GST as stipulated in the bid document including the copy of receipt of deposition of original EMD.
 - If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of General Manager/Project Manager **(NIT issuing officer)**.
 - If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above / below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
31. After acceptance of the bid by competent authority, the GM in charge of major component of the work shall issue letter of award on behalf of the MD UPRNN. After the work is awarded, the main contractor will have to enter into one Agreement with GM, in-charge of major component and has also to sign two or more copies of Agreement depending upon number of PM's in charge of major & minor components. One such signed set of Agreement shall be handed over to PM in charge of major & minor component. Entire work under the scope of composite tender including major and all minor components shall be executed under one Agreement.
32. The contractor whose bid is accepted, will be required to furnish performance Guarantee of 5% (Five Percent) of the bid amount plus the additional performance Guarantee for unbalanced bids as per GO no. 622/23-12-2012 audit/08TC Dt. 08/06/2012 within the period specified in Schedule F. details are given below

S.NO	Details	Additional Performance Guarantee
1	Up to 10% below Tender Value	0.5% for each 1% below tender value
2.	For more than 10% below tender value	5% +1% for each 1% after 10% below tender value

सुरेश मोहन
सहायक लेखाधिकारी स्तर-II
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

2

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अमर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



This Performance security shall be in the form of Bank Guarantee, Fixed Deposit Receipts or Guarantee Bonds of SBI/Nationalized/Scheduled Commercial Bank in accordance with the prescribed form.

In case the contractor fails to deposit the said performance Guarantee within the period as indicated in Schedule 'F' including the extended period if any, the earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee & additional performance Guarantee as per case.

33. The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount **equal to 5.00% of the** tendered value of the work. The Security deposit will be collected by deductions from the running bills as well as final bill of the contractor at the rates mentioned above. Fixed Deposit Receipt of a SBI/Nationalized/Scheduled Commercial Bank will also be accepted for this purpose. Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

34. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare board including Provident Fund Code No, if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any, engaged by the contractor for the said work and Programme Chart (Time and progress) within the period specified in Schedule F.

35. Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.

36. Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

37. The main contractor has to associate agency(s) for specialized/minor component (s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of Major/minor component(s) within prescribed time. Name of the agency (s) to be associated shall be approved by Engineer-in-charge of Major/minor component(s).

38. The specialized works shall only be executed by the eligible contractor(s) themselves or through association of specialized agency by executing an agreement between the contractor and specialized agency individually. The specialized agency / firm will be made a payment to the extent of 65% directly by the Engineer-in-charge. The tender accepting authority may approve the change of agency in case it is required during the currency of the work.

39. In case the main contractor intends to change any of the above agency/ agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of relevant specialized /minor component(s).

The new agency / agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

The civil contractors will either obtain valid electrical license or associate contractors having valid electrical license of eligible class". The associated agency shall be of the appropriate class eligible to bid for each of the minor component individually.

सुरेन्द्र मोहन

सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

2

इफतेखार अली

स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



40. The main contractor has to enter into MoU with agency(s) associated by him for execution of minor component(s). Copy of such MoU shall be submitted to **PM (Elect)** in charge of major component as well as to **PM (Civil)** of minor component. In case of change of associate contractor, the main contractor has to enter into Agreement with the new contractor associated by him.
41. Running payment for the major component shall be made by **PM** of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor component directly to the main contractor.
42. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components.
43. Final bill of whole work shall be finalized and paid by the **PM** of major component. Engineer in charge of minor component will prepare and pass the final bill for their component of work and pass on the same to the **PM** of major component for including in the final bill for composite contract.
44. The contractor shall have to submit the original MM-11 form as proof of royalty, he has already paid, be produced at time of every running bill in accordance to G.O. no. 115(1)/86-2020 dated 15-01-2020 and 743/E-M.M.-11/Data Feeding-2019 dated 25-08-2020 for all the materials procured from the quarries, otherwise the suitable recovery from the running bills shall be affected. Any further amendment to above G.O. shall also be binding upon the contractor.

45. **List of documents to be scanned and uploaded within the period of bid submission:**

1	Affidavit as per provisions of NIT for e-Tendering on non-judicial stamp paper on requisite value (Annexure-1)
2	Scanned copy of Fixed Deposit Receipts/ NSC / Bank Guarantee of any SBI/ Nationalized bank/ Scheduled Bank against EMD as prescribed. (Annexure-2)
3	Copy of receipt for deposition of original EMD to Unit office of any PROJECT MANAGER , UPRNN Ltd (Annexure-3)
4	Bid Fee deposition details i.e. "RTGS/NEFT payment proof" (Annexure-4)
5	Financial information – Form 'A' (Annexure-5)
6	Banker's certificate for solvency certificate from a SBI/ Nationalized bank/ Scheduled Bank on letter head of bank addressed to E-TENDER authority– Form 'B' (Annexure-6)
7	Undertaking by Contractor – (Annexure-7)
8	Undertaking by Contractor about GST Certificate- (Annexure-8)
9	Details of eligible similar nature works completed during the last Seven years ending previous day of last day of submission of Bid – Form 'C'. (Annexure-9)
10	Performance report of works referred to in forms "C"- Form "D". (Annexure-10)
11	Form for Bidder's Bidding Capacity (Annexure-11)
12	Structure and Organization – Form 'E' (Annexure-12)
13	Undertaking for association of specialized agency for e & m
14	Registration with EPFO, ESIC, BOCW Welfare Board, labour License if available (Annexure-15)
15	CONTRACTOR SHOULD HAVE Registered in UPRNN in Category EL-4 and above.
16	Scanned copy of PAN Card issued by Income Tax Department. (Annexure-17)
17	Power of Attorney as applicable(Annexure-18)
18	Agreement Format for Percentage Rate e-Tender & Contract for Work (Affidavit on non-judicial stamp of Rs. 100.00)
19	Affidavit on non-judicial stamp of Rs. 100.00 about China Product & China Company (As per Attached Order –Annexure –23)
20	Site visit Certificate as per attached format.

सुरेन्द्र जोषन

सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

2

इफतेखार अली

स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

जयसिंह यादव

अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**46 Financial information**

Bidder should furnish the following financial information:

Annual financial statement for the last five year in Form "A" and solvency certificate in Form "B"

47. Experience in works highlighting experience in similar works

Bidder should furnish the following:

(a) List of all works of similar nature successfully completed during the last seven years in Form "C".

(b) The Performance Report of Similar works in Form "D".

48. Organization information

Bidder is required to submit the information in respect of his organization in Forms "E".

49. No work on back to back basis

Bidder should furnish an Affidavit as **Annexure-1** on non-judicial stamp paper of required value.

50. Opening of Price bid

After evaluation of applications, a list of short listed agencies will be prepared.

Thereafter, financial bids of only the qualified and technically acceptable bidders shall be opened at a notified place, date and time informed by the competent authority later, in Presence of qualified bidders or their representatives. **The financial bids shall remain Valid for a period of 90 (Ninety) days from opening of Technical Bids.**


APM (E.)


General Manager (E.)


सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकावट विद्युत इकाई, लखनऊ

2


इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकावट वि० २०१३ लखनऊ

**INFORMATION FROM BIDDERS**

1. Information on Bid Capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this bid.

(A) Existing commitments and on-going works:

Description of works	Place & State	Contract No.	Name & Address of Employer	Value of Contract (Rs Cr)	Stipulated Period of Completion	Value of works* remaining to be completed (Rs Cr)	Anticipated date of completion
1	2	3	4	5	6	7	8

*Attach certificate(s) from the Engineers-in-Charge

(B) Works for which bids already submitted:

Description of works	Place & State	Name & Address of Employer	Estimated value of works (Rs Cr)	Stipulated period of completion	Date when decision is expected	Remarks, if any
1	2	3	4	6	6	7

2. Availability of key items of Contractor's Equipment essential for carrying out the Works.

Item of Equipment	Requirement		Availability proposals			Remarks (from whom to be purchased)
	No.	Capacity	Owned/Leased to be procured	Nos Vs Capacity	Age/Condition	

3. Qualifications and experience of key personnel required for administration and execution of the Contract.

Position	Name	Qualification	Year of Experience (General)	Years of experience in the proposed position
Project Manager				
Etc.				

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



4. Proposed sub-contracts and firmsinvolved.

Sanctions of the works	Value of Sub-contract	Sub-contractor (Name & Address)	Experience in similar work

Attach copies of certificates on possession of valid license for executing water supply/sanitary work / building electrification works

5. Financial reports for the last five years: balance sheets, profit and loss statements, auditors' reports (in case of companies/corporation), etc. (Attach in the form of **Annexure-2**).
6. Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer. (Attach in the form of **Annexure-3&4**).

7. Information on litigation history in which the Bidder is involved.

Other Party (ies)	Employer	Cause of Dispute	Amount involved	Remarks showing Present Status

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
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हाईकोर्ट विद्युत इकाई, लखनऊ



SITE VISIT CERTIFICATE (TO BE FURNISHED WITH PART 1 "TECHNICAL BID")

Name and address of the bidders.....

Ref.no. of tender:

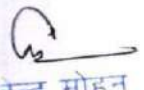
date

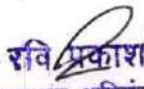
I have seen the premises (.....) and I am completely aware of the nature and quantum ofto be carried out.


Signature with Seal(Bidder/Bidders representative)

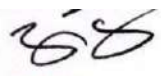
The above mentioned bidders has visited the site to assess the scope of work

Signature with Seal (AE/RE/APM)


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अनुराग यादव
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उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



AFFIDAVIT

1. I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s_____ have abandoned any work in India nor any contract awarded to us for such works have been rescinded, during last five years prior to the date of this bid.
3. The undersigned hereby authorize(s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the Department to verify this statement or regarding my (our) competence and general reputation.
4. The undersigned understand and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Department/ Project implementing agency.
5. The undersigned confirms that the bid shall be valid for 90 days (ninety days) from the opening date of technical bid.
6. I/We are not blacklisted in any state/ Central Gov. department/PSU/Board etc. as on date of submission of this tender
7. I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in UPRNN in future forever & declare blacklisted Also, if such a violation comes to the notice of Department before date of start of work, the Employer shall be free to forfeit the entire amount of Earnest Money Deposit and Performance Guarantee.

(Signed by an Authorized Officer of the Firm)

Title of Officer _____

Name of Firm _____

DATE _____

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उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

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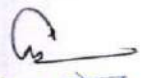
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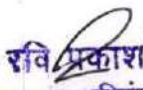
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हाईकोर्ट विद्युत इकाई, लखनऊ




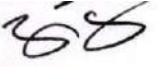
Annexure- 2

SCANED COPY OF EMD


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अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**Annexure- 3****Receipt****Information and Instruction for Project Manager UPRNN for e-tendering**

1. The Project Manager, UPRNN Ltd should receive the original EMD for tender of other units.
2. The NIT approving authority / PM at the time of issue of NIT shall also fill and upload the following prescribed format of receipt of deposition of original EMD along with NIT:-

Receipt of deposition of original EMD	
(Receipt No...../date.....)	
1. Name of work: -	
2. NIT No.:-	Dated
3. Estimated Cost Rs.....	
4. Amount of Earnest Money Deposit:-Rs.....	
5. Last date of submission of bid Dt.....at.....PM	
(***To be filled by NIT approving authority/Project Manager at the time of issue of NIT and uploaded along with NIT)	
1. Name of Contractor	#
2. Form of EMD	#
3. Amount of Earnest Money Deposit	#
4. Date of submission of EMD	#
Signature, name and Designation of EMD	
Receiving officer (PM/RE/ARE/AAO/Accountant/Asstt. Accountant) along with	
Office stamp, Telephone/e-Mail Id.	
(To be filled by EMD receiving PM or NIT issuing PM as the case may be)	

3. The Project Manager receiving EMD in original form shall examine the EMD deposited by the bidder and shall issue a receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting PM. The receipt may be issued by the PM/RE/ARE/AAO/Accountant.
4. The Project Manager receiving original EMD shall also intimate tender inviting Project Manager about deposition of EMD by the agency by e-mail/fax/telephonically.
5. The original EMD receiving Project Manager shall release the EMD after verification from the e-tendering portal website (<https://etender.up.nic.in>) that the particular contractor is not L1 tenderer and work is awarded.
6. The tender inviting Project Manager will call for original EMD of the L-1 tenderer from EMD receiving Project Manager immediately.

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उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

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स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**Annexure- 4****Receipt of Tender Fees**

The bidder will have to deposit **Rs**³ as cost of Bid Documents through RTGS/NEFT.

Detail of RTGS/NEFT is given as under:

Name of Beneficiary: Uttar Pradesh Rajkiya Nirman Nigam Ltd.

Name of Bank Bank

Name of Branch of Bank:

Account No.:

IFSC Code:

Amount: Rs/-(+GST@ %)

Payment receipt with details of UTR number is to be scanned and uploaded as pre-qualification document.

The payment is non-refundable

Payment of Tender Fee

NIT No.:

The required fee of tender i.e. **Rs.....**⁴ has been deposited in _____ Bank A/c No. _____
RTGS and the scanned copy of UTR No. _____ (receipt along
with Transaction Id uploaded with E-tender documents).

CONTRACTOR

⁴ Tender Cost: (GST Extra)

Upto 40 Lakhs Rs.1000/-

From 40-100 Lakhs Rs.2000/-

From 100-500 lakhs Rs.5000/-

Above 500 Lakhs Rs.10000/-



**Annexure- 5****FINANCIAL INFORMATION**

Name of the firm / Bidder.....:

- I. Financial Analysis-Details to be furnished duly supported by figures in balance sheet / profit & loss account for the last five years duly certified and audited by the Chartered Accountants, as submitted by the applicant to the Income Tax Department (Copies to be attached).

Fig in Crores Rs.

Sl.No.	Particulars	Financial Years				
i)	Turnover of Similar Work					
ii)	Profit / Loss (After Tax)					

- II. Financial arrangements for carrying out the proposed work.

Signature of Chartered Accountant with Seal

SIGNATURE OF BIDDER(S)

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०२०२०२०२०२०२०२०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
०२०२०२०२०२०२०२०
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**Annexure- 6****SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT FACILITIES****BANK CERTIFICATE**

This is to certify that M/s. _____ is a reputed company with a good financial standing.

If the contract for the work, namely _____ is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of

Rs. _____ to meet their working capital requirements for executing the above contract during the contract period.

(Signature) Name of
Bank

Senior Bank Manager

Address of the Bank

NOTE:

- (1) Banker's certificates should be on letter head of the Bank, sealed in cover addressed to tendering authority.
- (2) In case of partnership firm, certificate should include names of all partners as recorded with the Bank.
- (3) Certificate **should not be more than 3 month sold.**
- (4) The applicant should demonstrate that he has access to, or has available, liquid assets (aggregate of working capital, cash in hand and uncommitted bank Guarantees) and/or credit facilities of not less than 10% of the value of the contract/contracts applied for certified by the Bankers (Construction cash flow may be taken as 10% of the estimated value of contract/contracts)





Annexure- 7

UNDERTAKING


I, the undersigned do hereby undertake that our firm M/s _____
_____ would invest a minimum cash up to 25% of the value of the work during
implementation of the Contract.


(Signed by an Authorized Officer of the Firm)


Title of Officer


Name of Firm

DATE


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हाईकोर्ट विद्युत इकाई, लखनऊ


अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
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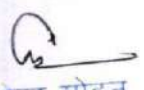
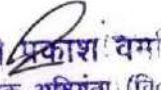

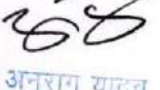


Annexure-8

Undertaking

"If work namely.....is awarded to my firm, I/We shall obtain GST registration certificate of the State, in which work is to be taken up within one month from date of receipt of award letter or before release of any payment by UPRNNL, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by UPRNNL or GST department in this regard."

Signature and name of the contractor

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**Annexure- 9****FORM "C"**

**DETAILS OF ALL WORKS OF SIMILAR NATURE COMPLETED DURING THE
LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DATE OF SUBMISSION OF TENDERS Name & Address of**

Bidder.....

S. No.	Name of work/project and location	Owner of sponsoring organization	Contract No.	Cost of work in lakhs of Rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/ arbitration cases pending /in progress with details*	Name and address /telephone number of officer to whom reference may be made	Whether the work was Done on back to back basis. Yes/No
1	2	3	4	5	6	7	8	9	10	11

*Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of
Bidder(s) Seal of
bidder

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उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**Annexure- 10****FORM "D"****PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM "C"**

1. Name of work/project & location
2. (a) Agreement no.
(b) Name of Agency / Contractor
3. Estimated cost
4. (a) Tendered cost
(b) Actual Value of work done
5. Date of start
6. Date of completion
 - (i) Stipulated date of completion
 - (ii) Actual date of completion
7. (a) Whether case of levy of compensation
For delay has been decided or not Yes/No
(b) If decided, amount of compensation levied for
delayed completion, if any
8. Performance Report

(1) Quality of work	Outstanding/Very Good/Good/Poor
(2) Financial soundness	Outstanding/Very Good/Good/Poor
(3) Technical Proficiency	Outstanding/Very Good/Good/Poor
(4) Resourcefulness	Outstanding/Very Good/Good/Poor
(5) General Behavior	Outstanding/Very Good/Good/Poor

Dated:

Executive Engineer
Or Equivalent with Seal

- i. In case of private works certificate shall be issued by PM/Unit In-Charge of concerned unit after verification of work.



Annexure- 11**Form for Bidder's Bidding Capacity****Name of the Firm / Bidder: -.....****Name of Work :-**

The Bidding capacity of the bidder should be equal to or more than the estimated cost of the work put to tender i.e. **Rs** /-. The bidding capacity shall be worked out by the following formula:

Bidding Capacity (Rs.) = {[AxNx2]-B}

Where,

A= Maximum turnover (as mentioned in **Annexure-2 of the bid**) in executed in any one year during the last five years taking into account the completed as well as works in progress. The value of completed works shall be brought to current costing level by enhancing at a simple rate of 7% per annum.

N= Number of years prescribed for completion of work for which bid has been invited.

B= Value of existing commitments and ongoing works to be completed during the period of completion of work for which bid has been invited.

Note :

1. Value of bidding capacity may be worked out by the bidder as per above formula and uploaded along with other documents.
1. The detailed calculation sheet for working out value of B shall also be uploaded separately.

Seal & Signature of Bidder

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Annexure- 12
FORM "E"**STRUCTURE OF ORGANISATION**

1. Name & address of the bidder
2. Telephone no. /Fax no/Email ID.
3. Legal status of the bidder ([attach copies of original document defining the legal status](#))
 - (a) An Individual
 - (b) A proprietary firm
 - (c) A firm in partnership
 - (d) A limited company or Corporation
4. Particulars of registration with various Government Bodies ([attach attested photocopy](#))
Organization/Place of registration
Registration No.
 - 1.
 - 2.
 - 3.
5. Names and titles of Directors and Officers with designation to be concerned with this work.
 1. Designation of individuals authorized to act for the organization
 2. Has the bidder, or any constituent partner in case of **Partnership firm / Limited Company / Joint Venture**, ever been convicted by the Court of Law? If so, give details.
 3. Has the bidder, or any constituent partner in case of Partnership firm / Limited Company / Joint Venture, ever been debarred / blacklisted for tendering in any organization? If so, give details.
 4. In which field of Civil Engineering construction the bidder has specialization and interest?
 5. Any other information considered necessary but not included above.

Signature of Bidder(s) Seal of bidder

 रुरेन्द्र मोहन लेखाकार उ० प्र० राजकीय निर्माण निगम लि० इकाई हाईकोर्ट, लखनऊ	 रवि प्रकाश शर्मा सहायक अभियंता (वि०) उ० प्र० राजकीय निर्माण निगम लि० इकाई हाईकोर्ट, लखनऊ	 इफ्तखार अली स्थानिक अभियंता (वि०) उ० प्र० राजकीय निर्माण निगम लि० हाईकोर्ट विद्युत इकाई, लखनऊ	 अनुराग यादव अपर परियोजना प्रबन्धक (वि०) उ० प्र० राजकीय निर्माण निगम लि० हाईकोर्ट विद्युत इकाई, लखनऊ
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Annexure-13**UNDERTAKING FOR ASSOCIATION OF SPECIALISED AGENCY FOR E & M**

We undertake that we the OEMs for specialized E&M works that "OEM shall unconditionally support the lowest tenderer technically throughout the execution of contract as well as for Maintenance/Comprehensive Maintenance Contract for the useful life of the system, and we shall also provide all the spares required for healthy functioning of the equipment for at least seven years from the date of supply of equipment".

Signature of Bidder(s) with stamp

 रुरेन्द्र मोहन लेखाकार उ० प्र० राजकीय निर्माण निगम लि० इकाई हाईकोर्ट, लखनऊ	 रवि प्रकाश वर्मा सहायक अभियन्ता (वि०) उ० प्र० राजकीय निर्माण निगम लि० इकाई हाईकोर्ट, लखनऊ	 इफ्तखार अली स्थानिक अभियन्ता (वि०) उ० प्र० राजकीय निर्माण निगम लि० हाईकोर्ट विद्युत इकाई, लखनऊ	 अनुराग यादव अपर परियोजना प्रबन्धक (वि०) उ० प्र० राजकीय निर्माण निगम लि० हाईकोर्ट विद्युत इकाई, लखनऊ
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**Annexure- 14****CONSENT/ WILLINGNESS LETTER FROM ELIGIBLE ASSOCIATE AGENCY OF MINOR****COMPONENT OF WORK**

(for each specialized work separate certificate is required if the associate agency is different)

Name of work:-

I/We hereby give my consent to associate with M/s for executing the minor component of work of (Mention category)

1. I/We will execute the work as per specifications and conditions of the Agreement and as per direction of the Engineer-in-charge for the corresponding work till the completion of the work.
2. I/We will be responsible for necessary action to handover the installation and for rectification of defects and repair during the defeat liability / warranty period.
3. Also, I/We will employ full time technically qualified Engineer/ Supervisor for the component of the work as specified in clause 32 for the work. I/We will attend inspection of officers of the department as and when required.

Date:

Signature with date of Major Contractor

Signature with date of Associate/

Minor Contractor

Contractor

Address

Address

1. Witness with address

(From major component contractor side)

2. Witness with address

(From minor component contractor side)

रुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Annexure- 15

Registration with EPFO, ESIC, BOCW Welfare Board, labour License if available and latest Character certificate from District Magistrate is must to be enclosed

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

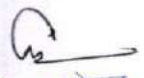
इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

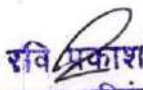
अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ




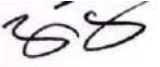
Annexure- 16

Enlistment order of the contractor in UPRNN Ltd.


सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ


रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

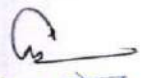

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

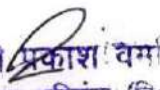

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ




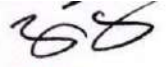
Annexure- 17

Scanned copy of PAN Card issued by Income Tax Department.

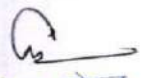

रुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

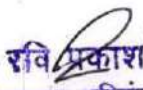

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सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ



इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

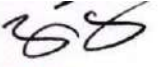

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Annexure- 18**Power of Attorney as applicable**


रुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ


रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ


इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Annexure- 19

Integrity Pact for 2

2. ¹ Applicable only for the project Cost above Rs. 100 cr.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



(as per the required stamp duty)

Agreement Form**Agreement**

This Agreement, made the _____ day of _____ between _____ (Name and address of Employer) [here in after called "the Employer"] and _____ (Name and address of Contractor) hereinafter called "the Contractor" of the other part.

Whereas the Employer is desirous that the Contractor execute

(Name and identification number of Contract) (hereinafter called "the Works") and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein, at a cost of Rs. _____

NOW THIS AGREEMENT WITNESSETH as follows :

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract
4. The following documents shall be deemed to form and be ready and construed as part of this Agreement viz.
 - i. NIT
 - ii. Form of Bid
 - iii. Letter of Acceptance
 - iv. Contractor's Bid
 - v. Condition of Contract: GCC and Special Conditions
 - vi. Schedules B to F
 - vii. Safety Code
 - viii. Drawings
 - ix. Schedule A (Bill of Quantities Civil and E/M)
 - x. Any other documents listed in the Contract Data as forming part of the Contract.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



In witnessed whereof the parties there to have caused this Agreement to be executed the day and year first before written.

The Common Seal of _____
was hereunto affixed in the
presence of:

Signed, Sealed and Delivered by the said _____

in the presence of:

Binding Signature of Employer _____

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



ANNEXURE-21

SAMPLE FORM OF CEMENT REGISTER

Date of Receipt	Quantity received	Progressive total	Date of issue	Quantity issued	Items of work for which issued	Quantity returned at the end of the day	Total issue	Daily balance at hand	Contractor's initial	JE's initial	Remarks of AE/EE at periodical checks
1	2	3	4	5	6	7	8	9	10	11	12

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



ANNEXURE-22

**OFFICE OF THE PROJECTMANAGER
High court Electrical Unit, Lucknow
UPRNN Ltd**

No.....

Date.....

LETTER OF ACCEPTANCE

To, M/s

Subject: SITC of

Dear Sir,

This is to notify you that your tender for the work mentioned above has been accepted by the Project Manager, UPRNN Ltd on behalf of UPRNN Ltd at your tendered / negotiated tender amount of Rs..... (Rs.only) which is

.....%below/above

the estimated cost of Rs.....(Rsonly).

You are requested to submit Performance security/guarantee of Rs..... (Rs.....only) within 10 days of the receipt of this letter of acceptance. The Performance Guarantee shall be in the prescribed form and shall be valid up to 60 days beyond the date of expiry of Defects Liability Period and warranty of 5(Five) year. On receipt of the prescribed performance guarantee, necessary letter to commence the work shall be issued, and the site of work handed over to you thereafter.

Please note that the time allowed for carrying out the work shall be reckoned from the days after the date of issue of this letter of acceptance or from the first day of the handing over of the site whichever is later.

You are also requested to contact Er⁵. for carrying out the contract and attend this office within days from the date of issue of this letter for the execution of the formal agreement.

This letter of acceptance is being sent to you in duplicate and you are requested to return copy of this letter duly signed and stamped as a token of your acknowledgement and it will constitute a binding contract between us pending execution of formal agreement.

Yours Faithfully

Project Manager,
UPRNN Ltd,

No. & Dated as above

Copy to:-

- 1- GM(T) / GM (Contract) / GM (Commercial) / FA, UPRNN Ltd, VishweshwaraiyaBhawan, VibhutiKhand, Gomti Nagar, Lucknow – 226010(UP)
- 2- AGM/ PM (Electrical), UPRNNLtd,
- 3- ARE/Sub Engineer/Accountant, UPRNN Ltd,Unit.....

Project Manager,
UPRNN Ltd,

⁵ Mention the name of PM/RE/ARE of the concerned unit of UPRNN Ltd

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Annuxer-23

मेरे द्वारा / मेरी कम्पनी द्वारा निविदा में चीन की कम्पनियों की सहभागिता किसी भी स्तर पर नहीं ली जाएगी एवं चीन द्वारा निर्मित किसी भी उत्पाद का किसी भी स्तर पर उपयोग नहीं किया जाएगा।

सुरेन्द्र मोहन
लेखाकार

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा

सहायक अभियन्ता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट, लखनऊ

इफतखार अली

स्थानिक अभियन्ता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ



CRITERIA FOR EVALUATION OF THE PERFORMANCE OF CONTRACTORS FOR PRE-ELIGIBILITY

Note: Information of each attribute mentioned below for evaluation of performance for pre eligibility is mandatory to be given by the Contractor

SN	Attributes	Evaluation				
(a)	Financial Strength (20 Marks) · Average Annual Turnover (16 Marks) · Solvency Certificate (4 Marks)	(i) 60% marks for minimum eligibility criteria (ii) 100% marks for twice the minimum eligibility criteria or more. (iii) In between (i) & (ii) – on pro rata basis				
(b)	Experience in Similar class of works (20 Marks)	(i) 60% marks for minimum eligibility criteria (i) 100% marks for twice the minimum eligibility criteria or more. (ii) In between (i) & (ii) – on pro rata basis				
(c)	Performance on works (time over run) (20 Marks)					
	Parameter calculations for points	Score				
	If TOR	≤ 1	2	3	>3.50	
		Max Marks				
(i)	Without levy of compensation	20	15	10	10	
(ii)	With levy of compensation	20	5	0	-5	
(iii)	Levy of compensation – Not decided	20	10	0	0	
	TOR = AT/ST, where AT = Actual Time; ST = Stipulated Time in agreement plus (+) justified period of extension of time. Note: -Marks for value in between the stages indicated above is to be determined by straight line variation basis.					
(d)	Performance of works (Quality) 40 Marks	Score				
	(i) Outstanding	40				
	(ii) Very Good	30				
	(iii) Good	20				
	(iv) Poor	0				

To become eligible to short list bidder 50% marks of each and 60 % marks in aggregates.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

PART – B

GENERAL CONDITIONS OF CONTRACT, SPECIAL CONDITIONS, SPECIFICATIONS AND

SCHEDULE OF QUANTITIES FOR MAJOR COMPONENT OF WORK. GENERAL INFORMATION

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



1. Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items, the work shall generally be carried out in accordance with the latest UPRNN (Building, Road, E&M Works), CPWD Specifications (Vol. I & II) for civil works with up to date correction slips and CPWD Specification for Horticulture works with up to date correction slips (hereinafter to be collectively referred to as "PWD Specifications"). Wherever PWD Specifications are silent, the latest BIS Codes/Specifications, National Building Code 2016, MoRTH, IRC, ISI specifications, as per requirement, shall be followed.

A reference made to any Indian Standard Specifications in these documents, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The Contractor shall keep at his own cost all such publications of relevant Indian Standard applicable to the work at site.

2. The tenderer shall acquaint himself with the proposed site of work, its approach roads, working space available etc. before quoting his rates and no claim on this account shall be entertained by the department.
3. The contractor(s) shall study the soil investigation report for the site, available in the office of the Engineer-in-charge and satisfy himself about complete characteristics of soil and other parameters at site. However, no claim on the alleged inadequacy or incorrectness of the soil data supplied by the department shall be entertained.
4. The tenderer shall see the approaches to the site. In case any approach from main road is required at site or existing approach is to be improved or maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost. No payment shall be made on this account.
5. The building work shall be carried out in the manner complying in all respects with the requirements of the relevant bye-laws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.

6. RATES :

- i. The contractor (s) shall quote all-inclusive rates (except GST) against the items in the schedule of quantities and nothing extra shall be payable for any of the conditions and specifications mentioned. In the tender documents unless specifically specified otherwise.
- ii. Unless otherwise specified in the schedule of quantities the rates for all items shall be considered as inclusive of pumping out water, if necessary, for which no extra payment shall be made. Those conditions shall be considered to include water from any source such as inflow of flood, surface and sub-soil water etc. and shall apply to the execution in any season.

7. PROGRAMME CHART

- i. The Contractor shall prepare an integrated programme chart in MS Project/Primavera software for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the programme within the stipulated period or earlier and submit the same for approval to the Engineer-in-Charge within ten days of award of the contract. Non-submission of such programme shall attract the recoveries as mentioned in the Schedule-F of the tender document.
- ii. The programme chart should include the following:

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, विद्युत इकाई, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, विद्युत इकाई, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट रोड



- iii. Not less than 90% tests for material be performed at site lab with above stated equipment's, however at least 10% testing of materials shall be got done from external other laboratories. However, for the tests to be carried out by the external laboratories, the contractor shall supply free of charge all the materials required for testing, including transportation. If the tests which were to be conducted in the site laboratory are conducted in other laboratories for any the reasons the cost of such tests shall be borne by the contractor.
- iv. **Other Laboratories:** The contractor shall arrange carrying out all tests required under the Agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection there with including charges for testing for all materials except cement for which separate condition is provided in tender document.
- v. The tests, as necessary, shall be conducted in the following laboratory. The samples shall be taken for carrying out all or any of the tests as directed by the Engineer-in-Charge or his authorized representative.
 - a) NIT / IIT.
 - b) CBRI, Roorkee
 - c) CRRI, Delhi.
 - d) National Council for Cement and Building Materials, BallabhGarh.
 - e) National Test House, Ghaziabad
 - f) Government Engineering College / University
 - g) Shree Ram Testing Laboratory Delhi
 - h) Any other NABL approved lab as per Engineer-in-Charge.
- vi. Approval is required for Testing in these Laboratories / Institutes. However, the outside Private Laboratories shall be got approved from the Engineer-in-charge, if no approved labs as above is available within 200 kms of the work site. A particular private lab shall be approved for specified tests and work / project. The approving authority will specify the tests while approving the laboratories.
- vii. The cost of test required for all the materials shall be borne by the Contractor until unless specified elsewhere in the NIT.

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट रोड

- f. Inspection register.
 - g. Drawing register.
 - h. Any other register decided by the Engineer-in-charge.
- iii. All the entries in the registers will be made by the designated Engineering staff of the contractor and same should be regularly reviewed by JE/AE/PM.
 - iv. All samples of materials including cement concrete cubes shall be taken jointly with contractor by JE and out of this at least 50% samples shall be taken in presence of AE in charge. All the necessary assistance shall be provided by the contractor. Cost of Sampling & testing are to be borne by the contractor and he shall be responsible for safe custody of samples to be tested at site/ outside laboratory.
 - v. All the tests in field lab at construction site shall be carried out by the Engineering staff deployed by the contractor and shall be 100% witnessed by JE and 50% of tests shall be witnessed by AE-in-Charge. At least 10% of the tests are to be witnessed by the Project Manager. Minimum 10% of all samples should be tested in outside approved laboratory.
 - vi. Submission of copy of all test registers, material at site register along with each alternate running account bill and final bill shall be mandatory. These registers should be duly checked by ARE/RE of unit office.
11. Other conditions of major work contract is attached with specifications.

Annexure A*

(Ref: Clause 5 in Performa of Schedule 'F')

SN	Financial Mile Stone	Time allowed (from date of start)	% Amount of tendered cost to be with-held in case of non achievement of milestone
1	1/8 of the tendered amount	¼ of the contract period	1.00%
2	3/8 of the tendered amount	½ of the contract period	1.00%
3	3/4 of the tendered amount	¾ of the contract period	1.00%

Note :-

1. The milestone, either *physical or financial*, as mentioned above is to be achieved for S. No. 1 to 3. Overall physical mile stone has to be achieved for S.No. 4 & 5. In case of achievement of any milestone the amount withheld for non-achieving of previous milestones will be released.
2. The main contractor will ensure that electrical components of the work are executed in time without giving any chance for slippage of milestone on account of delay in execution of associated electrical works. However, in case milestones are not achieved by the contractor for the work, the amount shown against each milestone shall be withheld by the Engineer-in-charge of the major component for minor component it will be withheld in consultation with the Engineer-in-charge of the minor component.
3. Internal electrical installation, Conduiting work should also be completed along with civil work as indicated above.

सुरेन्द्र मोहन
लेखाकार
0 प्र० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट रोड



- 11 The contractor shall make his own arrangement for obtaining electric connection and make necessary payments directly to the department concerned.
- 12 Other agencies doing works related with this project may also simultaneously execute their works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc for laying/burying in the work, pipes cables, conduits, clamps, boxes and hooks for fan clamps etc as may be required for the other agencies. Nothing extra over the Agreement rates shall be paid for doing these.
- 13 Some restrictions may be imposed by the security staff etc on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on account of the same.
- 14 The contractor shall fully comply with all legal orders and directions of the Public or local authorities or municipality and adhere by their rules and regulations and pay all fees and charges for which he may be liable in this regard. Nothing extra shall be paid/reimbursed for the same.
- 15 The building work shall be carried out in the manner complying in all respects with the requirements of the relevant bylaws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.
- 16 The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted by making his own arrangements for water supply, electricity etc and nothing extra whatsoever shall be payable for the same.
- 17 If as per local Municipal regulations, huts for labour are not to be erected at the site of work, the contractor shall be required to provide such accommodation at a place as is acceptable to the local body and nothing extra shall be paid on this account.
- 18 It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
- 19 The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless otherwise given in writing by the Engineer-in-charge.
- 20 The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him. Where however phased delivery of work is contemplated these provisions shall apply separately to each phase.
- 21 The entire royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand etc collected by him for execution of the work, directly to the Revenue authority or authorised agents of the State Government concerned or the Central Government, as the case maybe.
- 22 The contractor shall issue Identity card to all laborers and engineers/staff engaged by him and nothing shall be paid on this account.
- 23 The contractor shall prepare an integrated programme chart (Part Chart in Primavera Software) for the execution of work and the detailed provision in **clause 5 of CLAUSE OF CONDITION** shall be followed.
24. If the work is carried out in more than one shift or during night no claim on these accounts shall be entertained.
- 25 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, विद्युत इकाई, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, विद्युत इकाई, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- 26 The contractor shall be responsible for the watch and ward/guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.
- 27 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department.
- 28 The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc shall be stacked/collected in areas where other buildings, roads, services, compound walls etc are to be constructed.

Any trenching and digging for laying sewer lines/water lines/cables etc shall be commenced by the contractor only when all men, machinery's and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.

- 29 The works shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work and satisfy himself that the information available thereof is complete and unambiguous. The discrepancy, if any shall be brought to the notice of the Engineer-in-Charge before execution of the work. **The contractor alone shall be responsible for any loss or damage executing by the commencement of work on the basis of any erroneous and or incomplete information.**

- i) The contractor shall take all precautions to avoid accidents by, exhibiting caution boards day and night, speed limit boards, red flags, red light and providing necessary barriers and other measures required from time to time. The contractor shall be responsible for all damages and accidents due to negligence on his part.
- ii) Other agencies may also simultaneously execute and install the works of electrification, air conditioning, lifts, fire-fighting etc for this work and the contractor shall provide necessary facilities for the same. The contractor shall leave such recesses, holes openings etc as may be required for the electric, air-conditioning and other related works (for which inserts, sleeves, brackets, conduits base pinion, clamps etc shall be got arranged free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work & brick work, if required and nothing extra shall be payable on this account.
- iii) The contractor shall conduct work so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others. All Architectural drawings given in the tender other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fixtures involved unless and otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duly approved by the Engineer-in-Charge.

- 29 Samples of all materials and fittings to be used in the work in respect of brand manufacturer and quality shall be got approved from the Engineer-in-Charge, and shall be preserved till the completion of the work. Articles bearing BIS certifications mark shall only be used unless no manufacturer has got BIS mark for the particular material. Any material/fitting whose sample has not been approved and any other unapproved material brought by the contractor shall be immediately removed as soon as directed. Unless otherwise specified in the schedule of quantities the rates for all items shall be considered as inclusive of pumping/baling out water, if necessary, for which no extra payment shall be made. Those conditions shall be considered to include water from any source such as inflow of flood, surface and sub-soil water etc and shall apply to the execution in any season.

31 Pollution control norms:-

Since the building is to be constructed inside the, all necessary measures are to be taken to control pollution.

सुरेन्द्र मोहन
लेखाकार
0 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Construction Vehicles, Equipment and Machinery

- All vehicles, equipment and machinery to be procured for construction shall conform to the relevant Bureau of India Standard (BIS) norms.
- Emission from the vehicles must conform to environmental norms.
- Dust produced from the vehicular movement and other site activities is to be mitigated by sprinkling of water.
- Noise limits for construction equipments shall not exceed 75 dB(A), measured at one meter from the edge of the equipment in free area, as specified in the Environment Protection Act, 1986, schedule VI part E, as amended on 9th May, 1993. The maximum noise levels near the construction site should be limited to 65 dB (A) Leq (5 min) in project area.

Construction Wastes Disposal

- The pre-identified dump locations will be a part of solid waste management plan to be prepared by the Contractor in consultation with Engineer-in-charge.
- Contractor shall get approved the location of disposal site prior to commencement of the excavation on any section of the project location.
- Contractor shall ensure that any spoils of material / construction waste will not be disposed off in any municipality solid waste collection bins.

Procurement of Construction Materials

- All vehicles delivering construction materials to the site shall be covered to avoid spillage of materials and maintain cleanliness of the roads.
- Wheel Tyres of all vehicles used by of the contractor, or any of his sub contractor or materials suppliers shall be cleaned and washed clear of all dust/mud before leaving the project premises. This shall be done by routing the vehicles through tyre washing tracks.
- Contractor shall arrange for regular water sprinkling at least twice a day (i.e. morning and evening) for dust suppression of the construction sites and unpaved roads used by his construction vehicles.

Water Pollution

- The Contractor shall take all precautionary measures to prevent the wastewater during construction to accumulate anywhere.
- The wastewater arising from the project is to be disposed off in the manner that is acceptable to the Engineer –in-charge.

Air and Noise Pollution

Contractor shall use dust screens and sprinkle water around the construction site to arrest spreading of dust in the air and surrounding areas.

Contractor shall ensure that all vehicles, equipment and machinery used for construction are regularly maintained and confirm that emission levels comply with environmental emission standards/norms.

- For controlling the noise from Vehicles, Plants and Equipments, the Contractor shall confirm the following:
 - All vehicles and equipment used in construction will be fitted with exhaust silencers.
 - Servicing of all construction vehicles and machinery will be done regularly and during routine servicing operations, the effectiveness of exhaust silencers will be checked and if found defective must be replaced by the contractor immediately.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश चम
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

- 3) Noise emission from compactors (rollers) front loaders, concrete mixers, cranes (movable), vibrators and saws should be less than 75 dB(A).
- 4) As per the standards/guidelines for control of Noise Pollution from Stationary Diesel Generator (DG) sets, noise emission in dB(A) from DG Set (15-500 KVA) should be less than $94+10 \log_{10} (KVA)$. The standards also suggest construction of acoustic enclosure around the DG Set and provision of proper exhaust muffler with insertion loss of minimum 25 dB(A) as mandatory.

Adequate drinking water facility should be provided at site, adequate number of decentralised latrines and urinals to be provided for construction workers.

Full time workers residing on site should be provided with clean and adequate temporary hutment.

Adopt measures to prevent air pollution in the vicinity of the site due to construction activities. There is no standard reference for this. The best practices should be followed (as adopted from international best practice documents and codes).

Identify roads on-site that would be used for vehicular traffic. Update vehicular roads (if these are unpaved) by increasing the surface strength by improving particle size, shape and mineral type that make up the surface base. Add surface gravel to reduce source of dust emission. Limit amount of fine particles (smaller than 0.075mm) to 10 -20%. Limit vehicular speed on site 10km/h. Nothing extra will be payable for this.

All material storages should be adequately covered and contained so that they are not exposed to situations where winds on site could lead to dust/particulate emissions.

Spills of dirt or dusty materials shall be cleaned up promptly so the spilled material does not become a source of fugitive dust and also to prevent of seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the clean – up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained/cleaned up immediately before they can infiltrate into the soil/ground or runoff in nearby areas.

Ensure that water spraying is carried out by wetting the surface by spraying water on:

- (i) Any dusty material.
- (ii) Areas where demolition work is carried out.
- (iii) Any unpaved main-haul road and.
- (v) Areas where excavation or earth moving activities are to be carried out.

The contractor shall ensure the following:

- (i) Cover and enclose the site by providing dust screen, sheeting or netting to scaffold along the perimeter of a building.
- (ii) Covering stockpiles of dusty material with impervious sheeting.
- (iii) Covering dusty load on vehicles by impervious sheeting before they leave the site.
- (iv) Transferring, handling/storing dry loose materials like bulk cement and dry pulverized fly ash inside a totally enclosed system.
- (v) Spills of dirt or dusty materials shall be cleaned up promptly so that the spilled material does not become a source of fugitive dust and also to prevent seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the clean-up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained / cleaned up immediately before they can infiltrate into the soil/ground or runoff in nearby areas.

Clear vegetation only from areas where work will start right away

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश चम
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Provide sheet covering/barricading of site of not less than 3m height along the site boundary, next to a road or other public area. Nothing extra will be paid for this.

The contractor shall provide experienced personnel with suitable training to ensure that these methods are implemented. Prior to the commencement of any work, the method of working, plant equipment and air pollution control system to be used on –site should be made available for the inspection and approval of the Engineer –in-Charge to ensure that these are suitable for the project.

Employ measures to segregate the waste on-site into inert, chemical or hazardous wastes. Recycle the unused chemical/hazardous wastes such as oil, paint, batteries and asbestos. The inert waste is to be disposed off to Municipal Corporation/local bodies dump yard and landfill sites.

To preserve the existing landscape and protect it from degradation during the process of construction. Select proper timing for construction activity to minimize the disturbance such as soil pollution due to spilling of the construction material and its mixing with rainwater. The construction management plan including soil erosion control management plan shall be prepared accordingly. The application of erosion control measures includes construction of gravel pits and tyre washing bays of approved size and specification for all vehicular site entry/exits, protection of slopes greater than 10%. Sedimentation Collection System and run-off diversion systems shall be in place before the commencement of construction activity. Preserve and protect the existing vegetation by not-disturbing or damaging to specified site areas during construction.

The Contractor should follow the construction plan as proposed by the Engineer-in-charge / landscape consultant to minimize the site disturbance such as soil pollution due to spilling. Use staging and spill prevention and control plan to restrict the spilling of the contaminating material on site.

Spill prevention and control plans should clearly state measures to stop the source of the spill. Measures to contain the spill and measures to dispose the contaminated material and hazardous wastes. It should also state the designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners and petroleum products.

A soil Erosion and Sedimentation Control Plan (ESCP) should be prepared prior to construction and should be applied effectively.

The contractor shall prepare and submit 'Spill prevention and control plans' before the start of construction, clearly stating measures to stop the source of the spill, to contain the spill, to dispose the contaminated material and hazardous wastes, and stating designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners, and petroleum products.

The contractor shall ensure that no construction leaches (Ex: cement slurry) is allowed to percolate into the ground. Adequate precautions are to be taken to safeguard against this including reduction of wasteful curing processes, collection, basic filtering and reuse. The contractor shall follow requisite measures for collecting drainage water run-off from construction

areas and material storage sites and diverting water flow away from such polluted areas. Temporary drainage channels, perimeter dike/swale, etc shall be constructed to carry the pollutant –laden water directly to the treatment device or facility (municipal sewer line).

- 32 All lighting installed by the contractor around the site and at the labour quarters during construction shall be LED bulbs of the appropriate illumination levels. This condition is a must, unless specifically prescribed otherwise. The malba during the construction period will be removed at least on weekly basis or more frequently as per the requirements and norms of Local bodies, National Green Tribunal (NGT), UP Pollution Control Board (UPPCB) etc for which nothing extra shall be paid to the contractor. If the above are not followed, the Contractor will be solely responsible for all the consequences including penalties imposed by the Govt. Bodies.

सुरेन्द्र मोहन
लेखाकार
0 प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश चम
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- 33 During the construction period, it will be mandatory on the part of the Contractor to properly screen the construction site off the roads and adjacent structures / Buildings by means of erecting Screen walls of height as specified and desired by the local body and any other concerned Govt. Body which are to be painted to avoid any sort of unpleasant looks. In addition to this, a net or some other protective material (as per norms of local Govt body) shall be placed / hoisted at the facades of the building to ensure that all the falling or any other materials etc remain within the protected areas for which nothing extra shall be paid to the contractor.
- 34 All the prevailing rules and notifications of NGT, UPPCB, Min of Environment & Forest etc are strictly to be followed by the Contractor and employer (UPRNN Ltd) or the Owner will not be responsible for any punitive action taken by the above Govt Bodies in case of any default by the Contractor who will be solely responsible for any of the above penalties imposed by any of the concerned Govt Bodies for which nothing extra shall be paid to the contractor.
- 35 The Contractor will be fully responsible for getting sewer, water and power connections from the concerned local bodies / Agencies after completing all the formalities and obtaining their mandatory permission / approval / NOC and also final clearances / NOCs / completion certificates from the concerned authority dealing with Fire Services, Local Body, authority dealing with public health and electricity board etc However fees paid to the concerned / local bodies for this purpose will be reimbursed / paid by the Employer (UPRNN Ltd / Client).
- 36 The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.
- 37 The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.
- 38 The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.
- 39 The paving of the path for plying of vehicles carrying construction material is more permanent solution to dust control and suitable for longer duration projects. The NIT approving authority shall carry out cost benefit ratio analysis of the same.
- 40 The contractor(s) shall give to the local body, police and other authorities all necessary notices etc that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc and pay all fee, taxes and charges which may be leviable on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain lights either for illumination or for cautioning the public at night.
- 41 The Contractor(s) shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night. In case of any accident of labours/ contractual staffs the entire responsibility will rest on the part of the contractor and any compensation under such circumstances, if becomes payable, shall be entirely borne by the contractor.
- 42 The Contractor(s) shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed. The stacking shall take place as per stacking plan however, if any change is required, the same shall be done with the approval of Engineer-in-Charge.
- 43 If as per the rules of the local authority, the huts for labour are not to be erected at the site of work by the contractors, the contractors are required to provide such accommodation as is acceptable to local bodies and nothing extra shall be paid on this account. No accommodation is available at the site of work. The labour huts shall not be erected on the plot and the Contractor shall make his own

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश चम
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



arrangements to provide such accommodation as per the rules of the local bodies. He shall make his

सुरेन्द्र मोहन
लेखाकार

उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा

सहायक अभियन्ता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

इकाई हाईकोर्ट, लखनऊ

इफतखार अली

स्थानिक अभियन्ता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ



44 The contractor shall construct suitable godowns, yard at the site of work for storing all other materials so as to be safe against damage by sun, rain, damages, fire, theft etc at his own cost and also employ necessary watch and ward establishment for the purpose at his cost.

45 For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do the same at his own cost and nothing extra shall be paid except otherwise provided in the items of Schedule of Quantities.

46 In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained notwithstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any. Further, no claims for hindrance shall be entertained on this account.

47 Total station survey instruments only shall be used for layout, fixing boundaries, and centre lines, etc, Nothing extra shall be payable on this account.

48 If at any time, any error appears due to grades, lines, levels and benchmarks during the progress of the work, the Contractor shall, at his own expense rectify such error, if so required, to the satisfaction of the Engineer -in-Charge. Nothing extra shall be payable on this account.

49 The approval by the Engineer-in-Charge, of the setting out by the Contractor, shall not relieve the Contractor of any of his responsibilities and obligation to rectify the errors/ defects, if any, which may be found at any stage during the progress of the work or after the completion of the work.

50 A site laboratory with the minimum equipment as specified above shall be established, made functional and maintained within fifteen days from the award of work without any extra cost to the department. In case of non-compliance of the same, a penalty/recovery @ Rs.2,50,000/- per month may be made from the contractor on prorata daily wages. The Contractor shall be required to arrange all the relevant codes and standards along with qualified staff to handle/operate testing equipment..

51 **SHOP DRAWINGS**
The bill of quantities, technical specifications and drawings together shall be considered as a tender requirement and the work shall be carried out as per good for construction (GFC) drawings, issued by Engineer-in-charge. The contractor shall study the GFC drawings and taking into account actual site conditions and selected material and requirements shall prepare shop drawings for the following works, as fully coordinated drawings, as given above.

- Aluminium work.
- Expansion joint work
- Suspended ceiling work, coordinated with all ceiling related services.
- Marble, granite, vitreous, ceramic, tile work
- All Electrical work
- All Sanitary work
- All steel fabrication work.
- PUF panel ceiling/roofing work.

The shop drawings shall be prepared timely by contractor and submitted for approval to achieve the milestones provided.

52 Within the time frame agreed with the Engineer-in-charge, the contractor shall prepare shop drawings using latest version of Auto CAD. Shop drawings shall show all layouts, details in plans & sections showing all connections, junctions, bends, supports, clearances, fixing arrangements with dimensions room etc shall be prepared by the contractor on AutoCAD based on the architectural drawings and site measurements. All measurable items quantities shall be mentioned on each shop drawing being submitted for approval by the contractor. 3 sets of shop drawings (soft copy also) shall be submitted for approval and Seven sets of final shop drawings after approval by Engineer-in-charge shall be submitted by the contractor along with the soft copy. The shop drawings shall be

अनुसंग यादव
अपर परिचोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विभाग



prepared as per schedule given in PERT Chart. Technical submittals of manufacturer's catalogues and technical data shall be

सुरेन्द्र मोहन
लेखाकार

उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा

सहायक अभियंता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

इकाई हाईकोर्ट, लखनऊ

इफतखार अली

स्थानिक अभियंता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

submitted for approval. The contractor shall designate an Engineer responsible for issue and preparation of shop drawings and control of GFC drawings.

- 53 Building Use Certificate for the building shall be borne by the UPRNN Ltd
- 54 WARNING/ CAUTION BOARDS: All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge. Nothing extra shall be payable on this account.
- 55 SIGN BOARDS: The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, Client/Owner, Engineer-in-charges, Structural Consultants, Department etc besides providing space for names of other Contractors, Sub-Contractors and specialized agencies within 15 days from issue of award letter. Nothing extra shall be payable on this account. In case of noncompliance/delay in compliance in this, a penalty @ Rs. 2500/- per day will be imposed which will be recovered from the immediate next R/A Bill of the Contractor.
- 56 No inflammable materials including POL shall be allowed to be stored in huge quantity at site. Only limited quantity of POL may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer -in- Charge in this regard. Also all precautions and safety measures shall be taken by the Contractor for safe handling of the POL products stored
- 57 The proposed building is a prestigious project and quality of work is of paramount importance. Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like specialized flooring work, Polysulphide sealant and backer rod fixing in expansion joints, factory made door- window shutters, proper slope maintaining in toilet units, sanitary- water supply installation, textured finishing, grit plastering with aluminium channel insertions, water proofing treatment with APP Extruded Polystyrene insulation boards, will specially require engagement of skilled workers having experience particularly in execution of such items.
- 58 All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-In-Charge. Wherever brand / quality of material are not specified in the item of work, the contractor shall submit the samples as per suggested list of brand names given in the tender document / particular specifications for approval of Engineer-In- Charge. For all other items, materials and fittings of ISI Marked shall be used with the prior approval of Engineer-In-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant specifications or IS codes and use the same only after getting the approval of Engineer-In-Charge.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
साहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



comply with safety requirements first. The contractor shall at all time maintain a minimum of 10% spare PPEs and safety appliances and properly record and show to the Employer during the inspections. Failing to do so shall invite appropriate compensations as per the provisions of under Workmen's Compensation Act 1923 as amended from time to time.

- 65 It is always the duty of the contractor to provide required PPEs for all visitors. Towards this required quantity of PPEs shall be kept always at the security post.

Safety Helmet Colour Code (Every Helmet should have the LOGO* affixed /painted)	Person to use
White	UPRNN / Client Officials, All Designers, Architect, Consultants, etc
Violet	Main Contractors (Engineers / Supervisors)
Blue	All Sub-contractors (Engineers / Supervisors)
Red	Electricians (Both Contractor and Sub-contractor)
Green	Safety Professionals (Both Contractor and Sub-contractor)
Orange	Security Guards / Traffic marshals
Yellow	All workmen
White (with "VISITOR" sticker)	Visitors

Note: LOGO*

- Logo shall have its outer dimension 2"X2" and shall be conspicuous.
- Logo shall be either painted or affixed.
- No words shall come either on Top / Bottom of Logo.

- 66 The Contractor will have to strictly follow all the norms and rules of Municipal Corporation / Local Body such as:-
- The malba during the construction will be removed beyond Munciple area limit on daily basis. If the same is not done, in that case the local body shall remove the malba and the cost shall be borne by the Contractor.
 - During Construction, it is mandatory on the part of the Contractor to properly screen the Construction site off the main road by means of erecting a screen wall not less than 8 (eight) feet in height from ground level which is to be painted to avoid unpleasant look from the roadside. In addition to this, a net or some other protective material shall be hoisted at the facades of the building to ensure that any falling material remains within the protected area. In case of non- compliance of the same, a penalty/recovery @ Rs.5000/- per metre may be made from the contractor
 - Noise related activities will not be taken for Construction at night after 10:00 PM.
 - The contractor shall put tarpaulin on scaffolding around the area of construction and the building. The Contractor will not be permitted to store any construction material on any part of the street, roads in any colony.
 - The Construction material of any kind i.e. stored at the site will be fully covered in all respects so that it does not disperse in the air in any form.
 - The construction material and debris shall be carried in the trucks or other vehicles which are fully covered and protected so as to ensure that the construction debris or the construction material does not get dispersed into the air or atmosphere, in any form whatsoever.
 - The dust emissions from the Construction site should be completely controlled and all precautions taken in that behalf.
 - The vehicles carrying construction material and construction debris of any kind should be cleared before it is permitted to ply on the road after unloading of such material.
 - Every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris shall be provided with mask to prevent inhalation of dust particles.
 - The Contractor shall be under obligation to provide all medical help, investigation and treatment to the workers involved in the construction of building and carrying of construction material and construction debris relatable to dust emission.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

- k. It shall be the responsibility of Contractor to transport construction material and debris waste to construction site, dumping site or any other place in accordance with rules and in terms of SDMCs order.
- l. The contractor has to take appropriate measures and to ensure that the Terms and conditions of local body orders should strictly be complied with by fixing sprinklers, creations of Green air barriers.
- m. Compulsory use of wet jet in grinding and stone cutting has to be ensured by the Contractor.
- n. The Contractor should erect wind breaking walls around the Construction site.
- o. No puncture, perforation, cutting, chiselling, trimming of any kind for any purposes are permitted in the structure.
- p. The Contractor will display boards of minimum size of 3'x4' indicating the following: i. Plot number & location.....
ii. Name of lessee.....
iii. Use of property as per lease deed.....
iv. Date of sanction of building plan with No.
v. Sanction valid up to.....
vi. Use of different floors and areas sanctioned.....
vii. Name of Architect & his address.....
viii. Name of Contractor and his address.....
- q. The provision of the Display board on the construction site is a mandatory requirement and non compliance of the same will invite a penalty of Rs 5000/- or more which shall be paid by the Contractor.
- r. The Contractor will ensure that the construction / demolish work shall be carried out in such a manner that no disturbance / nuisance is caused to residents of the neighbourhood.
- s. The Contractor will be fully responsible for the payment of any penalties imposed by the local body or any other Govt Agency, for non compliance of their rules and directions

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश चम
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Schedule A

(BOQ Major Component)

Electrical Work

सुरेन्द्र मोहन
लेखाकार

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा

सहायक अभियन्ता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट, लखनऊ

इफतखार अली

स्थानिक अभियन्ता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ



Bill of Quantity

(Major
Component)
(Electrical
Work)

Name of Work:

.....

Item No.	Description of Item	Qty	Unit	Rate	Amount

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

DRAWING

(E & M)

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

PART – C

GENERAL/SPECIAL CONDITIONS, SCHEDULES A TO F,
SPECIFICATIONS AND SCHEDULE OF QUANTITIES FOR MINOR
COMPONENT OF WORK.
(Civil WORK).

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- ELIGIBILITY CRITERIA FOR MAIN AGENCY WITH RESPECT TO MAIN CONTRACTOR FOR EXECUTING THE Civil SUB-HEADS**



अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट रोड



2.	Steel reinforcement	-----	Double Rate of applicable sor rate
3.	Structural Sections	-----	Double Rate of applicable sor rate
4.	Bitumen issued free	-----	Double Rate of applicable sor rate
5.	Bitumen issued at stipulated fixed price	-----	Double Rate of applicable sor rate

SI .no.	Name of Component	App. Cost of work in Crore	Eligibility criteria	Similar Work
1	Civil Works	Rs. Cr.	UPRNNL register contractor with valid Civil Contract License	Providing Civil Works

1. RCC

The work shall be done as per PWD/CPWD specifications.

In the event of it being discovered that after the completion of the work, the quantity of cement used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in **BIS Code** the cost of quantity of cement so less used shall be recovered from the contractor at the rate as specified in schedule A-6. Decision of the Engineer-in-Charge in regard to the quantity of cement which should have been actually used as per the schedule and recovery at the rate specified shall be final and binding on the contractor.

For non-scheduled items, the decision of the General Manager regarding theoretical quantity of the cement which should have been actually used shall be final and binding on the contractor.

Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-Charge.

In case the contractor brings surplus quantity of cement the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.

DESIGN MIX CONCRETE:

The contractor shall be required to submit two separate design mix of concrete with and without using plasticizers, separately. The decision of the engineer-in-charge to specify the design mix of concrete based on above shall be final. The contractor shall not be paid anything extra for extra cement on account of design mix.

Coarse aggregate: As per UPPWD/CPWD

Specifications Fine Aggregate: As per UPPWD/CPWD

Specifications.

सुरेन्द्र मोहन
लेखाकार
०५०२०१०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ०प्र०रा०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

इपत्तखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विभाग



Water: It shall conform to requirements laid down in IS:456 : 2000 and UPPWD/CPWD specifications.

Cement: Cement arranged by the contractor will be PPC (in bags) conforming to IS: 1489-Part-I. If for any reasons, cement other than that specified in this para for example OPC of grade 43 or higher grade is brought to site by contractor, the issue, payments rate as well as the quantity to be used in the design mix concrete will remain unchanged.

Slump: Design slump should be clearly specified in the mix design.

Admixtures shall not be used without approval of Engineer-in-charge. Wherever required, admixtures of approved quality shall be mixed with concrete as specified. The admixtures shall conform to IS: 9103. The chlorides content in the admixture shall satisfy the requirements of BS: 5075. The total amount of chlorides admixture mixed concrete shall also satisfy the requirements of IS: 456. The contractor shall not be paid anything extra for admixture required for achieving desired workability without any change in specified water cement ratio for RCC/CC work.

Grade of Concrete : The compressive strength of various grades of concrete shall to be given as below:

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

	Grade designation	Compressive strength on 15 cm cubes min. 7 days (N/mm ²)	Specified characteristic compressive strength at 28 days (N/mm ²)	Minimum cement quantity (Kg. per cum. Mtr.)	Maximum water cement ratio
i	M 25	As per design	25	As per table 5, clause 6.1.2, 8.2.4.1 & 9.1.2 page 20 of IS 456-2000	0.50
ii	M 30	As per design	30		0.45
iii	M 35	As per design	35		0.45
iv	M 40	As per design	40		0.40

Note

- (ii) In the designation of a concrete mix letter M refers to the mix and number to the specified characteristic compressive strength of 15 cm x 15 cm x 15 cm – cube 28 days expressed in N/mm²
- (iii) Grade of Concrete : The compressive strength of various grades of concrete shall to be given as below:

Design slump has to be constantly monitored and maintained during placing of concrete through slump tests carried out as per PWD/CPWD specifications for Mortar, Concrete and RCC works, and records maintained accordingly.

The concrete mix design/laboratory tests with and without admixture shall be got done by contractor at his own cost and will be carried out by the contractor through one of the following laboratory/Test houses:

- NIT / IIT .
- CBRI, Roorkee
- CRRRI, Delhi.
- National Council for Cement and Building Materials, BallabhGarh.
- Government Engineering College / University
- Shree Ram Testing Laboratory Delhi
- Any other NABL approved lab as per Engineer-in-Charge.

The various ingredients for mix design / laboratory tests shall be sent to the test houses through letter of the Engineer-in-Charge and the samples of such aggregate & cement shall be preserved at site by the department

The contractor shall submit the mix design report from any of above approved laboratory for approval of Engineer-in-Charge with in 15 days from the date of issue of letter of acceptance of the tender. No concreting shall be done until the mix design is approved by the Engineer-in-charge.

In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised laboratory mix design report conducted at laboratory established at site shall be submitted by the contractor as per the direction of the Engineer-in-Charge

APPROVAL OF DESIGN MIX

The mix design for a specified grade of concrete shall be done for a target mean compressive strength $T_{ck} = F_{ck} + 1.65 s$.

Where F_{ck} = Characteristic compressive strength of 28 days

s = Standard deviation which depends on degree of quality control

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश चम
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

The degree of quality control for this work is “good” for which the standard deviation (s) obtained for different grades of concrete shall be as bellows:

Grade of Concrete	For “Good” quality of control
M 25	4.00
M 30	5.00
M 35	5.00
M 40	5.00

Of the six specimen of each set three shall be tested at seven days and remaining three at 28 days. The preliminary tests at seven days are intended only to indicate the strength to be attained at 28 days

All cost of mix designing and testing connected therewith including charges payable to the laboratory shall be borne by the contractor.

The batching plant shall conform to IS:4925. It shall have the facilities of presetting the quantity to be weighed with automatic cutoff when the same is achieved. Concreting at places may have to be resorted to through concrete pump for which nothing extra shall be paid.

All other operations in concreting work like Mixing, Slump, Laying Placing of concrete, compaction curing etc. not mentioned in this particular specification for Design Mix of concrete shall be as per UPRNN .

WORK STRENGTH

TEST TEST

SPECIMEN

Work strength test shall be conducted in accordance with IS: 456 on random sampling. Each test shall be conducted on six specimens, three of which shall be tested at 7 days and remaining three at 28 days.

TEST RESULTS OF SAMPLE

The test result of the sample shall be the average of the strength of three specimen. The individual variation shall not be more than 15 percent of the average. If more the test results of the sample are invalid. Not more than 90% of the total test shall be done at the laboratory established at site by contractor and 10% testing of materials shall be got done from as per list in Part B-59. However, for the tests to be carried out by the external laboratories, the contractor shall supply free of charge all the materials required for testing, including transportation. If the tests which were to be conducted in the site laboratory are conducted in other laboratories for any the reasons the cost of such tests shall be borne by the contractor.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



The minimum frequency of sampling of concrete of each grade shall be according to the following:-

Quantity of concrete in the work cubic metre per day	Number of samples.
1-5	1
6-15	2
16-30	3
31-50	4
51 & above	4 + one additional sample for additional 50 cubic meter or part thereof.

Note: At least one sample shall be taken from each shift.

STANDARDS OF ACCEPTANCE

- (i) In case the test result of all the samples is above the characteristic compressive strength, the concrete shall be accepted.
- (ii) In case the test result of one or more samples fails to meet the requirement (i) above it shall be accepted if both the following conditions are met:
 - a) Any individual test result is not less than $(f_{ck} - 4) \text{ N/mm}^2$
 - b) The mean of test result from any group of four consecutive samples is more than $(F_{ck} + 4) \text{ N/mm}^2$.
- (iii) Concrete of each grade shall be assessed separately.
- (iv) Concrete is liable to be rejected if it is porous or honeycombed, its placing has been interrupted without providing a proper construction joint or the reinforcement has been displaced beyond the tolerances specified, or construction tolerances have not been met. However the hardened concrete may be accepted after carrying out suitable remedial measures to the satisfaction of the Engineer-in-Charge for which nothing extra is payable to the contractor.

Only MS centering/shuttering and scaffolding material unless & otherwise specified shall be used for all RCC. Work to give an even finish of concrete surface. However marine ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor on approval by the Engineer-in-Charge.

In case of actual average compressive strength being less than specified strength which shall be governed by para "Standard of Acceptance" as above the rate payable shall be worked out accordingly on prorata basis.

In case of rejection of concrete on account of unacceptable compressive strength governed by para “Standard of Acceptance” as above the work for which samples have failed shall be redone at the cost of contractors. However the Engineer-in-Charge may _____ order _____

सुरेन्द्र मोहन
लेखाकार
0७०२०१०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ०प्र०रा०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विधुत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विभाग



for additional test (like cutting cores, ultrasonic pulse velocity test, load tests on structure or part of structure etc.) to be carried out at the cost of contractor to ascertain if the portion of structure

wherein concrete represented by the sample has been used, can be retained on the basis of results of individual or combination of these tests. The contractor shall take remedial measures necessary to retain the structure as approved by the Engineer-in-Charge without any extra cost. However for payment the basis of rate payable to contractor shall be governed by the 28 days cube test results.

PRE-CAST RCC WORK

Pre-cast reinforced concrete units shall be of grade or mix as specified. Provision shall be made in the mould to accommodate fixing devices such as hooks, flats etc. And forming of notches and holes. Each unit shall be cast in one operation. A sample of the unit shall be got approved from Engineer-in-Charge before taking up the work.

Pre-cast units shall be clearly marked to indicate the top of member and its locations.

Pre-cast units shall be stored, transported and placed in position in such a manner that these are not damaged

71. SANITARY INSTALLATIONS, WATER SUPPLY AND DRAINAGE

The work of water supply and sanitary installations shall be got executed by the contractor in accordance with design & drawings provided by Consultant through Engineer-in-Charge. The entire responsibility for the quality of work will however rest with the building contractor only.

The work of water supply, internal sanitary installations and drainage etc. shall be carried out as per the bylaws of the Municipal Corporation or any other local body.

The contractor shall engage licensed plumbers for the work. Nothing extra shall be paid/reimbursed for the same.

The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted by making his own arrangements for water supply, sewer, E&M services etc. and nothing extra whatsoever shall be payable for the same.

The work in general shall be carried out as per PWD/ CPWD specifications. Rate includes all materials, labour and all the operations mentioned in the respective items unless and otherwise specifically mentioned.

The contractor shall be responsible for all the protection of sanitary, water supply fittings and fixtures against pilferage and breakage during the period of installation until the completion / handing over of the work.

The contractor shall submit completion plans for water supply internal sanitary installations and building drainage work within thirty days of the date of completion. These plans are to be submitted on drawings prepared preferably through computers (1 original copy + 3 photocopies) on suitable scales to show the general arrangement and desired details.

72. WATER PROOFING TREATMENT



The contractor shall associate himself with the specialised firm, for water proofing treatment for basement/lower ground floor, underground tank and on roofs. Guarantee in the prescribed Performa attached with tender document shall be given by the contractor, for a period of 10 years from the date after the maintenance period prescribed in the contract. Changed which shall be also signed by engaged specified firm. In addition 10% (ten percent) of the cost of water proofing items shall be retained as Guarantee to watch the performance of the work done. However half of this retained amount will be released after five years, if the performance of the work done is found satisfactory. If however any defect is noticed during the Guarantee period, it shall be rectified by the contractor within seven days of intimation. In case it is not attended to, the same will be got done by another agency at the risk and cost of the contractor. This Guarantee deposit can however be released in full if a bank Guarantee of equivalent amount for 10 years is produced and deposited with the department by the contractor.

सुरेन्द्र मोहन
लेखाकार

उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा

सहायक अभियंता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट, लखनऊ

इफतखार अली

स्थानिक अभियंता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ



अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विभाग



5. The contractor may use OPC in place of PPC after written permission of Engineer-in-Charge. In such case, no extra payment shall be made in any form to the contractor by the Department.
6. The contractor shall procure TMT bars of **Fe 500** grade from primary steel producers such as **SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd and JSW Steel Ltd or any other producer as approved by UPRNN who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 million tonnes per annum and above.**
7. TMT bars shall meet the provisions/ specifications of IS 1786: 2008 pertaining to **Fe 500** grade of steel.
8. The contractor shall have to obtain vouchers and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
9. Samples shall also be taken and got tested by the Engineer-in-charge as per the provisions in this regard in the relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined under para 1 to 9 above, the same shall stand rejected and it shall be removed from the site of work by the contractor at his cost within a week time of written orders from the Engineer-in-charge to do so.
10. The steel reinforcement shall be brought to the site in bulk supply of 20 tonnes or more or as directed by the Engineer-in-charge.
11. The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent distortion & corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
12. For checking nominal mass, tensile strength, bend test, re-bend test etc. specimens of sufficient length shall be cut from each size of the bar at random at

frequency not less than that specified below:

Size of bar	For consignment below 100 tonnes	For consignment over 100 tonnes
Under 10 mm dia bars	One sample for each 20 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10 mm to 16 mm dia bars	One sample for each 20 tonnes or part thereof	One sample for each 40 tonnes or part thereof
Over 16 mm dia bars	One sample for each 20 tonnes or part thereof	One sample for each 40 tonnes or part thereof

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

13. The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.
14. The actual issue and consumption of steel on work shall be regulated and proper accounts maintained. The theoretical consumption of steel shall be worked out as per procedure prescribed in of the contract and shall be governed by the conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.
15. Steel bars / Tubular sections brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorised representative of the work on receipt of the same at site before use.
16. In case the contractor brings surplus quantity of steel the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in-Charge.
17. Reinforcement including authorised spacer bars and lap lengths shall be measured in length of different diameters, as actually (not more than as specified in the drawing) used in the work, nearest to a centimeter. Wastage and unauthorised overlaps shall not be measured.
18. The standard sectional weights referred to as in Table 1 under clause 6.2 at page 5 in BIS 1786-2008 will be considered for conversion of length of various sizes of MS bars, Tor steel bars and TMT bars into standard weight. The standard weights of tubes (hollow sections) referred to IS 4923 will be considered for conversion of length of various sections & sizes of pipes etc.
19. Records of actual sectional weight shall also be kept dia-wise & lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars / tubular sections based on the actual weighted average sectional weight shall be termed as derived actual weight.
20. If the derived weight as in para 13 above is lesser than the standard weight as in para 12 above, the derived actual weight shall be taken for payment.
21. If the derived actual weight is found more than the standard weight then the standard weight as worked out in para 12 above shall be taken for payment. In such case nothing extra shall be paid for the difference between the derived actual weight and the standard weight.
22. Mixing of different type of steel/different grades of steel shall not be allowed in the same structural members as main reinforcement to satisfy clause 26.1 of IS:456.
23. Tolerances on Nominal Mass (individual sample) shall be Table 2 under clause 6.2 & 7.2.2 at page 5 in BIS 1786-2008

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

LABORATORY AND SITE OFFICE:**a) Laboratory**

- 1 A site laboratory with the minimum equipment as specified above shall be established, made functional and maintained within fifteen days from the award of work without any extra cost to the department. In case of non-compliance of the same, a penalty/recovery @ Rs.2,50,000/- per month may be made from the contractor on prorata daily wages. The Contractor shall be required to arrange all the relevant codes and standards along with qualified staff to handle/operate testing equipment.

b) Site Office**i) For projects of above Rs. 25 crores tender cost**

- 2 The contractor has to provide free of cost six office rooms with three toilets with the approval of Engineer-in-charge for the purpose site office of field staff of UPRNN (Approx 135 sqm) and one conference hall of capacity of fifteen (15) persons (Minimum Size 8.00mX4.50m) with one toilet for the purpose of holding meetings during the inspection of senior officers of UPRNN/third party/client department etc
- 3 The contractor has to also make arrangement for furnishing of this site office as well as the conference hall with appropriate numbers of tables, chairs, conference table, ceiling fans, electric fittings, six no's air conditioners, telephone ,internet, photocopier, computer with printer and operator, regular electric and purified drinking water facility and other furniture as per direction of Engineer-in-charge. No extra payment on account of this shall be made to the contractor.
- 4 One sample keeping room of minimum area of 40 sqm. must also be constructed at site for keeping various materials brought by the contractor at site and approved by the Engineer-in-charge. No extra payment on account of this shall be made to the contractor.
- 5 All the above structures should be decent looking and shall be constructed as per direction of Engineer-in-charge.
- 6 All the above structure shall be demolished after completion of work and the dismantled material shall be the property of the contractor.
- 7 In case of non-compliance of the same, a penalty/recovery @ Rs.1, 00,000/- per month may be made from the contractor on prorata daily wages.

ii) For projects of below Rs. 25 crores tender cost

- 8 The contractor has to provide free of cost four office rooms with attached toilets with the approval of Engineer-in-charge for the purpose site office of field staff of UPRNN (Approx 135 sqm)
- 9 The contractor has to also make arrangement for furnishing of this site office with appropriate numbers of tables, chairs, ceiling fans, electric fittings, three no's air conditioners, telephone ,internet, regular electric and purified drinking water facility and other furniture as per direction of Engineer-in-charge. No extra payment on account of this shall be made to the contractor.
- 10 One sample keeping room of minimum area of 40 sqm. must also be constructed at site for keeping various material brought by the contractor at site and approved by the Engineer-in-charge. No extra All the above structures should be decent looking and shall be constructed as per direction of Engineer-in- charge.
- 12 All the above structure shall be demolished after completion of work and the dismantled material shall be the property of the contractor.
- 13 In case of non-compliance of the same, a penalty/recovery @ Rs.1, 00,000/- per month may be made from the contractor on prorata daily wages.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Additional Condition of VEHICLE:**Vehicles:****i) For projects above Rs. 25 crores tender cost**

The Contractor shall provide, establish and maintain two vehicles of powered vehicles (not old more than 2 years) with driver (such as Bolero/Innova / Scorpio etc as per satisfaction of engineer in charge) for UPRNN site staff use on this project within 15 days of acceptance of tender. In case of non-compliance of the same, a penalty/recovery @ Rs.60, 000/- per month per vehicle may be made from the contractor on prorated daily wages. In addition, the vehicle to be used by Engineer-in-charge shall be adjusted from the contractor as per the UPRNN taxi charges.

ii) For projects above Rs. 25 crores tender cost

The contractor shall provide one vehicle of powered vehicle (not old more than 2 years) with fuel & driver such as (Tata indigo/Honda amaze/swift desire/ford figo aspire etc) as per satisfaction of engineer in charge for UPRNN staff use on this project within 15 days of acceptance of tender. In case of non compliance of the same penalty/recovery @ 50,000/- per month may be made from the contractor on prorated daily wages. In addition the vehicle to be used by engineer in charge shall be adjusted from the contractor as per the UPRNN taxi charges (rates offered by HQ).

The contractor shall produce all original documents of Custom & other clearances of all the materials imported (if any) up to the quantity to be used for tendered work before use.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश चम
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



(On Rs. 100/- stamp paper)

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विमान



GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF STP/ETP

(On Rs. 100/- stamp paper)

This Agreement made this day of Two Thousand and
Between son of
..... (Thereafter called the Guarantor on the one part) and the MD,
U.P. RajkiyaNirman Nigam Ltd. (Thereafter called the Nigam on the other part).

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated and made between the GUARANTOR OF THE ONE PART AND the Nigam of the other part whereby the contract inter alia, undertook to render the work in the said contract recited structurally stable workmanship, finishing and use of sound materials.

AND WHEREAS THE GUARANTOR agreed to give a Guarantee to the affect that the said work will remain structurally stable and Guaranteed against faulty workmanship, finishing, manufacturing defects of materials and leakages, etc.

NOW THE GUARANTOR hereby Guarantee that work executed by him will remain structurally stable after expiry of maintenance period prescribed in the contract for the minimum life of 02 (Two) year to be reckoned from the date after the expiry of maintenance period prescribed in the contract. The decision of the Engineer-in-charge with regard to nature and cause of defect shall be final.

During this period of Guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge calling upon him to rectify, the defects falling which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects, commits breach thereafter, then the guarantor will indemnify the principal and his successors against all loss, damage, cost expenses or otherwise which may be incurred by him by reasons of any default on the part of the GUARANTOR in performance and observance of the supplementary agreement. As to the amount of loss and/or damages and or cost incurred by the Nigam, decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents, have been executed by the obligator and by for and on behalf of the UPRNN on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of:

1

2

SIGNED FOR AND ON BEHALF OF THE UPRNNBY in the presence of :

1

2

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



GUARANTEE BOND TO BE EXECUTED BY CONTRACTOR (s) FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ANTITERMITE TREATMENT WORKS

(On Rs. 100/- stamp paper)

THIS AGREEMENT is made on day of2015 between U.P. RajkiyaNirman Nigam Ltd.(Hereinafter called the UPRNN which expression shall wherever the context so demands or requires, includes their successors in office and assigns) acting for and on behalf of UPRNN of one part, and M/s Hereinafter called the Contractor (which expression shall wherever the context so demands or requires includes his successors and assigns) of the other part.

WHEREAS this agreement is supplementary to the contract agreement (hereinafter called 'the contract') No..... datedmade between the UPRNN on the one part and the contractor of the other part, whereby the contractor, inter-alia, undertook to render the Buildings and structures in the said contract rendered completely termite proof.

AND WHEREAS the contractor agreed to give a Guarantee to the effect that the said structure will remain Termite proof for ten years to be reckoned from the date after the maintenance period prescribed in the contract expires.

During this period of Guarantee the contractor shall make good all defects and for that matter shall replace at his risk and cost such wooden members and other materials like furniture, books etc as may be damaged by termite and in case of any other defect being found he shall render the building termite proof at his cost to the satisfaction of the UPRNN and shall commence the works of such rectification within seven days from the date of issuing notice from the UPRNN calling upon him to rectify the defects failing which the work shall be got done by UPRNN through some other contractor at the contractor's cost and risk and in the later case the decision of the company as to the cost recoverable from the contractor shall be final and binding.

That if the guarantor fails to execute the anti termite treatment or commits breach thereafter, then the guarantor will indemnify the company and his successors against all loss, damage, cost expenses or otherwise which may be incurred by him by reasons of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damages and or cost incurred by the Nigam,. The ecision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents, have been executed by the obligatorand by for and on behalf of the UPRNN on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of:

1

2

SIGNED FOR AND ON BEHALF OF THE UPRNNBY in the presence

of : 1

2

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

LIST of APPROVED/PREFERRED MAKES OF MATERIALS

1. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material or engaging any of the specialized agencies. The Contractor shall make a detailed submission with catalogues and proposed specifications, as well as full details of the works executed by the specialized agency, as specified.
2. Unless otherwise specified, the brands/makes of the material as specified in the item nomenclature, in the list of approved materials attached in the tender and in the particular specifications shall be used in the work. **In case of non-availability of the brands specified in the contract the Contractor may be allowed to use alternate equivalent brand of the material by Engineer-in-Charge with the prior approval of NIT Approving Authority subject to submission of documentary evidence of non - availability of the specified brands by contractor. The necessary cost adjustments on account of above change shall be made for the same.**
3. The contractor would submit original bills and manufacturer's test certificate for all lots of material procured for the work, payments would be released only for the items for which original bills & manufacturer's test report for the material consumed has been submitted to Engineer-in-Charge. Department shall also get random testing of material from testing Laboratory of its choice.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



**SPECIMEN OF LETTER BY THE ENGINEER IN CHARGE TO THE CONTRACTOR
FOR PROVISIONAL REDUCTION IN RATE FOR SUB-STANDARD WORK**

To

M/s

.....

Dear Sir(s)

Sub: Construction of Agreement no.

1. The MD UPRNN considers that the items of work (specified in the statement appended herewith) relating to the work undertaken by you in terms of the above Agreement have not been executed in accordance with the prescribed specifications and/or in a workmanlike manner and therefore, cannot be accepted in terms of the above said Agreement for payment at the rates specified in the Agreement.
2. The UPRNN, however, is willing to consider acceptance of the same should you agree to receive payment at rates suitably reduced taking into consideration the sub-standard nature of the said items of work. The General Manager-in-charge of the concerned Zone of UPRNN will determine as to what suitable reductions in the rates is made from the agreed rates for the said items. his/her decision is final. Pending such decision of the General Manager, however, the payment for the said items of work is made at the provisional rates indicated against each item.
3. If you agree to the aforesaid conditions for acceptance of payment for the said items of work you may please return the enclosed form duly executed by you.
4. If no reply is received from you within three weeks of the date of receipt of the letter it is presumed that the offer is not acceptable to you. In the said event the offer is stand withdrawn, without prejudice to the rights and remedies of the MD UPRNN in terms of the contract.

Yours faithfully, Engineer in Charge

Encl.: Statement as above. For and on behalf of the MD UPRNN

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



**CONSENT/ WILLINGNESS LETTER FROM ELIGIBLE ASSOCIATE AGENCY OF MINOR
COMPONENT OF WORK**

(for each specialized work separate certificate is required if the associate agency is different)

Name of work:-.....

I/ We hereby give my consent to associate with M/sfor executing the minor component of work of..... (Mention category)

1. I/We will execute the work as per specifications and conditions of the Agreement and as per direction of the Engineer –in-charge for the corresponding minor work till the completion of the work.
2. I/We will be responsible for necessary action to handover the installation and for rectification of defects and repair during the defect liability / warranty period.
3. Also I/We will employ full time technically qualified Engineer/ Supervisor for the minor component of the work as specified in clause 32 for the work. I/We will attend inspection of officers of the department as and when required.

Date:

Signature with date of Major Contractor

Signature with date of Associate/

Minor Contractor

Contractor

Address

3. Witness with address
(From major component contractor side)
4. Witness with address
(From minor component contractor side)

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Schedule A

(BOQ Minor Component)

Civil works

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Bill of Quantity

(Minor Component)
(Civil Work)

Name of Work:

.....

Item No.	Description of Item	Qty	Unit	Rate	Amount
	Attached Separately				

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

DRAWING

(Civil)

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

GENERAL CONDITIONS OF CONTRACT

for

BUILDING CONSTRUCTION WORKS

and

SCHEDULES 'B' TO 'F'

UTTAR PRADESH

RAJKIYA NIRMAN

NIGAM

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**Index**

S. No.	DESCRIPTION	PAGE
1	General Guidelines	
2	Form of Bid	
3	General Rules and Directions	
4	Conditions of Contract	
5	Clauses of Contract	
6	Integrity Pact	
7	Special Conditions	
8	Safety Code	
9	Model Rules for the Protection of Health and Sanitary Arrangements for Workers	
10	Contractor's Labour Regulations	
11	Performa of Registers (Appendix-I to XVI)	
12	Notice of Appointment of Arbitrator (Appendix-XVII)	
13	Form of Earnest Money Deposit Bank Guarantee Bond	
14	Form of Performance Security Bank Guarantee Bond Format - I	
15	Form of Performance Security Bank Guarantee Bond Format - II	
16	Schedules B to F Major Work (Civil)	
17	Schedule B to F Minor Work (E/M)	

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

GENERAL GUIDELINES

1. This book of "General Conditions of Contract" is applicable to both types of tenders i.e. "Percentage rate tenders and Item ratetenders".
2. Schedules A to F, special conditions/specifications and drawings etc. will be part of NIT and shall be uploaded.
3. The intending bidders will quote their rates in Schedule A.
4. Schedule B to F and Performa for registers are only for information and guidance.
5. Any amendment by the State Government / Authority will be binding upon the bidder and shall be treated as the part of bid document incorporated subsequently prior to bidding.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



(to be executed on Rs. 100 non judicial stamp paper)

UTTAR PRADESH RAJKIYA NIRMAN NIGAM LTD

FORM OF BID

Percentage Rate Tender ☒* OR

Item Rate Tender *

(Please tick the relevant box)

- (A)Tender for the work of :-
- (i) Tobeuploadedby.....hourson to/uploadat
- (ii) Tobeopenedinpresenceoftendererswhomaybepresentat.....hoursonin
the office of

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the MD UPRNN within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for 90 days from the due date of its opening in case of single bid system 90 days from the date of opening of technical bid in case tenders are invited on 2 /3 bid/ system for specialized work and not to make any modification in its terms and conditions.

If I/We, fail to furnish the prescribed performance Guarantee within prescribed period, I/We agree that the said MD UPRNNL or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that MD UPRNN or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance Guarantee absolutely. The said Performance Guarantee shall be a Guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rate to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantees as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/Weundertakeandconfirmthateligible similarwork(s)has/havenotbeengotexecuted through another contractor on back to back basis. Further that, if such a violation comes to the noticeofDepartment,thenI/WeshallbedebarredfortenderinginUPRNNinfutureforever. Also,ifsuchaviolationcomestothenthenoticeofDepartmentbeforedateofstartofwork,the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

सुरेन्द्र मोहन
लेखाकार
उ०प्र०रा०नि०लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ०प्र०रा०नि०लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विधुत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट रोड, दिल्ली



I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than a person to whom I/We /am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the MD UPRNN for a sum of Rs.
(Rupees)

The letters referred to below shall form part of this contract Agreement:-

(a)

(b)

(c)

For & on behalf of the MD UPRNN.

Dated:

Signatures.....

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



UTTAR PRADESH RAJKIYA NIRMAN NIGAM LTD

General Rules & Directions	<ol style="list-style-type: none"> 1. All work proposed for execution by contract will be notified in a form of invitation to tender pasted by publication in Newspapers or posted on website as the case maybe. This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit and Performance Guarantee to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours. 2. In the event of tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act 1952. 3. Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm.
Applicable for Item Rate Tender only	<ol style="list-style-type: none"> 4. The rate(s) must be quoted in decimal coinage. Amounts must be quoted in full Rupees by ignoring fifty paisa and considering more than fifty paisa as Rupee one. In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more contractors is same, then such lowest contractors may be asked to submit sealed revised offer quoting rate of each item of the schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer. If the revised tendered amount (worked out on the basis of quoted rate of individual items) of two or more contractors received in revised offer is again found to be equal, then the lowest tender, among such contractors, shall be decided by draw of lots in the presence of GM of zone, or unit in-charge of major & minor component(s) and the lowest contractors those have quoted equal amount of their tenders. In case of any such lowest contractor in his revised offer quotes rate of any item more than their respective original rate quoted already at the time of submission of tender, then such revised offer shall be treated invalid. Such case of revised offer of the lowest contractor or case of refusal to submit revised offer by the lowest

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		contractor shall be treated as withdrawal of his tender before acceptance and 50% of his earnest money shall be forfeited.
		<p>In case all the lowest contractors those have same tendered amount (as a result of their quoted rate of individual items), refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each lowest contractors.</p> <p>Contractor, whose earnest money is forfeited because of non-submission of revised offer, or quoting higher revised rate(s) of any item(s) than their respective original rate quoted already at the time of submission of his bid shall not be allowed to participate in the retendering process of the work.</p>
Applicable for Percentage Rate Tender only		<p>4A. Applicable for Percentage Rate Tender only in case of Percentage Rate Tenders, contractor shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule-A, he will be willing to execute the work. The tender submitted shall be treated as invalid if :-</p> <ol style="list-style-type: none">The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/sub head of the tender.The percentage quoted above/below is different in figures & words on the total amount of tender or any section/sub head of the tender. <p>Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected.</p> <p>4B. In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/ below on estimated cost of tender including all subsections/subheads as the case may be, but the revised percentage quoted above/below on tendered cost on each subsection/subhead should not be higher than the percentage quoted at the time of submission of tender. The lowest tenders shall be decided on the basis of revised offers.</p> <p>In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>If the revised tendered amount of two more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of GM of zone, or unit in-charge of major & minor component(s) (also DDH in case Horticulture work is also included in the tender), & the lowest contractors those have quoted equal amount of their tenders.</p> <p>In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor.</p> <p>Contractor(s), whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.</p> <p>5. The officer inviting tender or his duly authorized assistant, will open tenders online.</p> <p>6. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.</p>
Applicable for Item Rate Tender only		<p>7. In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in word tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.</p> <p>However, if a tenderer quotes nil rates against each item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer and earnest money deposited shall be forfeited.</p>
Applicable for percentage Rate Tender only		<p>8. In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



<p>Applicable for Percentage Rate Tender only</p>	<p>9. In Percentage Rate Tender, the tenderer shall quote percentage below/above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word 'Rs.' should be written before the figure of Rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15P' and in case of words, the word 'Rupees' should precede and the word 'Paisa' should be written at the end.</p> <p>10. (i) The Contractor whose tender is accepted, will be required to furnish performance Guarantee of 5% (Five Percent) of the tendered amount plus the additional performance Guarantee for unbalanced bids as per GO no. 622/23-12-2012-2 audit/08 TC dt. 08.06.2012 within the period specified in Schedule F. This Guarantee shall be in the form of Fixed Deposit Receipts or Guarantee Bonds (Bank Guarantee) of any SBI/ Nationalized bank/ Scheduled Commercial Bank.</p> <p>(ii) The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount equal to 5% of the tendered value of the work. The Security deposit will be collected by deductions from the running bills as well as final bill of the contractor at the rates mentioned above. The Security amount will also be accepted in cash or in the shape of Government Securities. Fixed Deposit Receipt of a SBI/ Nationalized bank/ Scheduled Commercial Bank or will also be accepted for this purpose provided confirmatory advice is enclosed.</p> <p>11. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.</p> <p>12. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the contractor and Government will not entertain any claim whatsoever in respect of the same. However component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different form that applicable on the last date of receipt of tender including extension if any.</p> <p>13. The contractor shall give a list of both gazetted and non gazetted UPRNN Employees related to him.</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>14. The tender for composite work includes, in addition to building work, all other work such as sanitary and water supply installations drainage installation, electrical work, horticulture work, roads and paths etc.</p> <p>15. The contractor shall submit list of works which are in hand progress) in the following form:</p>				
		Name of Work	Name and particular of Div where work is being	Value of work	Position of work	Remark

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**CONDITIONS OF CONTRACT**

Definitions	1.	The Contract means the documents forming the tender and acceptance thereof and the formal Agreement executed between the competent authority on behalf of the MD UPRNN and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in-Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.
	2.	<p>In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-</p> <ul style="list-style-type: none"> i. The expression works or work shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional. ii. The Site shall mean the land, places on, into or or where work is to be executed under the contract or any adjacent land, path or street or where work is to be executed under the contract or any adjacent land, path or street which may be temporally allotted or used for the purpose of carrying out the contract. iii. The Contractor shall mean the individual, firm or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company. iv. The Employer means the MD UPRNN and his successors. v. The Engineer-in-charge means the Engineer Officer who shall supervise and be in charge of the work and who shall sign the contract on behalf of the MD UPRNN as mentioned in Schedule 'F' hereunder. vi. The terms Authority, Employer & Engineer-in-Charge are as per bid document. vii. Accepting Authority shall mean the authority mentioned in Schedule 'F'. viii. Expected Risk are risks due to riots (other than those on account of contractor's Employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any acts of Government, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by Government of the part of the

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>works in respect of which a certificate of completion has been issued or a cause solely due to Government's faulty design of works.</p> <p>ix. Market Rate shall be the rate as decided by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule 'F' to cover, all overheads and profits.</p> <p>Provided that no extra overheads and profits shall be payable on the part(s) of work assigned to other agency(s) by the contractor as per terms of contract.</p> <p>Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender documents or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued upto the date of receipt of the tender.</p> <p>x. Department means UPRNN or any department of GOVERNMENT OF UTTAR PRADESH <u>which invites tenders on behalf of MD UPRNN as specified in schedule 'F'.</u></p> <p>xi. District Specifications means the specifications followed by the State Government in the area where the work is to be executed.</p> <p>xii. Tendered value means the value of the entire work as stipulated in the letter of award.</p> <p>xiii. Date of commencement of work: The date of commencement of work shall be the date of start as specified in schedule 'F' or the first date of handing over of the site, whichever is later, in accordance with the phasing if any, as indicated in the tender document.</p> <p>xiv. GST shall mean Goods and Service Tax – Central, State and Inter State.</p>
Scope and Performance	3.	Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
	4.	Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
	5.	<p>The contractor shall be furnished, free of cost, one certified copy of the contract documents except standard specifications, Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the tender documents.</p> <p>. None of these documents shall be used for any purpose other than that of this contract.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Works to be carried out	6.	The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labourers, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities (Schedule- A) shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.
Sufficiency of Tender	7.	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
Discrepancies and Adjustment of Errors	8.	The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions.
	8.1	In the case of discrepancy between the schedule of Quantities, the Specifications and/ or the Drawings, the following order of preference shall be observed:- i. Description of Schedule of Quantities. ii. Particular Specification and Special Condition, if any. iii. Drawings. iv. UPRNN Specifications. v. CPWD Specifications. vi. Indian Standard Specifications of B.I.S.
	8.2	If there are varying or conflicting provisions made in any one document Forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.
	8.3	Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Signing of Contract	9.	<p>The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:-</p> <ol style="list-style-type: none">the notice inviting tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance there of together with any correspondence leadingthereto.StandardUPRNNFormasmentioned inSchedule'F'consisting of:<ol style="list-style-type: none">Various standard clauses with corrections up to the date stipulated in Schedule 'F' along with annexures thereto.SafetyCode.Model Rules for the protection of health, sanitary arrangements for workers employed by UPRNN or its contractors.State Contractor's LabourRegulations.List of Acts and omissions for which fines can be imposed.No payment for the work done will be made unless contract is signed by thecontractor.
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सुरेन्द्र मोहन
लेखाकार
०२० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
०२० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
०२० रा० नि० नि० लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
०२० रा० नि० नि० लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**GENERAL CONDITIONS OF CONTRACT**

Performance Guarantee	i.	The contractor shall submit an irrevocable Performance Guarantee of Guarantee 5% (Five percent) of the tendered amount plus the additional security for unbalanced bids as per GO no. 622/23-12-2012-2 Audit/08 T.C.-2 Dated 08.06.2012 in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract Agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer- in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. The Performance Guarantee shall be in the prescribed form and shall be valid up to 60 days beyond the date of expiry of Defects Liability Period and warranty of 3(Three) year. This Guarantee shall be in the form of Fixed Deposit Receipts or Guarantee Bonds (Bank Guarantee) of any SBI/ Nationalised bank/ Scheduled Commercial Bank in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance Guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused there by shall fall on the contractor and the contractor shall forth with on demand furnish additional security to the UPRNN to make good the deficit.
	ii.	The Performance Guarantee shall be initially valid up to the stipulated date of completion plus minimum 60 days beyond that, if the same is submitted by the agency on scheduled format I as per GCC. If the same is submitted on the format II as per GCC, then the Performance Guarantee shall be valid up to the stipulated date of completion plus minimum 6 months beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance Guarantee shall be returned to the contractor, without any interest. However, in case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned year wise proportionately.

सुरेन्द्र मोहन
लेखाकार
0 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



	iii.	<p>The Engineer-in-Charge shall make a claim under the performance Guarantee except for amounts to which the MD UPRNN is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract Agreement) in the event of:</p> <p>a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.</p> <p>b) Failure by the contractor to pay UPRNN any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.</p>
	iv.	<p>In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the Agreement, the performance Guarantee shall stand forfeited in full and shall be absolutely at the disposal of the MD UPRNN.</p>
	v.	<p>On substantial Completion of any work which has been completed to such an extent that the intended purpose of the work is met and ready to use, then a provisional Completion certificate shall be recorded by the Engineer-in-Charge. The provisional certificate shall have appended with a list of outstanding balance item of work that need to be completed in accordance with the provisions of the contract.</p> <p>This provisional completion certificate shall be recorded by the concerned Engineer-in-charge with the approval of General Manager, if required. After recording of the provisional Completion Certificate for the work by the competent authority, the 80 % of performance Guarantee shall be returned to the contractor, without any interest.</p> <p>However in case of contracts involving Maintenance of building and services /any other work after construction of same building and services/ other work, then 50% of performance Guarantee shall be returned to the contractor, without any interest after recording the provisional Completion certificate</p>
Clause 1 A		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Recovery of Security Deposit	<p>The person/persons whose tender(s) may be accepted (hereinafter called Security), the contractor shall permit UPRNN at the time of making any Deposit payment to him for work done under the contract to deduct a sum at the rate of 6% of the gross amount of each running and final bill till the sum deducted will amount to security deposit of 5% of the tendered value of the work. In case a fixed deposit receipt of any Bank is furnished by the contractor to the UPRNN as part of the security deposit and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.</p> <p>All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising there from, or from any sums which may be due to or may become due to the contractor by Government on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good (if deposited for more than 12 months) endorsed in favour of the Engineer-in-Charge, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof.</p> <p>The security deposit shall be collected from the running bills and the final bill of the contractor at the rates mentioned above.</p>
	<p>The security deposit as deducted above can be released against bank Guarantee issued by a SBI/ Nationalised bank/ Scheduled Commercial Bank, on its accumulations to a minimum of Rs. 5 lac subject to the condition that amount of such bank Guarantee, except last one, shall not be less than Rs. 5 lac. Provided further that the validity of bank Guarantee including the one given against the earnest money shall be in conformity with provisions contained in clause 17 which shall be extended from time to time depending upon extension of contract granted under provisions of clause 2 and clause 5.</p> <p>In case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned yearwise proportionately.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Clause 2		
Compensation for Delay		<p>If the contractor fails to maintain the required progress in terms of clause 5 or to complete the work and clear the site on or before the contract or justified extended date of completion as per clause 5 (excluding any extension under Clause 5.5) as well as any extension granted under clauses 12 and 15, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as compensation the amount calculated at the rates stipulated below as the authority specified in schedule 'F' may decide on the amount of accepted Tendered Value of the work for every completed day/month (as determined) that the progress remains below that specified in Clause 5 or that the work remains incomplete.</p>
		<p>(i) Compensation With maximum rate @ 1% (one for delay of percent) per month of delay to be work computed on per day basis based on quantum of damage suffered due to stated delay on the part of Contractor</p>
		<p>Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% (ten percent) of the accepted Tendered Value of work or of the accepted Tendered Value of the Sectional part of work as mentioned in Schedule 'F' for which a separate period of completion is originally given.</p> <p>In case no compensation has been decided by the authority in Schedule 'F' during the progress of work, this shall be a waiver of right to levy compensation by the said authority if the work remains incomplete on final justified extended date of completion. If the Engineer in Charge decides to give further extension of time allowing performance of work beyond the justified extended date, the contractor shall be liable to pay compensation for such</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>extended period. If any variation in amount of contract takes place during such extended period beyond justified extended date and the contractor becomes entitled to additional time under clause 12, the net period for such variation shall be accounted for while deciding the period for levy of compensation. However, during such further extended period beyond the justified extended period, if any delay occurs by events under sub clause 5.2, the contractor shall be liable to pay compensation for such delay.</p> <p>Provided that compensation during the progress of work before the justified extended date of completion for delay under this clause shall be for non-achievement of sectional completion or part handing over of work on stipulated/justified extended date for such part work or if delay affects any other works/services. This is without prejudice to right of action by the Engineer in Charge under clause 3 for delay in performance and claim of compensation under that clause.</p> <p>In case action under clause 2 has not been finalized and the work has been determined under clause 3, the right of action under this clause shall remain post determination of contract but levy of compensation shall be for days the progress is behind the schedule on date of determination, as assessed by the authority in Schedule F, after due consideration of justified extension. The compensation for delay, if not decided before the determination of contract, shall be decided after of determination of contract. The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the UPRNN. In case, the contractor does not achieve a particular mile stone mentioned in schedule F, or the re- scheduled milestone(s) in terms of Clause 5.4, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied as above. With-holding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.</p>
Clause 2		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



<p>When Contract can be Determined</p>	<p>Subject to other provisions contained in this clause, the Engineer- in-Charge may, without prejudice to any other rights or remedy against the contractor in respect of any delay, not following safety norms, inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:</p> <p>i. If the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workmanlike manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.</p>
	<p>ii. If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.</p> <p>iii. If the contractor fails to complete the work or section of work with individual date of completion on or before the stipulated or justified extended date, on or before such date of completion; and the Engineer in Charge without any prejudice to any other right or remedy under any other provision in the contract has given further reasonable time in a notice given in writing in that behalf as either mutually agreed or in absence of such mutual Agreement by his own assessment making such time essence of contract and in the opinion of Engineer-in-Charge the contractor will be unable to complete the same or does not complete the same within the period specified.</p> <p>iv. If the contractor persistently neglects to carry out his obligations under the contract and/ or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer- in-Charge.</p> <p>v. If the contractor shall offer or give or agree to give to any person in Government service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or for bearing to do or for having done or for borne to do any act in relation to the obtaining or execution of this or any other contract for Government.</p> <p>vi. If the contractor shall enter into a contract with UPRNN in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge.</p> <p>vii. If the contractor had secured the contract with UPRNN as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits breach of Integrity Agreement.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>viii. If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purports to do so, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.</p>
		<p>ix. If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a credit or shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.</p> <p>x. If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.</p> <p>xi. If the contractor assigns (excluding part(s) of work assigned to other agency(s) by the contractor as per terms of contract), transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer-in-Charge. When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-Charge on behalf of the MD UPRNN shall have powers:</p> <p>a) To determine the contract as aforesaid so far as performance of work by the Contractor is concerned (of which determination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, Security Deposit already recovered, Security deposit payable and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the UPRNN.</p> <p>b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work including any new items</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>needed to complete the work. In the event of above courses being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reasonsof his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer- in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value socertified.</p>									
Clause 3 A		<p>In case, the work can not be started due to reasons not within the control of the contractor within 1/8th of the stipulated time for completionofworkoronemonthwhicheverishigher,eitherparty may close the contract by giving notice to the other party stating the reasons. In such eventuality, the Performance Guarantee ofthe contractorshallberefundedwithinfollowingtimelimits:</p> <table><tr><td>i.</td><td>If the Tendered value of work is up to Rs. 1 Crore</td><td>15 days</td></tr><tr><td>ii.</td><td>If the Tendered value of work is more than Rs. 1 Crore and upto Rs.10 Crore</td><td>21 days</td></tr><tr><td>iii.</td><td>If the Tendered value of work exceeds Rs. 10 Crore</td><td>30 days</td></tr></table> <p>Neither party shall claim any compensation for such eventuality. This clauseis not applicable for any breach of the contract by either party.</p>	i.	If the Tendered value of work is up to Rs. 1 Crore	15 days	ii.	If the Tendered value of work is more than Rs. 1 Crore and upto Rs.10 Crore	21 days	iii.	If the Tendered value of work exceeds Rs. 10 Crore	30 days
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Clause 4		
Contractor liable to pay compensation even if action not taken under Clause 3		<p>In any case in which any of the powers conferred upon the Engineer-in-Charge by Clause-3 thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall not withstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work/or any part thereof, paying or allowing for the same in account at the contract rates, or, in the case of these not being applicable, at current market rates to be certified by the Engineer-in-Charge, whose certificate thereof shall be final, and binding on the contractor, clerk of the works, foreman or other authorized agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the contractor failing to comply with any such requisition, the Engineer-in-Charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-in-Charge as to the expenses of any such removal and the amount of the proceeds and expenses of any</p>
		such sale shall be final and conclusive against the contractor.
Clause 5		
Time and Extension for Delay		<p>The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the work shall commence from such time period as mentioned in schedule 'F' or from the date of handing over of the site, notified by the Engineer-in-Charge, whichever is later. If the Contractor commits default in commencing the execution of the works as aforesaid, the performance Guarantee shall be forfeited by the Engineer-in-Charge and shall be absolutely at the disposal of the Government without prejudice to any other right or remedy available in law.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



5.1	<p>i. As soon as possible but within 7 (seven) working days of award of work and in consideration of—</p> <p>a) Schedule of handing over of site as specified in the Schedule 'F'.</p> <p>b) Schedule of issue of designs as specified in the Schedule 'F'.</p> <p>The Contractor shall submit a Time and Progress Chart for each milestone. The Engineer-in-Charge may within 7 (seven) working days thereafter, if required, modify and communicate the program approved to the contractor failing which the program submitted by the contractor shall be deemed to be approved by the Engineer-in-Charge. The work programme shall include all details of balance drawings and decisions required to complete the contract with specific dates by which these details are required by contractor without causing any delay in execution of the work. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by Agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents.</p> <p>i. In case of non submission of construction programme by the contractor, the program approved by the Engineer-in-Charge shall be deemed to be final.</p> <p>ii. The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract.</p> <p>iii. The contractor shall submit the Time and Progress Chart and progress report using the mutually agreed software or in other format decided by Engineer-in-Charge for the work done during previous month to the Engineer-in-charge on or before 5th day of each month failing which a recovery</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		as per Schedule F to be decided by the NIT approving authority shall be made on per week or part basis in case of delay in submission of the monthly progress report.
5.2		<p>If the work(s) be delayed by:-</p> <ul style="list-style-type: none"> i. force majeure, or ii. abnormally bad weather, or iii. serious loss or damage by fire, or iv. civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or v. delay on the part of other contractors or tradesmen engaged by Engineer-in- Charge in executing work not forming part of the Contract, or vi. any other cause like above which, in the reasoned opinion of the Engineer-in-Charge is beyond the Contractor's control. <p>Then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in- Charge to proceed with the works.</p> <p>The contractor shall have no claim of damages for extension of time granted or rescheduling of milestone/s for events listed in sub clause 5.2 (Modified OMAUTHORITY/CON/305dt.19.02.2019)</p>
5.3		<p>In case the work is hindered by the Department or for any reason / event, for which the Department is responsible, the authority as indicated in Schedule 'F' shall, if justified, give a fair and reasonable extension of time and reschedule the mile stones for completion of work. Such extension of time or rescheduling of milestone/s shall be without prejudice to any other right or remedy of the parties in contract or in law; provided further that for concurrent delays under this sub clause and sub clause 5.2 to the extent the delay is covered under sub clause 5.2 the contractor shall be entitled to only extension of time and no damages.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



5.4		Request for rescheduling of Milestones or extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed forms i.e. Form of application by the contractor for seeking rescheduling of milestones or Form of application by the contractor for seeking extension of time (Appendix –XVI) respectively to the authority as indicated in Schedule 'F'. The Contractor shall indicate in such a request the period by which rescheduling of milestone/s or extension of time is desired. With every request for rescheduling of milestones, or if at any time the actual progress of work falls behind the approved
		programme by more than 10% of the stipulated period of completion of contract, the contractor shall produce a revised programme which shall include all details of pending drawings and decisions required to complete the contract and also the target dates by which these details should be available without causing any delay in execution of the work. A recovery as specified in Schedule 'F' shall be made on per day basis in case of delay in submission of the revised programme.
5.4.1		In any such case the authority as indicated in Schedule 'F' may give a fair and reasonable extension of time for completion of work or reschedule the milestones. Engineer -in-Charge shall finalize/ reschedule a particular milestone before taking an action against subsequent milestone. Such extension or rescheduling of the milestones shall be communicated to the contractor by the authority as indicated in Schedule 'F' in writing, within 21 days of the date of receipt of such request from the Contractor in prescribed form. In event of non application by the contractor for extension of time Engineer-in-Charge after affording opportunity to the contractor, may give, supported with a programme (as specified under 5.4 above), a fair and reasonable extension within a reasonable period of occurrence of the event.
5.5		In case the work is delayed by any reasons, in the opinion of the Engineer-in-Charge, by the contractor for reasons beyond the events mentioned in clause 5.2 or clause 5.3 or clause 5.4 and beyond the justified extended date; without prejudice to right to take action under Clause 3, the Engineer-in-Charge may grant extension of time required for completion of work without rescheduling of milestones. The contractor shall be liable for levy of compensation for delay for such extension of time.
Clause 6		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Computerized Measurement Book	<p>Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract.</p> <p>All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works performed under the contract.</p> <p>All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor from the Engineer-in-Charge or his authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorized representative. After the necessary corrections made by the Engineer-in-Charge, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission to the Engineer-in-Charge for the dated signatures by the Engineer-in-Charge and the contractor or their</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



	<p>representatives in token of their acceptance.</p> <p>Whenever bill is due for payment, the contractor would initially submit draft computerized measurement sheets and these measurements would be got checked/test checked from the Engineer-in-Charge and/or his authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to the department a computerized measurement book, duly bound, and with its pages machine numbered. The Engineer-in- Charge and/or his authorized representative would thereafter check this MB, and record the necessary certificates for their checks/test checks.</p> <p>The final, fair, computerized measurement book given by the contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or over-writing in the measurements would there after be allowed. If at all any error is noticed, the contractor shall have to submit a fresh computerized MB with its pages duly machine numbered and bound, after getting the earlier MB cancelled by the department. Thereafter, the MB shall be taken in the Unit Office records, and allotted a number as per the Register of Computerized MBs. This should be done before the corresponding bill is submitted to the Unit Office for payment. The contractor shall submit two spare copies of such computerized MB's for the purpose of reference and record by the various officers of the department.</p> <p>The contractor shall also submit to the department separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages machine numbered along with two spare copies of the "bill. Thereafter, this bill will be processed by the Unit Office and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements.</p> <p>The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Engineer-in-Charge or his representative. Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedures set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed. The contractor shall give not less than seven days' notice to the Engineer-in-Charge or his authorized representative in charge</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>of the work before covering up or otherwise placing beyond the reach of checking and/or test checking the measurement of any work in order that the same may be checked and/or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and/or test checking</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his authorized representative in charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and/or test checking measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowances shall be made for such work or the materials with which the same was executed.</p> <p>Engineer-in-Charge or his authorized representative may cause either them selves or through another officer of the department to check the measurements recorded by contractor and all provisions stipulated here in above shall be applicable to such checking of measurements or levels.</p> <p>It is also a term of this contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.</p>
Clause 7		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, विद्युत इकाई, हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, विद्युत इकाई, हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Payment of intermediate certificate to be regarded as Advances	<p>No payment shall be made for work, estimated to cost Rs. two lac two Lacor less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs two Lac the interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-in-Charge. The amount admissible shall be paid by 21st working day after the day of presentation of the bill by the Contractor to the Engineer-in-Charge or his Authorized Engineer together with the account of the material issued by the department, or dismantled</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, विद्युत इकाई, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, विद्युत इकाई, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>materials, if any.</p> <p>All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.</p> <p>Pending consideration of extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.</p> <p>The Engineer-in-Charge in his sole discretion on the basis of a certificate from the Assistant Engineer to the effect that the work has been completed up to the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) up to lintel level (including sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bill(s) to be submitted by the contractor within 28 days of the interim payment. In case of delay in submission of bill by the contractor a simple interest @ 10% per annum shall be paid to the UPRNN from the date of expiry of prescribed time limit which will be compounded on yearly basis.</p>
Payments in composite contracts		<p>In case of composite tenders, running payment for the major components shall be made by PM of major discipline to the main contractor. Running payment for minor component shall be made by the Engineer-in-Charge of the discipline of minor component directly to the main contractor.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विभाग



Clause 7 A		No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, what ever applicable are submitted by the contractor to the Engineer-in-Charge.
Clause 7 B Payment to third party		<p>If the exigencies of the work so demand, the engineer-in-charge may allow payment to a third party, who is creditor to the contractor, after fulfilling the following conditions.</p> <p>a) The contractor gives an authority letter addressed to the engineer-in-charge on a non-judicial stamp paper of Rs.100 in the format givenbelow.</p> <p>I/We authorize the Project Manager, Unit (.....), UPRNN to pay directly on my/our behalf to (name of the third party) an amount of Rs (Rupees in words) for the work done or supplies made by (name of the third party). I/We shall be responsible for the quality and quantity of the same under the provisions of agreement number</p> <p style="text-align: right;">Signature of the contractor</p> <p>b) The total payment to third party (or parties) shall not exceed 10% of the agreement cost of the work.</p> <p>c) Full reasons for proposing such third party payment shall be recorded and prior written approval of the next higher authority shall be obtained before making such payment.</p>
Clause 8		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Completion Certificate and Completion Plans	<p>Withintendaysofthecompletionofthework,thecontractorshall givenoticeofsuchcompletiontotheEngineer-in-Chargeandwith in thirty days of the receipt of such notice, theEngineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts andsanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of thebuilding,in,upon,oraboutwhichtheworkistobeexecutedor of which he may have had possession for the purpose of the execution; there of, and not until the work shall have been measured by the Engineer-in-Charge. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding,surplusmaterialsandrubbishandallhutsandsanitary arrangements as aforesaid and cleaning off dirt on or before the datefixedforthecompletionofwork,theEngineer-in-Chargemay</p>
	<p>at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials asaforesaid exceptforanysumactuallyrealizedbythesalethereof.</p>
Clause 8 A	
Completion Plans to be submitted by the Contractor	<p>The contractor shall submit completion plans for Internal and External Civil, Electrical and Mechanical Services within thirty days of the completion ofthe work, provided that the service plans having been issued for execution by the Engineer-in-Charge, unless the contractor, by virtue of any other provision in the contract, is required to prepare such plans in case, the contractor fails to submit the completion plan as aforesaid, he shall be liable to pay a sum of 0.1 % (zero point one percent) of accepted Tendered Value or limit prescribed in Schedule F whichever is more as may be fixed by the authority as mentioned in Schedule F and in this respect the decision of the that authority shall be final and binding on the contractor.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Clause 9		
Payment of Final Bill		<p>The final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-Charge, will, as far as possible be made within the period specified herein under, the period being reckoned from the date of receipt of the bill by the Engineer-in-Charge or his authorized Asstt. Engineer, complete with account of materials issued by the Department and dismantled materials.</p> <p>a) If the Tendered value of work is up to 10 Crore: 6 months</p> <p>b) If the Tendered value of work exceeds Rs. 10 Crore: 9 months</p>
Clause 9 A		
Payment of Contractor's Bills to Banks		<p>Payments due to the contractor may, if so desired by him, be made to his bank, registered financial, co-operative or thrift societies or recognized financial institutions instead of direct to him provided that the contractor furnishes to the Engineer-in-Charge (1) an authorization in the form of a legally valid document such as a power of attorney conferring authority on the bank; registered financial, co-operative or thrift societies or recognized financial institutions to receive payments and (2) his own acceptance of the correctness of the amount made out as being due to him by UPRNN or his signature on the bill or other claim preferred against UPRNN before settlement by the Engineer-in-Charge of the account or claim by payment to the bank, registered financial, co-operative or thrift societies or recognized financial institutions. While the receipt given by such banks; registered financial, co-operative or thrift societies or recognized financial institutions shall constitute a full and sufficient discharge for the payment, the contractor shall whenever possible present his bills duly receipted and discharged through his bank, registered financial, cooperative or thrift societies or recognized financial institutions.</p> <p>Nothing herein contained shall operate to create in favour of the bank; registered financial, co-operative or thrift societies or recognized financial institutions any rights or equities vis-a-vis the MD UPRNN.</p>
Clause 10 A		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



<p>Materials to be provided by the Contractor</p>	<p>The contractor shall, at his own expense, provide all materials, required for the works other than those which are stipulated to be supplied by the UPRNN.</p> <p>The contractor shall, at his own expense and without delay; supply to the Engineer-in-Charge samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the Engineer-in-Charge furnish proof, to the satisfaction of the Engineer-in-Charge that the materials so comply. The Engineer-in-Charge shall within thirty days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Engineer-in-Charge for his approval, fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-Charge shall be issued after the test results are received.</p> <p>The Contractor shall at his risk and cost submit the samples of materials to be tested or analyzed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-Charge. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials.</p> <p>The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer-in-Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in-</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>Charge or his authorized representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance in obtaining the right to such access.</p> <p>The Engineer-in-Charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-Charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in-Charge shall also have full power to require other proper material to be substituted there of and in case of default, the Engineer-in-Charge may cause the same to be supplied and all costs which may attend such removal and substitution shall be borne by the Contractor.</p> <p>The contractor shall at his own expense, provide a material testing lab at the site for conducting routine field tests. The lab shall be equipped at least with the testing equipment as specified in schedule F.</p>
Clasue 10 B		
Secured Advance on Materials	(i)	<p>The contractor, on signing an indenture in the form to be specified by the Engineer-in-Charge, shall be entitled to be paid during the progress of the execution of the work up to 75% of the assessed value of any materials or an amount not exceeding 75% of the material element cost in the tendered rate of the finished item of the work, whichever is lower, which are in the opinion of the Engineer-in-Charge non-perishable, non-fragile and non-combustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this sub-clause are incorporated in the work, the amount of such advance shall be recovered/deducted from the next payment made under any of the clause or clauses of this contract.</p> <p>Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer-in-Charge provided the contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Engineer-in-Charge shall be final and binding on the contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel etc.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Mobilization Advance	(ii)	Mobilization advance not exceeding 10% of the tendered value may be given, if requested by the contractor in writing within one month of the order to commence the work. Such advance shall be
		in two or more installments to be determined by the Engineer-in-Charge at his sole discretion. The first installment of such advance shall be released by the Engineer-in-Charge to the contractor on a request made by the contractor to the Engineer-in-Charge in this behalf. The second and subsequent installments shall be released by the Engineer-in-Charge only after the contractor furnishes a proof of the satisfactory utilization of the earlier installment to the entire satisfaction of the Engineer-in-Charge.
		Before any installment of advance is released, the contractor shall execute a Bank Guarantee Bonds not more than 6 in number from SBI/ Nationalised bank/ Scheduled Commercial Bank for the amount equal to 110% of the amount of advance and valid for the period till recovery of advance. This (Bank Guarantee from Scheduled Bank for the amount equal to 110% of the balance amount of advance) shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery.
Interest & Recovery	(iii)	The mobilization advance in (ii) above bear simple interest at the rate of 10 percent per annum and shall be calculated from the date of payment to the date of recovery, both days inclusive, on the outstanding amount of advance. Recovery of such sums advanced shall be made by the deduction from the contractors bills commencing after first ten percent of the gross value of the work is executed and paid, on pro-rata percentage basis to the gross value of the work billed beyond 10% in such a way that the entire advance is recovered by the time eighty percent of the gross value of the contract is executed and paid, together with interest due on the entire outstanding amount up to the date of recovery of the installment.
	(iv)	If the circumstances are reconsidered reasonable by the Engineer-in-Charge, the period mentioned in (ii) and (iii) for request by the contractor in writing for grant of mobilization advance may be extended at the discretion of the Engineer-in-Charge.
Clause 10 C		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Payment on Account of Increase in Prices/ Wages due to Statutory Order(s)	<p>If after submission of tender, if the price of any material incorporate in the work (excluding the material covered under clause 10 CA and/ or wages of labour increases as a direct result of the coming into force of any fresh, law or statutory rule or order (but not due to any variation of rate in GST applicable on such material(s) being considered under this clause) beyond the prices/wages prevailing at the time of the last stipulated date of receipt of tenders including extensions, if any, for the work during contract period including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, then the amount of the contract shall accordingly be varied.</p> <p>If after submission of the tender, the price of any material incorporated in the works (excluding the materials covered under Clause 10CA and/or wages of labour as prevailing at the time of last stipulated date of receipt of tender including extensions, if</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>any, is decreased as a direct result of the coming into force of any fresh law or statutory rules or order (but not due to any changes of rate in GST, sales tax/VAT, Central/State Excise/Custom Duty), Government shall in respect of materials incorporated in the works (excluding the materials covered under Clause 10CA and/or labour engaged on the execution of the work after the date of coming into force of such law statutory rule or order be entitled to deduct from the dues of the contractor, such amount as shall be equivalent to the difference between the prices of the materials and/or wages as prevailed at the time of the last stipulated date for receipt of tenders including extensions if any for the work and the prices of material and/or wages of labour on the coming into force of such law, statutory rule or order. This will be applicable for the contract period including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2.</p> <p>Engineer-in-Charge shall call books of account and other relevant documents from the contractor to satisfy himself about reasonability of increase in prices of materials and wages.</p> <p>The contractor shall, within a reasonable time of his becoming aware of any alteration in the price of any such materials and/or wages of labour, give notice thereof to the Engineer-in-Charge stating that the same is given pursuant to this condition together with all information relating thereto which he may be in position to supply.</p> <p>For this purpose, the labour component of 85% of the value of the work executed during period under consideration shall not exceed the percentage as specified in Schedule F, and the increase/decrease in labour shall be considered on the minimum daily wages in Rupees of any unskilled Mazdoor, fixed under any law statutory rule and order. The cost of work for which escalation is applicable (W) is same as cost of work done worked out as indicated in sub-para (ii) of clause 10C except the amount of full assessed value of secured Advance.</p>
Clause 10 CA		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



<p>Payment due to variation in prices of materials after receipt of tender</p>	<p>If after submission of the tender, the price of materials specified in Schedule F increases/ decreases beyond the base price(s) as indicated in Schedule F for the work, then the amount of the contract shall accordingly be varied and provided further that any such variations shall be effected for stipulated period of Contract including the justified period extended under the provisions of Clause 5 of the Contract without any action under Clause 2.</p> <p>However for work done/during the justified period extended as above, it will be limited to indices prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on pro-rata basis only as cost of extra work x stipulated period/tendered cost). If updated stipulated date of completion as calculated on pro-rata basis does not cover full calendar month then indices will be considered</p>
	<p>or restricted to previous month.</p> <p>The increase/decrease in prices of cement, steel reinforcement, structural steel and POL shall be determined by the Price indices issued by the relevant Ministry of GOI. For other items provided in the Schedule 'F', this shall be determined by the All India Whole sale Price Indices of materials as published by Economic Advisor to GOI, Ministry of Commerce and Industry. Base price for cement, steel reinforcement, structural steel and POL shall be as issued by the relevant Ministry of GOI. In case, price index of a particular material is not issued by Ministry of Commerce and Industry, then the price index of nearest similar material as indicated in Schedule 'F' shall be followed.</p> <p>The amount of the contract shall accordingly be varied for all such material and will be worked out as per the formula given below for individual material:-</p> <p>Adjustment for component of individual material</p> $V = P \times Q \times \frac{CI - CI_0}{CI_0}$ <p>where,</p> <p>V = Variation in material cost i.e. increase or decrease in the amount of Rupees to be paid or recovered.</p> <p>P = Base Price of material as issued by relevant Ministry of GOI. For Projects and Original Works</p> <p>Q = Quantity of material brought at site for bonafide use in the work since previous bill excluding any such quantity consumed in</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>the deviated quantity of items beyond deviation limit and extra /substituted item, paid/to be paid at rates derived on the basis of market rate under clause 12.2.</p> <p>Clo = Price index for cement, steel reinforcement bars structural steel and POL as issued by relevant Ministry of GOI the and corresponding to the time of base price of respective material indicated in Schedule 'F'. For other items, if any, provided in Schedule 'F', All India Wholesale Price Index for the material as published by the Economic Advisor to GOI, Ministry of Industry and Commerce and corresponding to the time of base price of respective material indicated in Schedule 'F'.</p> <p>CI = Price index for cement, steel reinforcement bars, structural steel and POL as issued by relevant Ministry of GOI for period under consideration. For other items, if any, provided in Schedule 'F', All India Wholesale Price Index for the material for period under consideration as published by Economic Advisor to GOVERNMENT OF UTTAR PRADESH, Ministry of Industry and Commerce, CPWD.</p>
		<p>Note: (i) In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the index prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on pro-rata basis only as cost of extra work x stipulated period/ tendered cost) shall be considered. Provided always that provisions of the preceding Clause 10 C shall not be applicable in respect of Materials covered in this Clause. If updated stipulated date of completion as calculated on pro- rata basis does not cover full calendar month then indices will be considered or restricted to previous month.</p> <p>(ii) If during progress of work or at the time of completion of work, it is noticed that any material brought at site is in excess of requirement, then amount of escalation if paid earlier on such excess quantity of material shall be recovered on the basis of cost indices as applied at the time of payment of escalation or as prevailing at the time of effecting recovery, whichever is higher.</p> <p>(iii) Cement mentioned wherever in this clause includes Cement component used in RMC brought at site from outside approved RMC plants, if any.</p> <p>(iv) The date wise record of ready mix concrete shall be kept in a register and the cement consumption for the same shall be calculated accordingly.</p> <p>(v) If built-up steel items are brought at site from workshop, then the variation shall be paid for the structural steel up to the period when the built up item/finished product is brought at site.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Clause 10 CC		
Payment due to increase/ decrease in prices/ages (excluding materials covered under clause 10 CA) after receipt of tender for works		<p>If the prices of materials (not being materials supplied or services rendered at fixed prices by the department in accordance with clause 10 & 34 thereof) and/or wages of labour required for execution of the work increase, the contractor shall be compensated for such increase as per provisions detailed below and the amount of the contract shall accordingly be varied, subject to the condition that such compensation for escalation in prices and wages shall be available only for the work done during the stipulated period of the contract including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2. No such compensation shall be payable for work for which the stipulated period of completion is equal to or less than the time as specified in Schedule F. Such compensation for escalation in the prices of materials and labour, when due, shall be worked out based on the following provisions:-</p> <p>i. The base date for working out such escalation shall be the last stipulated date of receipt of tenders including extension, if any.</p> <p>ii. The cost of work on which escalation will be payable shall be</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>reckoned as below :</p> <ol style="list-style-type: none"> Gross value of work done up to this quarter :(A) Gross value of work done up to the last quarter :(B) Gross value of work done since previous quarter (A-B):(C) Full assessed value of Secured Advance (excluding materials Covered under Clause 10 CA) fresh paid in this quarter :(D) Full assessed value of Secured Advance (excluding materials Covered under Clause 10 CA) recovered in this quarter :(E) Full assessed value of Secured Advance for which escalation Payable in this quarter (D-E):(F) Advance payment made during this quarter:(G) Advance payment recovered during this quarter:(H) Advance payment for which escalation is payable in this Quarter(G-H):(I) Extra items/deviated quantities of items paid as per Clause 12 Based on prevailing market rates during this quarter:(J) <p>Then, $M = C+F+I-J$ $N=0.85M$ Cost of work for which escalation is applicable:</p> <p style="text-align: center;">$W = N$</p> <p>Components for materials (except cement, reinforcement bars, structural steel, POL or other materials covered under clause 10 CA) labour, etc. shall be pre-determined for every work and incorporated in the conditions of contract attached to the tender papers included in Schedule 'F'. The decision of the Engineer-in-Charge in working out such percentage shall be binding on the contractors.</p> <p>iii. The compensation for escalation for other materials (excluding cement, reinforcement bars, structural steel, POL or other materials covered under clause 10 CA) shall be worked as per the formula given below:-</p> <p>Adjustment for civil component (except cement, structural steel, reinforcement bars, POL and other materials covered under clause 10CA) / electrical component of construction 'Materials'.</p> <p>$V_m = W \times X_{m \times MI} - MI_0$</p> <p>100 MI_0</p> <p>V_m = Variation in material cost i.e. increase or decrease in the</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>amount in Rupees to be paid or recovered.</p> <p>W =Cost of Work done worked out as indicated in sub-para (ii) of Clause10CC.</p> <p>Xm= Component of 'materials' (except cement, structural steel, reinforcementbarsPOLandothermaterialscoveredunder clause10CA) expressed as percent of the total value of work.</p> <p>MI= All India Wholesale Price Index for civil component/electrical component* of constructionmaterial as worked out on the basis of All India Wholesale Price Index for Individual Commodities/ Group Items for the period under consideration as published by Economic Advisor to Govt. of India, Ministry of Industry & Commerce and applying weightages to the Individual Commodities/Group Items. (In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the index prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on prorata basis only as cost of extra work x stipulated period/tendered cost, shall be considered.) If updated stipulated date of completion as calculated on pro- rata basis does not cover full calendar month then indices will be considered or restricted to previousmonth.</p> <p>Mlo= All India Wholesale Price Index for civil component/electrical component* of constructionmaterial as worked out on the basis of All India Wholesale Price Index for Individual Commodities/Group Items valid on the last stipulated date of receipt of tender including extension, if any, as published by the Economic Advisor to Govt. of India, Ministry of Industry & Commerce and applyingweightagestotheIndividualCommodities/Group items.</p> <p>*Note: relevant component only will be applicable.</p> <p>(iv) The following principles shall be followed while working out the indices mentioned in para (iv)above.</p> <p>a) The compensation for escalation shall be worked outat quarterly intervals and shall be with respect to the cost of work done as per bills paid during the three calendar months of the said quarter. The dates of preparation of bills as finally entered in the Measurement Book by theAssistant Engineer/ date of submission of bill finally by the contractor to the department in case of computerized measurement books shall be the guiding factor to decide the bills relevant to the quarterly interval. The first such payment shall be made at the end of three months after the month (excluding the month in which tender wasaccepted) and thereafter at three months' interval. At the time of</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>completion of the work, the last period for payment might become less than 3 months, depending on the actual date of completion.</p> <p>b) The index (MI/FI etc.) relevant to any quarter/period for which such compensation is paid shall be the arithmetical average of the indices relevant to the three calendar months. If the period up to date of completion after the quarter covered by the last such installment of payment, is less than three months, the index MI and FI shall be the average of the indices for the months falling within that period.</p> <p>(v) The compensation for escalation for labour shall be worked out as per the formula given below:-</p> <p>Y LI-LIO</p> $VL = Wx \text{-----} \times \text{-----}$ <p>100 LIO</p> <p>VL : Variation in labour cost i.e. amount of increase or decrease in Rupees to be paid or recovered.</p> <p>W: Value of work done, worked out as indicated in sub-para (ii) above.</p> <p>Y : Component of labour expressed as a percentage of the total value of the work.</p> <p>LI : Minimum wage in Rupees of an unskilled adult male mazdoor, fixed under any law, statutory rule or order as applicable on the last date of the quarter previous to the one under consideration. (In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the minimum wage prevailing on the last date of quarter previous to the quarter pertaining to updated stipulated date of Completion considering the effect of extra work (extra time to be calculated on prorata basis only as cost of extra work x stipulated period/tendered cost, shall be considered.) If updated stipulated date of completion as calculated on pro- rata basis does not cover full calendar month then indices will be considered or restricted to previous month.</p> <p>LIO : Minimum daily wage in Rupees of an unskilled adult male mazdoor, fixed under any law, statutory rule or order as on the last stipulated date of receipt of tender including extension, if any.</p> <p>(vi) The following principles will be followed while working out the compensation as per sub para (vi) above.</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>a) The minimum wage of an unskilled Mazdoor mentioned in sub-para (vi) above shall be the higher of the wagenotified by Labour Commissioner, GOVERNMENT OF UTTAR PRADESH, and that notified by the local administration both relevant to the place of work and the period of reckoning.</p> <p>b) The escalation for labour also shall be paid at the same quarterly intervals when escalation due to increase in cost of materials is paid under this clause. If such revision of minimum wages takes place during any such quarterly intervals, the escalation compensation shall be payable at revised rates only for work done in subsequentquarters;</p> <p>c) Irrespective of variations in minimum wages of any category of labour, for the purpose of this clause, the variation in the rate for an unskilled Mazdoor alone shall form the basis for working out the escalationcompensation payable on thelabourcomponent.</p> <p>(vii) In the event the price of materials and/or wages of labour required for execution of the work decrease/s, there shall beadownwardadjustmentofthecostofworksothatsuch price of materials and/or wages of labour shall be deductiblefromthecost ofworkunderthiscontractandin this regard the formula herein before stated under this Clause10CCshallmutatistmutandisapply,providedthat:</p> <p>a) No such adjustment for the decrease in the price of materials and/or wages of labour afore mentioned would be made in case of contracts in which the stipulated period of completion of the work is equal to or less than the time as specified in Schedule'F'.</p> <p>b) The Engineer-in-Charge shall otherwise be entitled to lay down the procedure by which the provision of this sub-clause shall be implemented from time to time and the decision of the Engineer-in-Charge in this behalf shall be final and binding on thecontractor.</p> <p>(viii) Provided always that:-</p> <p>a) Where provisions of clause 10CC are applicable, provisions ofclause10Cwillnotbeapplicablebutprovisionsofclause 10CA will beapplicable.</p> <p>b) Where provisions of clause 10CC are not applicable, provisionsofclause10Cand10CAwillbecomeapplicable.</p> <p>Note:Updatedstipulateddateofcompletion(periodofcompletion plus extra time for extra work for compensation under</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>clause 10C, 10CA and 10CC.</p> <p>The factor of 1.25 taken into account for calculating the extra time under clause 12.1 for extra time shall not be considered while calculating the updated stipulated date of completion for this</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		purpose in clause 10C, clause10CA, and clause 10CC
Clause 10 D		
Dismantled material Govt. Property		Thecontractorshalltreatallmaterialsobtainedduringdismantling ofastructure,excavationofthesiteforawork,etc.asDepartment property and such materials shall be disposed off to the best advantage of Department according to the instructions in writing issued by theEngineer-in-Charge
Clause 11		
Work to be executed in accordance with specifications, drawings, orders etc.		<p>The contractor shall execute the whole and every part of the work in the most substantial and work man like manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the design,drawings and instructions in writingin respect of the work signed by the Engineer-in-Charge and the contractor shall be furnished free of charge one copy of the contractdocumentstogetherwithspecifications,designs,drawings and instructions as are not included in the standard specifications of UTTAR PRADESH PUBLIC WORKSDEPARTMENT specified in Schedule 'F' or in any Bureau of Indian Standard or any other, published standard or code or,Schedule of Rates or any other printed publication referred to elsewhere in the contract.</p> <p>Thecontractorshallcomplywiththeprovisionsofthecontractand with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract.The Contractor shall take full responsibility for adequacy,suitability and safety of all the works and methods ofconstruction.</p>
Clause 12		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Deviations/variations extent and pricing	The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.
12.1	<p>The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be Extended, if requested by the contractor, as follows:</p> <ul style="list-style-type: none"> i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus. ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge.
12.2 Deviation, extra items and pricing	<p>In the case of extra item(s) (item(s) that are completely new, and are in addition to the items contained in the contract), the contractor may within fifteen days of receipt of order or occurrence of the item(s) submit market rate claim rates, supported by proper analysis which shall include invoices, vouchers etc. and Manufacturer's specification for the work failing which the rate approved later by the Engineer-in-Charge shall be binding and the Engineer-in-Charge shall within prescribed time limit of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined, failing which it will be deemed to have been approved Deviation, Substituted Items.</p> <p>In the case of substituted items (item(s) that are taken up with partial substitution or in lieu of items of work in the contract), the rate for the Agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para.</p>

सुरेन्द्र मोहन
लेखाकार
0 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>(a) If the market rate for the substituted item so determined is more than the market rate of the Agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the Agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the Agreement item (to be substituted).</p> <p>(b) If the market rate for the substituted item so determined is less than the market rate of the Agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the Agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the Agreement item (to be substituted).</p>
Deviations, deviated quantities, pricing		<p>In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in schedule F, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-Charge shall within prescribed time limit of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates (as per invoice, vouchers from the manufacturers or suppliers submitted by the agency and duly verified by Engineer in Charge or his representative) and the contractor shall be paid in accordance with the rates so determined.</p> <p>The prescribed time limit for finalizing rates for Extra Item(s), Substitute Item(s) and Deviated Quantities of contract items is within 45 days after submission of proposal by the contractor without observation of the Engineer-in-Charge.</p>
12.3		<p>The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Schedule F, and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



12.4	<p>For the purpose of operation of Schedule "F", the following works shall be treated as works relating to foundation unless & otherwise defined in the contract:</p> <ol style="list-style-type: none"> For Buildings: All works up to 1.2 metres above ground level or up to floor 1 level whichever is lower. For abutments, piers and well staining : All works up to 1.2 m above the bed level. For retaining walls, wing walls, compound walls, chimneys, over head reservoirs/ tanks and other elevated structures : All works up to 1.2 metres above the ground level. For reservoirs/tanks (other than overhead reservoirs/tanks) : All works up to 1.2 metres above the ground level. For basement: All works up to 1.2 m above ground level or up to floor 1 level whichever is lower. For Roads, all items of excavation and filling including treatment of subbase.
12.5	<p>Any operation incidental to or necessarily has to be in contemplation of tenderer while quoting tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said schedule of rates, as the case may be. Nothing extra shall be admissible for such operations.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



<p>Clause 13</p> <p>Foreclosure of contract due to abandonment or reduction in scope of work</p>	<p>If at any time after acceptance of the tender or during the progress of work, the purpose or object for which the work is being done changes due to any supervening cause and as a result of which the work has to be abandoned or reduced in scope the Engineer-in-Charge shall give notice in writing to that effect to the contractor stating the decision as well as the cause for such decision and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.</p> <p>The contractor shall be paid at contract rates, full amount for works executed at site and, in addition, a reasonable amount as certified by the Engineer-in-Charge for the items here under mentioned which could not be utilized on the work to the full extent in view of the foreclosure;</p> <ol style="list-style-type: none"> Any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation and water storage tanks. UPRNN shall have the option to take over contractor's materials or any part thereof either brought to site or of which the contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work) provided, however UPRNN shall be bound to take over the materials or such portions thereof as the contractor does not desire to retain. For materials taken over or to be taken over by UPRNN, cost of such materials as detailed by Engineer-in-Charge shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor. Reasonable compensation for transfer of T & P from site to contractor's permanent stores or to his other works, whichever is less. If T & P are not transported to either of the said places, no cost of transportation shall be payable. Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary. <p>The contractor shall, if required by the Engineer-in-Charge,</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>furnish to him, books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition.</p> <p>Thereasonableamountofitemson(i),(iv)and(v)aboveshallnot beinexcessof2%ofthecostoftheworkremainingincompleteon the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the UPRNN as per item (ii)above. Provided always that against any payments due to the contractor on this account or otherwise, the Engineer-in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable bytheUPRNNfromthecontractorunderthetermsofthecontract.</p> <p>In the event of action being taken under Clause 13 to reduce the scope of work, the contractor may furnish fresh Performance Guarantee on the same conditions, in the same manner and at the same rate for the balance tendered amount and initially valid upto theextendeddate ofcompletionorstipulateddateofcompletionif no extension has been granted plusminimum 60 days beyond that. Wherever such a fresh Performance Guarantee is furnished by the contractor the Engineer-in-Charge may return the previous PerformanceGuarantee.</p>
Clause 14		
Carrying out part work at risk & cost of contractor		<p>If contractor:</p> <ol style="list-style-type: none"> At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 working days in this respect from the Engineer-in-Charge;or Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 working days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or Fails to complete the work (s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by theEngineer-in-Charge. The Engineer- in-Charge without invoking action under clause3 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to department, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to:

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or</p> <p>b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.</p> <p>The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by department because of action under this clause shall not exceed 10% of the tendered value of the work.</p> <p>In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than the amount payable to the contractor at his Agreement rates, the difference shall not be payable to the contractor.</p> <p>Any excess expenditure incurred or to be incurred by department in completing the part work / part incomplete work of any item(s) or</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>the Excess loss of damages suffered or may be suffered by department as aforesaid after allowing such credit shall without pre judice to any other right or remedy available to department in law or per as Agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.</p> <p>If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if there after there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract.</p> <p>In the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.</p>
Clause 15		
Suspension of work		<p>i. The contractor shall, on receipt of the order in writing of the Engineer-in-Charge, (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons:</p> <ul style="list-style-type: none"> a) on account of any default on the part of the contractor or; b) for proper execution of the works or part thereof for reasons other than the default of the contractor; or c) for safety of the works or part thereof. <p>The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer in- Charge.</p> <p>ii. If the suspension is ordered for reasons (b) and (c) in sub-para (i) above:</p> <ul style="list-style-type: none"> a) the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25%, for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and; b) If the total period of all such suspensions in respect of an item

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



सुरेन्द्र मोहन
लेखाकार
उपप्र० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उपप्र० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विधुत इकाई, लखनऊ

अनुराग यादव
अपर परिवोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विभाग

		<p>shall be made within twelve months (six months in the case of work costing Rs. 10 Lac and below except road work) of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of not withstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 2 of the contract (for non-completion of the work in time) for this default.</p> <p>In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the authority specified in schedule 'F' may consider reasonable during the preparation of an account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.</p>
Clause 17		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



<p>Contractor Liable for Damages, defects during defect liability period</p>	<p>If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road kerb, fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within twentyfour months (twelve months in the case of work costing Rs. Ten lacs and below) after a certificate final or otherwise of its completion shall have been given by the Engineer in- Charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sum that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the contractor shall not be refunded before the expiry of twenty-four months (twelve months in the case of work costing Rs. Ten lakhs and below) after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later. Provided that in the case of road work, if in the opinion of the Engineer-in-Charge, half of the security deposit is sufficient, to meet all liabilities of the contractor under this contract, half of the security deposit will be refundable after</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		twelve months and the remaining half after twenty four months of the issue of the said certificate of completion or till the final bill has been prepared and passed whichever is later.
Clause 18		
Contractor to supply Tools & Plants etc.		<p>The contractor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the contract be supplied from the Engineer-in-Charge's stores), machinery, tools & plants as specified in schedule F. In addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer-in-Charge at the expense of the contractor and the expenses may be deducted, from any money due to the contractor, under this contract or otherwise and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portion thereof.</p>
Clause 18 A		
Recovery of Compensation paid to workmen		<p>In every case in which by virtue of the provisions sub- section (1) of section 12 of the Workmen's Compensation Act. 1923, Government is obliged to pay compensation to a workman employed by the contractor, in execution of the works, Government will recover from the contractor, the amount of the compensation so paid: and, without prejudice to the rights of the Government under sub- section (2) of section 12, of the said Act, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise. department shall not be bound to contest any claim made against it under sub- section (1) of section 12, of the said Act, except on the written request of the contractor and upon his giving to department full security for all costs for which department might become liable in consequence of contesting such claim. If any rule & regulation of Government issued in this respect, the same shall prevail over.</p>
Clause 18 B		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



<p>Ensuring payment and amenities to workers if contractor fails</p>		<p>In every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and of the Contract Labour (Regulation and Abolition) Central Rules, 1971,</p>
		<p>UPRNN is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the rules under Clause 19H or under the Labour Regulations, or under the Rules framed by UPRNN from time to time for the protection of health and sanitary arrangements for workers employed by UPRNN Contractors, UPRNN will recover from the contractor, the amount of wages so paid or the amount of expenditure so incurred; and without prejudice to the rights of the UPRNN under sub-section (2) of Section 20, and sub-section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, UPRNN shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by UPRNN to the contractor whether under this contract or otherwise UPRNN shall not be bound to contest any claim made against it under sub-section (1) of Section 20, sub-section (4) of Section 21, of the said Act, except on the written request of the contractor and upon his giving to the UPRNN full security for all costs for which UPRNN might become liable in contesting such claim. If any rule & regulation of Government issued in this respect, the same shall prevail over.</p>
<p>Clause 19</p>		
<p>Labour Laws to be complied by the Contractor</p>		<p>The contractor shall obtain a valid license under the Contract Labour (R&A) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work, and continue to have a valid license until the completion of the work. The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.</p> <p>The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986. The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.</p> <p>Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work. If any rule & regulation of GoUP issued in this respect, the same shall prevail over.</p>

सुरेन्द्र मोहन
लेखाकार
०५२०२०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ०प्र०रा०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विधुत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विभाग



Clause 19 A		No labour below the age of fourteen years shall be employed on the work.
Clause 19 B		
Payment of Wages		<p>Payment of wages:</p> <p>(i) The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.</p> <p>(ii) The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work, as if the labour had been immediately employed by him.</p> <p>(iii) In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with the Labour Regulations made by Government from time to time in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorizedly made, maintenance of wage books or wage slips publication of scale of wage and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable</p> <p>(iv) (a) The Engineer-in-Charge concerned shall have the right to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.</p> <p>(b) Under the provision of Minimum Wages (Central) Rules, 1950, the contractor is bound to allow to the labours directly or indirectly employed in the works one day rest for 6 days continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-in-Charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-Charge concerned.</p> <p>(v) The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and
		the rules made there under from time to time.
		<p>(vi) The contractor shall indemnify and keep indemnified Government against payments to be made under and for the observance of the laws aforesaid and the UPRNN Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub-contractors.</p> <p>(vii) The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.</p> <p>(viii) Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.</p> <p>(ix) The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.</p> <p>(x) If any rule & regulation of GoUP issued in this respect, the same shall prevail over.</p>
Clause 19 C		In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty as decided by the authority mentioned in Schedule F for each default and in addition, the Engineer-in-Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Clause 19 D	<p>The contractor shall submit by the 4th and 19th of every month, to the Engineer-in-Charge, a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively:-</p> <ol style="list-style-type: none"> (1) the number of labourers employed by him on the work, (2) their working hours, (3) the wages paid to them, (4) the accidents that occurred during the said for night showing the circumstances under which they happened and the extent of damage and injury caused by them, and (5) the number of female workers who have been allowed maternity benefit according to Clause 19F and the amount paid to them. <p>Failing which the contractor shall be liable to pay to Government, a sum as decided by the authority mentioned in Schedule F for each default or materially incorrect statement. The decision of the Engineer-in-Charge shall be final in deducting from any bill due to the contractor, the amount levied as fine and be binding on the contractor.</p>
Clause 19 E	<p>In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with all the rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by the UPRNN and its contractors.</p>
Clause 19 F	<p>Leave and pay during leave shall be regulated as follows:-</p> <ol style="list-style-type: none"> 1. Leave: <ol style="list-style-type: none"> (i) in the case of delivery - maternity leave not exceeding 8 weeks, 4 weeks up to and including the day of delivery and 4 weeks following that day, (ii) in the case of miscarriage - upto 3 weeks from the date of miscarriage. 2. Pay: <ol style="list-style-type: none"> (i) in the case of delivery - leave pay during maternity leave will be at the rate of the women's average daily earnings, calculated on total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of Rupee one only a day whichever is greater.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>(ii) in the case of miscarriage - leave pay at the rate of average daily earning calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date of such miscarriage.</p> <p>3. Conditions for the grant of MaternityLeave:</p> <p>Nomaternityleavebenefitshallbeadmissible toawoman unless she has been employed for a total period of notless than six months immediately preceding the date on which she proceeds onleave.</p> <p>4. The contractor shall maintain a register of Maternity (Benefit) in thePrescribed Form as shown in Appendix -I andII,andthesameshallbekeptattheplaceofwork.</p>
Clause 19 G		<p>In the event of the contractor(s) committing a default or breach of any of the provisions of the Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filing any statement under the provisionsoftheaboveRegulationsand’Ruleswhichismaterially incorrect, he/they shall, without prejudice to any other liability, pay to the Government a sum as decided by the authority mentioned in Schedule F for every default, breach or furnishing, making,submitting,filingsuchmateriallyincorrectstatementsand in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to as decided by the authority mentioned in Schedule F per day for each day of default subject to a maximum of 5 percent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on theparties.</p> <p>Should it appear to the Engineer-in-Charge that the contractor(s) is/arenotproperlyobservingandcomplyingwiththeprovisionsof the Labour Regulations and Model Rules and the provisions ofthe Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (R& A) Central Rules 1971, for the protection of healthandsanitaryarrangementsforwork-peopleemployedbythe contractor(s) (hereinafter referred as “the said Rules”) the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said Rules be complied with and the amenities prescribed therein be provided to the work-peoplewithinareasonabletimetobespecifiedinthenotice.Ifthe contractor(s) shall fail within the period specified in the notice to comply with and/observe the said Rules and to provide the amenitiestothe work-peopleasaforesaid,theEngineer-in-Charge shall have the power to provide the amenities herein before mentioned at the cost of the contractor(s). The contractor(s) shall erect,makeandmaintainthis/theirownexpenseandtoapproved standardsallnecessaryhutsandsanitaryarrangementsrequiredfor</p>

सुरेन्द्र मोहन
लेखाकार
उ०प्र०रा०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ०प्र०रा०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विधुत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट रोड, दिल्ली



		his/their work-people on the site in connection with the execution of the works, and if the same shall not have been erected or constructed, according to approved standards, the Engineer-in-
		Charge shall have power to give notice in writing to the contractor(s) requiring that the said huts and sanitary arrangements be remodelled and/or reconstructed according to approved standards, and if the contractor(s) shall fail to remodel or reconstruct such huts and sanitary arrangements according to approved standards within the period specified in the notice, the Engineer-in-Charge shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standards at the cost of the contractor(s).

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



<p>Clause 19 H</p>	<p>The contractor(s) shall at his/their own cost provide his/their labour with a sufficient number of huts (hereinafter referred to as the camp) of the following specifications on a suitable plot of land to be approved by the Engineer-in-Charge.</p> <p>(i)</p> <p>(a) The minimum height of each hut at the eaves level shall be 2.10m (7 ft.) and the floor area to be provided will be at the rate of 2.7 sq.m. (30 sq.ft.) for each member of the worker's family staying with the labourer.</p> <p>(b) The contractor(s) shall in addition construct suitable cooking places having a minimum area of 1.80m x 1.50m (6'x5') adjacent to the hut for each family.</p> <p>(c) The contractor(s) shall also construct temporary latrines and urinals for the use of the labourer each on the scale of not less than four per each one hundred of the total strength, separate latrines and urinals being provided for women.</p> <p>(d) The contractor(s) shall construct sufficient number of bathing and washing places, one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened.</p> <p>(ii)</p> <p>(a) All the huts shall have walls of sun-dried or burnt-bricks laid in mud mortar or other suitable local materials as may be approved by the Engineer-in-Charge. In case of sun-dried bricks, the walls should be plastered with mud gobri on both sides. The floor may be kutcha but plastered with mud gobri and shall be at least 15 cm (6") above the surrounding ground. The roofs shall be laid with thatch or any other materials as may be approved by the Engineer-in-Charge and the contractor shall ensure that throughout the period of their occupation, the roofs remain water-tight.</p> <p>(b) The contractor(s) shall provide each hut with proper ventilation.</p> <p>(c) All doors, windows, and ventilators shall be provided with</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>suitable leaves for security purposes.</p> <p>(d) There shall be kept an open space of at least 7.2m (8 yards) between the rows of huts which may be reduced to 6m (20 ft.) according to the availability of site with the approval of the Engineer-in-Charge. Back to back construction will be allowed.</p> <p>(iii) Water Supply - The contractor(s) shall provide adequate supply of water for the use of labourers. The provisions shall not be less than two gallons of pure and wholesome water per head per day for drinking purposes and three gallons of clean water per head per day for bathing and washing purposes. Where piped water supply is available, supply shall be at stand posts and where the supply is from wells or river, tanks which may be of metal or masonry, shall be provided. The contractor(s) shall also at his/their own cost make arrangements for laying pipe lines for water supply to his/their labour camp from the existing mains wherever available, and shall pay all fees and charges therefore.</p> <p>(iv) The site selected for the camp shall be high ground, removed from jungle.</p> <p>(v) Disposal of Excreta - The contractor(s) shall make necessary arrangements for the disposal of excreta from the latrines by trenching or incineration which shall be according to the requirements laid down by the Local Health Authorities. If trenching or incineration is not allowed, the contractor(s) shall make arrangements for the removal of the excreta through the Municipal Committee/authority and inform it about the number of labourers employed so that arrangements may be made by such Committee/authority for the removal of the excreta. All charges on this account shall be borne by the contractor and paid direct by him to the Municipality/authority. The contractor shall provide one sweeper for every eight seats in case of dry system.</p> <p>(vi) Drainage - The contractor(s) shall provide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy.</p> <p>(vii) The contractor(s) shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers.</p> <p>(viii) Sanitation - The contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities.</p>
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सुरेन्द्र मोहन
लेखाकार
उ०प्र०रा०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ०प्र०रा०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विधुत इकाई, लखनऊ

अनुसूचित जाति
अपर परिवर्धन प्रयोजन (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हार्दिकोट लि०



Clause 19 I	<p>The Engineer-in-Charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors' employ upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirements. In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual houses, the contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour. AE/JE will display a list of contractors working in the colony/Blocks on the notice board in the colony and also at the service centre, to apprise the residents about the same.</p>
Clause 19 J	<p>It shall be the responsibility of the contractor to see that the building under construction is not occupied by anybody unauthorized during construction, and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy upto 5% of tendered value of work may be imposed by the General Manager whose decisions shall be final both with regard to the justification and quantum and be binding on the contractor.</p> <p>However, the General Manager, through a notice, may require the contractor to remove the illegal occupation any time on or before construction and delivery.</p>
Clause 19 K	

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Employment of skilled/semi skilled workers	<p>The contractor shall, at all stages of work, deploy skilled/semi skilled tradesmen who are qualified and possess certificate in particular trade from reputed Training Institute/Industrial Training Institute/ National Institute of construction Management and Research (NICMAR)/ National Academy of Construction, CIDCorany similar reputed and recognized Institutemanaged/ certifiedbyState/CentralGovernment. Thenumberofsuchqualified tradesmen shall not be less than 20% of total skilled/semiskilled workersrequiredineachtradeatanystageofwork. Thecontractor shallsubmitnumberofmandaysrequiredinrespectofeachtrade, its scheduling and the list of qualified tradesmen along with requisite certificatefromrecognizedInstitutetoEngineerin charge for approval. Not with standing such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer-in-Charge. Failure on the part of contractor to obtain approval ofEngineer-in- Charge or failure to deploy qualified tradesmen will attract acompensation to be paid by contractor at therate specified in schedule 'F'per such tradesman per day. Decision of Engineer in Charge as to whether particular tradesman possessesrequisite Skillandamountofcompensationincaseofdefaultshallbefinal</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>and binding.</p> <p>Provided always, that the provisions of this clause, shall not be applicable for works with estimated cost put to tender being less than Rs. 5 crores. For work costing more than Rs. 10 Crores, and upto Rs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 20% of the unskilled workers engaged in the project in co-ordination with the UPRNN, Reputed Training Institute as per approval of UPRNN & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi skilled tradesmen.</p> <p>For work costing more than Rs. 50 Crores, the contractor shall arrange onsite training as per National Skill Development Corporation (NSDC) norms for at least 30% of the unskilled worker engaged in the project in co-ordination with the UPRNN, Reputed Training as per approval of UPRNN & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi skilled tradesmen. The cost of such training as stated above shall be born by the Contractor. The necessary space and workers shall be provided by the contractor and no claim what so ever shall be entertained.</p>
Clause 19 L		
Contribution of EPF and ESI		<p>The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis. The verification of deployment of labour will be done through biometric attendance system or any other suitable method by the Engineer in Charge. The applicable and eligible amount of EPF & ESI shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order.</p>
Clause 20		
Minimum Wages Act to be complied with		<p>The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, any other rules & regulations of state Government. Amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Clause 21		
Work not to be sublet. Action in case of in solveny		The contract shall not be assigned or sublet without the written approval of the Engineer-in-Charge. And if the contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employ of Government in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer-in-Charge on behalf of the MD UPRNN shall have power to adopt the course specified in Clause 3 here of in the interest of UPRNN and in the event of such course being adopted, the consequences specified in the said Clause 3 shall ensure.
Clause 22		All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of Government without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.
Clause 23		
Changes in firm's constitution to be intimated		Where the contractor is a partnership firm, the previous approval in writing of the Engineer-in-Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern, such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership Agreement where under the partnership firm would have the right to carry out the work hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause 21 here of and the same action may be taken, and the same consequences shall ensue as provided in the said Clause 21.
Clause 24		
Life cycle cost		The contractor shall be responsible for safety, quality and soundness of the buildings including structural elements beyond maintenance period. The contractor shall have obligation to rectify such defects minimum up to 5 (five) years from the date of completion of work. The defects have to be rectified within a reasonable time not exceeding three months after issue of notice by Engineer-in-Charge.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



<p>Clause 25</p> <p>Settlement of Disputes & Arbitration</p>	<p>Except where otherwise provided in the contract, all questions and dispute relating to the meaning of the specifications, design, drawings and instructions here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:</p> <p>(i) If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawings, record or decision given in writing by the Engineer-in-Charge or if the Engineer-in-Charge considers any act or decision of the contractor on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable and is disputed, such party shall promptly within 15 days of the arising of the disputes request the General Manager (Zone), who shall refer the disputes to Dispute Redressal Committee (DRC) within 15 days along with a list of disputes with amounts claimed if any in respect of each such dispute. The Dispute Redressal Committee (DRC) give its decision within a period of 60 days extendable by 30 days by consent of both the parties from the receipt of reference from MD UPRNN. The constitution of Dispute Redressal Committee (DRC) shall be as indicated in Schedule 'F'. Provided that no party shall be represented before the Dispute Redressal Committee by an advocate/legal counsel etc.</p> <p>The DRC will submit its decision to the concerned Chief Engineer for acceptance. MD UPRNN in a time limit of 30 days from receipt of DRC decision will convey acceptance or otherwise on the said decision. If the Dispute Redressal Committee (DRC) fails to give its decision within the aforesaid period or the CE fails to give his decision in the aforesaid time limit or any party is dissatisfied with the decision of Dispute Redressal Committee (DRC) / GM then either party may within a period of 30 days from the receipt of the decision of Dispute Redressal Committee (DRC) / GM or on expiry of aforesaid the time limits available may give notice to the Chief Engineer for appointment of arbitrator on prescribed proforma as per Appendix XVII under intimation to the other party.</p> <p>It is a term of contract that each party invoking arbitration must exhaust the aforesaid mechanism of</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विभाग



		settlement of
		<p>claims/disputes prior to invoking arbitration.</p> <p>The GM shall in such case appoint the sole arbitrator or one of the three arbitrators as the case may be within 30 days of receipt of such a request and refer such dispute to arbitration. Wherever the Arbitral Tribunal consists of three Arbitrators, the contractor shall appoint one arbitrator within 30 days of making request for arbitration or of receipt of request by Engineer-in-charge to CE for appointment of arbitrator, as the case may be, and two appointed arbitrators shall appoint the third arbitrator who shall act as the Presiding Arbitrator. In the event of</p> <p>a) A party fails to appoint the second Arbitrator, or</p> <p>b) The two appointed Arbitrators fail to appoint the Presiding Arbitrator, then the Engineer-in-Chief (Incharge Building works) shall appoint the second or Presiding Arbitrator as the case may be.</p> <p>(ii) Dispute or difference shall be referred for adjudication through arbitration by a Tribunal having sole arbitrator where claimed amount is Rs. 20 Crore or less. Where claimed Value is more than Rs. 20 Crore, Tribunal shall consist of three Arbitrators as above. The requirements of the Arbitration and Conciliation Act, 1996 (26 of 1996) and any further statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall be applicable.</p> <p>It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed, if any, in respect of each such dispute along with the notice for appointment of arbitrator and giving reference to the decision of the MD UPRNN on the finding / recommendation of DRC.</p> <p>It is also a term of this contract that any member of the Arbitration Tribunal shall be a Graduate Engineer with experience in handling public works Engineering contracts, and further he shall have earlier worked at a level not lower than Chief Engineer/ equivalent (i.e. Joint Secretary level of GOVERNMENT OF UTTAR PRADESH). This shall be treated as a mandatory qualification to be appointed as arbitrator.</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>Parties, before or at the time of appointment of Arbitral Tribunal may agree in writing for fast track arbitration as per the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015.</p> <p>Subject to provision in the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015 whereby the counter claims if any can be directly filed before the arbitrator without any requirement of reference by the appointing authority. The arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claims by any party exceeds Rs. 1,00,000/- , the arbitrator shall give reasons for the award.</p> <p>It is also a term of the contract that fees payable to arbitral tribunal shall be as per existing state Government rules. This fee shall be shared equally by parties.</p> <p>The place of arbitration shall be as mentioned in Schedule F. In case there is no mention of place of arbitration, the arbitral tribunal shall determine the place of arbitration.</p> <p>The venue of the arbitration shall be such place as may be fixed by the Arbitral Tribunal in consultation with both the parties. Failing any such Agreement, then the Arbitral Tribunal shall decide the venue.</p>
Clause 26		<p>The contractor shall fully indemnify and keep indemnified the MD UPRNN against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against Government in respect of any such matters as aforesaid, the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the MD UPRNN if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf.</p>
Clause 27		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Lumpsum provisions in tender		When the estimate on which a tender is made includes lump sum in respect of parts of the work, the contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates as are payable under this contract for such items, or if the part of the work in question is not, in the opinion of the Engineer-in-Charge payable of measurement, the Engineer-in-Charge may at his discretion pay the lump-sum amount entered in the estimate, and the certificate in writing of the Engineer-in-Charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provisions of the clause.
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Clause 28		
Action where no specifications are specified		In the case of any class of work for which there is no such specifications as referred to in Clause 11, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications. In case there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per manufacturers' specifications, if not available then as per state/ District Specifications. In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge.
Clause 29		
Withholding and lien in respect of sum due from Contractor		<p>(i) Whenever any claim or claims for payment of a sum of money arises out of or under the contract or against the contractor, the Engineer-in-Charge or the UPRNN shall be entitled to withhold and also have alien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Engineer-in-Charge or the UPRNN shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have alien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the UPRNN shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in-Charge of the UPRNN or any contracting person through the Engineer-in-Charge pending finalization of adjudication of any such claim.</p> <p>It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien</p>

सुरेन्द्र मोहन
लेखाकार
० प्र० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
० प्र० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>referred to above by the Engineer-in-Charge or UPRNN will be kept withheld or retained as such by the Engineer-in-Charge or UPRNN till the claim arising out of or under the contract is determined by the arbitrator (if the contract is governed by the arbitration clause) by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-Charge or the UPRNN shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.</p>
		<p>(ii) UPRNN shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over-payment and it shall be lawful for UPRNN to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such underpayments shall be duly paid by UPRNN to the contractor, without any interest thereon whatsoever.</p> <p>Provided that the UPRNN shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the General Manager or project manager on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the General Manager or the project manager.</p>
Clause 29 A		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Lien in respect of claims in other Contracts		Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or the UPRNN or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or UPRNN or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Engineer-in-Charge or the UPRNN or with such other person or persons. It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Engineer-in-Charge or the UPRNN will be kept withheld or retained as such by the Engineer-in-Charge or the UPRNN or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.
Clause 29 B		
Employment of coal mining or controlled area labour not permissible		The contractor shall not employ Controlled Area labour which may be declared area by or with approval of the Central/State Government.
Clause 30		
Unfiltered water supply		<p>The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions.</p> <p>(i) That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.</p> <p>(ii) The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor(s) if the arrangements made by the contractor(s) for procurement of water are in the opinion of the Engineer-in-Charge, unsatisfactory.</p>
Clause 30 A		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Alternate water arrangements		The contractor shall be allowed to construct temporary wells in Government land for taking water for construction purposes only after he has got permission of the Engineer-in- Charge in writing. No charges shall be recovered from the contractor on this account, but the contractor shall be required to provide necessary safety arrangements to avoid any accidents or damage to adjacent buildings, roads and service lines. He shall be responsible for any accidents or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.
Clause 31		
Hire of Plant & Machinery		The contractor shall arrange at his own expense all tools, plant, machinery and equipment (hereinafter referred to as T&P) required for execution of the work.
Clause 32		
Employment of Technical Staff and Employees		<p>Contractors Superintendence, Supervision, Technical Staff & Employees -</p> <p>(i) The contractor shall provide all necessary superintendence during execution of the work and all along there after as may be necessary for proper fulfilling of the obligations under the contract.</p> <p>The contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name(s), qualifications, experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in Schedule 'F'. Even if the contractor (or partner(s) in case of firm/ company) is himself /herself an Engineer, it is necessary on the part of the contractor to Employ principal technical representative / technical representative (s) as per stipulation in Schedule 'F'</p> <p>The Engineer-in-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such representative(s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative(s) according to the provisions of this clause. Decision of the tender accepting authority shall be final and binding on the</p>

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site before start of work.</p> <p>All the provisions applicable to the principal technical representative under the Clause will also be applicable to other technical representative(s). The principal technical representative and other technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required, to the Engineer-in-Charge and/or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same force as if these have been given to the contractor. The principal technical representative and other technical representative(s) shall be actually available at site fully during all stages of execution of work, during recording/checking/test checking of measurements of works and whenever so required by the Engineer-in-Charge and shall also note down instructions conveyed by the Engineer-in-Charge or his designated representative(s) in the site order book and shall affix his/their signature in token of noting down the instructions and in token of acceptance of measurements/checked measurements/ test checked measurements. The representative(s) shall not look after any other work. Substitutes, duly approved by Engineer-in-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative(s) by more than two days.</p> <p>If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (non refundable) shall be effected from the contractor as specified in Schedule 'F' and the decision of the Engineer-in-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Book shall be final and binding on the contractor. Further if the contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibilities satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative(s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineer employed by him) along with every on account bill final bill and shall produce evidence if at any time so required by the Engineer-in-Charge.</p> <p>(ii) The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work.</p> <p>The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work.</p> <p>The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in-Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in-Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.</p>
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Clause 33		
Levy/Taxes payable by Contractor		<p>(i) GST, Building and other Construction Workers Welfare Cessor anyother tax, levy or Cess in respect of input for or output by this contract shall be payable by the contractor and UPRNN shall not entertain any claim whatsoever in this respect except as provided under Clause 38 The contractor shall deposit royalty and obtain necessary permit for supply of the red bajri, stone, kankar, etc. from local authorities.</p> <p>If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the GOVERNMENT and does not any time become payable by the contractor to the State Government, Local authorities in respect of any material used by the contractor in the works, then in such a case, it shall be a lawful due to the GOVERNMENT and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from dues of the contractor.</p>
Clause 34		
Conditions for reimbursement of levy/taxes if levied after receipt of tenders		<p>(i) All tendered rates shall be inclusive of any tax, except GST which shall be payable extra as per GO. No. 1956/23-10-2019-12 General/2017 TC-2 dated 10-12-2019, levy or cess applicable on last stipulated date of receipt of tender including extension if any. No adjustment i.e. increase or decrease shall be made for any variation in the rate of GST, Building and Other Construction Workers Welfare Cess or any tax, levy or cess applicable on inputs.</p> <p>However, effect of variation in rates of GST or Building and Other Construction Workers Welfare Cess or imposition or repeal of any other tax, levy or cess applicable on output of the works contract shall be adjusted on either side, increase or decrease.</p> <p>Provided further that for Building and Other Construction Workers Welfare Cess or any tax (other than GST), levy or cess varied or imposed after the last date of receipt of tender including extension if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of taxes/levies/cess.</p> <p>Provided further that such increase including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension of time under Clause 5 in Schedule F.</p> <p>(ii) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the Government and/or the Engineer-in-Charge and shall also furnish such other information/document as the Engineer-in-Charge may require from time to time.</p> <p>(iii) The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess, or variation or repeal of such tax or levy or cess give a written notice thereof to the Engineer-in-</p>

सुरेन्द्र मोहन
लेखाकार

उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा

सहायक अभियन्ता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली

स्थानिक अभियन्ता (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)

उ० प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ



		charge that the same is given pursuant to this condition, together with all necessary information relating thereto.
Clause 35		
Termination of Contract on death of contractor		Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Engineer-in-Charge on behalf of the MD UPRNN shall have the option of terminating the contract without levy of compensation to the contractor.
Clause 36		
If relative working in UPRNN/UPPWD then the contractor not allowed to tender		<p>The contractor shall not be permitted to tender for works in the UPRNN zone responsible for award and execution of contracts in which his near relative is posted as Accountant or as an officer in any capacity between the grades of the General Manager and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted Officer in the UPRNN/UPPWD. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department. If however the contractor is registered in any other department, he shall be debarred from tendering in UPRNN for any breach of this condition.</p> <p>NOTE: By the term “near relatives” is meant wife, husband, parents and grandparents, children and grand children, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.</p>
Clause 37		
No Gazetted Engineer to work as Contractor within one year of Retirement		No Engineer of gazetted rank or other gazetted officer employed in Engineering or administrative duties in an Engineering department of the GOVERNMENT OF UTTAR PRADESH shall work as a contractor or employee of a contractor for a period of one year after his retirement from government service without the previous permission of GOVERNMENT OF UTTAR PRADESH in writing. This contract is liable to be cancelled if either the contractor or any of his Employees is found at any time to be such a person who had not obtained the permission of GOVERNMENT OF UTTAR PRADESH as aforesaid, before submission of the tender or engagement in the contractor's service, as the case may be.
Clause 38		
Theoretical conception of Material		(i) After completion of the work and also at any intermediate stage in the event of Non reconciliation of materials issued theoretical quantity of materials used in the work shall be calculated on the basis and method given hereunder:-

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



		<p>(a) Quantity of cement & bitumen shall be calculated on the basis of quantity of cement & bitumen required for different items of work as shown in the Schedule of</p>
		<p>Rates mentioned in Schedule 'F'. In case any item is executed for which standard constants for the consumption of cement or bitumen are not available in the above mentioned schedule/statement or cannot be derived from the same shall be calculated on the basis of standard formula to be laid down by the Engineer- in-Charge.</p> <p>(b) Theoretical quantity of steel reinforcement or structural steel sections shall be taken as the quantity required as per design or as authorized by Engineer-in-Charge, including authorized lappages, chairs etc. plus 3% wastage due to cutting into pieces, such theoretical quantity being determined and compared with the actual issues each diameter wise, section wise and category wise separately.</p> <p>(c) Theoretical quantity of G.I. & C.I. or other pipes, conduits, wires and cables, pig lead and G.I./M.S. sheets shall be taken as quantity actually required and measured plus 5% for wastage due to cutting into pieces (except in the case of G.I./M.S. sheets it shall be 10%), such determination & comparison being made diameter wise & category wise.</p> <p>(d) For any other material as per actual requirements.</p> <p>Over the theoretical quantities of materials so computed a variation shall be allowed as specified in Schedule 'F' For non-scheduled items, the decision of the General Manager regarding theoretical quantities of materials which should have been actually used, shall be final and binding on the contractor.</p> <p>(ii) The said action under this clause is without prejudice to the right of the Government to take action against the contractor under any other conditions of contract for not doing the work according to the prescribed specifications.</p>
Clause 39		

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Compensation during warlike situations	The contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the General Manager may, in his discretion, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

SPECIAL CONDITIONS

1. SPECIAL CONDITIONS FOR CEMENT:

- 1.1. The contractor shall procure 43 grade Ordinary Portland Cement (OPC) conforming to IS:8112/Portland Pozzolana Cement (PPC) conforming to IS: 1489 (Part-I) as required in the work, from reputed manufacturers of cement as mentioned in the list of approved make of materials.
- 1.2. The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially.
- 1.3. Supply of cement shall be made in 50 kg. bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in- Charge and got tested in accordance with provisions of the relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not confirm to the relevant BIS code the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-charge to do so.
- 1.4. The cement shall be brought at site in bulk supply of approximately **50 tonnes** or as decided by the Engineer-in-Charge.
- 1.5. The cement godown of the capacity to store a minimum of **50 tonnes** of cement shall be constructed by the contractor at site of work for which no extra payment shall be made.
- 1.6. Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at anytime.
- 1.7. The cement shall be got tested by the Engineer-in-Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to test laboratories.
- 1.8. The cost of tests shall be borne by the contractor/department in the manner indicated below:
 - i. By the contractor, if the results show that the cement does not conform to relevant UPRNN Specifications / BIS code or specification mentioned elsewhere in the documents.
 - ii. By the department, if the results show that the cement conforms to relevant UPRNN Specifications / BIS code or specification mentioned elsewhere in the documents.
- 1.9. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation,

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



recovery at the rate show prescribed shall be made. In case of excess consumption, no adjustment need to made.

- 1.10. The cement brought to site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-Charge.
- 1.11. The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-Charge. If he does not show within three days of receipt of such notice, the Engineer-in-Charge shall get it removed at the cost of the contractor.
- 1.12. Cement bags shall be stored in separate godowns to be constructed by the contractor at his own cost as per sketch (which is only indicative and actual size will depend on the site requirements) given in UPRNN specifications with weather proof roofs and walls. Each godown shall be provided with a single shutter door with two locks. The key of one lock shall remain with Engineer-in-charge or his authorized representative and that of the other lock with the authorized agent of the contractor at the site of work so that the cement is issued from the godown according to the daily requirements with the knowledge of both parties and proper account for the same is maintained in the standard proforma.
- 1.13. Separate cement registers showing the receipt of the OPC and PPC shall be maintained at site. The contractor shall construct separate godowns for storage of OPC & PPC at site and nothing extra on this account shall be payable.
- 1.14. In order to have an effective control over the issue of cement, the following drill should be observed:
 - i. The cement godown(s) should be properly and effectively double locked, keys of one of the locks remaining with the department and that of the other with the contractor.
 - ii. The pages of the Cement Register should be as per Appendix-28 of PWD Works Manual, machine numbered etc as required.
 - iii. Periodical checking of cement godown.: The cement godown and the Cement Register should be checked by the Assistant Engineer/Project Manager in-charge of the work as per following schedule:
 - a) At least weekly or fortnightly, respectively, in case of works at the headquarters of the Assistant Engineer/Project Manager.
 - b) Whenever they visit the site of work in case of works that are located outside the Sub-Divisional/Divisional head quarters.

2. SPECIAL CONDITIONS FOR STEEL REINFORCEMENT BARS:

- 2.1. Only ISI marked TMT bars of various grades shall be procured from the Steel manufacturer as per the list of approved make. For approval of other makes following guidelines may be followed.

The General Manager, UPRNN Head Quarter shall approve the steel manufacturers subject to the guidelines for eligibility criteria and other technical parameters given below :

- i. Credentials for eligibility criteria and other technical parameters for steel manufacturers :
The manufacturer should meet the following eligibility criteria :-

- a) The steel manufacturers should have following documentary evidence:

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विमान मार्ग, लखनऊ



- i. Certificate of incorporation.
 - ii. Memorandum of articles of Association.
 - iii. Credit rating of the company from CARE/CRISIL/ICRA(the grading should not be C/D grade for minimum last 3 years.)
- b) The Steel manufacturer must have following licenses and certificates:
- i. ISI certificate for billets (IS 2830:2012)
 - ii. ISI certificate for TMT Bars (IS 1786:2008)
- c) The Steel manufacturer should also preferably have the following licenses:
- i. ISO 9001:2015
 - ii. ISO 14001:2015
 - iii. OHSAS 18001:2007
- d) The steel manufacturer should be using iron ore as the basic raw material. The entire gamut of iron and steel production is owned by the same company or its subsidiary company (ies) and the iron making capacity is sufficiently matching the steel making capacity, adopting any of the refining technologies for manufacturing steel & TMT Bars as given under are eligible :
- (i) BF-BOF route
 - (ii) COREX-BOF Route
 - (iii) DRI-EAF Route (Each Electric Arc Furnace should be 100 MT or more).
- e) Billets produced must be ISI marked (IS 2830:2012)
- f) The TMT bars produced must be ISI marked (IS 1786-2008)
- g) The steel manufacturer should have the following in house testing facilities (NABL Accredited):
- i) Computerized Universal Testing Machine.
 - ii) Spectrometer.
 - iii) Bend Re-bend facility as per IS : 1786:2008 (Amendment-1 November 2012)
 - iv) Raw material laboratory: Arrangement for testing Carbon, Sulphur & Phosphorous etc.
- v) Other testing facilities as specified in IS:1786:2008& IS:2830:2012.
- 2.2. The Contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
- 2.3. Samples shall also be taken and got tested by the Engineer-in Charge as per the provision in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the Contractor does not conform to the specifications, the same shall stand rejected and it shall be removed from the site of

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



work by the Contractor at his cost within a week time of written orders from the Engineer-in-Charge do so .

- 2.4. The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more or as decided by the Engineer-in-Charge.
- 2.5. The steel reinforcement bars shall be stored by the contractor at site of work in such away as to prevent distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 2.6. For checking nominal mass, tensile strength, bend test, re-bend test etc.specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below. :

Size of bar	For consignment below 100 tonnes	For consignment over 100 tonnes
Under 10 mm dia	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof.
10 mm to 16 mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 Tonnes or part thereof.
Over 16 mm dia bars	One sample for each 45 tonnes or part thereof.	One sample for each 50Tonnes or part thereof.

- 2.7. The Contractor shall supply free of charge the steel required for testing including transportation to testing laboratories. The cost of tests shall be borne by the Contractor.
- 2.8. The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations leading to under designing of the structure, the work shall be summarily rejected, otherwise recovery at the rate so prescribed shall be made after ensuring structural soundness and stability. In case of excess consumption no adjustment need to be made.
- 2.9. The Steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 2.10. For the purpose of payment, the actual weight of reinforcement steel shall be worked out as below:
 - a. To arrive at unit weight for the purpose of payment three random samples each of 1meter length shall be collected for each diameter of re-bar from every consignment received at site. Actual weight of three specimens for each diameter shall be taken and average weight calculated and recorded. The average weight so arrived at shall be compared with the theoretical weight of that particular diameter of rebar. Actual or theoretical weight whichever is less shall be

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



considered for making payment for that consignment. However final payment shall be made on the basis of weighted average of all the consignment. The decision of the Engineer-in-charge as regards the random samples and average weight shall be final and binding on the contractor and no claim of any kind shall be entertained in this regard.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

SAFETY CODE

1. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not stEEper than $\frac{1}{4}$ to 1($\frac{1}{4}$ horizontal and 1 vertical.)
2. Scaffolding of staging more than 3.6 m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends there of with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.
4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm. (3ft.)
5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11½") for ladder upto and including 3 m. (10 ft.) in length. For longer ladders, this width should be increased at least $\frac{1}{4}$ " for each additional 30 cm. (1 foot) of length. Uniform step spacing of not more than 30 cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit; action or proceedings to any such person or which may, with the consent of the contractor, be paid to compensate any claim by any such person.
6. (a) Excavation and Trenching - All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30 m. (100 ft.) in length or fraction thereof, Ladder shall extend from bottom of the trench to at least 90 cm. (3ft.) above the surface of the ground. The side of the trenches which are 1.5 m. (5ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m. (5ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.

(b) Safety Measures for digging bore holes:-

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- (i). If the bore well is successful, it should be safely capped to avoid caving and collapse of the bore well. The failed and the abandoned ones should be completely refilled to avoid caving and collapse;
 - (ii). During drilling, Sign boards should be erected near the site with the address of the drilling contractor and the Engineer in-charge of the work;
 - (iii). Suitable fencing should be erected around the well during the drilling and after the installation of the rig on the point of drilling, flags shall be put 50m around the point of drilling to avoid entry of people;
 - (iv). After drilling the borewell, a cement platform (0.50m x 0.50m x 1.20m) 0.60m above ground level and 0.60m below ground level should be constructed around the well casing;
 - (v). After the completion of the borewell, the contractor should cap the bore well properly by welding steel plate, cover the bore well with the drilled wet soil and fix thorny shrubs over the soil. This should be done even while repairing the pump;
 - (vi). After the borewell is drilled the entire site should be brought to the ground level.
7. Demolition - Before any demolition work is commenced and also during the progress of the work,
- (i) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
 - (ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.
 - (iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
8. All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned:- The following safety equipment shall invariably be provided.
- (i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
 - (ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
 - (iii) Those engaged in welding works shall be provided with welder's protective eyeshields.
 - (iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
 - (v) When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated atleast for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विमान मार्ग, लखनऊ



be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measure are adhered to :-

- a) Entry for workers into the line shall not be allowed except under supervision of the JE or any other higher officer.
- b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.
- c) Before entry, presence of Toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.
- d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with Oxygen kit.
- e) Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.
- f) The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
- g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.
- h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.
- i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge shall decide the time up to which a worker may be allowed to work continuously inside the manhole.
- j) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.
- k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non sparking gas engines also could be used but they should be placed at least 2 metres away from the opening and on the leeward side protected from wind so that they

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



will not be a source of friction on any inflammable gas that might be present.

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The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.

- m) The workers shall be provided with Gumboots or non sparking shoes bump helmets and gloves non sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.
- n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
- o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
- p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.

(vi) The Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precaution should be taken:-

- a) No paint containing lead or lead products shall be used except in the form of paste or ready made paint.
- b) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.
- c) Overalls shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.

(vii) Workmen executing work on scaffolds or other structures above specified height shall be provided with full body harness and fall arresters.

9. An additional clause (viii)(i) of UTTAR PRADESH PUBLIC WORKS DEPARTMENT Safety Code (iv) the Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use :

- (i) White lead, sulphate of lead or product containing these pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.
- (ii) Measures shall be taken, wherever required in order to prevent danger arising from the application of a paint in the form of spray.
- (iii) Measures shall be taken, wherever practicable, to prevent danger arising out of from dust caused by dry rubbing down and scraping.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विमान इकाई, लखनऊ



- (iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
- (v) Overall shall be worn by working painters during the whole of working period.
- (vi) Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled¹³ by painting materials.
- (vii) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by any Government hospital.
- (viii) UPRNN may require, when necessary medical examination of workers.
- (ix) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.

10. When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.

11. Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following standards or conditions :-

- (i) (a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order.
- (b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
- (ii) Every crane driver or hoisting appliance operator, shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.
- (iii) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
- (iv) In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-in-Charge. As regards contractor's machines the contractors shall notify the safe working load of the machine to the Engineer-in-Charge whenever he brings any machinery to site of work and get it verified by the Electrical Engineer concerned.

12. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

13. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
14. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.
15. To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer or Engineer-in-Charge of the department or their representatives.
16. Notwithstanding the above clauses from (1) to (15), there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Model Rules for the Protection of Health and Sanitary Arrangements for Workers Employed by UPRNN or its Contractors

1. APPLICATION

These rules shall apply to all buildings and construction works in charge of UPPWD/UPRNN in which twenty or more workers are ordinarily employed or are proposed to be employed in any day during the period during which the contract work is in progress.

2. DEFINITION

Work place means a place where twenty or more workers are ordinarily employed in connection with construction work on any day during the period during which the contract work is in progress.

3. FIRST-AID FACILITIES

- (i) At every work place, there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.
- (ii) The first-aid box shall be distinctly marked with a red cross on white back ground and shall contain the following equipment:-

- (a) For work places in which the number of contract labour employed does not exceed 50-

Each first-aid box shall contain the following equipments :-

1. 6 small sterilised dressings.
2. 3 medium size sterilised dressings.
3. 3 large size sterilised dressings.
4. 3 large sterilised burn dressings.
5. 1 (30 ml.) bottle containing a two per cent alcoholic solution of iodine.
6. 1 (30 ml.) bottle containing salvolatile having the dose and mode of administration indicated on the label.
7. 1 snakebite lancet.
8. 1 (30 gms.) bottle of potassium permanganate crystals.
9. 1 pair scissors.
10. 1 copy of the first-aid leaflet issued by the Director General, Factory Advice Service and Labour Institutes, GOVERNMENT OF UTTAR PRADESH.
11. 1 bottle containing 100 tablets (each of 5 gms.) of aspirin.
12. Ointment for burns.
13. A bottle of suitable surgical antiseptic solution.

- (b) For work places in which the number of contract labour exceed 50.

Each first-aid box shall contain the following equipments.

- 12 small sterilised dressings.
- 6 medium size sterilised dressings.
- 6 large size sterilised dressings.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

6 large size sterilised burn dressings.

6 (15 gms.) packets sterilised cotton wool.

1 (60 ml.) bottle containing a two per cent alcoholic solution iodine.

1 (60 ml.) bottle containing salvolatile having the dose and mode of administration indicated on the label.

1 roll of adhesive plaster.

1 snake bite lancet.

1 (30 gms.) bottle of potassium permanganate crystals.

1 pair scissors.

1 copy of the first-aid leaflet issued by the Director General Factory Advice Service and Labour Institutes /GOVERNMENT OF UTTAR PRADESH.

A bottle containing 100 tablets (each of 5 gms.) of aspirin.

Ointment for burns.

A bottle of suitable surgical antiseptic solution.

- (iii) Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.
- (iv) Nothing except the prescribed contents shall be kept in the First-aid box.
- (v) The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.
- (vi) A person in charge of the First-aid box shall be a person trained in First-aid treatment in the work places where the number of contractlabour employed is 150 or more.
- (vii) In work places where the number of contractlabour employed is 500 or more and hospital facilities are not available within easy distance from the works. First-aid posts shall be established and run by a trained compounder. The compounder shall be on duty and shall be available at all hours when the workers are at work.
- (viii) Where work places are situated in places which are not towns or cities, a suitable motor transport shall be kept readily available to carry injured person or person suddenly taken ill to the nearest hospital.

8. DRINKING WATER

In every work place, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.

Where drinking water is obtained from an Intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.

Every water supply or storage shall be at a distance of not less than 50 feet from any latrine drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and waterproof.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- (iv) A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

5. WASHING FACILITIES

- (i) In every work place adequate and suitable facilities for washing shall be provided and maintained for the use of contract labour employed therein.
- (ii) Separate and adequate cleaning facilities shall be provided for the use of male and female workers.
- (iii) Such facilities shall be conveniently accessible and shall be kept in clean and hygienic condition.

6. LATRINES AND URINALS

- (i) Latrines shall be provided in every work place on the following scale namely :-
- a) Where female are employed, there shall be at least one latrine for every 25 females.
- b) Where males are employed, there shall be at least one latrine for every 25 males. Provided that, where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females as the case may be upto the first 100, and one for every 50 thereafter.
- (ii) Every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings.
- (iii) Construction of latrines: The inside walls shall be constructed of masonry or some suitable heat-resisting nonabsorbent materials and shall be cement washed inside and outside at least once a year, Latrines shall not be of a standard lower than borehole system.
- (iv) (a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers "For Men only" or "For Women Only" as the case may be.
- (b) The notice shall also bear the figure of a man or of a woman, as the case may be.
- (v) There shall be at least one urinal for male workers upto 50 and one for female workers upto fifty employed at a time, provided that where the number of male or female workmen, as the case may be exceeds 500, it shall be sufficient if there is one urinal for every 50 males or females upto the first 500 and one for every 100 or part thereafter.
- (vi) (a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.
- (b) Latrines and urinals other than those connected with a flush sewage system shall comply with the requirements of the Public Health Authorities.
- (vii) Water shall be provided by means of tap or otherwise so as to be conveniently accessible in or near the latrines and urinals.
- (viii) Disposal of excreta :- Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta by incineration at the work place shall

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



be made by means of a suitable incinerator. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15 cm. layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn to manure).

- (ix) The contractor shall at his own expense, carry out all instructions issued to him by the Engineer-in-Charge to effect proper disposal of night soil and other conservancy work in respect of the contractor's workmen or Employees on the site. The contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment Authority for execution of such on his behalf.

7. PROVISION OF SHELTER DURING REST

At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 metres (10 ft.) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sq.m. (6 sft) per head.

Provided that the Engineer-in-Charge may permit subject to his satisfaction, a portion of the building under construction or other alternative accommodation to be used for the purpose.

8. CRECHES

- (i) At every work place, at which 20 or more women worker are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and the other as their bedroom. The rooms shall be constructed with specifications as per clause 19H (ii) a,b& c.
- (ii) The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.
- (iii) The contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the bed room.
- (iv) The contractor shall provide one ayaa to look after the children in the creche when the number of women workers does not exceed 50 and two when the number of women workers exceed 50.
- (v) The use of the rooms earmarked as creches shall be restricted to children, their attendants and mothers of the children.

9. CANTEENS

- (i) In every work place where the work regarding the employment of contract labour is likely to continue for six months and where in contract labour numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the contractor for the use of such contract labour.
- (ii) The canteen shall be maintained by the contractor in an efficient manner.
- (iii) The canteen shall consist of at least a dining hall, kitchen, storeroom, pantry and washing places separately for workers and utensils.
- (iv) The canteen shall be sufficiently lighted at all times when any person has access to it.
- (v) The floor shall be made of smooth and impervious materials and inside walls shall be lime-washed or colour washed at least once in each year.

Provided that the inside walls of the kitchen shall be lime-washed every four months.

- (vi) The premises of the canteen shall be maintained in a clean and sanitary condition.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विमान इकाई, लखनऊ



- (vii) Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause a nuisance.
- (viii) Suitable arrangements shall be made for the collection and disposal of garbage.
- (ix) The dining hall shall accommodate at a time 30 per cent of the contract labour working at a time.
- (x) The floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less than one square metre (10 sqft) per diner to be accommodated as prescribed in sub-Rule 9.
- (xi) (a) A portion of the dining hall and service counter shall be partitioned off and reserved for women workers in proportion to their number.
- (b) Washing places for women shall be separate and screened to secure privacy.
- (xii) Sufficient tables stools, chair or benches shall be available for the number of diners to be accommodated as prescribed in sub-Rule 9.
- (xiii) (a) 1. There shall be provided and maintained sufficient utensils crockery, furniture and any other equipments necessary for the efficient running of the canteen.
2. The furniture utensils and other equipment shall be maintained in a clean and hygienic condition.
- (b) 1. Suitable clean clothes for the Employees serving in the canteen shall be provided and maintained.
2. A service counter, if provided, shall have top of smooth and impervious material.
3. Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipments.
- (xiv) The food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the contract labour.
- (xv) The charges for food stuffs, beverages and any other items served in the canteen shall be based on 'No profit, No loss' and shall be conspicuously displayed in the canteen.
- (xvi) In arriving at the price of foodstuffs, and other article served in the canteen, the following items shall not be taken into consideration as expenditure namely:-
- a) The rent of land and building.
- b) The depreciation and maintenance charges for the building and equipments provided for the canteen.
- c) The cost of purchase, repairs and replacement of equipments including furniture, crockery, cutlery and utensils.
- d) The water charges and other charges incurred for lighting and ventilation.
- e) The interest and amounts spent on the provision and maintenance of equipments provided for the canteen.
- (xvii) The accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors.

10. ANTI-MALARIAL PRECAUTIONS

The contractor shall at his own expense, conform to all anti-malarial instructions given to him by the Engineer-in-Charge including the filling up of any borrow pits which may have been dug by him.

11. The above rules shall be incorporated in the contracts and in notices inviting tenders and shall form an integral part of the contracts.
12. The contractor has to make all the necessary arrangements for safety of workers and supervisory staff and Engineers from COVID-19 as prescribed by the Government of

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विमान इकाई, लखनऊ



India from time to time. Arrangement for daily thermal screening, regular weekly (or as prescribed by Engineer-in-charge) medical check-up by doctors etc. have to be made at site. The contractor has to ensure that SOP for construction site issued by CPWD or any other Government agency shall have to be followed at site. In case of lockdown, full pay to workers/Engineers etc. along with arrangement for their stay, fooding, etc. has to be arranged by the contractor itself.

NOTE: Nothing extra shall be paid to the contractor on above accounts and any other expenditure to be borne on account of COVID-19 pandemic and the quoted rates shall be deemed to be inclusive of the above provisions.

13. AMENDMENTS

Government may, from time to time, add to or amend these rules and issue directions - it may consider necessary for the purpose of removing any difficulty which may arise in the administration thereof.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Contractor's Labour Regulations

1. SHORTTITLE

These regulations may be called the UPRNN/UPPWD Contractors Labour Regulations.

2. DEFINITIONS

- i. Workman means any person employed by UPRNN or its contractor directly or indirectly through a subcontractor with or without the knowledge of the UTTAR PRADESH PUBLIC WORKS DEPARTMENT to do any skilled, semiskilled or unskilled manual, supervisory, technical or clerical work for hire or reward, whether the terms of employment are expressed or implied but does not include any person :-

- a) Who is employed mainly in a managerial or administrative capacity :or
b) Who, being employed in a supervisory capacity draws wages exceeding five hundred Rupees per mensem or exercises either by the nature of the duties attached to the office or by reason of powers vested in him, functions mainly of managerial nature: or
c) Who is an out worker, that is to say, person to whom any article or materials are given out by or on behalf of the principal employers to be made up cleaned, washed, altered, ornamental finished, repaired adopted or otherwise processed for sale for the purpose of the trade or business of the principal employers and the process is to be carried out either in the home of the out worker or in some other premises, not being premises under the control and management of the principal employer.

Nopersonbelowtheageof14yearsshallbeemployedtoactasaworkman.

- ii. Fair Wages means wages whether for time or piece work fixed and notified under the provisions of the Minimum Wages Act from time to time.
iii. Contractors shall include every person who undertakes to produce a given result other than a mere supply of goods or articles of manufacture through contract labour or who supplies contract labour for any work and includes a subcontractor.
iv. Wages shall have the same meaning as defined in the Payment of Wages Act.

3.

- i. Normally working hours of an adult employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.
ii. When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week, he shall be paid over time for the extra hours put in by him at double the ordinary rate of wages.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

- iii. a) Every worker shall be given a weekly holiday normally on a Sunday, in accordance with the provisions of the Minimum Wages (Central) Rules 1960 as amended from time to time irrespective of whether such worker is governed by the Minimum Wages Act or not.
- b) Where the minimum wages prescribed by the Government under the Minimum Wages Act are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages at the rate applicable to the next preceding day, provided he has worked under the same contractor for a continuous period of not less than 6 days.
- c) Where a contractor is permitted by the Engineer-in-Charge to allow a worker to work on a normal weekly holiday, he shall grant a substituted holiday to him for the whole day on one of the five days immediately before or after the normal weekly holiday and pay wages to such worker for the work performed on the normal weekly holiday at overtime rate.

4. DISPLAY OF NOTICE REGARDING WAGES ETC.

The contractor shall before he commences his work on contract, display and correctly maintain and continue to display and correctly maintain in a clear and legible condition in conspicuous places on the work, notices in English and in the local Indian languages spoken by the majority of the workers giving the minimum rates of wages fixed under Minimum Wages Act, the actual wages being paid, the hours of work for which such wage are earned, wages periods, dates of payments of wages and other relevant information as per Appendix 'III'.

5. PAYMENT OF WAGES

- i. The contractor shall fix wage periods in respect of which wages shall be payable.
- ii. No wage period shall exceed one month.
- iii. The wages of every person employed as contract labour in an establishment or by a contractor where less than one thousand such persons are employed shall be paid before the expiry of seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.
- iv. Where the employment of any worker is terminated by or on behalf of the contractor the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.
- v. All payment of wages shall be made on a working day at the work premises and during the working time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.
- vi. Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अला
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- vii. All wages shall be paid through Bank or ECS or onlinetransfer.
- viii. Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act1956.
- ix. A notice showing the wages period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Engineer-in-Charge underacknowledgment.
- x. It shall be the duty of the contractor to ensure the disbursement of wages through bank account oflabour.
- xi. The contractor shall obtain from the Junior Engineer or any other authorised representative of the Engineer-in-Charge as the case may be, a certificate under his signatureattheendoftheentriesinthe“RegisterofWages”orthethe“Wage-cum-Muster Roll” as the case may be in the following form:-
- xii. “CertifiedthattheamountshownincolumnNo has been paid to the workman concerned through bank account of labour onat.....”

FINES AND DEDUCTIONS WHICH MAY BE MADE FROM WAGES

- i. The wages of a worker shall be paid to him without any deduction of any kind except thefollowing:-
- ii. Fines
- iii. Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he wasabsent.
- iv. Deduction for damage to or loss of goods expressly entrusted to the employed person for custody or for loss of money or any other deduction which he is required to account, where such damage or loss is directly attributable to his neglect or default.
- v. Deduction for recovery of advances or for adjustment of overpayment of wages, advances granted shall be entered in aregister.
- vi. AnyotherdeductionwhichtheCentralGovernmentmayfromtimetotimeallow.
- vii. Nofinesshouldbeimposedonanyworkersaveinrespectofsuchactsandomissions onhispartashavebeenapprovedofbytheChiefLabourCommissioner.
- viii. Note :- An approved list of Acts and Omissions for which fines can be imposed is enclosed atAppendix-X
- ix. No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines ordeductions.
- x. The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a Rupee of the total wages, payable to him in respect of that wageperiod.

सुरेन्द्र मोहन
लेखाकार
०५० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
०५० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अला
स्थानिक अभियन्ता (वि०)
०५० रा० नि० नि० लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
०५० रा० नि० नि० लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- xi. No fine imposed on any worker shall be recovered from him by instalment, or after the expiry of sixty days from the date on which it was imposed.
- xii. Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

सुरेन्द्र मोहन
लेखाकार

उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा

सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अला

स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

LABOUR RECORDS

- i. The contractor shall maintain a Register of persons employed on work on contract in Form XIII of the CL (R&A) Central Rules 1971 (Appendix IV)
- ii. The contractor shall maintain a Muster Roll register in respect of all workmen employed by him on the work under Contract in Form XVI of the CL (R&A) Rules 1971 (AppendixV).
- iii. The contractor shall maintain a Wage Register in respect of all workmen employed by him on the work under contract in Form XVII of the CL (R&A) Rules 1971 (AppendixVI).
- iv. Register of accident - The contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars:
 - a) Rate ofWages.
 - b) Sex
 - c) Age
 - d) Nature of accident and cause ofaccident.
 - e) Time and date ofaccident.
 - f) Date and time when admitted inHospital,
 - g) Date of discharge from theHospital.
 - h) Period of treatment and result oftreatment.
 - i) Percentage of loss of earning capacity and disability as assessed by Medical Officer.
 - j) Claim required to be paid under Workmen's CompensationAct.
 - k) Date of payment ofcompensation.
 - l) Amount paid with details of the person to whom the same waspaid.
 - m) Authority by whom the compensation wasassessed.
 - n) Remarks
- vi. The contractor shall maintain a Register of Fines in the Form XII of the CL (R&A) Rules 1971(Appendix-XI)
- vii. Thecontractorshalldisplayinagoodconditionandinaconspicuousplaceofworkthe approvedlistofactsandomissionsforwhichfinescanbeimposed(Appendix-X)
- viii. The contractor shall maintain a Register of deductions for damage or loss in Form XX of the CL (R&A) Rules 1971(Appendix-XII)
- ix. The contractor shall maintain a Register of Advances in Form XXIII of the CL (R&A) Rules 1971(Appendix-XIII)

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



x. The contractor shall maintain a Register of Overtime in Form XXIII of the CL (R&A) Rules 1971(Appendix-XIV)

6. ATTENDANCE CARD-CUM-WAGESLIP

- i. The contractor shall issue an Attendance card-cum-wage slip to each workman employed by him in the specimen form at(Appendix-VII)
- ii. The card shall be valid for each wageperiod.
- iii. The contractor shall mark the attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually startswork.
- iv. The card shall remain in possession of the worker during the wage period under reference.
- v. The contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference.
- vi. Thecontractorshallobtainthesignatureorthumbimpressionoftheworkeronthe wageslipatthetimeofdisbursementofwagesandretainthecardwithhimself.

7. EMPLOYMENTCARD

The contractor shall issue an Employment Card in Form XIV of the CL (R&A) Central Rules 1971 to each worker within three days of the employment of the worker(Appendix-VIII).

8. SERVICE CERTIFICATE

On termination of employment for any reason whatsoever the contractor shall issue to the workman whose services have been terminated, a Service certificate in Form XV of the CL (R&A) Central Rules 1971(Appendix-IX)

9. PRESERVATION OF LABOUR RECORDS

All records required to be maintained under Regulations Nos. 6 & 7 shall be preserved in original for a period of three years from the date of last entries made in them and shall be made available for inspection by the Engineer-in-Charge or Labour Officer or any other officers authorised by the Ministry of Urban Development in this behalf.

10. POWER OF LABOUR OFFICER TO MAKE INVESTIGATIONS OR ENQUIRY

The Labour Officer or any person authorised by Central Government on their behalf shall have power to make enquires with a view to ascertaining and enforcing due and proper observance of Fair Wage Clauses and the Provisions of these Regulations. He shall investigate into any complaint regarding the default made by the contractor or subcontractor in regard to such provision.

सुरेन्द्र मोहन
लेखाकार
०५०२०१०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
०५०२०१०नि०नि०लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हार्डकोर्ट विधुत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विभाग

11. REPORT OF LABOUROFFICER

The Labour Officer or other persons authorised as aforesaid shall submit a report of result of his investigation or enquiry to the Project Manager concerned indicating the extent, if any, to which the default has been committed with a note that necessary deductions from the contractor's bill be made and the wages and other dues be paid to the labourers concerned. In case an appeal is made by the contractor under Clause 13 of these regulations, actual payment to labourers will be made by the Project Manager after the General Manager has given his decision on such appeal.

- i. The Project Manager shall arrange payments to the labour concerned within 45 days from the receipt of the report from the Labour Officer or the General Manager as the case maybe.

12. APPEAL AGAINST THE DECISION OF LABOUROFFICER

Any person aggrieved by the decision and recommendations of the Labour Officer or other person so authorised may appeal against such decision to the General Manager concerned within 30 days from the date of decision, forwarding simultaneously a copy of his appeal to the Project Manager concerned but subject to such appeal, the decision of the officer shall be final and binding upon the contractor.

13. PROHIBITION REGARDING REPRESENTATION THROUGH LAWYER

- i. A workman shall be entitled to be represented in any investigation or enquiry under these regulations by:-
 - a) An officer of a registered trade union of which he is amember.
 - b) An officer of a federation of trade unions to which the trade union referred to in clause (a) isaffiliated.
 - c) Where the employer is not a member of any registered trade union, by an officer of a registered trade union, connected with the industry in which the worker is employed or by any other workman employed in the industry in which the worker is employed.
- ii. An employer shall be entitled to be represented in any investigation or enquiry under these regulations by:-
 - a) An officer of an association of employers of which he is amember.
 - b) An officer of a federation of associations of employers to which association referred to in clause (a) isaffiliated.
 - c) Where the employers is not a member of any association of employers, by an officer of association of employer connected with the industry in which the employer is engaged or by any other employer, engaged in the industry in which the employer is engaged.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- iii. No party shall be entitled to be represented by a legal practitioner in any investigation or enquiry under these regulations.

14. INSPECTION OF BOOKS AND SLIPS

The contractor shall allow inspection of all the prescribed labour records to any of his workers or to his agent at a convenient time and place after due notice is received or to the Labour Officer or any other person, authorised by the Central Government on his behalf.

15. SUBMISSIONS OF RETURNS

The contractor shall submit periodical returns as may be specified from time to time.

16. AMENDMENTS

The Central Government may from time to time add to or amend the regulations and on any question as to the application/Interpretation or effect of those regulations the decision of the General Manager concerned shall be final.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



(FORM 31)

INDENTURE FOR SECURED ADVANCES

(For use in cases in which the contract is for finished work and the contractor has entered into an Agreement for the execution of a certain specified quantity of work in a given time)

THIS INDENTURE made the..... day of.....20.....BETWEEN

..... (hereinafter called the Contractor which expression shall where the context so admits or implies be deemed to include his executors administrators and assigns) of the one part and the MD UPRNN (hereinafter called the MD UPRNN which expression shall where the context so admits or implies be deemed to include his successors in office and assigns) of the other part.

WHEREAS by an Agreement dated (hereinafter called the said Agreement) the Contractor has agreed AND WHEREAS the Contractor has applied to the MD UPRNN that he may be allowed advances on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said Agreement for use in the construction of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges) AND WHEREAS the MD UPRNN has agreed to advance to the Contractor the sum of Rupees..... on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account Bill for the said works signed by the Contractor on

..... and the MD UPRNN has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works. Now THIS INDENTURE WITNESSETH that in pursuance of the said Agreement and in consideration of the sum of Rupees..... on or before the

execution of these presents paid to the Contractor by the MD UPRNN (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the Contractor doth hereby covenant and agree with the MD UPRNN and declare as follows:

- (1) That the said sum of Rupees..... so advanced by the MD UPRNN to the Contractor as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the Contractor in or towards expediting the execution of the said works and for no other purpose whatsoever.
- (2) That the materials detailed in the said Account of Secured Advances which have been offered to and accepted by the MD UPRNN as security are absolutely the Contractor's own property and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnifies the MD UPRNN against all claims to any materials in respect of which an advance has been made to him as aforesaid.

सुरेन्द्र मोहन
लेखाकार
0 प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- (3) That the materials detailed in the said Account of Secured Advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Engineer-in-charge Unit (hereinafter called the Engineer-in-charge) and in the term of the said Agreement.
- (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Engineer-in-charge or any officer authorised by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Engineer-in-charge.
- (5) That the said materials shall not on any account be removed from the site of the said works except with the written permission of the Divisional Officer or an officer authorised by him on that behalf.
- (6) That the advances shall be repayable in full when or before the Contractor receives payment from the MD UPRNN of the price payable to him for the said works under the terms and provisions of the said Agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the MD UPRNN will be at liberty to make a recovery from the Contractor's bill for such payment by deducting therefrom the value of the said material then actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amount of the advances made under these presents were calculated.
- (7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said Agreement or of these presents the total amount of the advance or advances that may still be owing to the MD UPRNN shall immediately on the happening of such default be repayable by the Contractor to the MD UPRNN together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs charges, damages and expenses incurred by the MD UPRNN in or for the recovery thereof for the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the MD UPRNN to repay and pay the same respectively to him accordingly.
- (8) That the Contractor hereby charges all the said materials with the repayment to the MD UPRNN of the said sum of Rupees and any further sum or sums advanced as aforesaid and all costs charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said Agreement and without prejudice to the powers contained therein if and whenever the covenant for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance therewith the MD UPRNN may at any time thereafter adopt all or any of the following courses as he may deem best:-

सुरेन्द्र मोहन
लेखाकार
० प्र० रा० नि० लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
० प्र० रा० नि० लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- a) Size and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said Agreement debiting the Contractor with the actual cost of effecting such completion and the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as if he had carried it out in accordance with the said Agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay same to the MD UPRNN on demand.
- b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the MD UPRNN under these presents and pay over the surplus (if any) to the Contractor.
- c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said Agreement.
- (9) That except in the event of such default on the part of the Contractor as aforesaid interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these presents and the said Agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been herein before expressly provided for the same shall be finally resolved as per provisions of clause 25 of the contract.

In witness whereof the said and by the order and under the direction of the MD UPRNN have hereunto set their respective hands the day and year first above written.

Signed, sealed and delivered by the said contractor in the presence of

Signature

Witness Name

Address

Signed by

by the order and direction of the MD UPRNN in the presence of

Signature

Witness Name

Address

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



APPENDIX – XVI

FORM OF APPLICATION BY THE CONTRACTOR FOR SEEKING EXTENSION OF TIME

1. Name of contractor.....
2. Name of work as given in the Agreement.....
3. Agreement no
4. Estimated amount put tender
5. Date of commencement of work as per Agreement.....
6. Period allowed for completion of work as per Agreement.....
7. Date of completion stipulated in Agreement.....
8. Period for which extension of time if has been given by authority in Schedule 'F' previously

	Letter no. and date	Extension granted	
		Months	Days
	(a) 1st extension.....		
	(b) 2nd extension.....		
	(c) 3rd extension		
	(d) 4th extension.....		
	(e) Total extension previously given		

9. Reasons for which extension have been previously given (copies of the previous applications should be attached)
10. Period for which extension if applied for
11. Hindrances on account of which extension is applied for with dates on which hindrances occurred and the period for which these are likely to last (for causes under clause 5.2/ and 5.3).

Submitted to the Authority indicated in Schedule F With copy to the Engineer-in-charge and Sub Divisional Officer

Signature of Contractor Dated

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



APPENDIX XVII

Notice for appointment of Arbitrator

To

The Genral Manager

..... (Zone or Region)

Dear Sir,

In terms of clause 25 of the Agreement, particulars of which are given below, I/we hereby give notice to you to appoint an arbitrator for settlement of disputes mentioned below:

1. Name of applicant
2. Whether applicant is Individual/Prop. Firm/Partnership Firm/Ltd.Co.
3. Full address of the applicant
4. Name of the work and contract number in which arbitrations sought
5. Name of the Division which entered into contract
6. Contract amount in the work
7. Date of contract
8. Date of initiation of work
9. Stipulated date of completion of work
10. Actual date of completion of work (if completed)
11. Total number of claims made
12. Total amount claimed
13. Date of intimation of final bill (if work is completed)
14. Date of payment of final bill (if work is completed)
15. Amount of final bill (if work is completed)
16. Date of request made to SE for decision
17. Date of receipt of SE's decision
18. Date of appeal to you
19. Date of receipt of your decision.

Specimen signatures of the
applicant (only the
person/authority who signed
the contract should sign)

I/We certify that the information given above is true to the best of my/our knowledge. I/We enclose following documents.

1. Statement of claims with amount of claim
- ms. 2.
- 3.
- 4.

Yours faithfully
(Signatures)

Copy in duplicate to:

1. The Project Manager, (Major) Unit.
2. The Project Manager, (Minor) Unit

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अला
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट दिल्ली

Form of Performance Security (Guarantee) Bank Guarantee Bond-Format - I

In consideration of the MD UPRNN (hereinafter called "The Government") having offered to accept the terms and conditions of the proposed Agreement between.....and..... (hereinafter called "the said Contractor(s)" for the work..... (hereinafter called "the said Agreement") having agreed to production of an irrevocable Bank Guarantee for Rs. (Rupees only) as a security/Guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said Agreement.

1. We, (hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs. (Rupees Only) on demand by the UPRNN.
2. We, (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from the UPRNN stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs. (Rupees only)
3. We, the said bank further undertake to pay the UPRNN any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.
4. We, (indicate the name of the Bank) further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the UPRNN under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till Employer on behalf of the UPRNN certified that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this Guarantee.
5. We, (indicate the name of the Bank) further agree with the UPRNN that the UPRNN shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the UPRNN against the said contractor(s) and to enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the UPRNN or any indulgence by the UPRNN to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

सुरेन्द्र मोहन
लेखाकार
०५०२०१०१०१०१०१०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
०५०२०१०१०१०१०१०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
०५०२०१०१०१०१०१०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
०५०२०१०१०१०१०१०
हाईकोर्ट विद्युत इकाई, लखनऊ



6. This Guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We,(indicate the name of the Bank) lastly undertake not to revoke this Guarantee except with the previous consent of the UPRNN in writing.
8. This Guarantee shall be valid upto unless extended on demand by the UPRNN. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs.....(Rupees) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this Guarantee all our liabilities under this Guarantee shall stand discharged. Dated the.....day of.....for (indicate the name of the Bank)

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**Form of Performance Security (Guarantee)****Bank Guarantee Bond- Format -II**

In consideration of the MD UPRNN (hereinafter called "The UPRNN") having offered to accept the terms and conditions of the proposed Agreement between.....and..... (hereinafter called "the

said Contractor(s)") for the work..... (hereinafter called "the said Agreement") having agreed to production of an irrevocable Bank Guarantee for Rs. (Rupees only) as a security/Guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said Agreement.

1. We, (hereinafter referred to as "the Bank") hereby undertake to pay to the UPRNN an amount not exceeding Rs. (Rupees Only) on demand by the UPRNN.
2. We, (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from the UPRNN stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs. (Rupees only)
3. We, the said bank further undertake to pay the UPRNN any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.
4. We, (indicate the name of the Bank) further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the UPRNN under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-Charge on behalf of the UPRNN certified that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this Guarantee.
5. We, (indicate the name of the Bank) further agree with the UPRNN that the UPRNN shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the UPRNN against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the UPRNN or any indulgence by the UPRNN to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This Guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We, (indicate the name of the Bank) lastly undertake not to revoke this Guarantee except with the previous consent of the UPRNN in writing.
8. This Guarantee shall be valid upto unless extended on demand by the UPRNN. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs. (Rupees)

सुरेन्द्र मोहन
लेखाकार
०५०२०१०१०१०१०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
०५०२०१०१०१०१०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अला
स्थानिक अभियंता (वि०)
०५०२०१०१०१०१०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबंधक (वि०)
०५०२०१०१०१०१०
हाईकोर्ट विद्युत इकाई, लखनऊ

SCHEDULES B to F (Major Work)

(Separate Performa for Civil, Elect.& Hort. Works in case of Composite Tenders)

SCHEDULE "B"

Extra schedule for specific requirements/document for the work, if any

S.No	Description of item	Qty	Rates in figures & words at which the material will be charged to the contractor.	Place of issue

SCHEDULE 'C'

Tools and plants to be hired to the contractor: -

S.No	Description	Hire charges per day	Place of issue

SCHEDULE 'D'

Extra schedule for specific requirements/document for the work, if any.

- (a) Civil : As per Annexure no.....
- (b) Electrical : As per Annexure no.....

SCHEDULE 'E'

Reference to General Conditions of contract : GCC for Building construction works of UPRNN modified and amended up to last date of onlinesubmission of bid.

Name of work:

Estimated cost of work:

Rs. Lakhs (Civil Rs. Lakhs & Electrical Rs. Lakhs)

- (i) Earnest money: Rs. 0.00 (to be returned after receiving performance Guarantee)

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



- (ii) Performance Guarantee : 5% of tendered value.
- (iii) Additional Performance Security : AS per GO no G.O. No 622/23-12-2012-2 Audit/08 T.C.-2 Dated 08.06.2012 for unbalanced bids.
- (iv) Security Deposit 5% of tendered value.

SCHEDULE 'F'**GENERAL RULES & DIRECTIONS**

Officer inviting tender General Manager zone .Electrical Zone-4,UPRNN,

Authority (Managing Director) : Managing Director, UPRNN,

Maximum percentage for quantity of items of work : See below under Clause 12.
to be executed beyond which rates are to be
determined in accordance with Clauses 12.2 & 12.3

Definitions:

- 2(v) (a) Engineer -in-Charge (For Major component) Project Manager,Electrical.,UPRNN,
2(v) (b) Engineer -in-Charge (For Minor component) Project Manager, Civil UPRNN,

2(viii) Accepting Authority General Manager zone Electrical Zone-4 ,
UPRNN,

2(x) Percentage on cost of materials and 15%
labour to cover all overheads and profits. 15% (Fifteen
percent)2(xi) Standard Schedule of
Rates UPRNN

2(xii) Department Uttar Pradesh Public Works Department
9(ii) Standard UPRNN contract Form, Form of Bid modified and amended up
to last date of online submission of
bid.

Clause 1

- (i) Time allowed for submission of Performance Guarantee, programme chart (Time and progress) and applicable labour licenses , registration with EPFO, ESIC and BOCW welfare board or proof of applying there of from the date of issue of letter of acceptance
7 days (from LOA)
- (ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period
provided in (i) above 7 days (from LOA)

Clause 2

Authority for fixing compensation under clause 2. General Manager zone,, UPRNN,

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start :

14 days

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



Mile stone(s) as per table given below:-

Sl No.	Description of Milestone (Physical)	Time Allowed in days (from date of start)	% Amount to be with-held per day in case of non achievement of mile stone
1.	1/8th of the value of entire contract	1/4th of the period allowed for completion of construction. ----days.	1.00%
2.	3/8th of the value of entire contract	1/2 of the period allowed for completion of construction ----days.	1.00%
3.	3/4th of the value of entire contract	3/4th of the period allowed for completion of construction ----days.	1.00%
4.	Full value of the entire contract	Full period allowed for completion of construction ----days.	1.00%

Shifting of date of start in case of delay in handing over of site : General Manager Electrical Zone-4
UPRNN,

PROFORMA OF SCHEDULES Clause 5 Schedule of handing over of site

Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent.
Part A	Portion without any hindrance		
Part B	Portions with encumbrances		
Part C	Portions dependent on work of other agencies		

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सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विमान

**Schedule of rate of recovery for delay in submission of the modified programme in terms of delay per day.**

Sl. No.	Contract Value	Recovery Rs.
I.	Less than or equal to Rs. 1 Crore	500
II.	More than Rs. 1 Crore but less than or equal to Rs.5 Crore.	1000
III.	More than Rs. 5 Crore but less than or equal to Rs.20 Crores.	2500
IV.	More than Rs. 20 Crores	5000

Clause 7

Gross work to be done together with net payment /adjustment of advances for material collected,if any, since the last such payment for being eligible to interim payment :

Rs. 20.00 lakhs For civil component

Clause 7 A

No Running A/c Bill shall be paid for the work till the applicable labour licenses, registrations with EPFO, ESIC & BOCW Welfare Board whatever applicable are submitted by the contractor to the Engineer-in-charge. Whether clause 7A shall be applicable.

Registration of labours of the contractor, associates to be submitted

Clause 10 A :As given in General Condition of Contract under Quality Assurance & as per UPRNNLSpecification

(a) CIVIL :**Equipment's for Testing of Materials & Concrete at Site Laboratory**

All necessary equipment's for conducting all necessary tests shall be provided at the site in the well-furnished sitelaboratory of minimum size 25 feet X 15 feet by the contractor at his own cost. The following minimum laboratory equipment's shall be set up at site office laboratory:-

SN	Equipment*	Numbers*
1	100MT compression testing machine, electrical-cum-manually operated)	1
2	Slump cone, steel plate, tamping rod, steel scale, scoop	3
3	Pumps and pressure gauges for hydraulic testing of pipes	1
4	Weighing scale platform type 100 Kg capacity	1
5	Graduated glass measuring cylinder	As per requirement
6	Sets of sieves of 450mm internal dia for coarse aggregate [100mm, 80mm,40mm; 20mm; 12.5mm, 10mm; 4.75mm complete with lid and pan]	2
7	Sets of sieves of 200mm internal dia for fine aggregate [4.75mm; 2.36mm; 1.18mm; 600 microns; 300 microns & 150 micron , with lid and pan]	2
8	Sieve Brushes and sieve shaker capable of 200mm and 450 mm diasieves , manually operated with timing switch assembly	1
9	Cube moulds size 70mmx70mmx70mm	6
10	Cube moulds size 150mmx150mmx150mm	36
11	Hot air oven temp. Range 50oc to 300oc-sensitivity 1 degree	1
12	Electronic balance 600gx0.1g., 10kg and 50 kg	1
13	Physical balance weight up to 5 kg	1
14	Air Content of concrete testing machine	1
15	Measuring jars 100ml, 200ml, 500ml	2 nos. each size
16	Spatula 100mm & 200mm with long blade wooden handle	2
17	Vernier callipers 12" & 6" size	3 each
18	Digital PH meter least count 0.01mm	1each


सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ


रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ




सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ


रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ


इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विभाग



19	Digital Micrometre least count. 0.01mm	1 each
20	Digital paint thickness meter for steel 500 micron Range	2
21	GI tray 600x450x50mm, 450x300x40mm, 300x250x40mm	2 nos. each
22	Electric Motor mixer 0.25 cum capacity	1
23	Digital rebound hammer	1
24	Screw gauge 0.1mm-10mm, least count 0.05 mm	4
25	Water testing kit	1
26	Motorized sieve shaker	1
27	Extra Bottom plates for 15 cm cube mould	10
28	Standard Vibration Table for gauging the cubes	1
29	Concrete temperature measuring thermometer with Brass protection sheath 0-100 degree centigrade	2
30	Dial type spring balance preferable with zero correction knob capacity 100 kgs. reading to ½	2
31	Counter scale capacity 1 kg and 10 kg	1
32	Iron Weight of 5 kg, 2 kg, 1 kg, 500 gm, 200 gm, 100 gm	1
33	Brass Weight of 50 gm, 20 gm, 10 gm, 5 gm, 2 gm, 1 gm	1
34	Measuring cylinder TPX or Poly propylene capacity 100 ml, 500 ml, 250 ml	1 each
35	Electronic Set of box spanner ratchet	2
36	Rebound Hammer 1lb& 2lb	2
37	Hacksaw with 6 blades	3
38	Measuring tape 3 meter, 5 meter, 10 meter, 30 meter	2 each
39	Shovels& Spade	2
40	Steel plates 5 mm thick 75x75 cm	2
41	Plastic or G.I. Buckets 15 litre, 10 litre, 5 litre	5
42	Any other equipment for site tests as outlined in BIS codes and as directed by the Engineer-in-charge.	As per actual requirement.
43	Ultrasonic Pulse Velocity Apparatus	1

*To be filled by Project Manager (Civil) as per the requirement of Site specific

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**PLANT AND EQUIPMENT REQUIRED TO BE OWNED / TAKEN ON LEASE BY THE CONTRACTOR**

Sl. No.	Equipment *	Numbers* (Minimum)
1	Building Hoist	1
2	Tower Crane with 45 m jib length capacity 1.20 ton	1
3	Mobile tower crane (wheel mounted) as per requirement at site	1
4	Portable Mini batching plant with adequate 30 cum / hour capacity.	1
5	Transit Mixer of capacity 7cum.	2
6	Needle Vibrators.	5
7	Plate Vibrators.	3
8	Reinforcement cutting machine.	2
9	Reinforcement bending machine	2
10	Concrete Pumps	2
11	DG set (min Capacity 62.5 Kva)	1
12	Total Station	1
13	Power driven earth rammer (Soil compactor).	1
14	Tractor with trolley.	As per requirement
15	Welding machine 400 Ampere	As per requirement
16	Screener for coarse sand and fine sand	2
17	Centrifugal mono block water pump	As per requirement
18	Scaffolding and staging material	As per requirement
19	Centring /shuttering with necessary props	As per requirement
20	Wire binding machine	10
21	Any other machinery required for completion of the work as per decision of Engineer-in-charge.	As per Actual requirement
22	Submersible pump (required capacity)	2 Nos
23	JCB	1 Nos

***To be filled by Project Manager (Civil) as per the requirement of Site specific**

Equipment for slump test – Slump cone, steel plate, tamping rod, steel scale, scoop. – 1

set. Cube mould - 12

Nos.

Hydraulic Pressure Pump - 2 Nos.

Balances i) 7 kg to 10kg capacity, semi-self indicating type-accuracy 10 gm.

500 gm capacity, semi-self indicating type-accuracy 1

gmPan balance – 5kg capacity – accuracy 10 gm

Sieves : as per IS 460-1962

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
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अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
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I.S. Sieves 450 mm internal dia, of sizes 100mm, 80mm, 63mm, 50mm, 40mm, 25mm, 20mm, 12.5mm, 10mm, 6.3mm, 1.75mm, complete with lid and pan

I.S. Sieves 200 mm internal dia (brass frame) of sizes 2.36mm, 1.18mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns and 75 microns with lid and pan.

Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with timing switch.

Dial gauges, 25 mm trowel – 0.01 mm/division, least count – 2 Nos.

Oven-

electrically operated, thermostatically controlled up to 110 deg Celsius Sensitivity 1 deg Celsius.

Graduated measuring cylinders 200 ml capacity - 2 Nos.

Total station - 1 No.,

Auto level - 1 No.,

Vernier Caliper - 1 No.,

Micrometer screw gauge - 1 No.

100 tonnes compression testing machine, Elect. cum Manual operated. - 1 No.

(Clause 10 shall be applicable for works more than 18 months time period for completion)

Clause 10 B(ii)

Whether Clause 10 B(ii) shall be :
Applicable applicable

Clause 10C

Component of labour expressed as : Applicable 25% for
percent of value of work : works spanning more
than 18 months

सुरेन्द्र मोहन
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Clause 10CA

: Applicable for Works spanning more than 18 months

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**Clause 11**

Specifications to be followed for execution of work:

For Civil items of work	Specifications of UPRNN, BIS, NBC& CPWD Specifications 2019 Vol. 1 and Vol. 2, MoRTH specifications, IRC specifications with correction slips up to day previous to last date of submission of tender.
For Electrical items of work	General Specifications for Heating, Ventilation & Air-Conditioning (HVAC) - 2017 with correction slips up to day previous to last date of submission of tender. Latest UPRNN/CPWD General Specifications for Electrical Works Part I Internal - 2013. with correction slips up to day previous to last date of submission of tender. Latest UPRNN/CPWD General Specifications for Electrical Works Part IV Sub Station – 2013. with correction slips up to day previous to last date of submission of tender. Latest UPRNN/CPWD General Specifications for Electrical Works Part VI Fire Detection and Alarm System – 2018. with correction slips up to day previous to last date of submission of tender. Latest UPRNN/CPWD General Specifications for Electrical Works Part VII D.G. Sets - 2013. with correction slips up to day previous to last date of submission of tender. General Specifications for Electrical Works (Part III-LIFTS & Escalators)-2003 with correction slips up to day previous to last date of submission of tender.
For Horticulture items of work	DSR/CPWD specifications

Clause 12

Authority to decide deviation upto 1.5 times of tendered Amount	General ManagerZone , UPRNN,	
12.2 & 12.3	Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work.	30%
12.5	i) Deviation limit beyond which clause 12.2 & 12.3 shall apply for foundation work (except items	100%
	mentioned in earth work subhead in DSR and related items)	
	ii) Deviation limit for items mentioned in earth work subhead of DSR and related items	100%

Clause 16

Competent Authority for deciding reduced rates :General Manager,, UPRNN,

Clause 18

PLANT AND EQUIPMENT REQUIRED TO BE OWNED / TAKEN ON LEASE BY THE CONTRACTOR



Sl. No.	Equipment *	Numbers* (Minimum)
1	Building Hoist	1
2	Tower Crane with 45 m jib length capacity 1.20 ton	1
3	Mobile tower crane (wheel mounted) as per requirement at site	1
4	Portable Mini batching plant with adequate 30 cum / hour capacity.	1
5	Transit Mixer of capacity 7cum.	2
6	Needle Vibrators.	5
7	Plate Vibrators.	3
8	Reinforcement cutting machine.	2
9	Reinforcement bending machine	2
10	Concrete Pumps	2
11	DG set (min Capacity 62.5 Kva)	1
12	Total Station	1
13	Power driven earth rammer (Soil compactor).	1
14	Tractor with trolley.	As per requirement
15	Welding machine 400 Ampere	As per requirement
16	Screener for coarse sand and fine sand	2
17	Centrifugal mono block water pump	As per requirement
18	Scaffolding and staging material	As per requirement
19	Centring /shuttering with necessary props	As per requirement
20	Wire binding machine	10
21	Any other machinery required for completion of the work as per decision of Engineer-in-charge.	As per Actual requirement
22	Submersible pump (required capacity)	2 Nos
23	JCB	1 Nos
	Any other machinery required for completion of the work as per actual site requirement.	

*
*

Contractor is advised to deploy the required Plant and machinery on the project. The number of plant and machinery to be deployed by him is indicated. In case the contractor fails to deploy the plant and machinery whenever required and as per the direction of the Engineer-in-charge, the Engineer-in-charge shall be at a liberty to get the same deployed at the risk and cost of the contractor.

In case the contractor is of the opinion that any particular T&P etc. is not being utilised or is not essential, he may request Engineer in charge in writing for non deployment of that particular T&P. The Engineer incharge after assessment may permit such relaxation.

Clause 19

Clause 19 C - authority to decide penalty for each default:

General Manager . ,Electrical Zone-4,
UPRNN,



- Clause 19 D** - authority to decide penalty for each default: General Manager . , Electrical Zone-4, UPRNN,
- Clause 19 G** - authority to decide penalty for each default: General Manager Electrical Zone-4 UPRNN,.....
- Clause 19 K** - authority to decide penalty for each default: General Manager , Electrical Zone-4 , UPRNN,.....

Clause 25

Constitution of Dispute Redressal Committee (DRC)

Chairman –Additional Managing Director UPRNN

Member – Finance Advisor UPRNN

Member –General Manager UPRNN (as approved by Managing Director)

Clause 32

Requirement of Technical Representative(s) and recovery Rate :As per relevant clause of updated Registration Rules As per Document..

And

Requirement for specialized persons as below

Cost of Work (Rs in Crores)	Requirement of Technical		Minimum experience (Years)	Designation Technical Staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling
	Qualification	Number (of Major + Minor component)			
More than 20 to 50	Graduate Engineer	1	20 (and having experience of one similar nature of work)	Project Manager	Rs. 70.000/- per month
	Graduat e Engineer	1	10 (and having experience of one similar nature of work)	Deputy Project Manager	Rs. 50.000/- per month
	Graduat e Engineer or Diploma Engineer	1+1	5 or 10 respectively	Project/ Site Engineer	Rs. 30.000/- per month per person



UPRNN

	Graduate or Engineer Diploma Engineer	1+1	2 or 5 respectively	Project Planning/Quality / Billing Engineer	Rs. 20.000/- per month per person
More than 10 to 20	Graduate Engineer	1	10 (and having experience of one similar nature of work)	Project Manager	Rs. 35.000/- per month
	Graduate or Engineer Diploma Engineer	1	5 or 10 respectively	Project/ Site Engineer	Rs. 30.000/- per month
	Graduate or Engineer Diploma Engineer	1+1	2 or 5 respectively	Planning/Quality/ Billing Engineer	Rs. 20.000/- per month per person
	Graduate or Engineer Diploma Engineer	1+1	2 or 5 respectively	Project Planning/Quality / Billing Engineer	Rs. 20.000/- per month per person
More than 5 to 10	Graduate Engineer	1	5 (and having experience of one similar nature of work)	Project Manager	Rs. 30.000/- per month
	Graduate or Engineer Diploma Engineer	1+1	2 or 5 respectively	Project Planning/Quality / Billing Engineer	Rs. 20.000/- per month

Clause: 33

Levy/taxes payable by Contractor : GST shall be payable extra as per G.O. No.1956/23-10-2019-12 General/2017 TC-2 dated 10-12-2019

CLAUSE – 34

1. All tendered rates shall be inclusive of all taxes, levies or cess applicable on last stipulated date of receipt of tender including extension if any. No adjustment i.e. increase or decrease shall be made for any variation in the rate of GST, Building and other Construction Workers Welfare Cess or any other tax, levy or cess applicable on inputs.

However, effect of variation in rates of GST or Building and other Construction Workers Welfare Cess or imposition or any other tax, levy or cess applicable on output of the works contract shall be adjusted on either side, increase or decrease.



Provided further that for Building and Other Construction Workers Welfare Cess or any tax (other than GST), levy or cess varied or imposed after the last date of receipt of tender including extension if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of taxes / levies/cess.

Provided further that such increase including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension of time under Clause 5 in Schedule F.

2. The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the UPRNN and/or the Engineer-in-Charge and shall also furnish such other information/document as the Engineer-in-Charge may require from time to time.
3. The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess, or variation or repeal of such tax or levy or cess give a written notice thereof to the Engineer-in-Charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

Clause 38

- (i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates printed by UPRNN
- (ii) Variations permissible on theoretical quantities:

- | | |
|---|--------------------|
| (a) Cement | |
| For works with estimated cost put to tender not more than Rs.25 lakh. | 3% plus/minus. |
| For works with estimated cost put to tender more than Rs. 25 lakh.. | 2% plus/minus. |
| (b) Bitumen All Works | 2.5% plus & only & |
| | nil on minus side. |
| (c) Steel Reinforcement and structural steel sections for each diameter, section and category | 2% plus/minus |
| (d) All other materials. | Nil |



Schedule B to F Minor Work (Civil)

MINOR COMPONENT

(Civil Services)

SCHEDULE "B"

Schedule of materials to be issued to the contractor.

S.No	Description of item	Qty	Rates in figures & words at which the material will be charged to the contractor.	Place of issue
1	2	3	4	5
-----NIL-----				

SCHEDULE 'C'

Tools and plants to be hired to the contractor: -

S.No	Description	Hire charges per day	Place of issue
1	2	3	4
..... NIL			

SCHEDULE 'D'

Extra schedule for specific requirements/document for the work, if any : -

(a)Electrical..... : As given on page No..... to

SCHEDULE "E"

Reference to General Conditions of contract : GCC FOR BUILDING CONSTRUCTION WORK modified and amended up to last date of online submission of bid.

Name of Work :

Estimated cost of work : Rs. 0.00/- (Civil Rs. Lakhs (GST Extra) /- Electricals
Rs/-)

(i) Earnest Money : RS. Lakhs /- (To be returned after receiving the performance Guarantee).



- (ii) Performance Guarantee : 5% of tendered value
AS per GO no G.O. No 622/23-12-2012-2
Audit/08 T.C.-2 Dated 08.06.2012 for
unbalanced bids.
- (iii) Security Deposit : 2.5% of tendered value

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS

- Officer inviting tender : General Manager,, UPRNN,
- Authority (Chief Engineer) : General Manager Zone,
UPRNN
- Maximum percentage for quantity of items of work: See below under
Clause 12. to be executed beyond which rates are to be
determined in accordance with Clauses 12.2 & 12.3

Definitions:

- 2(v) (a) Engineer -in-Charge (For Major component) : Project Manager,,
UPRNN,
- 2(v) (b) Engineer -in-Charge (For Minor component) : Project Manager (E),,
UPRNN,
- 2(viii) Accepting Authority : General Manager,
UPRNN,
- 2(x) Percentage on cost of materials and 15%
labour to cover all overheads and profits. : 15% (Fifteen
percent) 2(xi) Standard : Standard
Schedule of Rates : UPRNN
- 2(xii) Department : Uttar Pradesh Rajkiya Nirman Nigam
- 9(ii) Standard UPRNN contract Form, : Form of Bid modified and
amended up to last date of online
submission of bid.

Clause 7

Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.

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लेखाकार
0 प्र० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० रा० नि० नि० लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
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अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
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हाईकोर्ट विद्युत इकाई, लखनऊ



**TO BE EXECUTED BY CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF BUILDING
STRUCTURAL ELEMENT WORKS**

(On Rs. 100/- stamp paper)

The Agreement made this _____ day of _____ Two thousand and _____ between _____ son of _____ (hereinafter called the Guarantor of the one part) and the UPRNN (hereinafter called the Nigam of the other part).

WHEREAS THIS agreement is supplementary to a contract (hereinafter called the contract) dated _____ and made between the GUARANTOR OF THE ONE part and the Nigam of the other part, whereby the contractor, inter alia, undertook to render the buildings structural element in the contract recited completely safe for use.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain safe and stable as per NBC-2016 for 5 (Five) years from the date after the maintenance period prescribed in the contract.

NOW THE GUARANTOR hereby guarantees that structural element safety given by him will render the structures completely safe and stable and the minimum life cycle of such Building Structural member as per NBC-2016 shall be five years to be reckoned from the date after the maintenance period prescribed in the contract.

Provided that the Guarantor will not be responsible for the Building structural element damage caused by natural calamities or beyond structure design parameters or post alteration and for such purpose

During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building structural element to the satisfaction of the Engineer-in-charge at his cost and shall commence the work for the rectification within three months from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be done by the department by some other agency/contractor at the GUARANTOR's risk and cost. The decision of the Engineer-in-charge as to the cost payable by the Guarantor shall be final and binding.

That if guarantor fails to make good all defects or commits breach the reunder then the Guarantor will indemnify the principal and his successors against all loss, damage, cost expense otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Nigam the decision of the Engineer-in-charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor _____ and by _____ and for and on behalf of the UPRNN on the day, month and year first above written SIGNED, SEALED AND delivered by OBLIGOR in the presence of:

1.
2.

SIGNED FOR AND UPRNN BY _____ in the presence of:

1.
2.

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

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अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
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**TO BE EXECUTED BY CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER
PROOFING WORKS**

(On Rs. 100/- stamp paper)

(BASEMENT/LOWER GROUND FLOOR/UNDER GROUND TANK/ROOF)

The Agreement made this _____ day of _____ Two thousand and _____ between _____ son of _____ (hereinafter called the Guarantor of the one part) and the UPRNN (hereinafter called the Nigam of the other part).

WHEREAS THIS agreement is supplementary to a contract (hereinafter called the contract) dated _____ and made between the GUARANTOR OF THE ONE part and the Nigam of the other part, whereby the contractor, inter alia, undertook to render the buildings and structures in the contract recited completely water and leak-proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for 10 (Ten) years from the date after the maintenance period prescribed in the contract.

NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak proof and the minimum life of such water proofing treatment shall be ten years to be reckoned from the date after the maintenance period prescribed in the contract.

Provided that the Guarantor will not be responsible for the leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose:

- Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof.
- Alteration shall mean an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts.
- The decision of the Engineer-in-charge with regard to cause of leakage/seepage shall be final.

During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building water proof to the satisfaction of the Engineer-in-charge at his cost and shall commence the work for the rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be done by the department by some other agency contractor at the GUARANTOR's risk and cost. The decision of the Engineer-in-charge as to the cost payable by the Guarantor shall be final and binding.

That if guarantor fails to make good all defects or commits breach thereunder then the Guarantor will indemnify the principal and his successors against all loss, damage, cost expense otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Nigam the decision of the Engineer-in-Charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor _____ and by _____ and for and on behalf of the UPRNN on the day, month and year first above written SIGNED, SEALED AND delivered by OBLIGOR in the presence of:

-
-

SIGNED FOR AND UPRNN BY _____ in the presence of:

-
-

सुरेन्द्र मोहन
लेखाकार
०५०२०२०२०२०२०२०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश चम
सहायक अभियन्ता (वि०)
०५०२०२०२०२०२०२०
इकाई हाईकोर्ट, लखनऊ

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०५०२०२०२०२०२०२०
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अपर परियोजना प्रबन्धक (वि०)
०५०२०२०२०२०२०२०
हाईकोर्ट विद्युत इकाई, लखनऊ



(On Rs. 100/- stamp paper)

६४
अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
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हाईकोर्ट विभाग



६६
अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हार्डकोर्ट विभाग

**TO BE EXECUTED BY THE CONTACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF STP/ETP**

(On Rs. 100/- stamp paper)

This Agreement made this day of Two Thousand and
Between son of
..... (Thereafter called the Guarantor on the one part) and the MD, U.P. Rajkiya Nirman
Nigam Ltd. (Thereafter called the Nigam on the other part).

WHEREAS THIS Agreement is supplementary to a contract (Hereinafter called the Contract) dated
and made between the GUARANTOR OF THE ONE PART AND the Nigam of the other part whereby the
contract inter alia, undertook to render the work in the said contract recited structurally stable workmanship, finishing
and use of sound materials.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain structurally
stable and guaranteed against faulty workmanship, finishing, manufacturing defects of materials and leakages, etc.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable after expiry of
maintenance period prescribed in the contract for the minimum life of 02 (Two) year to be reckoned from the date
after the expiry of maintenance period prescribed in the contract. The decision of the Engineer-in-charge with regard
to nature and cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge
calling upon him to rectify, the defects falling which the work shall be got done by the Department by some other
contractor at the Guarantor's cost and risk. The decision of the Engineer-in-charge as to the cost, payable by the
Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects, commits breach thereafter, then the guarantor will indemnify
the principal and his successors against all loss, damage, cost expenses or otherwise which may be incurred by him by
reasons of any default on the part of the GUARANTOR in performance and observance of the supplementary
agreement. As to the amount of loss and/or damages and or cost incurred by the Nigam, decision of the Engineer-in-
charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents, have been executed by the obligator and
..... by for and on behalf of the UPRNN on the day,
month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of:

1.....

2.....

SIGNED FOR AND ON BEHALF OF THE UPRNN BY in
the presence of :

1.....

2.....

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफतखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



GUARANTEE BOND TO BE EXECUTED BY CONTRACTOR (s) FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ANTITERMITE TREATMENT WORKS

(On Rs. 100/- stamp paper)

THIS AGREEMENT is made on day of2015 between U.P. RajkiyaNirman Nigam Ltd.(Hereinafter called the UPRNN which expression shall wherever the context so demands or requires, includes their successors in office and assigns) acting for and on behalf of UPRNN of one part, and M/s Hereinafter called the Contractor (which expression shall wherever the context so demands or requires includes his successors and assigns) of the other part.

WHEREAS this agreement is supplementary to the contract agreement (hereinafter called 'the contract') No.....dated..... made between the UPRNN on the one part and the contractor of the other part, whereby the contractor, inter-alia, undertook to render the Buildings and structures in the said contract rendered completely termite proof.

AND WHEREAS the contractor agreed to give a guarantee to the effect that the said structure will remain Termite proof for ten years to be reckoned from the date after the maintenance period prescribed in the contract expires.

During this period of guarantee the contractor shall make good all defects and for that matter shall replace at his risk and cost such wooden members and other materials like furniture, books etc as may be damaged by termite and in case of any other defect being found he shall render the building termite proof at his cost to the satisfaction of the UPRNN and shall commence the works of such rectification within seven days from the date of issuing notice from the UPRNN calling upon him to rectify the defects failing which the work shall be got done by UPRNN through some other contractor at the contractor's cost and risk and in the later case the decision of the company as to the cost recoverable from the contractor shall be final and binding.

That if the guarantor fails to execute the anti termite treatment or commits breach thereafter, then the guarantor will indemnify the company and his successors against all loss, damage, cost expenses or otherwise which may be incurred by him by reasons of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damages and or cost incurred by the Nigam,. The decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents, have been executed by the obligator and by for and on behalf of the UPRNN on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of:

1.....

2.....

SIGNED FOR AND ON BEHALF OF THE UPRNN BY

..... in the presence of : 1

.....

2.....

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
इकाई हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF INTERNAL ELECTRICAL INSTALLATIONS.

(On Rs. 100/- stamp paper)

This Agreement made this day of Two Thousand and.....
Between son of
..... (Thereafter called the Guarantor on the one part) and the MD, U.P. RajkiyaNirman Nigam Ltd.
(Thereafter called the Nigam on the other part).

WHEREAS THIS agreementissupplementarytoacontract(HereinaftercalledtheContract)dated and made between the GUARANTOR OF THE ONE PART AND the Nigam of the other part whereby the contract inter alia, undertook to render the work in the said contract recited structurally stable workmanship, finishing and use of soundmaterials.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable and guaranteed against faulty workmanship, finishing, manufacturing defects of materials and leakages, etc.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable after expiry of maintenance period prescribed in the contract for the minimum life of 02 (Two) year to be reckoned from the date after the expiry of maintenance period prescribed in the contract. The decision of the Engineer-in-charge with regard to nature and cause of defect shall befinal.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in- charge calling upon him to rectify, the defects falling which the wsork shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer-in-charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects, commits breach thereafter, then the guarantor will indemnify the principal and his successors against all loss, damage, cost expenses or otherwise which may be incurred by him by reasons of any default on the part of the GUARANTOR in performance and observance of the supplementary agreement. As to the amount of loss and/or damages and or cost incurred by the Nigam, decision of the Engineer-in-charge will be final and binding on both theparties.

IN WITNESS WHEREOF these presents, have been executed by theobligator and by for and on behalf of the UPRNN on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of:

1.....

2.....

SIGNED FOR AND ON BEHALF OF THE UPRNN BY
..... in the presence of : 1

.....

2

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश चम
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



**TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF
WOODEN FLOORS, TRACK & OTHER WOOD WORKS**

(On Rs. 100/- stamp paper)

The agreement made this _____ day of _____ Two Thousand and between _____ son of _____

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated _____ and made between the GUARANTOR OF THE ONE PART AND the Nigam of the other part, whereby the contractor inter alia, undertook to render the work in the said contract recited structurally stable, termite proof, water & fire resistant, leak proof and sound material & workmanship, fixing & finishing.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain structurally stable, termite proof, water & fire resistant and guaranteed against faulty material and workmanship, defective fixing and finishing for 10 (Ten) years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable, termite proof, water & fire resistant, leak proof and guaranteed against faulty material and workmanship, defective fixing and finishing for ten years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

The decision of the Engineer-in-charge with regard to nature and cause of defects shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's risk and cost. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects or commits breach thereunder, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Nigam, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents, have been executed by the obligator

_____ and _____ by _____ for and on behalf of the UPRNN on the day, month and year first above written.

Signed, sealed and delivered by OBLIGATOR in the presence of: 1.

2. _____

SIGNED FOR AND ON BEHALF OF THE UPRNN BY _____

_____ in the presence of:

1. _____

2. _____

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ROOFING WORKS

(On Rs. 100/- stamp paper)

The agreement made this _____ day of _____ Two Thousand and _____ between _____

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated _____ and made between the GUARANTOR OF THE ONE PART AND the Nigam of the other part, whereby the contractor inter alia, undertook to render the work in the said contract recited structurally stable, leak proof, rust proof, proper jointing, Acoustics, moisture control colouring, and finishing and sound material & workmanship

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain structurally stable, leak proof, rust proof, proper jointing, Acoustics, moisture control colouring, and finishing and guaranteed against faulty material and workmanship for 15 (Fifteen) years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable, leak proof, rust proof, proper jointing, Acoustics, moisture control colouring, and finishing and guaranteed against faulty material and workmanship for fifteen years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

The decision of the Engineer-in-charge with regard to nature and cause of defects shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's risk and cost. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects or commits breach thereunder, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Nigam, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents, have been executed by the obligator

_____ and _____ by _____ for and

on behalf of the UPRNN on the day, month and year first above written.

Signed, sealed and delivered by OBLIGATOR in the presence of: 1.

2. _____

SIGNED FOR AND ON BEHALF OF THE UPRNN BY _____

_____ in the presence of:

1. _____

2. _____

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



**TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF
STONE WORKS**

(On Rs. 100/- stamp paper)

The agreement made this _____ day of _____ Two Thousand and _____ between _____ son of _____ (hereinafter called the GURANTOR of the one part) and the UPRNN (hereinafter called the Nigam of the other part.)

WHEREAS THIS agreement is supplementary to a contract (Hereinafter called the Contract) dated _____ and made between the GUARANTOR OF THE ONE PART AND the Nigam of the other part, whereby the contractor inter alia, undertook to render the work in the said contract recited, sound material & workmanship including variation in stone, cracks etc , proper jointing, laying etc.

AND WHEREAS THE GURANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable, properly finished, and guaranteed against faulty material and workmanship for 5 (Five) years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable, properly finished, and guaranteed against faulty material and workmanship for five years to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

The decision of the Engineer-in-charge with regard to nature and cause of defects shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer-in-charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's risk and cost. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects or commits breach thereunder, then the guarantor will indemnify the principal and his successor against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Nigam, the decision of the Engineer-in-charge will be final and binding on both the parties.

IN WITNESS WHEREOF these presents, have been executed by the obligator _____ and _____ by _____ for and on behalf of the UPRNN on the day, month and year first above written.

Signed, sealed and delivered by OBLIGATOR in the presence of:

1. _____
2. _____

SIGNED FOR AND ON BEHALF OF THE UPRNN BY _____ in the presence of :

1. _____
2. _____

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



**Project Manager, U.P. Rajkiya Nirman Nigam Ltd., High Court Electrical Unit,
, Lucknow-226010-(U.P.)
(Undertaking by OEMs/Bidders)**

**Declaration Regarding Blacklisting/Non-Blacklisting by any
Central Govt./State Govt./ PSUs/Organization**

(To be submitted on Rs. 100/- Non-Judicial Stamp paper duly notarized)

I/We, Proprietor/Partner(s)/Directors(s) of M/s
.....hereby declare that
the Firm/Company/namely M/s
..... has not been blacklisted or debarred in the past by
Central Government Department or any State Government/PSUs /Organization from taking
part in Government tenders and supplies.

Or

I/We, Proprietor/Partner(s)/Directors(s) of M/s
..... hereby declare that the Firm/Company/
namely M/s
was blacklisted or debarred by
(Government Department) from taking part in Government tenders for a period of
years w.e.f. The period is over onand now the
firm/company is entitled to take part in Government tenders and supplies.

In case above information is found false I/We are fully aware that the tender contract
will be rejected/cancelled by the **Project Manager, U.P. Rajkiya Nirman Nigam Ltd., High
Court Electrical Unit, Lucknow-226010** and our EMD/PBG shall be forfeited. In addition to
above the **Project Manager, U.P. Rajkiya Nirman Nigam Ltd., High Court Electrical Unit,
Lucknow-226010** will not be responsible to pay any bill for any completed/partially
completed work on account of reasons.

Signature of Bidder:.....

Name:.....

Seal:.....

सुरेन्द्र मोहन
लेखाकार
0 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**PAYMENT TERMS OF TENDER**

S.N.	STAGE OF WORK	RECOMMEND PAYMENT (%)
1	After initial inspection (wherever specified) and delivery at site in good condition on pro-rata basis.	65%
2	On completion of installation.	20%
3	On testing, commissioning trial run NOC from statutory authority (if required) Handing Over to the beneficial department against submission of Performance Bank Guarantee for Months.	15%

सुरेन्द्र मोहन
लेखाकार
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

रवि प्रकाश वर्मा
सहायक अभियंता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट, लखनऊ

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

**NAME OF WORK:- SMOKE EXTRACTION SYSTEM, PRESSURIZATION SYSTEM & FIRE
CHECK DOOR IN LIBRARY AUDITORIUM & PMSSY BUILDING AT S.G.P.G.I.M.S.
LUCKNOW, U.P.**

ABSTRACT OF TENDER COST


(Rs. in Lacs)


Sr. No.	DESCRIPTION OF ITEM.	Tender Cost
1	Total Cost of BOQ- A (PMSSY Block)	614.90
2	Total Cost of BOQ- B (LIBRARY AUDITORIUM Block)	835.67
3	Total Cost of BOQ- C (Compartmentation of AHU)	24.24
4	Total Cost of BOQ- D (Provision for Automatic Power supply cutting System)	32.63
5	Total Cost of BOQ- E (Diesel Generator set with prime rating capacity of 800 kVA)	72.87
6	Total Cost of BOQ- F (Diesel Generator set with prime rating capacity of 625 kVA)	54.67
	TOTAL COST OF PROJECT	1634.98

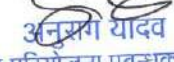
* Note- GST Extra


सुरेन्द्र मोहन

सहायक लेखाधिकारी स्तर-II
30 प्र0 राजकीय निर्माण निगम लि0
हाईकोर्ट विद्युत इकाई, लखनऊ


रishi वर्मा
सहायक अभियन्ता (वि0)
30 प्र0 राजकीय निर्माण निगम लि0
विद्युत इकाई हाईकोर्ट
लखनऊ।


इफतेखार अली
स्थानिक अभियन्ता (वि0)
30 प्र0 राजकीय निर्माण निगम लि0
हाईकोर्ट विद्युत इकाई, लखनऊ


अनुराग यादव
अपर परियोजना प्रबन्धक (वि0)
30 प्र0 राजकीय निर्माण निगम लि0
हाईकोर्ट विद्युत इकाई, लखनऊ

Bill of Quantity of A (PMSSY Block)

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
1	Tube Axial Flow Fans For Smoke Exhaust				
	Supply, Installation, Testing & Commissioning of Tube Axial Fan With Impeller Having adjustable pitch angle blades and Complete with suitable motor & drive assembly. Motor shall also complete with suitable motor & drives & shall be high efficiency Class EFF 1, Motor shall be suitable for 415±10%V. 3 Phase, 4 Wire 50± 3% Hz. electrical suppl, Fans shall be AMCA certified. the Price shall Included all accessoriess & all necessary vibration Isolation system, fire rated flexiable canvass Connections, Mountings frames, Hangers, Supports, Nut & Bolts etc.				
	The Complete Fan assembly alongwith the motor & Drive assembly shall be fire Rated i.e, suitable to operate upto 250 C for 2 hours and meet the duty parameters. The fan duty shall be :				
	Fan to have saftey Wire mesh screen on any Exposed Face.				
	Air Qty. : 4500 CFM				
	Total Static Pressure : 25 mm wg				
	Fan Dia : 400 mm approx.				
	Fan duty : Smoke Exhaust				
	Fan as decribed above.	Nos.	4	98,325.00	3,93,300.00
	Air Qty. : 19000 CFM				
	Total Static Pressure : 25 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 7.5 HP approx.				
	Fan Dia : 1000 mm approx.				
	Fan duty : Smoke Exhaust				
	Fan as decribed above.	Nos.	40	1,89,810.00	75,92,400.00
2	Tube Axial Flow Fans For Smoke Fresh Air				
	Supply, Installation, Testing & Commissioning of Tube Axial Fan With Impeller Having adjustable pitch angle blades and Complete with suitable motor & drive assembly. Motor shall also complete with suitable motor & drives & shall be high efficiency Class EFF 1, Motor shall be suitable for 415±10% V. 3 Phase, 4 Wire 50± 3% Hz. electrical suppl, Fans shall be AMCA certified. the Price shall Included all accessoriess & all necessary vibration Isolation system, fire rated flexiable canvass Connections, Mountings frames, Hangers, Supports, Nut & Bolts etc.				
	Fan to have saftey Wire mesh screen on any Exposed Face.				
	Air Qty. : 4500 CFM				
	Total Static Pressure : 50 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 5.0 HP approx.				
	Fan Dia : 400 mm approx.				
	Fan duty : Smoke Fresh Air				
	Fan as decribed above.	Nos.	4	89,775.00	3,59,100.00
	Air Qty. : 19000 CFM				
	Total Static Pressure : 25 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 7.5 HP approx.				
	Fan Dia : 1000 mm approx.				
	Fan duty : Smoke Fresh Air				
	Fan as decribed above.	Nos.	40	1,76,472.00	70,58,880.00
3	Tube Axial Flow Fans for Pressurization				
	Supply, Installation, Testing & Commissioning of Tube Axial Fan With Impeller Having adjustable pitch angle blades and Complete with suitable motor & drive assembly. Motor shall also complete with suitable motor & drives & shall be high efficiency Class EF shall be high efficiency Class EF 1, Motor shall be suitable for 415±10% V. 3 Phase, 4 Wire 50 ± 3 % Hz. electrical supply.				
	Fans shall be AMCA certified. the Price shall Included all accessoriess & all necessary vibration Isolation system, fire rated flexiable canvass Connections, Mountings frames, Hangers, Supports, Nut & Bolts etc.				

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

इफतेखार अली

स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊउ० प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।सहायक लेखाधिकारी स्तर- II
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	Stair Case Pressurization				
	Air Qty. : 19000 CFM				
	Total Static Pressure : 30 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 7.5 HP approx.				
	Fan Dia : 900 mm approx.				
	Fan duty : Pressurization				
	Fan as decribed above.	Nos.	5	1,76,472.00	8,82,360.00
	Ramp Pressurization				
	Air Qty. : 19000 CFM				
	Total Static Pressure : 30 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 7.5 HP approx.				
	Fan Dia : 900 mm approx.				
	Fan duty : Pressurization				
	Fan as decribed above.	Nos.	1	1,76,472.00	1,76,472.00
	Lift well Pressurization				
	Air Qty. : 12000 CFM				
	Total Static Pressure : 30 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 5.0 HP approx.				
	Fan Dia : 700 mm approx.				
	Fan duty : Pressurization				
	Fan as decribed above.	Nos.	6	1,45,692.00	8,74,152.00
	Lift Lobby Pressurization				
	Air Qty. : 12000 CFM				
	Total Static Pressure : 30 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 5.0 HP approx.				
	Fan Dia : 700 mm approx.				
	Fan duty : Pressurization				
	Fan as decribed above.	Nos.	2	1,45,692.00	2,91,384.00
	DUCTING, GRILLS, DIFFUSER				
4	Supply, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				
2.2.3	20 Gauge Galvanized sheet steel (1.0 mm)	Sqm	#####	1,287.80	21,31,954.32
2.2.4	18 Gauge Galvanized sheet steel (1.25 mm)	Sqm	982	1,435.30	14,09,460.82
5	Supplying, Fixing,testing and commissioning of fire dampers in supply air duct/ main branch and return air path as and where required of required sizes i/c control wiring, the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted. The damper shall also be closed in the event of fire signal complete as required and as per specifications.				
	Fire Damper	Sqm	130.05	7,900.04	10,27,400.53
	Actuator	Nos.	204.00	7,393.55	15,08,284.05
	ELECTRICAL WORKS				
6	Supply, installation, testing and commissioning of following distribution boards totally enclosed compartmentalized, cubicle floor mounted, indoor type IP: 42, factory fabricated with 2 mm thick sheet steel, with Aluminium bus bars (both for main and neutral bus bars), complete with following switchgear/ mounting cable terminations, inter-connections as required, for 415 volts, 3phase, 4 wire 50Hz AC supply suitable for 35 MVA rupturing capacity as per specifications and drawings.				
	160Amp 4 P MCCB - 1 No.				
	0-150A Ammeter with Ammeter selector switch and 3 Nos. 150/5 C, T.S- 1 Set				
	0-500V Voltmeter with Voltmeter selector switch and control fuses- 1 Set				
	ON/OFF/TRIP Indicating Lights with control fuses-1 Set				

अनुराज यादव

अपर परियोजना प्रबन्धक (वि०)
 30 प्र० राजकीय निर्माण निगम लि०
 हाईकोर्ट विद्युत इकाई, लखनऊ

स्थानिक अभियन्ता (वि०)
 30 प्र० राजकीय निर्माण निगम लि०
 हाईकोर्ट विद्युत इकाई, लखनऊ

सहाय अभियन्ता (वि०)
 30 प्र० राजकीय निर्माण निगम लि०
 विद्युत इकाई हाईकोर्ट
 लखनऊ।

सुपेन्ड्रेड लेखाधिकारी स्तर १।
 30 राजकीय निर्माण निगम लि०
 हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	ON/OFF push button with control fuses - 1 set				
	Auto/ Manual Selector Switch 1 Set				
	R, Y, B phase indicating light with control fuses - 1 set				
	Bus Bar- 150A, 415V, 3 phase, 4 wire Aluminium busbar.				
	Outgoing				
	Star Delta Starter 4 Nos for 7.5 HP Motor with overload relay, contactor, and necessary control wiring, 3 Nos. SP MCB 32 Amp.	Set	26	2,61,250.00	67,92,500.00
7	Supplying & laying of 2x1.5 sqmm fire survival armoured cable, 600/ 1000V rated with annealed copper conductor having glass mica fire barrier tape covered by an extruded layer of Cross Linkable Ethylene Propylene Rubber (EPR) insulation and LSZH inner bedding, steel wire armouring & LSZH outer sheath complete as required.				
	2 C X 1.5 Sq. mm Copper Cable.	Mtr.	13958	268.55	37,48,459.21
8	Supply of following sizes of PVC insulated Copper Armoured Control Cable, Stranded Annealed Bare Copper Conductor/ 950°Mica Tape Wrapped/ Cross Linkable Zero Halogen Insulation/ Cores Laid up together/ Zero Halogen Inner Sheathed/ GI Wire Strip Armoured/ Zero Halogen Outer sheathed Fire Survival Cables conforming to relevant IS code and technical specifications.				
	3 C X 6 Sq. mm Copper Cable.	Mtr.	350	785.65	2,74,977.50
	3 C X 10 Sq. mm Copper Cable.	Mtr.	270	1,121.00	3,02,670.00
	3 C X 16 Sq. mm Copper Cable.	Mtr.	3350	1,498.15	50,18,802.50
	3-1/2 C X 95 Sq. mm Copper Cable.	Mtr.	510	8,281.15	42,23,386.50
9	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
	Upto 35 sq. mm (clamped with 1mm thick saddle)	Mtr.	4480	44.53	1,99,480.42
10	Supply and Laying of Aluminium Conductor PVC insulated armoured served sheathed cables 1100V grade on wall surface as directed by Engineer in Charge complete in all respect including excavation and refilling. The armouring of the cable shall be properly connected with the earth conductor by clamps etc.				
	240 Sqmm x 3-1/2 Core	Mtr.	750	1,649.20	12,36,900.00
	300 Sqmm x 3-1/2 Core	Mtr.	470	1,982.65	9,31,845.50
11	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
11.1	3½ X 300 sq. mm (70mm)	Each	24	929.50	22,307.97
11.1	3½ X 240 sq. mm (62mm)	Each	12	807.05	9,684.60
11.1	3½ X 95 sq. mm (45mm)	Each	50	475.88	23,794.05
11.1	3 X 16 sq. mm (25mm)	Each	332	226.81	75,300.52
11.1	3 X 10 sq. mm (22mm)	Each	56	217.07	12,155.84
12	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.				
	100 mm width X 50 mm depth X 1.6 mm thickness	Mtr.	500	524.58	2,62,291.15
	150 mm width X 50 mm depth X 1.6 mm thickness	Mtr.	400	558.67	2,23,469.28
	225 mm width X 50 mm depth X 1.6 mm thickness	Mtr.	400	689.47	2,75,788.36
	300 mm width X 50 mm depth X 1.6 mm thickness	Mtr.	50	738.87	36,943.40
13	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	Mtr.	2537	43.14	1,09,434.55
14	Opening Wall for Fresh Air Fan & Finishing the Same.	Each	102	12,397.50	12,64,545.00
15	Making & Arrangement for Scaffolding around the building for repairing the wall and fixing grill etc.	LS	1	6,17,500.00	6,17,500.00
16	Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entreis Electrical control panel with TPN MCCB's (Four Pole 36 KA with thermal magnatic release)Switches Complete and instrument chamber etc. complete in all respects. The instrument chamber shall be separate and shall comprise of flush type digital metering system for phase to phase voltage and single phase voltage, current and other parameters(KVA,P.F,KW etc) in each phase with touch type selector switches for different readings, instrument fuses, current transformer etc.				

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

राय अमिता वमा
सहाय अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

सुरेन्द्र मोहन
प्रहायक लेखाधिकारी स्तर- II
उ० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	The panel board shall have suitable capacity electrolytic aluminium busbars as per IS8623 or above insulated with heat shrink sleeving and mounted on non hygroscopic supports such as CMC/BMC support with detachable side covers and shall be suitable for extension on the sides. The MCCB's shall be complete with suitable cable end boxes, compression glands and indicating lamp on incoming etc. The Job includes the grounding of the board as per directions of Engineer-in charge. All out goings of 100 Amp and above shall have an Ammeter. The panel board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm. Cubicle type switch board shall be of cat A & B Only. Incoming - 1200 Amp /415Volt ACB- 01 No Outgoing- 250Amp MCCB 08 Nos.	Each	1	5,93,750.00	5,93,750.00
17	Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entreis Electrical control panel with TPN MCCB's (Four Pole 36 KA with thermal magnatic release)Switches Complete and instrument chamber etc. complete in all respects. The instrument chamber shall be separate and shall comprise of flush type digital metering system for phase to phase voltage and single phase voltage, current and other parameters(KVA,P.F,KW etc) in each phase with touch type selector switches for different readings, instrument fuses, current transformer etc. The panel board shall have suitable capacity electrolytic aluminium busbars as per IS8623 or above insulated with heat shrink sleeving and mounted on non hygroscopic supports such as CMC/BMC support with detachable side covers and shall be suitable for extension on the sides. The MCCB's shall be complete with suitable cable end boxes, compression glands and indicating lamp on incoming etc. The Job includes the grounding of the board as per directions of Engineer-in charge. All out goings of 100 Amp and above shall have an Ammeter. The panel board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm. Cubicle type switch board shall be of cat A & B Only.				
	Incoming - 250 Amp /415Volt MCCB- 1 No Outgoing- 160Amp. MCCB 05 Nos. & 63Amp. MCCB 04 Nos.	Each	7	1,85,250.00	12,96,750.00
18	Supply and burring of Safe Earthing Electrode T-39 Cu Copper Coated, Length up to 3000mm, outer pipe 76.3mm x 3.2 inner pipe 42.4mm x 2.6mm, terminal Dia 12mm, coating 80-100 micron filled with crystalline conductive mixture (CCM) having anti corrosive & conductive property with 50 kgs activated soil (BFC) capable of reducing the soil resistivity with good mixture of retaining capacity along with 30 cm square C.I. frame with hinged cover & masonry housing. (From electrode terminal to switch board, cost of 25 x 3 Copper Strip will be extra). Make: As approved in UPPWD, & CPRI Certified.	Each	8	18,596.25	1,48,770.00
19	Dismantling aluminium/Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	Sqm.	200	42.29	8,457.63
20	Providing & fixing false ceiling at all heights with GRG (Glass Fibre Reinforced Gypsum) false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC0.50 to 0.75 as per IS 8225:1987, Non combustible as per BS 476 (part 4)-1970 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15x32 mm of length 3000 mm, cross - T of size 15x32 mm of length 1200 mm and secondary intermediate cross-T of size 15x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40mm of length 3000 mm to be fixed on periphery wall/partition with the help of plastic rawl plugs at 450mm center to center and 40 mm long dry wall wood screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.				
26.2	With semi perforated 12 mm thick micro tegular edged GRG false ceiling tiles.	Sqm.	200	1,389.88	2,77,976.26

अनुमति यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

सुरेन्द्र मोहन
सहायक लेखाधिकारी
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि शंकर वर्मा
सहा० अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
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Sr. No.	Item Description	Unit	Qty.	Rate	Amount
21	S/F Fire Rated steel door sets (fire rating upto 120 mins) frame profile 100x57 mm.1.2 & 0.8, Leaf thickness 46mm. Door finish powder coated infill material craft paper honeycomp powder coated with 45 to 50 microne DFT and passed 500 hours salt sprate us 1 complete with door closer, door coordinator, motise dead lock with epc, D-Type handle fire rated glass 6mm. (200x300mm.) with gaskit. hardware make Hormann or equivalent and all hardware are fire rated stamped complete as per the requirement of site and direction of Engineer incharge. (Size 60x2.40x1.20)	per Sqm.	172.8	21,470.00	37,10,016.00
22	Dismantalling of Old doors and stacking Other place and repairing the same.	per Pc.	60	2,565.00	1,53,900.00
23	Supplying, installation, testing & commissioning of addressable fire control module complete as required. (40+4+5+6+2+1)	Set	58	2,195.73	1,27,352.44
24	Supply, installtion and testing of Powder coated Aluminium extruded Fresh/ Exhaust air louvers with bird screen complete with Frame & necessary civil work for fixing.	Sqm	102	9,975.00	10,17,450.00
25	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)				
	6 way , Double door	Each	14	1,662.80	23,279.21
26	Supplying and fixing 5A to 32A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	Single pole	Each	84	198.28	16,655.84
	Double	Each	14	484.23	6,779.22
27	LED Down lighter (COB Type) (System lumen efficacy $\geq 105 < 120$lm/Watt) Supplying, installation, Testing & Commissioning of 22 watt LED Recessed/ surface Down lighter (Round/ square/ Rectangular) COB Type of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $>85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD $< 10\%$, P. F. ≥ 0.95 , IP20, CRI >80 , UGR (Unified Glare Rating) < 19 , Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3 , Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5sqmm FRLS/ HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty.				
	System lumen efficacy ≥ 105 and <120 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) Powder coated die cast /Extruded aluminium Body including trim with Aluminium Reflector	Each	120	925.32	1,11,038.91
	Fire Supression System				
28	Supply Instalation Testing and commissioning of 2 KG Standalone Compact automatic Linear pneumatic heat detection tube fire suppression system. Cylinder filled with FK 5-1-12 gas (UL Listed) with DLP valve, Nickel Plated Brass, with integrated ball valve and integrated position control for ball valve.	Nos.	20	36,166.50	7,23,330.00
29	Supply Instalation Testing and commissioning of Security heat detection tube for automatic fire detection and suppression system made by special modified Polyamide (PA)-UL APPROVED	Mtr.	950	884.93	8,40,678.75
30	Supply Instalation Testing and commissioning of End of Line adapter with Pressure gauge with NRV for Automatic fire suppression tube used for fitting at the end of the tube for pressurizing and re pressurizing the tube includes check Valve, Pressure Gauge and fitting to connect to sensor tubing.	Nos.	20	3,612.38	72,247.50
	Supply Instalation Testing and commissioning of Pressure Switch to monitor Pressure in the tube, Normally Open, Suitable to fit in the cylinder point and capable to provide instant signal to master control unit.	Nos.	20	3,161.40	62,928.00

सुप्रीम कोर्ट
सहायक लेखाधिकारी स्तर-II
प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

सहा० अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परीक्षीक प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
32	Supply Instalation Testing and commissioning of End of Line Plug for Automatic fire suppression tube used for fitting at the tube end to terminate the point	Nos.	20	884.93	17,698.50
33	Supply Instalation Testing and commissioning of T Connection, Brass, Nickel plated, for 4x6 mm Sensor Tube, quick and easy disassembly using special tool, working pressure 15 bars at 15 Deg Temperature, temperature range- 40 Deg C till + 80 Deg C, Elastomeric Sealings, External Diameter Tube 6mm.	Nos.	20	983.25	19,665.00
34	Supply Instalation Testing and commissioning of Audio visual master control unit with hooter cum flasher Panel shall have integration relays for fire and fault for 3rd party integrations, facility for smoke detection and volt free relays for monitoring purpose.	Nos.	10	7,353.00	73,530.00
	Signage				
35	Supply of PROLITE Emergency Exit Light PEL LED E/M (S).	Nos.	84	5,533.75	4,64,835.00
36	Supply of Autoglo Photoluminescent Signages, Tape & Plan Rigid Sheet. Fire Evacuation Plan. (Size- A2 420 x 594)	Nos.	28	9,139.00	2,55,892.00
	PUBLIC ADDRESS SYSTEM				
37	Supplying, installation, testing & commissioning of 6 zone, voice alarm controller with USB, MP3 player (including 6 zone button paging station) with seamless integration facility with main fire alarm panel for voice evacuation complete as required.	Each	2	91,916.70	1,83,833.40
38	Supplying, installation, testing & commissioning of 1.5/3/6W ceiling speaker complete as required.	Each	200	713.13	1,42,625.16
39	Supplying, installation, testing & commissioning of ceiling/wall mounted loud speaker, 3/1.5 Watt in ABS enclosure complete as required.	Each	10	1,777.60	17,775.97
40	Supplying, installation, testing & commissioning of digital audio amplifier 75Watt, 25V rms operating at 240 Volt AC Supply complete as required.	Each	10	1,06,007.37	10,60,073.70
41	Supplying, installation, testing & commissioning of Voice command keypad 6 zone, with microphone assembly complete as required.	Each	2	59,450.34	1,18,900.68
42	Supply, Installation, Testing & Commissioning of 42 U floor mount rack with fans, 2 cable managers, satationary shelf, 2 Nos. of hardware pkts.	Each	1	61,750.00	61,750.00
43	Supplying, installation, testing & commissioning of main control and indicating panel made out of 16 SWG MS sheet to accommodate the following items duly powder coated in approved colour with louvers for ventilation, locking arrangement, audio and visual indication for fire alarm and public address system, monitoring system including connections, interconnections etc complete as required. 10 Zone panel for fire alarm system 250 Watt amplifier racks suitable for operation on 230V AC/24V DC supply conforming to IEC-268-3 complete with all accessories as required - 2 Nos.(one to act as standby) Talk back master station with LED PTT (press to talk) push button for operation on 230V AC/24 V DC supply conforming to IEC-268 for simplex mode of operation/ communication suitable for 20 Nos.talk back unit -1 set. Annoucement control desk suitable for selection of different zones selectively and ON ALL CALL switch with visual indication etc. complete as required -1 set.				
	Amplifier change over switch for inter changing amplifier -1 No. Monitor panel for loudspeaker complete with output selector, ON/ OFF switch, fuse, visual indications etc. complete as required- 1 No. Gooseneck microphone with stand and ON/OFF switch- 1 No. Main ON/OFF switch, fuse indication lamps, DC and AC voltmeters & ammeters, terminal blocks etc. complete as required -1 set. Battery charger trickle cum boost to take complete load of fire alarm & PA system complete with all accessories including providing & fixing of 2 nos.12 volt, 60 AH each sealed maintenance free batteries -1 set. Required 1 number for each block	Each	1	52,413.70	52,413.70
	CABLING & WIRING				
44	Supplying and drawing of cable Fire Retardant PVC insulated copper conductor cable in the existing surface / recessed steel conduit of following pairs, cores and size including connections and interconnections etc. as required.				
28.5	speaker cable Two pair, 2-core, 1.5 sqmm	Mtr	3600	67.49	3,37,430.26
45	Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.	Mtr	3000	41.74	1,25,231.85
	Total				6,14,90,399.05
	Says in Lacs				614.90

सहायक लेखाधिकारी स्तर-11
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

सहायक लेखाधिकारी स्तर-11
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Bill of Quantity of B (LIBRARY & AUDITORIUM BLOCK)

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
1	Tube Axial Flow Fans For Smoke Exhaust				
	Supply, Installation, Testing & Commissioning of Tube Axial Fan With Impeller Having adjustable pitch angle blades and Complete with suitable motor & drive assembly. Motor shall also complete with suitable motor & drives & shall be high efficiency Class EFF 1, Motor shall be suitable for $415 \pm 10\%$ V. 3 Phase, 4 Wire $50 \pm 3\%$ Hz. electrical suppl, Fans shall be AMCA certified. the Price shall Included all accessoriess & all necessary vibration Isolation system, fire rated flexiable canvass Connections, Mountings frames, Hangers, Supports, Nut & Bolts etc.				
	The Complete Fan assembly alongwith the motor & Drive assembly shall be fire Rated i.e, suitable to operate upto 250 C for 2 hours and meet the duty parameters. The fan duty shall be :				
	Fan to have saftey Wire mesh screen on any Exposed Face.				
	Air Qty. : 19000 CFM				
	Total Static Pressure : 25 mm wg				
	Fan Dia : 1000 mm approx.				
	Fan duty : Smoke Exhaust				
	Fan as decribed above.	No.	30	1,89,810.00	56,94,300.00
	Air Qty. : 14000 CFM				
	Total Static Pressure : 25 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 5.0 HP approx.				
	Fan Dia : 700 mm approx.				
	Fan duty : Smoke Exhaust				
	Fan as decribed above.	No.	8	1,55,952.00	12,47,616.00
	Air Qty. : 7000 CFM				
	Total Static Pressure : 25 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 3.0 HP approx.				
	Fan Dia : 500 mm approx.				
	Fan duty : Smoke Exhaust				
	Fan as decribed above.	No.	4	1,41,588.00	5,66,352.00
2	Tube Axial Flow Fans For Smoke Fresh Air				
	Supply, Installation, Testing & Commissioning of Tube Axial Fan With Impeller Having adjustable pitch angle blades and Complete with suitable motor & drive assembly. Motor shall also complete with suitable motor & drives & shall be high efficiency Class EFF 1, Motor shall be suitable for $415 \pm 10\%$ V. 3 Phase, 4 Wire $50 \pm 3\%$ Hz. electrical suppl, Fans shall be AMCA certified. the Price shall Included all accessoriess & all necessary vibration Isolation system, fire rated flexiable canvass Connections, Mountings frames, Hangers, Supports, Nut & Bolts etc.				
	Fan to have saftey Wire mesh'screen on any Exposed Face.				
	Air Qty. : 19000 CFM				
	Total Static Pressure : 25 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 7.5 HP approx.				
	Fan Dia : 1000 mm approx.				
	Fan duty : Smoke Fresh Air				
	Fan as decribed above.	No.	30	1,76,472.00	52,94,160.00
	Air Qty. : 14000 CFM				
	Total Static Pressure : 25 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 5.0 HP approx.				
	Fan Dia : 700 mm approx.				
	Fan duty : Smoke Fresh Air				
	Fan as decribed above.	No.	8	1,48,770.00	11,90,160.00
	Air Qty. : 7000 CFM				

सहायक लेखनीयता (वि०)
 ३० प्र० राजकीय निर्माण निगम लि०
 हाईकोर्ट विद्युत इकाई, लखनऊ।

सुरेश मोहन
 सहायक लेखनीयता (वि०)
 ३० प्र० राजकीय निर्माण निगम लि०
 हाईकोर्ट विद्युत इकाई, लखनऊ।

इमतेआर अली
 सहायक लेखनीयता (वि०)
 ३० प्र० राजकीय निर्माण निगम लि०
 हाईकोर्ट विद्युत इकाई, लखनऊ।

अनुराग यादव
 सहायक लेखनीयता (वि०)
 ३० प्र० राजकीय निर्माण निगम लि०
 हाईकोर्ट विद्युत इकाई, लखनऊ।

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	Total Static Pressure : 25 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 3.0 HP approx.				
	Fan Dia : 500 mm approx.				
	Fan duty : Smoke Fresh Air				
	Fan as decribed above.	No.	4	1,35,432.00	5,41,728.00
3	Tube Axial Flow Fans for Pressuization				
	Supply, Installation, Testing & Commissioning of Tube Axial Fan With Impeller Having adjustable pitch angle blades & Complete with suitable motor & drive assembly. Motor shall also suitable for fixed speed drive & shall be high efficiency Class EF 1, Motor shall be suitable for 415± 10%V, 3 Phase, 4 Wire 50 ± 3% Hz. electrical supply. Fans shall be AMCA certified. the Price shall Included all accessoriess & all necessary vibration Isolation system, fire rated flexiable canvass Connections, Mountings frames, Hangers, Supports, Nut & Bolts etc.				
	Stair Case Pressurization				
	Air Qty. : 19000 CFM				
	Total Static Pressure : 30 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 7.5 HP approx.				
	Fan Dia : 900 mm approx.				
	Fan duty : Pressurization				
	Fan as decribed above.	Nos.	6	1,76,472.00	10,58,832.00
	Lift well Pressurization				
	Air Qty. : 12000 CFM				
	Total Static Pressure : 30 mm wg				
	Fan Speed : 1450 RPM				
	Fan Motor : 5.0 HP approx.				
	Fan Dia : 700 mm approx.				
	Fan duty : Pressurization				
	Fan as decribed above.	No.	10	1,45,692.00	14,56,920.00
	DUCTING, GRILLS, DIFFUSER				
4	Supply, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				
2.2.3	20 Gauge Galvanized sheet steel (1.0 mm)	Sqm	3061	1,287.80	39,41,958.42
2.2.4	18 Gauge Galvanized sheet steel (1.25 mm)	Sqm	2500.50	1,435.30	35,88,958.02
5	Supplying, Fixing,testing and commissioning of fire dampers in supply air duct/ main branch and return air path as and where required of required sizes i/c control wiring, the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted. The damper shall also be closed in the event of fire signal complete as required and as per specifications.				
	Fire Damper	Sqm	127.50	7,900.04	10,07,255.42
	Actuator	Nos.	200	7,393.55	14,78,709.86
	ELECTRICAL WORKS				
6	Supply, installation, testing and commissioning of following distribution boards totally enclosed compartmentalized, cubicle floor mounted, indoor type IP: 42, factory fabricated with 2 mm thick sheet steel, with Aluminium bus bars (both for main and neutral bus bars), complete with following switchgear/ mounting cable terminations, inter-connections as required, for 415 volts, 3phase, 4 wire 50Hz AC supply suitable for 35 MVA rupturing capacity as per specifications and drawings.				
	150Amp 4 P MCCB - 1 No.				
	0-150A Ammeter with Ammeter selector switch and 3 Nos. 150/5 C, T.S- 1 Set				
	0-500V Voltmeter with Voltmeter selector switch and control fuses-1 Set				
	ON/OFF/TRIP Indicating Lights with control fuses-1 Set				
	ON/OFF push button with control fuses - 1 set				
	Auto/ Manual Selector Switch 1 Set				

अनुसम धादव
अपर हरिजनस प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

इफतखार अली

स्थानिक अभियन्ता (वि०)

सहा० अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

सहायक लेखाधिकारी स्तर-II
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	R, Y, B phase indicating light with control fuses - 1 set				
	Bus Bar- 150A, 415V, 3 phase, 4 wire Aluminium busbar.				
	Outgoing				
	Star Delta Starter 4 Nos for 7.5 HP Motor with overload relay, contactor, and necessary control wiring, 3 Nos. SP MCB 32 Amp.	Set	28	2,61,250.00	73,15,000.00
7	Supplying & laying of 2x1.5 sqmm fire survival armoured cable, 600/1000V rated with annealed copper conductor having glass mica fire barrier tape covered by an extruded layer of Cross Linkable Ethylene Propylene Rubber (EPR) insulation and LSZH inner bedding, steel wire armouring & LSZH outer sheath complete as required.				
	2 C X 1.5 Sq. mm Copper Cable.	Mtr.	15485	268.55	41,58,539.26
8	Supply of following sizes of PVC insulated Copper Armoured Control Cable, Stranded Annealed Bare Copper Conductor/ 950°Mica Tape Wrapped/ Cross Linkable Zero Halogen Insulation/ Cores Laid up together/ Zero Halogen Inner Sheathed/ GI Wire Strip Armoured/ Zero Halogen Outer sheathed Fire Survival Cables conforming to relevant IS code and technical specifications.				
	3 C X 6 Sq. mm Copper Cable.	Mtr.	370	785.65	2,90,690.50
	3 C X 10 Sq. mm Copper Cable.	Mtr.	445	1,121.00	4,98,845.00
	3 C X 16 Sq. mm Copper Cable.	Mtr.	3230	1,498.15	48,39,024.50
	3-1/2 C X 70 Sq. mm Copper Cable.	Mtr.	830	6,314.65	52,41,159.50
	3-1/2 C X 95 Sq. mm Copper Cable.	Mtr.	890	8,281.15	73,70,223.50
9	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
	Upto 35 sq. mm (clamped with 1mm thick saddle)	Mtr.	5765	44.53	2,56,697.46
10	Supply and Laying of Aluminium Conductor PVC insulated armoured served sheathed cables 1100V grade on wall surface as directed by Engineer in Charge complete in all respect including excavation and refilling. The armouring of the cable shall be properly connected with the earth conductor by clamps etc.				
	185 Sqmm x 3-1/2 Core	Mtr.	1350	1,262.55	17,04,442.50
	240 Sqmm x 3-1/2 Core	Mtr.	400	1,649.20	6,59,680.00
	300 Sqmm x 3-1/2 Core	Mtr.	1550	1,982.65	30,73,107.50
11	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed /XLPE aluminium conductor cable of 1.1KV grade as required.				
11.1	3½ X 300 sq. mm (70mm)	Each	18	929.50	16,730.98
11.1	3½ X 240 sq. mm (62mm)	Each	2	807.05	1,614.10
11.1	3½ X 185 sq. mm (57mm)	Each	16	696.43	11,142.85
11.1	3½ X 95 sq. mm (45mm)	Each	8	475.88	3,807.05
11.1	3½ X 70 sq. mm (38mm)	Each	8	377.09	3,016.70
11.1	3 X 16 sq. mm (25mm)	Each	316	226.81	71,671.58
11.1	3 X 10 sq. mm (22mm)	Each	48	217.07	10,419.29
12	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.				
	100 mm width X 50 mm depth X 1.6 mm thickness	Mtr.	1500	524.58	7,86,873.46
	150 mm width X 50 mm depth X 1.6 mm thickness	Mtr.	1200	558.67	6,70,407.84
	225 mm width X 50 mm depth X 1.6 mm thickness	Mtr.	1200	689.47	8,27,365.09
	300 mm width X 50 mm depth X 1.6 mm thickness	Mtr.	300	738.87	2,21,660.37
13	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	Mtr.	3007	43.14	1,29,708.19
14	Opening Wall for Fresh Air Fan & Finishing the Same.	Each	100	12,397.50	12,39,750.00
15	Making & Arrangement for Scaffolding around the building for repairing the wall and fixing grill etc.	LS	2	6,17,500.00	12,35,000.00
16	Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entreis Electrical control panel with TPN MCCB's (Four Pole 36 KA with thermal magnatic release)Switches Complete and instrument chamber etc. complete in all respects. The instrument chamber shall be separate and shall comprise of flush type digital metering system for phase to phase voltage and single phase voltage, surge and other parameters(KVA,P.F,KW etc)				

उपप्र. राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

उपप्र. राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

उपप्र. राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना अधिक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	in each phase with touch type selector switches for different readings, instrument fuses, current transformer etc. The panel board shall have suitable capacity electrolytic aluminium busbars as per IS8623 or above insulated with heat shrink sleeving and mounted on non hygroscopic supports such as CMC/BMC support with detachable side covers and shall be suitable for extension on the sides. The MCCB's shall be complete with suitable cable end boxes, compression glands and indicating lamp on incoming etc. The Job includes the grounding of the board as per directions of Engineer-in charge. All outgoing of 100 Amp and above shall have an Ammeter. The panel board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm. Cubicle type switch board shall be of cat A & B Only. Incoming - 1000 Amp /415Volt ACB- 01 No Outgoing- 200Amp MCCB 08 Nos. & 250Amp MCCB 01 No.	Each	1	5,70,000.00	5,70,000.00
17	Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entreis Electrical control panel with TPN MCCB's (Four Pole 36 KA with thermal magnatic release)Switches Complete and instrument chamber etc. complete in all respects. The instrument chamber shall be separate and shall comprise of flush type digital metering system for phase to phase voltage and single phase voltage, current and other parameters(KVA,P.F,KW etc) in each phase with touch type selector switches for different readings, instrument fuses, current transformer etc. The panel board shall have suitable capacity electrolytic aluminium busbars as per IS8623 or above insulated with heat shrink sleeving and mounted on non hygroscopic supports such as CMC/BMC support with detachable side covers and shall be suitable for extension on the sides. The MCCB's shall be complete with suitable cable end boxes, compression glands and indicating lamp on incoming etc. The Job includes the grounding of the board as per directions of Engineer-in charge. All outgoing of 100 Amp and above shall have an Ammeter. The panel board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm. Cubicle type switch board shall be of cat A & B Only.				
	Incoming - 250/200Amp /415Volt MCCB- 1 No Outgoing- 150Amp. MCCB 05 Nos. & 63Amp. MCCB 04 Nos.	Each	9	1,94,750.00	17,52,750.00
18	Supply and burring of Safe Earthing Electrode T-39 Cu Copper Coated, Length up to 3000mm, outer pipe 76.3mm x 3.2 inner pipe 42.4mm x 2.6mm, terminal Dia 12mm, coating 80-100 micron filled with crystalline conductive mixture (CCM) having anti corrosive & conductive property with 50 kgs activated soil (BFC) capable of reducing the soil resistivity with good mixture of retaining capacity along with 30 cm square C.I. frame with hinged cover & masonry housing. (From electrode terminal to switch board, cost of 25 x 3 Copper Strip will be extra). Make: As approved in UPPWD, & C.P.R.I. Certified.	Each	8	18,596.25	1,48,770.00
19	Dismantling aluminium/Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	Sqm.	450	42.29	19,029.68
20	Providing & fixing false ceiling at all heights with GRG (Glass Fibre Reinforced Gypsum) false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC0.50 to 0.75 as per IS 8225:1987, Non combustible as per BS 476 (part 4)-1970 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15x32 mm of length 3000 mm, cross - T of size 15x32 mm of length 1200 mm and secondary intermediate cross-T of size 15x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40mm of length 3000 mm to be fixed on periphery wall/ partition with the help of plastic rawl plugs at 450mm center to center and 40 mm long dry wall wood screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.				
26.2	With semi perforated 12 mm thick micro regular edged GRG false ceiling tiles.	Sqm.	450	1,389.88	6,25,446.59

सुरेन्द्र मोहन
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

सुरेन्द्र मोहन
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुसूय यादव
अपर परियोजना प्रबंधक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
21	S/F Fire Rated steel door sets (fire rating upto 120 mins) frame profile 100x57 mm.1.2 & 0.8, Leaf thickness 46mm. Door finish powder coated infill material craft paper honeycomp powder coated with 45 to 50 microne DFT and passed 500 hours salt sprate us 1 complete with door closer, door coordinator, motise dead lock with epc, D-Type handle fire rated glass 6mm. (200x300mm.) with gaskit. hardware make Hormann or equivalent and all hardware are fire rated stamped complete as per the requirement of site and direction of Engineer incharge. (Size 52x2.40x1.20)	per Sqm.	149.76	21,470.00	32,15,347.20
22	Dismantalling of Old doors and stacking Other place and repairing the same.	per Pc.	52	2,565.00	1,33,380.00
23	Supplying, installation, testing & commissioning of addressable fire control module complete as required. (8+4+30+6+10)	Set	58	2,195.73	1,27,352.44
24	Supply, installtion and testing of Powder coated Aluminium extruded Fresh/ Exhaust air louvers with bird screen complete with Frame & necessary civil work for fixing.	Sqm	100	9,975.00	9,97,500.00
25	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)				
	6 way , Double door	Each	14	1,662.80	23,279.21
26	Supplying and fixing 5A to 32A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	Single pole	Each	84	198.28	16,655.84
	Double	Each	14	484.23	6,779.22
27	LED Down lighter (COB Type) (System lumen efficacy $\geq 105 < 120$lm/Watt) Supplying, installation, Testing & Commissioning of 22 watt LED Recessed/ surface Down lighter (Round/ square/ Rectangular) COB Type of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $>85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range - 5 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD $< 10\%$, P. F. ≥ 0.95 , IP20, CRI >80 , UGR (Unified Glare Rating) < 19 , Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K/ 4000°K/ 5700°K/ 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3 , Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5sqmm FRLS/ HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty.System lumen efficacy ≥ 105 and <120 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) Powder coated die cast /Extruded aluminium Body including trim with Aluminium Reflector	Each	150	925.32	1,38,798.63
Compartmentation of AHU					
28	Dismantling & Refixing of False ceiling during brick work & fixing board above fall ceiling including cost of runner & false ceiling panel (2x2) as required. Complete all respect as per direction by I/C.	sqm.	150.00	128.25	19,237.50
29	Providing & Fixing ACP panel 4mm thick fire resistance 2 hrs. rating, including cost of support aluminum section complete all respect.	sqm.	300	6,412.50	19,23,750.00
30	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
	Cement mortar 1:3 (1 cement :3 coarse sand)	sqm.	600	863.40	5,18,039.51
31	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.	sqm.	600	380.18	2,28,108.49

सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

राजेश कुमार वर्मा
सहा० अभियन्ता (वि०)
उ०प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफ्तेखार अली
स्थानिक अभियन्ता (वि०)
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुसम सादेव
अपर मॉडरेट प्रभु अधिक (वि०)
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	Fire Supression System				
32	Supply Instalation Testing and commissioning of 2 KG Standalone Compact automatic Linear pneumatic heat detection tube fire suppression system. Cylinder filled with FK 5-1-12 gas (UL Listed) with DLP valve, Nickel Plated Brass, with integrated ball valve and integrated position control for ball valve.	Nos.	60	36,166.50	21,69,990.00
33	Supply Instalation Testing and commissioning of Security heat detection tube for automatic fire detection and suppression system made by special modified Polyamide (PA)-UL APPROVED	Mtr.	2000	884.93	17,69,850.00
34	Supply Instalation Testing and commissioning of End of Line adapter with Pressure gauge with NRV for Automatic fire suppression tube used for fitting at the end of the tube for pressurizing and re pressurizing the tube includes check Valve, Pressure Gauge and fitting to connect to sensor tubing.	Nos.	60	3,612.38	2,16,742.50
35	Supply Instalation Testing and commissioning of Pressure Switch to monitor Pressure drop in the tube, Normally Open, Suitable to fit in the cylinder point and capable to provide instant signal to master control unit.	Nos.	60	3,146.40	1,88,784.00
36	Supply Instalation Testing and commissioning of End of Line Plug for Automatic fire suppression tube used for fitting at the tube end to terminate the point	Nos.	60	884.93	53,095.50
37	Supply Instalation Testing and commissioning of T Connection, Brass, Nickel plated, for 4x6 mm Sensor Tube, quick and easy disassembly using special tool, working pressure 15 bars at 15 Deg Temperature, temperature range- 40 Deg C till + 80 Deg C, Elastomeric Sealings, External Diameter Tube 6mm.	Nos.	60	983.25	58,995.00
38	Supply Instalation Testing and commissioning of Audio visual master control unit with hooter cum flasher Panel shall have integration relays for fire and fault for 3rd party integrations, facility for smoke detection and volt free relays for monitoring purpose.	Nos.	30	7,353.00	2,20,590.00
	Signage				
39	Supply of PROLITE Emergency Exit Light PEL LED E/M (S).	Nos.	84	5,533.75	4,64,835.00
40	Supply of Autoglo Photoluminescent Signages, Tape & Plan Rigid Sheet. Fire Evacuation Plan. (Size- A2 420 x 594)	Nos.	28	9,139.00	2,55,892.00
	Total				8,35,66,525.23
	Says in Lacs				835.67

सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर II
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि च वर्मा
सहा० अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

असुराम यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Bill of Quantity of C (Compartmentation of AHU- For PMSSY Block)

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
1	Dismantling & Refixing of False ceiling during brick work & fixing board above fall ceiling including cost of runner & false ceiling panel (2x2) as required. Complete all respect as per direction by I/C.	Sqm.	50.00	128.25	6,412.50
2	Providing & Fixing ACP panel 4mm thick fire resistance 2 hrs. rating, including cost of support aluminum section complete all respect.	Sqm.	276.75	6,412.50	17,74,659.38
3	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
	Cement mortar 1:3 (1 cement :3 coarse sand)	Sqm.	516.6	863.40	4,46,032.01
4	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.	Sqm.	516.6	380.18	1,96,401.41
	Total			7,784.33	24,23,505.30
	0				24.24

सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि शर्मा
सहा० अभियन्ता (वि०)
उ०प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ:

अनुराग यादव
आगरा पब्लिक वर्क्स एजेंसी लि०
वि०

Bill of Quantity of G (Provision for Automatic Power supply cutting system)**[PMSSY Block + LIBRARY & AUDITORIUM BLOCK]**

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
1	Supply installation testing and commissioning of lighting termination unit which will response against fire feedback having following items such as 1no. 63Amp FP MCCB, NO NC Contacts, Potential free contacts AC duty 3 contector unit alongwith on off indication lamp etc as required. Required at each DB incomer with fire panel feedback.	Each	118	13,157.50	15,52,585.00
2	SITC of SMPS near fire alarm panel for continuous power supply to control module.	Each	118	570.00	67,260.00
3	Supplying, installation, testing & commissioning of addressable fire control module complete as required.	Set	118	2,195.73	2,59,096.35
4	Supplying & laying of 2x1.5 sqmm fire survival armoured cable, 600/1000V rated with annealed copper conductor having glass mica fire barrier tape covered by an extruded layer of Cross Linkable Ethylene Propylene Rubber (EPR) insulation and LSZH inner bedding, steel wire armouring & LSZH outer sheath complete as required.	Mtr.	3470	268.55	9,31,878.03
5	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
0		Mtr.	200	565.63	1,13,126.10
		Mtr.	250	750.00	1,87,499.91
	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	Mtr.	150	1,011.60	1,51,739.26
	Total			18,519.01	32,63,184.65
	Says in Lacs				32.63

सुरेश मोहन
सहायक लेखाधिकारी स्तर-II
उपराजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि प्रकाश वर्मा
सहा० अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

अनुराग यादव
अपर परियोजना अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Bill of Quantity of E (PMSSY Block) Bought out Items

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	800 kVA Diesel Generator Set				
1	<p>Supply, installation, Testing & Commissioning of 800KVA 'Silent Type Diesel Generating set as per CPCB IV + or better norms along with having Prime Power Rating of KVA as below, 415volts at 1500RPM, 0.8 lagging power factor at 415V suitable for 50Hz, 3phase system & for 0.85 Load Factor, including testing at factory and site with fuel, load for test and other necessary arrangements Complete as per CPWD specifications, should have QR code which should contain drawing, test report OEM manual, Geo-Tag of manufacturing location, rating plate as per relevant IS Code etc. and consisting of the followings:</p> <p>(A) Diesel Engine: Tourbocharged Diesel engine 4 stroke water cooled, multi cylinder, dynamically balanced fly wheel, electric start of suitable BHP at 1500 RPM suitable for above output of alternator at 40 Degree C, 50% RH & at 1000 Meter MSL, capable of taking 10% over loading for one hour after 12 hours of continuous operation. The engine will be with Electronic governor, Dry type Air filter with service indicator, first filling of engine fuel (after commissioning) lubricating Oil, Coolant and other consumables complete with all the required accessories, the Electronic governor shall be as per ISO 8528. The engine shall comply to the latest CPCB norms (CPCB IV+or better) and Conforming to BS 5514, BS 649, IS 10000, IS 10002, IS 13018 and as per CPWD specifications.</p> <p>(B) Engine mounted Instrument Panel fitted with and having digital display for following:</p> <p>(i) Start-stop switch with key, (ii) Water temperature indication, (iii) Lubrication oil pressure indication, (iv) Lubrication oil temperature indication, (v) Battery charging indication and Voltage indication, (vi) RPM indication, (vii) Over speed indication, (viii) Low lubrication Oil trip indication, (ix) Engine Running Hours indication, (x) Fuel Level</p> <p>(C) Alternator: Synchronous alternator rated of appropriate KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 Degree C, 50% RH & at 1000 Meter MSL. The alternator shall be having Screen Protected Drip Proof (SPDP) enclosure IP23, brushless, continuous duty, dynamically balanced rotor, capable of taking 10% over loading for one hour after 12 hours of continuous operation, self cooled, self-excited and self-regulated through AVR conforming to IS13364(Part 2)/IS: 4722/BS 2613 suitable for tropical conditions and with class- H insulation.</p> <p>(D) Base Frame & Foundation: Both the engine and alternator shall be mounted on suitable base frame made of MS channel with necessary reinforcement which shall be installed on suitable cement concrete foundation and vibration isolation arrangement as per recommendations of manufacturer.</p> <p>(E) FUEL TANK: Daily service fuel tank of suitable liters capacity as per CPWD Specifications, fabricated out of 3 mm thick M.S. sheet complete with all standard accessories and fuel piping between fuel tank and diesel engine with MS class 'C' pipes of suitable dia. Complete with valves, level indications & accessories as required as per specifications.</p> <p>(F) Exhaust System: Dry exhaust manifold with hospital type exhaust silencer and catalytic convertor.</p> <p>(G) Starting System: 12V/24V DC starting system comprising of starter motors: voltage regulator and arrangement for initial excitation complete with suitable numbers of batteries (180 AH capacity lead acid SMF type) as required as per specifications. The battery shall be housed inside the acoustic enclosure of DG Set.</p> <p>(H) Acoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine & alternator, extraction, discharging hot air in to the atmosphere and the temperature rise inside the enclosure, noise level outside enclosure. The acoustic enclosure should be suitable for cable connection/connection through bus-trunking. Such arrangements on acoustic enclosure should be water proof & dust-proof conforming to IP-65 protection. The enclosure shall be as per CPCB IV + or better norms etc. and as per CPWD specifications.</p>				

सहायक/प्रमुख निरीक्षक स्तर- II
प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

सहा० अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इंफ्रस्ट्रक्चर अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुमोदित
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	(I) AMF Panel: Free standing floor mounted IP 42 automatic mains failure control panel including auto by-pass, suitable for KVA as below for silent type DG set complete with relays, timers, set of CTs for metering & protection and energy analyser to indicate currents, phase and line voltages, frequency, power factor, KWH, Kilo Volt Ampere Reactive Hour (KVARH), KVA (Phase & Total), KW & provision for overload, short circuit, restricted earth fault, under frequency, power (aluminium) and control (copper) cabling of suitable size upto 15 meter between AMF panel, LT Panel and DG Set including connection interconnection etc. as required, all complete and inter locking and communication/ Ethernet /RS485/SNMP port open protocol for BMS integration including suitable software, the panel shall be of DG Set OEM make etc. as per approved by Engineering in charge and including the following:				
	1. Suitable numbers and appropriate capacity 4 pole motorised electrically operated draw out with cradle type 3 position ACB/ MCCB with electronic release for O/C & E/F and shunt trip. 2. Auto/Manual/Test/Off selector switch 3. Protection for under and over voltage phase reversal (2 nos Over voltage relay, 2 Nos. reverse power relay and 2 Nos. under voltage relay). 4. 3 Sets of current transformers 15 P 10 accuracy for protection and 15 VA class-I for metering. 5. Energy analyser unit to indicate current, Voltage (L-N & L_L), kW, kVA (Phase & Total), Frequency, KWH, PF. 6. LED Indicating lamps for load on mains and load on set 7. Fuse/ MCB for instruments. 8. Battery charger, complete with transformer/ rectifier, D.C. voltmeter and ammeter, selector switch for trickle, off and boost and current adjustment. 9. Main supply failure monitor 10. Supply failure timer & Restoration timer 11. Control unit with three impulse automatic engine start/stop and failure to start lockout. 12. Impulse counter with locking and reset facility. & ON/OFF/Control circuit switch with indicator				
	15. Audio/Video annunciation for (i) High water temperature (ii) Low lubricating oil pressure (iii) Engine over speed (iv) Engine fails to start (v) Full load/maximum load warning 16. Protection for over/under Frequency, Loss of AC sensing, Over Current, Unbalancing load with suitable number of relays and accessories 17. Maintenance notification based on Engine Run Hour & due date. 18. Load Management through PLC to achieve auto opening and closing of incomer breakers, bus coupler switching of essential panel, interlocking providing signal to AMF Panel for load status and AMF shall give command to DG Set to auto start/auto stop depending upon load status and requirement etc. and necessary hardware and software required to perform the operation shall be provided by the contractor including all control wiring.	kVA	1	50,05,000.00	50,05,000.00
2	Supply and burring of Safe Earthing Electrode T-39 Cu Copper Coated, Length up to 3000mm, outer pipe 76.3mm x 3.2 inner pipe 42.4mm x 2.6mm, terminal Dia 12mm, coating 80-100 micron filled with crystalline conductive mixture (CCM) having anti corrosive & conductive property with 50 kgs activated soil (BFC) capable of reducing the soil resistivity with good mixture of retaining capacity along with 30 cm square C.I. frame with hinged cover & masonry housing. (From electrode terminal to switch board, cost of 25 x 3 Copper Strip will be extra). Make: As approved in U.P. P.W.D., & C.P.R.I. Certified.	Each	6	19,575.00	1,17,450.00
3	Supply and Laying of Aluminium Conductor PVC insulated armoured served sheathed cables 1100V grade on wall surface as directed by Engineer in Charge complete in all respect including excavation and refilling. The armouring of the cable shall be properly connected with the earth conductor by clamps etc. Sizes-300Sqmm x 3-1/2 Core	Mtr.	410	2,087.00	8,55,670.00

सुजित मोहन

सहायक अभियन्ता (वि०)
उ०प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ

इपत खिर अली

स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर अभियन्ता प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊसहायक लेखाधिकारी स्तर-II
उ० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
4	Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entries with TPN MCCB's (Four Pole 36 KA with thermal magnetic release) Switches Complete and instrument chamber etc. complete in all respects. The Switch box shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm. For 1200Amp 4P, ACB.	Each	1	2,95,000.00	2,95,000.00
	Civil Work - DG Set Foundation For 800kVA				
5	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by engineer in charge. All kinds of soil. 0 to 0.30 m	Cum	19.76	140.22	2,770.68
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	3.29	5,381.16	17,704.02
7	Brick Work with common burnt clay (non modular) bricks of class - 150 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	1.55	5,634.14	8,732.92
8	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	0.648	1,677.66	1,087.13
9	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	Sqm	43.17	355.12	15,330.68
10	Centering and shuttering including strutting, propping etc. and removal of form work for : Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	sqm	41.58	665.54	27,672.97
11	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/ Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	Concrete of M20 grade with minimum cement content of 270 kg /cum	Cum	10.40	7,277.52	75,686.24
12	Steel Reinforcement: Mild Steel and Medium Tensile Steel Bars	kg	545	84.60	46,109.18
13	Surface Dressing of the ground (up to 15cm depth)	sqm	32.93	26.98	888.35
14	Suitable provision for shade for DG Set. (Annexure-I)	Sqm	88.79	5,176.79	4,59,647.01
15	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75cm deep) and re-filling etc as required.				
	100 mm dia	Mtr.	100	1,404.65	1,40,464.73
16	Making suitable RCC trunch for Cable laying.	Mtr.	31	6,500.00	2,01,500.00
17	Dismantling / Cutting of RCC Road for Cable laying and making the same.	Rmt.	19.70	850.00	16,745.00
	Total				72,87,458.91
	Says in Lacs				72.87

सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि शर्मा
सहा० अभियन्ता (वि०)
उ०प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Bill of Quantity of F (LIBRARY & AUDITORIUM BLOCK) Bought out Items

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	625 kVA Diesel Generator Set				
1	<p>Supply, installation, Testing & Commissioning of 'Silent Type Diesel Generating set as per CPCB IV + or better norms along with having Prime Power Rating of KVA as below, 415 volts at 1500 RPM, 0.8 lagging power factor at 415 V suitable for 50 Hz, 3 phase system & for 0.85 Load Factor, including testing at factory and site with fuel, load for test and other necessary arrangements Complete as per CPWD specifications, should have QR code which should contain drawing, test report OEM manual, Geo- Tag of manufacturing location, rating plate as per relevant IS Code etc. and consisting of the followings:</p> <p>(A) Diesel Engine: Tourbocharged Diesel engine 4 stroke water cooled, multi cylinder, dynamically balanced fly wheel, electric start of suitable BHP at 1500 RPM suitable for above output of alternator at 40 Degree C, 50% RH & at 1000 Meter MSL , capable of taking 10% over loading for one hour after 12 hours of continuous operation. The engine will be with Electronic governor, Dry type Air filter with service indicator, first filling of engine fuel (after commissioning) lubricating Oil, Coolant and other consumables complete with all the required accessories, the Electronic governor shall be as per ISO 8528. The engine shall comply to the latest CPCB norms (CPCB IV+or better) and Conforming to BS 5514, BS 649, IS 10000, IS 10002, IS 13018 and as per CPWD specifications.</p> <p>(B) Engine mounted Instrument Panel fitted with and having digital display for following:</p> <p>(i) Start-stop switch with key, (ii) Water temperature indication, (iii) Lubrication oil pressure indication, (iv) Lubrication oil temperature indication, (v) Battery charging indication and Voltage indication, (vi) RPM indication, (vii) Over speed indication, (viii) Low lubrication Oil trip indication, (ix) Engine Running Hours indication, (x) Fuel Level</p> <p>(C) Alternator: Synchronous alternator rated of appropriate KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 Degree C, 50% RH & at 1000 Meter MSL. The alternator shall be having Screen Protected Drip Proof (SPDP) enclosure IP23, brushless, continuous duty, dynamically balanced rotor, capable of taking 10% over loading for one hour after 12 hours of continuous operation, self cooled, self-excited and self-regulated through AVR conforming to IS13364(Part 2)/IS: 4722/BS 2613 suitable for tropical conditions and with class- H insulation.</p> <p>(D) Base Frame & Foundation: Both the engine and alternator shall be mounted on suitable base frame made of MS channel with necessary reinforcement which shall be installed on suitable cement concrete foundation and vibration isolation arrangement as per recommendations of manufacturer.</p> <p>(E) FUEL TANK: Daily service fuel tank of suitable liters capacity as per CPWD Specifications, fabricated out of 3 mm thick M.S. sheet complete with all standard accessories and fuel piping between fuel tank and diesel engine with MS class 'C' pipes of suitable dia. Complete with valves, level indications & accessories as required as per specifications.</p> <p>(F) Exhaust System: Dry exhaust manifold with hospital type exhaust silencer and catalytic convertor.</p> <p>(G) Starting System: 12V/24V DC starting system comprising of starter motors: voltage regulator and arrangement for initial excitation complete with suitable numbers of batteries (180 AH capacity lead acid SMF type) as required as per specifications. The battery shall be housed inside the acoustic enclosure of DG Set.</p> <p>(H) Acoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine & alternator, extraction, discharging hot air in to the atmosphere and the temperature rise inside the enclosure, noise level outside enclosure. The acoustic enclosure should be suitable for cable connection/connection through bus-trunking. Such arrangements on acoustic enclosure should be water proof & dust-proof conforming to IP-65 protection. The enclosure shall be as per CPCB IV + or better norms etc. and as per CPWD specifications.</p>				

सुरेश कुमार शर्मा
सहायक अभियन्ता (वि०)
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

राजेश कुमार वर्मा
सहायक अभियन्ता (वि०)
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इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अमरेंद्र कुमार शर्मा
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उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	(I) AMF Panel: Free standing floor mounted IP 42 automatic mains failure control panel including auto by-pass, suitable for KVA as below for silent type DG set complete with relays, timers, set of CTs for metering & protection and energy analyser to indicate currents, phase and line voltages, frequency, power factor, KWH, Kilo Volt Ampere Reactive Hour (KVARH), KVA (Phase & Total), KW & provision for overload, short circuit, restricted earth fault, under frequency, power (aluminium) and control (copper) cabling of suitable size upto 15 meter between AMF panel, LT Panel and DG Set including connection interconnection etc. as required, all complete and inter locking and communication/ Ethernet/RS485/SNMP port open protocol for BMS integration including suitable software, the panel shall be of DG Set OEM make etc. as per approved by Engineering in charge and including the following:				
	1. Suitable numbers and appropriate capacity 4 pole motorised electrically operated draw out with cradle type 3 position ACB/ MCCB with electronic release for O/C & E/F and shunt trip. 2. Auto/Manual/Test/Off selector switch 3. Protection for under and over voltage phase reversal (2 nos Over voltage relay, 2 Nos. reverse power relay and 2 Nos. under voltage relay). 4. 3 Sets of current transformers 15 P 10 accuracy for protection and 15 VA class-I for metering. 5. Energy analyser unit to indicate current, Voltage (L-N & L-L), kW, kVA (Phase & Total), Frequency, KWH, PF. 6. LED Indicating lamps for load on mains and load on set 7. Fuse/ MCB for instruments. 8. Battery charger, complete with transformer/ rectifier, D.C. voltmeter and ammeter, selector switch for trickle, off and boost and current adjustment. 9. Main supply failure monitor 10. Supply failure timer 11. Restoration timer 12. Control unit with three impulse automatic engine start/stop and failure to start lockout. 13. Impulse counter with locking and reset facility. 14. ON/OFF/Control circuit switch with indicator				
	15. Audio/Video annunciation for (i) High water temperature (ii) Low lubricating oil pressure (iii) Engine over speed (iv) Engine fails to start (v) Full load/maximum load warning 16. Protection for over/under Frequency, Loss of AC sensing, Over Current, Unbalancing load with suitable number of relays and accessories 17. Maintenance notification based on Engine Run Hour & due date. 18. Load Management through PLC to achieve auto opening and closing of incomer breakers, bus coupler switching of essential panel, interlocking providing signal to AMF Panel for load status and AMF shall give command to DG Set to auto start / auto stop depending upon load status and requirement etc. and necessary hardware and software required to perform the operation shall be provided by the contractor including all control wiring.				
29.1.	625KVA	KVA	1	36,90,138.82	36,90,138.82
2	Supply and burring of Safe Earthing Electrode T-39 Cu Copper Coated, Length up to 3000mm, outer pipe 76.3mm x 3.2 inner pipe 42.4mm x 2.6mm, terminal Dia 12mm, coating 80-100 micron filled with crystalline conductive mixture (CCM) having anti corrosive & conductive property with 50 kgs activated soil (BFC) capable of reducing the soil resistivity with good mixture of retaining capacity along with 30 cm square C.I. frame with hinged cover & masonry housing. (From electrode terminal to switch board, cost of 25 x 3 Copper Strip will be extra). Make: As approved in U.P. P.W.D., & C.P.R.I. Certified.	Each	6	19,575.00	1,17,450.00
3	Supply and Laying of Aluminium Conductor PVC insulated armoured served sheathed cables 1100V grade on wall surface as directed by Engineer in Charge complete in all respect including excavation and refilling. The armouring of the cable shall be properly connected with the earth conductor by clamps etc.				

सहायक प्रोग्रामिंग स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

सहायक प्रोग्रामिंग स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इंफ्रस्ट्रक्चर अली
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उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

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हाईकोर्ट विद्युत इकाई, लखनऊ

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
	300 Sqmm x 3-1/2 Core	Mtr.	178	2,087.39	3,71,555.87
4	Supply & Erraction of factory fabricated & wired metal clad dust and vermin proof floor mounting, M.S. Channel Base with bottom and top cable entries with TPN MCCB's (Four Pole 36 KA with thermal magnetic release) Switches Complete and instrument chamber etc. complete in all respects. The Switch box shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm. For 1000Amp 4P, ACB.	Each	1	2,75,500.00	2,75,500.00
	Civil Work - DG Set Foundation For 800kVA				
5	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by engineer in charge. All kinds of soil. 0 to 0.30 m	Cum	19.76	140.22	2,770.68
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	3.29	5,381.16	17,704.02
7	Brick Work with common burnt clay (non modular) bricks of class - 150 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	1.55	5,634.14	8,732.92
8	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	0.648	1,677.66	1,087.13
9	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	Sqm	43.17	355.12	15,330.68
10	Centering and shuttering including strutting, propping etc. and removal of form work for : Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	sqm	41.58	665.54	27,672.97
11	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/ Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	Concrete of M20 grade with minimum cement content of 270 kg /cum	Cum	10.40	7,277.52	75,686.24
12	Steel Reinforcement: Mild Steel and Medium Tensile Steel Bars	kg	545	84.60	46,109.18
13	Surface Dressing of the ground (up to 15cm depth)	sqm	32.93	26.98	888.35
14	Suitable provision for shade for DG Set. (Annexure-1)	Sqm	88.79	5,176.79	4,59,647.01
15	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75cm deep) and re-filling etc as required.				
	100 mm dia	Mtr.	150	1,404.65	2,10,697.10
16	Making suitable RCC trunch for Cable laying.	Mtr.	19	6,500.00	1,23,500.00
17	Dismantling / Cutting of RCC Road for Cable laying and making the same.	Rmt.	26	850.00	22,100.00
	Total				54,66,570.96
	Says in Lacs				54.67

सुरेश मोहन

अध्यक्ष लेखाधिकारी स्तर-II
राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि प्रकाश वर्मा
सहा० अभियन्ता (वि०)
उ०प्र०रा०नि०लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)

Annexure
Analysis of shade for DG Set area 10x5 Mtr. Height 5 Mtr.

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
1	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	Pipes, cables etc, not exceeding 80 mm dia.	Mtr	4.86	170.31	827.73
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	1.60	6,588.88	10,542.21
	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	0.49	6,223.65	3,049.59
3	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
	Hot finished welded type tubes	kg	996.00	153.80	1,53,188.69
4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	Mild steel and Medium Tensile steel bars	kg	156	84.60	13,198.22
5	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	95.00	583.50	55,432.40
6	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	Two or more coats on new work	sqm	17	123.15	2,093.61
7	Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete.	Mtr	18	813.38	14,640.76
8	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
	110 mm	Mtr	20	293.31	5,866.19
Total cost of shade					2,58,839.40

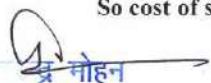
Total cost of shade for DG of area 50 sqmtr _____

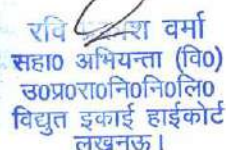
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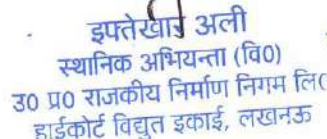
So cost of shade for DG of area 1 sqmtr _____

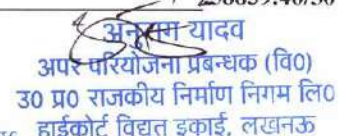
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5,176.79


सहायक निरीक्षक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


रवि शर्मा
सहायक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।


इफ्तेखार अली
स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Specifications for Illumination Signs/ Exit Signage

4.0 Illumination signs/EXIT signage

The illuminated signs shall have the letters 'FIRE EXIT' or 'NO FIRE EXIT' painted in red on a 6mm thick white perspex sheet as the front face of a sheet steel enclosure constructed with minimum 1.5mm thick sheet. The MS box shall be powder coated finished in white colour. The perspex sheet shall be back lit with a rechargeable maintenance free sealed battery integral with a battery charging circuit. The battery backup facility shall operate independent of the mains supply in the event of a mains failure. The batteries shall be of adequate rating so as to support the illumination of the signage for a minimum period of 1 hour without mains power. The preferred dimensions of the illuminated signs shall be 450 mm length and 225mm height with 100 mm high lettering. They shall be suitable for surface or recessed mounting or ceiling hung type as required including all arrangements for suspension, cutting/chasing and making good the defects etc. complete as approved.

5.0 Mode of measurement

5.1 Each extinguisher with its mounting bracket shall be measured per unit and paid for.

5.2 Exit signages with mounting plate shall be measured per sq.inch and paid for.

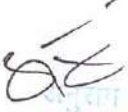
6.0 Makes of Equipment and materials

Refer to list of approved makes.


सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


रविंद्र कुमार वर्मा
सहा० अभियन्ता (वि०)
उ०प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
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इफ्तेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


अनुराग कुमार
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

SECTION - V

ELECTRICAL WORK

2.0 General

- 2.1 Work shall be carried out in accordance with the specifications of CPWD specifications, Indian Electricity Act 1910 and Indian Electricity Rules 1956 as amended up to date.

3.0 Construction Features

- 3.1 The control panel shall be metal enclosed sheet steel cubical, indoor type, floor mounting/wall mounting type as per BS 5486 Part 1, 190 & IEC 439-1. The control panel shall be totally enclosed, completely dust and vermin proof. Gaskets between all adjacent units and beneath, covers shall be provided to render the joints dust proof. Control panels shall be arranged in multitier formations. All doors and covers shall also have sealing & pad locking arrangement. All mild steel sheets used in the construction of control panels shall be minimum 2mm. thick or as specified and shall be folded and braced as necessary to provide a rigid support for all components. Joints of any kind in sheet metal shall be seam welded, all slag ground off and welding pits wiped smooth with plumber metal.
- 3.2 All panels and covers shall be properly fitted and square with the frame, and holes in the panel correctly positioned. Fixing screws shall enter into holes tapped into an adequate thickness of metal provided with hank nuts. Self threading screws shall not be used in the construction of control panels. Base channel shall be of 75mm x 40mm x 5mm thick shall be provided at the bottom. Minimum clear space of 250 mm between top of channel of control panel and bottom most unit shall be provided.
- 3.3 The control panels shall be of adequate size with a provision of 10% spare space to accommodate possible future additional switchgear. Knockout holes of appropriate size and number of cables shall be provided in the control panels in conformity with the location of incoming and outgoing conduits/cables. All equipment such as meters and indicating lamps, etc shall be located adjacent to the unit with which it is associated and care shall be taken to achieve a neat and symmetrical arrangement. Facility shall be provided for termination of cables from both above and below the control panel. Where cables enter below, cables boxes shall be fitted at the rear and arranged in tiers to facilitate making connections to the upper and lower units. Clamps shall be provided to support the weight of the cables. All incoming and outgoing feeders shall be brought out to a terminal block of adequate size at suitable location inside the control panel. All wiring inside the control panel shall be color coded and labeled with approved plastic beads for identification. Circuit diagrams showing the arrangement of circuits shall be pasted on the inside of the panel door and covered with transparent plastic sheet and all labeling shall be provided on the front face of the panel board.

4.0 Circuit Compartments

- 4.1 Each circuit breaker, contactor and relay shall be housed in a separate compartment and shall be enclosed on all sides. Sheet steel hinged lockable door shall be duly interlocked with the breaker in the 'ON' position. Safety interlocks shall be provided to prevent the breaker or Contactor from being drawn out when the breaker is in the draw out position of the panel. Instruments and

सुरेन्द्र मोहन

सहायक लेखाधिकारी स्तर II
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि प्रकाश वर्मा
सहा० अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

५

इफतेखार अली
स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

indicating lamps shall not be mounted on the panel compartment door. Sheet steel barriers shall be provided between the tiers in a vertical section.

5.0 Instrument Accommodation

- 5.1 Separate and adequate compartments shall be provided to accommodate instruments, indicating lamps, control contactors and control fuses etc. These shall be accessible for testing and maintenance without any danger of accident contact with live parts of the circuit breaker and bus bar.

6.0 Bus Bars and Bus bar Connection

- 6.1 The bus bar and interconnections shall be of aluminum and of rectangular cross sections suitable for full load current for phase bus bars and half rated current for neutral bus bars and shall be extensible on either side. The bars and interconnections shall be insulated with PVC heat shrinkable sleeve and color coded. All bus bars shall be supported on unbreakable, non-hygroscopic insulated SMC/DMC type supports at regular intervals not more than 400 mm, to withstand the forces arising in case of short circuit in the system. Bus bars shall be provided in separate chamber of main control panels shall be connected by clamping, no holes shall be drilled in bus bars. If holes have to be drilled for making connections, extra cross section of bus bars shall be provided.

- 6.2 All bus bar connections in smaller control panels shall be done by drilling hole and connecting by brass bolts and nuts. Additional cross section of bus bars shall be provided in small control panels to cover up the holes drilled in the bus bars.

- 6.3 All connections between the bus bar and breaker and between breaker and contactor shall be through copper strips of proper size to carry full rated current and shall be insulated with coloured PVC heat shrinkable sleeve.

7.0 Terminals

- 7.1 The outgoing terminals and neutral links shall be brought out to a terminal block suitably located in the control panels. The current transformer for instruments, metering and for protection shall be mounted on the terminal blocks. Separate cable compartment shall be provided for incoming and outgoing cables.

8.0 Wire ways

- 8.1 A horizontal wire way screwed covers shall be provided at the top to take in the connecting control wiring of different vertical sections.

9.0 Cable Compartments

- 9.1 Cable compartments/alley of adequate size shall be provided in the control panels for easy termination of all incoming and outgoing cables entering from bottom or top using detachable gland plates with proper knockouts. Adequate and proper DMC supports shall be provided in cable compartments to support cables. All incoming and outgoing terminals shall be brought out on terminal blocks in the cable compartment.

10.0 Materials

a) Rotary Switches

Switches up to 60 amps shall be rotary type with compact and robust construction, built up from one or more stacks with contacts and a positioning mechanism, with stop as required. The terminals shall be shrouded with insulation to prevent accidental contact with live parts. Rotary switches shall be backed up with moulded type HRC fuse fittings of appropriate rating.

सुरिन्द्र मोहन

प्रमुख लेखाधिकारी स्तर-II
राजकीय निर्माण निगम लि०
पोर्ट विद्युत इकाई, लखनऊ

रविश वर्मा
सहाय अभियन्ता (वि०)
उ०प्र०रा०नि०लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफ्तखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

b) **Selector Switch**

When called for, selector switches of rated capacity shall be provided in control panels, to give the choice of operating equipment in selective mode.

c) **Molded Case Circuit Breakers (MCCB)**

MCCBs shall be quick make, quick break, and preferably double break contact system, arc extinguishing device, independent manual type with trip free feature with mechanical ON, OFF, and TRIP indications as called for in BOQ. A trip button shall be provided for tripping the breaker.

MCCB shall be a compact high strength, heat resistant, flame retardant; insulating molded case with high withstands capability against thermal and mechanical stresses. All MCCBs shall be capable of defined variable overload adjustment

d) **Switches**

Switches beyond 60 amps shall be panel mounted double break type and suitable for load break duty, quick make and break action. Switch contacts shall be silver plated and shall be back-up with HRC fuses of appropriate rating. The switch handles shall be located at the front.

e) **HRC Fuses**

Fuses shall be high rupturing capacity of not less than 20 MVA at 415 volts. The backup fuse rating of each motor/heater/equipment shall be so chosen that the fuse does not operate on starting of motor/heater/equipment. Fuses shall be of the same make as the switches.

f) **Starters**

Each motor shall be provided with a starter of suitable rating. Direct on line starters shall be provided for motors up to 10 HP.

Operating coils of contactors shall be suitable for 220/415 +/- 10% volts AC, 50 cycles supply system. The contactor shall drip out when voltage drops to 90% of the rated voltage.

g) **Over Load Relays**

Contactors shall be provided with a three element, positive acting ambient temperature compensated time lagged hand-reset type thermal over load relay with adjustable setting.

h) **Current Transformers**

Current Transformer shall be of accuracy class - I and suitable VA burden for operation for the connected meters and relays.

i) **Single Phase Preventor**

Single phase preventor shall be provided for all the starters. Single phase preventor shall act when the supply voltage drops down to 90% of the rated voltage or on failure of one or more phases.

j) **Indicating Lamp and Metering**

The meters shall be flush mounted and draw-out type. The indicating lamp shall be neon type and of low burden. Each phase indicating lamp shall be backed up with 2 amps fuse.

k) **Push Button Stations**

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

३

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि प्रकाश वर्मा
हा० अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

सुरेन्द्र मोहन
लेखाधिकारी स्तर- II
राजकीय निर्माण निगम लि०
विद्युत इकाई, लखनऊ

Push button station shall be for manual starting and stopping of motors/equipment as called for. Red and Green colour push buttons shall be provided for starting and stopping operations. Push buttons shall be suitable for panel mounting and accessible from front without opening door.

m) **Cables**

M.V. cables shall be PVC insulated aluminium conductor armoured cables suitable for laying in trenches, duct, and on cable trays as required.

n) **Wires**

650/1100 volts grade PVC insulated copper conductor wires in conduit shall be used.

11.0 **Cable Laying**

11.1 Easy access to all cables shall be provided to allow cable withdrawal/replacement in the future. Where more than one cable is running, proper spacing shall be provided to minimize the loss in current carrying capacity with necessary saddling/clamps.

12.0 **Earthing**

12.1 The earthing of MCC and equipment shall be as per BIS Specification and considered in the main electrical panel. The loop earthing shall be carried out with G.I./Copper Strips/wires.

13.0 **Painting for Panel**

13.1 All sheet steel work shall undergo a process of seven tank treatment and painting with powder coating paint of approved shade.

14.0 **CABLE WORK**

This section covers detailed requirements for supply, laying, testing and commissioning of cables.

14.1 **GENERAL**

MV cable shall be supplied inspected, laid, tested and commissioned in accordance with drawings, specifications, relevant Indian Standards Specifications and cable manufacturer's instructions. The cable shall be delivered at site in original drums with manufacturer's name clearly written on the drum.

14.2 **MATERIAL**

14.2.1 The MV power cable of 660/1100 V, grade shall be PVC insulated Aluminium conductor armoured cable conforming to IS : 1554 (part - I). MV cable shall be 3.5/4 core of size and type as specified.

14.2.2 The MV control cables shall be PVC insulated copper conductor armoured cable.

14.3 **STORAGE AND HANDLING**

14.3.1 All cables shall be inspected upon receipt at site and checked for any damage during transit.

14.3.2 Cable drums shall be stored on a well drained, hard surface, preferably of concrete, so that the drums do not sink in the ground causing rot and damage to the cable drums.

14.3.3 During storage periodical rolling of drums once in 3 months through 90° shall be done. Rolling shall be done in the direction of the arrow marked on the drum.

सुरेन्द्र मोहन सह्याय (वि०)
यक लेखाधिकारी स्तर
राजकीय निर्माण निगम लि०
लखनऊ

इफतेखार अली
स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

- 14.3.4 It should be ensured that both ends of the cable are properly sealed to prevent ingress/absorption of moisture by the insulation.
- 14.3.5 Protection from rain and sun shall be ensured. Sufficient ventilation between cable drums, should be ensured during storage.
- 14.3.6 The drums shall always be rested on the flanges and not on the flat sides.
- 14.3.7 Damaged battens of drums etc. should be replaced, if necessary.
- 14.3.8 When cable drums have to be moved over short distances, they should be rolled in the direction of the arrow, marked on the drum.
- 14.3.9 For transportation over long distances, the drum should be mounted on cable drum wheels strong enough to carry the weight of the drum and pulled by means of ropes. Alternatively, they may be mounted on a trailer or on a suitable mechanical transport.
- 14.3.10 When unloading cable drums from vehicles, a crane shall preferably be used. Otherwise the drum shall be rolled down carefully on a suitable ramp or rails, where necessary.
- 14.3.11 While transferring cable from one drum to another, the barrel of the new drum shall have a diameter not less than that of the original drum.
- 14.3.12 The cables shall not be bent sharp to a small radius. The minimum safe bending radius for all types of PVC cables shall be taken as 12 times the overall diameter of the cable. Wherever practicable, larger radius should be adopted. At joints and terminations, the bending radius of individual cores of a multi core cable shall not be less than 15 times its overall diameter.

14.3.13 Cable with kinks and straightened kinks or with similar apparent defects like defective armouring etc. shall be rejected.

14.3.14 Cables from the stores shall be supplied by the contractor as per the site requirement in pieces cut in the stores.

14.4 INSTALLATION

14.4.1 GENERAL

The cable installation including necessary joints shall be carried out in accordance with the specifications given herein. For details not covered in these specifications, I.S.:1255 shall be followed. No straight through joint shall be permitted in the system. The cables shall be supplied as per cable schedule submitted by the contractor & approved by Engineer-in-Charge.

14.4.2 ROUTE

14.4.2.1 Before the cable laying work is undertaken, the route of the cable shall be decided by the Architect in consultation with Owner representative.

14.4.2.2 While shortest practicable route shall be preferred, cable runs shall generally follow fixed developments such as roads, foot-paths etc. with proper offsets so that future maintenance, identification etc. are rendered easy. Cross country run to shorten the route length is not desirable as it would lead to route identification and maintenance problems, besides posing difficulties during later development of open areas etc.

14.4.2.3 While selecting cable routes, corrosive soils, ground surrounding sewage and effluent etc. shall be avoided. Where this is not feasible, special precautions as approved by the Architect shall be taken.

सुरेन्द्र मोहन
क लेखाधिकारी स्तर-II
जकीय निर्माण निगम लि०
विद्युत इकाई, लखनऊ

रविशंकर वर्मा
सहाय अभियन्ता (वि०)
उ०प्र०रा०नि०लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग शर्मा
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

- 14.4.2.4 As far as possible, the alignment of the cable route shall be decided taking into consideration the present and future requirements of other agencies and utility services affected by it, the existence of any cable in the vicinity as may be indicated by cable markers or cable schedules or drawing maintained for that area, possibilities of widening of roads/lanes, storm water drains etc. Cable routes shall be planned away from the drains and should be within the property.
- 14.4.2.5 Whenever cables are laid along well demarcated or established roads, the MV cables shall be laid further from the kerb line than HV cables.
- 14.4.2.6 Cables of different voltages and also power and control cables shall be kept in different trenches with adequate separation. Where available space is restricted, MV cables shall be laid above HV cables.
- 14.4.2.7 Where cables cross one another the cable of higher voltage shall be laid at a lower level than the cable of lower voltage.

- 14.5.2 Where necessary, joint inspection with representatives of other authorities may be arranged so that mutual interests are safeguarded. In case of private property, Section 12/51 of the Indian Electricity Act shall be complied with.

14.6 PROXIMITY TO COMMUNICATION CABLES

Power and communication cables shall as far possible cross at right angles. Where power cables are laid in proximity communication cables the horizontal and vertical clearances shall not normally be less than 60 cms.

14.6.1 LAYING METHODS

- 14.6.1.1 Cables shall be laid direct in ground or in pipes/closed ducts, in open ducts or on cable trays suspended from slab depending on site conditions.

14.6.2 Laying in Pipes/Closed ducts :

- 14.6.2.1 In location such as road crossing, entry to building, on poles, in paved areas etc, cables shall be laid in pipes or closed ducts.

- 14.6.2.2 GI or Hume Pipes (spun reinforced concrete pipes) shall be used for such purposes. In the case of new construction, pipes as required shall be laid along with the Civil works and jointed according to the instructions of the Engineer-in-Charge as the case may be. The size of pipe shall be as indicated in the electrical drawings. GI pipe shall be laid directly in ground without any special bed. Hume pipe (Spun reinforced concrete pipe) shall be laid over 10 cm. thick cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate of 40mm nominal size) bed, after which it shall be completely embedded in concrete. No sand cushioning or tiles need be used in such situations. Unless otherwise specified, the top surface of pipes shall be at a minimum depth of 1mtr. from the ground level when laid under roads, pavement etc.

सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-III
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि शर्मा
सहायक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

इफतेखार अली
स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

- 14.6.2.3 Where steel pipes are employed for protection of single core cables feeding AC load, the pipe should be large enough to contain both cables in the case of single phase system and all cables in the case of polyphase system.
- 14.6.2.4 The pipes on road crossing shall preferably be on the skew to reduce the angle of bends as the cable enters and leaves the crossings. This is particularly important for high voltage cables.
- 14.6.2.5 Manholes of adequate size as decided by the Engineer-in-Charge shall be provided to facilitate feeding/drawing in of cables and to provide working space for persons. They shall be covered by suitable manhole covers with frame of proper design. The construction of manholes and providing the cover is not in the scope of this Contract and shall be got executed and paid for by the Engineer-in-Charge through another agency.
- 14.6.2.6 Pipes shall be continuous and clear of debris or concrete before cable is drawn. Sharp edges at ends shall be smoothened to prevent injury to cable insulation or sheathing.
- 14.6.2.7 Pipes for cable entries to the building shall slope downwards from the building and suitably sealed to prevent entry of water inside the building. Further the mouth of the pipes at the building end shall be suitably sealed to avoid entry of water. This seal in addition to being waterproof shall also be fireproof.
- 14.6.2.8 All chases and passages necessary for lying of service cable connections to buildings shall be cut as required and made good to the original finish and to the satisfaction of the Engineer-in-Charge.
- 14.6.2.9 Cable grips/draw wires and winches etc. may be employed for drawing cables through pipes/closed ducts etc.

14.6.3 Laying on Cable Trays

- 14.6.3.1 Cables, where indicated in approved shop drawings, shall be laid on overhead cable trays which are suspended from ceiling or supported from wall, by anchor fasteners as required.
- 14.6.3.2 The Contractor shall provide for all accessories for the installation of the cable trays, such as bends, tees, reducers coupler plates, trifol clamps and structural steel members (comprising of channels, angles, flats, rods) to be fabricated at site for structural supports for cable trays racks etc.

14.6.4 Termination

Brass single compression glands shall be provided for MV cables termination

14.6.5 Testing

- 14.6.5.1 All 650/1100 Volt grade cables before laying shall be tested with a 500 V megger or with a 2,500/5,000 V megger for cables of higher voltages. The cable cores shall be tested for continuity, absence of cross phasing, insulation resistance to earth/sheath/armour and insulation resistance between conductors.
- 14.6.5.2 All cables shall be subject to above mentioned tests during laying, before covering the cables by protective covers and back filling and also before the jointing operations.

15.0 CABLE TRAYS

- 15.1 Prefabricated Cable trays of ladder type and associated accessories, tees, bends, elbows & reducers shall be fabricated from 12 gauge (2.6 mm thick) mild steel. Perforated cable trays and associated accessories tees, elbows, and reducers shall be fabricated from 14 gauge (2 mm thick) MS steel.
- 15.2 Cable trays and accessories and covers shall be painted with one shop coat of red oxide zinc chromate primer and two coats of Aluminium alkylid paint.

सुरेन्द्र मोहन

सहायक लेखाधिकारी स्तर-II

30 प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

सहा० अभियन्ता (वि०)

30 प्र० राजकीय निर्माण निगम लि०

विद्युत इकाई हाईकोर्ट

लखनऊ।

इपतेखार अली

स्थानिक अभियन्ता (वि०)

30 प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

धनुराग यादव

अपर परियोजना प्रबन्धक (वि०)

30 प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

- 15.3 The Contractor shall provide for all accessories for the installation of the cable trays, such as bends, tees, reducers coupler plates, trifoil clamps and structural steel members (comprising of channels, angles, flats, rods) to be fabricated at site for structural supports for cable trays racks etc.

16.0 EARTHING

This section covers detailed requirements for earthing.

16.1 GENERAL

- 16.1.1 The non-current carrying metal parts of electrical installation shall be earthed properly. All metallic structure, enclosures, junction boxes, outlet boxes, cabinets, machine frame, portable equipments, metal conduits, trunking, cable armour, switchgear, distribution boards, lighting fittings and all other parts made of metal in close proximity with electrical circuits shall be bonded together and connected by means of specified earthing conductors to an efficient earthing system. All earthing will be in conformity with the relevant Indian Electricity Rules 1956 and Indian Standard Specification IS : 3043. Every item of equipment served by the electrical system shall be bonded to earthing system.

- 16.1.2 Every switch, lighting fixture and 5 Amp outlets shall be provided with insulated copper conductor of 1.5 sq. mm for earthing. The computer workstations shall be earthed with 2.5 sq.mm. insulated copper conductor wire.

- 16.1.3 Separate copper earth pits shall be provided for UPS, EPABX & Networking equipment.

- 16.1.4 The raceways shall not be used as a grounding conductor.

16.2 CONNECTION OF EARTHING CONDUCTORS

- 16.2.1 Main earthing conductor shall be taken from the earth connections at the PDB to the earthing pit. Circuit earthing conductor shall run from the exposed metal of equipment and shall be connected to any point on the main earthing conductor, or its distribution boards or to an earth leakage circuit breaker. Metal conduits, cable sheathing and armouring shall be earthed at the ends adjacent to switch boards at which they originate, or otherwise at the commencement of the run by an earthing conductor in effective electrical contact with cable sheathing. Where equipment is connected by flexible cord, all exposed metal parts of equipment shall be earthed with 2 no. G.I. strips/wires and non-current carrying metallic parts with, 1 no. G.I. strips/wires.

- 16.2.2 Neutral conductor, sprinkler pipes, or pipes conveying gas, water or inflammable liquid, structural steel work, metallic enclosures cables and conductors, metallic conduits and lightning protection system conductors shall not be used as a means of earthing an installation or even as a link in earthing system. The Electrical resistance of metallic enclosures for cables and conductors measured between earth connections at the main switch boards and any other point on the completed installation shall be low enough to permit the passage of current necessary to operate circuit breakers and shall not exceed 1 OHM.

16.3 EARTH CONNECTIONS

All metal clad switches and other equipment carrying single phase circuit, shall be connected to earth by a single connection. All metal clad switches carrying 3 phase shall be connected with earth by two separate and distinct connections. The earthing conductor inside the building wherever exposed shall be properly protected from mechanical injury by running the same in GI pipe of adequate size. The earthing conductor shall be painted to protect it against corrosion. Earthing conductor outside the building shall be laid 600 mm below finished ground level. The overlapping in G.I. strips in joints shall be welded. Lugs of adequate capacity and size shall be used for all termination of conductor wires. Lugs shall be bolted to the equipment body to be earthed after the metal is cleaned of paint and other oily substance and properly tinned.

सुरेन्द्र मोहन

सहायक लेखाधिकारी स्तर
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली

स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुमोदित
अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

16.4 PROTECTION FROM CORROSION

Connection between copper and galvanised equipment shall be made on vertical face and protected with paint and grease. Galvanised fixing clamps shall not be used for fixing earth conductors. Only copper fixing clamp shall be used for fixing earth conductors. When there is evidence that the soil is aggressive to copper, buried earthing conductors shall be protected by suitable serving and sheathing.

16.5 EARTHING STATION

16.5.1 PLATE ELECTRODE EARTHING

16.5.1.1 Earthing electrode shall consist of a Copper plate of 600 mm X 600 mm X 3 mm or G.I. plate of 600mm x 600mm x 6.3 mm as called for in the Schedule of Quantity. The plate electrode shall be buried as far as practicable below permanent moisture level but in any case not less than 3 meters below ground level. Wherever possible, earth electrode shall be located as near the water tap, water drain or a down take pipe as possible. Earth electrode shall be kept clear of the building foundations and in no case shall it be nearer than 2 meters from the outer surface of the wall.

16.5.1.2 The earth plate shall be set vertically and surrounded with 150 mm thick layer of charcoal dust and salt mixture. A 20 mm dia GI pipe shall run from the top edge of the plate to the ground level. The top of the pipe shall be provided with a funnel and a mesh for watering the earth through the pipe. The funnel over the GI pipe shall be housed in a masonry chamber approximately 300 mm x 300 mm x 300 mm deep. The masonry chamber shall be provided with a cast iron cover resting over a CI frame. Test facility shall be provided with test links for the earthing station.

16.5.2 PIPE ELECTRODE EARTHING

Earthing Electrode shall consist of G.I. medium class, 40 mm dia 4.5 m long pipe (without any joint) G.I. pipe Electrode shall be cut, tapered at the bottom and provided with holes of 12 mm dia drilled not, less than 7.5 cm from each other upto 2 M of length from the bottom. Pipe electrode shall be buried in the ground vertically with its top at not less than 200 mm below the ground level. When more than one pipe is to be installed a separation of not less than 2 M shall be maintained between two adjacent electrodes as called for in the drawings. Wherever possible, earth electrode shall be located as near the water tap, water drain or a down take pipe as possible. Earth electrode shall be kept clear of the building foundations and in no case shall it be nearer than 2 meters from the outer surface of the walls. The pipe electrode shall be set vertically and surrounded with 150 mm thick layer of charcoal dust and salt mixture. A 40 mm x 20 mm reducer shall be used for fixing of funnel with mesh. The funnel and mesh have been provided for watering the earth through the pipe. The funnel over the G.I. Pipe shall be housed in a masonry chamber 300mm x 300mm x 300mm deep. The masonry chamber shall be provided with a cast iron cover resting over a CI frame. The broken earth pit will be provided with test links in suitable enclosures.

16.5.3 ARTIFICIAL TREATMENT OF SOIL

If the earth resistance is too high and the multiple electrode earthing does not give adequate low resistance to earth, as specified in Clause no. 7 then the soil resistivity immediately surrounding the earth electrodes shall be reduced by adding sodium chloride, Calcium chloride, sodium carbonate, copper sulphate, salt and soft coke or charcoal in suitable proportions.

16.5.4 RESISTANCE TO EARTH

The resistance to each earthing system shall not exceed 1.0 ohm.

COMMISSIONING & GUARANTEE

1. SCOPE OF WORK

Work under this section shall be executed without any additional cost. The rates quoted in this tender shall be inclusive of the works given in this section.

Contractor shall provide all tools, equipment, metering and testing devices required for the purpose.

सुरेन्द्र मोहन

सहायक लेखाधिकारी

राजकीय निर्माण विभाग

हाईकोर्ट विद्युत इकाई, लखनऊ

सहायक अभियन्ता (वि०)
उ०प्र०रा०नि०लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

On award of work, Contractor shall submit a detailed proposal giving methods of testing and gauging the performance of the equipment to be supplied and installed under this contract.

All tests shall be made in the presence of the Architect or his representative or any inspecting authority. At least five working days notice in writing shall be given to the inspecting parties before performing any test.

Water flow rates of all equipment and in pipe lines through valves shall be adjusted to design conditions. Complete results of adjustments shall be recorded and submitted.

Contractor shall ensure proper balancing of the hydraulic system and for the pipes / valves installed in his scope of work by regulating the flow rates in the pipe line by valve operation. The contractor shall also provide permanent Tee connection (with plug) in water supply lines for ease of installing pressure gauge, temperature gauge & rotameters. Contractor shall also supply all required pressure gauge, temperature gauge & rotameter for system commissioning and balancing. The balancing shall be to the satisfaction of Consultant / Project Manager.

Three copies of all test results shall be submitted to the Engineer in A4 size sheet paper within two weeks after completion of the tests.

2 PRECOMMISSIONING

On completion of the installation of all pumps, piping, valves, pipe connections, insulation etc. the Contractor shall proceed as follows:

2.1 Prior to start-up and hydraulic testing, the Contractor shall clean the entire installation including all fittings and pipe work and the like after installation and keep them in a new condition. All pumping systems shall be flushed and drained at least once through to get rid of contaminating materials. All pipes shall be rodded to ensure clearance of debris, cleaning and flushing shall be carried out in sections as the installation becomes completed.

- All strainers shall be inspected and cleaned out or replaced.
- Check all clamps, supports and hangers provided for the pipes.
- Check all the equipment, piping and valves coming under hot water system and operate each and every valve on the system to see if the valves are functioning properly. Thereafter conduct & hydro test of the system as for (b) above.
- Fill up pipes with water and apply hydrostatic pressure to the system as given in the relevant section of the specification. If any leakage is found, rectify the same and retest the pipes.

3 FINAL ACCEPTANCE TESTS

Following commissioning and inspection of the entire installation, and prior to issue of the Completion Certificate, the Contractor shall carry out final acceptance tests in accordance with a programme to be agreed with the Architect.

Should the results of the acceptance tests show that plant, systems and/or equipment fail to perform to the efficiencies or other performance figures as given in this Specification, the Contractor shall adjust, modify and if necessary replace the equipment without further payment in order that the required performance is obtained.

Where acceptance tests are required by the relevant Authorities having jurisdiction, these tests shall be carried out by the Contractor prior to the issue of Completion Certificate to the acceptance of the Authorities.

सुरेन्द्र मोहन
प्रमुख लेखाधिकारी स्तर-II
राजकीय निर्माण निगम लि०
मेट विद्युत इकाई, लखनऊ

रवि शर्मा
सहाय अभियन्ता (वि०)
उ०प्र०रा०नि०नि०लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

Specifications for Illumination Signs/ Exit Signage

4.0 Illumination signs/EXIT signage

The illuminated signs shall have the letters 'FIRE EXIT' or 'NO FIRE EXIT' painted in red on a 6mm thick white perspex sheet as the front face of a sheet steel enclosure constructed with minimum 1.5mm thick sheet. The MS box shall be powder coated finished in white colour. The perspex sheet shall be back lit with a rechargeable maintenance free sealed battery integral with a battery charging circuit. The battery backup facility shall operate independent of the mains supply in the event of a mains failure. The batteries shall be of adequate rating so as to support the illumination of the signage for a minimum period of 1 hour without mains power. The preferred dimensions of the illuminated signs shall be 450 mm length and 225mm height with 100 mm high lettering. They shall be suitable for surface or recessed mounting or ceiling hung type as required including all arrangements for suspension, cutting/chasing and making good the defects etc. complete as approved.

5.0 Mode of measurement

5.1 Each extinguisher with its mounting bracket shall be measured per unit and paid for.

5.2 Exit signages with mounting plate shall be measured per sq.inch and paid for.


6.0 Makes of Equipment and materials


Refer to list of approved makes.


सुरेन्द्र मोहन

सहायक लेखाधिकारी स्तर-II
उ०प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


रविंद्र कुमार वर्मा
सहा० अभियन्ता (वि०)
उ०प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।


इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ


अनुराग कुमार
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

SECTION - V

ELECTRICAL WORK

2.0 General

- 2.1 Work shall be carried out in accordance with the specifications of CPWD specifications, Indian Electricity Act 1910 and Indian Electricity Rules 1956 as amended up to date.

3.0 Construction Features

- 3.1 The control panel shall be metal enclosed sheet steel cubical, indoor type, floor mounting/wall mounting type as per BS 5486 Part 1, 190 & IEC 439-1. The control panel shall be totally enclosed, completely dust and vermin proof. Gaskets between all adjacent units and beneath, covers shall be provided to render the joints dust proof. Control panels shall be arranged in multitier formations. All doors and covers shall also have sealing & pad locking arrangement. All mild steel sheets used in the construction of control panels shall be minimum 2mm. thick or as specified and shall be folded and braced as necessary to provide a rigid support for all components. Joints of any kind in sheet metal shall be seam welded, all slag ground off and welding pits wiped smooth with plumber metal.
- 3.2 All panels and covers shall be properly fitted and square with the frame, and holes in the panel correctly positioned. Fixing screws shall enter into holes tapped into an adequate thickness of metal provided with hank nuts. Self threading screws shall not be used in the construction of control panels. Base channel shall be of 75mm x 40mm x 5mm thick shall be provided at the bottom. Minimum clear space of 250 mm between top of channel of control panel and bottom most unit shall be provided.
- 3.3 The control panels shall be of adequate size with a provision of 10% spare space to accommodate possible future additional switchgear. Knockout holes of appropriate size and number of cables shall be provided in the control panels in conformity with the location of incoming and outgoing conduits/cables. All equipment such as meters and indicating lamps, etc shall be located adjacent to the unit with which it is associated and care shall be taken to achieve a neat and symmetrical arrangement. Facility shall be provided for termination of cables from both above and below the control panel. Where cables enter below, cables boxes shall be fitted at the rear and arranged in tiers to facilitate making connections to the upper and lower units. Clamps shall be provided to support the weight of the cables. All incoming and outgoing feeders shall be brought out to a terminal block of adequate size at suitable location inside the control panel. All wiring inside the control panel shall be color coded and labeled with approved plastic beads for identification. Circuit diagrams showing the arrangement of circuits shall be pasted on the inside of the panel door and covered with transparent plastic sheet and all labeling shall be provided on the front face of the panel board.

4.0 Circuit Compartments

- 4.1 Each circuit breaker, contactor and relay shall be housed in a separate compartment and shall be enclosed on all sides. Sheet steel hinged lockable door shall be duly interlocked with the breaker in the 'ON' position. Safety interlocks shall be provided to prevent the breaker or Contactor from being drawn out when the breaker is in the draw out position of the panel. Instruments and

सुरेन्द्र मोहन

सहायक लेखाधिकारी स्तर II
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि प्रकाश वर्मा
सहा० अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

५

इफतेखार अली
स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

indicating lamps shall not be mounted on the panel compartment door. Sheet steel barriers shall be provided between the tiers in a vertical section.

5.0 Instrument Accommodation

- 5.1 Separate and adequate compartments shall be provided to accommodate instruments, indicating lamps, control contactors and control fuses etc. These shall be accessible for testing and maintenance without any danger of accident contact with live parts of the circuit breaker and bus bar.

6.0 Bus Bars and Bus bar Connection

- 6.1 The bus bar and interconnections shall be of aluminum and of rectangular cross sections suitable for full load current for phase bus bars and half rated current for neutral bus bars and shall be extensible on either side. The bars and interconnections shall be insulated with PVC heat shrinkable sleeve and color coded. All bus bars shall be supported on unbreakable, non-hygroscopic insulated SMC/DMC type supports at regular intervals not more than 400 mm, to withstand the forces arising in case of short circuit in the system. Bus bars shall be provided in separate chamber of main control panels shall be connected by clamping, no holes shall be drilled in bus bars. If holes have to be drilled for making connections, extra cross section of bus bars shall be provided.

- 6.2 All bus bar connections in smaller control panels shall be done by drilling hole and connecting by brass bolts and nuts. Additional cross section of bus bars shall be provided in small control panels to cover up the holes drilled in the bus bars.

- 6.3 All connections between the bus bar and breaker and between breaker and contactor shall be through copper strips of proper size to carry full rated current and shall be insulated with coloured PVC heat shrinkable sleeve.

7.0 Terminals

- 7.1 The outgoing terminals and neutral links shall be brought out to a terminal block suitably located in the control panels. The current transformer for instruments, metering and for protection shall be mounted on the terminal blocks. Separate cable compartment shall be provided for incoming and outgoing cables.

8.0 Wire ways

- 8.1 A horizontal wire way screwed covers shall be provided at the top to take in the connecting control wiring of different vertical sections.

9.0 Cable Compartments

- 9.1 Cable compartments/alley of adequate size shall be provided in the control panels for easy termination of all incoming and outgoing cables entering from bottom or top using detachable gland plates with proper knockouts. Adequate and proper DMC supports shall be provided in cable compartments to support cables. All incoming and outgoing terminals shall be brought out on terminal blocks in the cable compartment.

10.0 Materials

a) Rotary Switches

Switches up to 60 amps shall be rotary type with compact and robust construction, built up from one or more stacks with contacts and a positioning mechanism, with stop as required. The terminals shall be shrouded with insulation to prevent accidental contact with live parts. Rotary switches shall be backed up with moulded type HRC fuse fittings of appropriate rating.

सुरिन्द्र मोहन

प्रमुख लेखाधिकारी स्तर-II
राजकीय निर्माण निगम लि०
पोर्ट विद्युत इकाई, लखनऊ

रविश वर्मा
सहाय अभियन्ता (वि०)
उ०प्र०रा०नि०लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफ्तेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

b) **Selector Switch**

When called for, selector switches of rated capacity shall be provided in control panels, to give the choice of operating equipment in selective mode.

c) **Molded Case Circuit Breakers (MCCB)**

MCCBs shall be quick make, quick break, and preferably double break contact system, arc extinguishing device, independent manual type with trip free feature with mechanical ON, OFF, and TRIP indications as called for in BOQ. A trip button shall be provided for tripping the breaker.

MCCB shall be a compact high strength, heat resistant, flame retardant; insulating molded case with high withstands capability against thermal and mechanical stresses. All MCCBs shall be capable of defined variable overload adjustment.

d) **Switches**

Switches beyond 60 amps shall be panel mounted double break type and suitable for load break duty, quick make and break action. Switch contacts shall be silver plated and shall be back-up with HRC fuses of appropriate rating. The switch handles shall be located at the front.

e) **HRC Fuses**

Fuses shall be high rupturing capacity of not less than 20 MVA at 415 volts. The backup fuse rating of each motor/heater/equipment shall be so chosen that the fuse does not operate on starting of motor/heater/equipment. Fuses shall be of the same make as the switches.

f) **Starters**

Each motor shall be provided with a starter of suitable rating. Direct on line starters shall be provided for motors up to 10 HP.

Operating coils of contactors shall be suitable for 220/415 +/- 10% volts AC, 50 cycles supply system. The contactor shall drip out when voltage drops to 90% of the rated voltage.

g) **Over Load Relays**

Contactors shall be provided with a three element, positive acting ambient temperature compensated time lagged hand-reset type thermal over load relay with adjustable setting.

h) **Current Transformers**

Current Transformer shall be of accuracy class - I and suitable VA burden for operation for the connected meters and relays.

i) **Single Phase Preventor**

Single phase preventor shall be provided for all the starters. Single phase preventor shall act when the supply voltage drops down to 90% of the rated voltage or on failure of one or more phases.

j) **Indicating Lamp and Metering**

The meters shall be flush mounted and draw-out type. The indicating lamp shall be neon type and of low burden. Each phase indicating lamp shall be backed up with 2 amps fuse.

k) **Push Button Stations**

अनुराग यादव

अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

इफतेखार अली

स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि कुमार वर्मा
हा० अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

सुरेन्द्र मोहन
लेखाधिकारी स्तर- II
राजकीय निर्माण निगम लि०
विद्युत इकाई, लखनऊ

Push button station shall be for manual starting and stopping of motors/equipment as called for. Red and Green colour push buttons shall be provided for starting and stopping operations. Push buttons shall be suitable for panel mounting and accessible from front without opening door.

m) **Cables**

M.V. cables shall be PVC insulated aluminium conductor armoured cables suitable for laying in trenches, duct, and on cable trays as required.

n) **Wires**

650/1100 volts grade PVC insulated copper conductor wires in conduit shall be used.

11.0 **Cable Laying**

11.1 Easy access to all cables shall be provided to allow cable withdrawal/replacement in the future. Where more than one cable is running, proper spacing shall be provided to minimize the loss in current carrying capacity with necessary saddling/clamps.

12.0 **Earthing**

12.1 The earthing of MCC and equipment shall be as per BIS Specification and considered in the main electrical panel. The loop earthing shall be carried out with G.I./Copper Strips/wires.

13.0 **Painting for Panel**

13.1 All sheet steel work shall undergo a process of seven tank treatment and painting with powder coating paint of approved shade.

14.0 **CABLE WORK**

This section covers detailed requirements for supply, laying, testing and commissioning of cables.

14.1 **GENERAL**

MV cable shall be supplied inspected, laid, tested and commissioned in accordance with drawings, specifications, relevant Indian Standards Specifications and cable manufacturer's instructions. The cable shall be delivered at site in original drums with manufacturer's name clearly written on the drum.

14.2 **MATERIAL**

14.2.1 The MV power cable of 660/1100 V, grade shall be PVC insulated Aluminium conductor armoured cable conforming to IS : 1554 (part - I). MV cable shall be 3.5/4 core of size and type as specified.

14.2.2 The MV control cables shall be PVC insulated copper conductor armoured cable.

14.3 **STORAGE AND HANDLING**

14.3.1 All cables shall be inspected upon receipt at site and checked for any damage during transit.

14.3.2 Cable drums shall be stored on a well drained, hard surface, preferably of concrete, so that the drums do not sink in the ground causing rot and damage to the cable drums.

14.3.3 During storage periodical rolling of drums once in 3 months through 90° shall be done. Rolling shall be done in the direction of the arrow marked on the drum.

सुरेन्द्र मोहन सह्याय
यक लेखाधिकारी स्तर
राजकीय निर्माण निगम लि०
ई विद्युत इकाई, लखनऊ

इफतेखार अली
स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

- 14.3.4 It should be ensured that both ends of the cable are properly sealed to prevent ingress/absorption of moisture by the insulation.
- 14.3.5 Protection from rain and sun shall be ensured. Sufficient ventilation between cable drums, should be ensured during storage.
- 14.3.6 The drums shall always be rested on the flanges and not on the flat sides.
- 14.3.7 Damaged battens of drums etc. should be replaced, if necessary.
- 14.3.8 When cable drums have to be moved over short distances, they should be rolled in the direction of the arrow, marked on the drum.
- 14.3.9 For transportation over long distances, the drum should be mounted on cable drum wheels strong enough to carry the weight of the drum and pulled by means of ropes. Alternatively, they may be mounted on a trailer or on a suitable mechanical transport.
- 14.3.10 When unloading cable drums from vehicles, a crane shall preferably be used. Otherwise the drum shall be rolled down carefully on a suitable ramp or rails, where necessary.
- 14.3.11 While transferring cable from one drum to another, the barrel of the new drum shall have a diameter not less than that of the original drum.
- 14.3.12 The cables shall not be bent sharp to a small radius. The minimum safe bending radius for all types of PVC cables shall be taken as 12 times the overall diameter of the cable. Wherever practicable, larger radius should be adopted. At joints and terminations, the bending radius of individual cores of a multi core cable shall not be less than 15 times its overall diameter.

14.3.13 Cable with kinks and straightened kinks or with similar apparent defects like defective armouring etc. shall be rejected.

14.3.14 Cables from the stores shall be supplied by the contractor as per the site requirement in pieces cut in the stores.

14.4 INSTALLATION

14.4.1 GENERAL

The cable installation including necessary joints shall be carried out in accordance with the specifications given herein. For details not covered in these specifications, I.S.:1255 shall be followed. No straight through joint shall be permitted in the system. The cables shall be supplied as per cable schedule submitted by the contractor & approved by Engineer-in-Charge.

14.4.2 ROUTE

14.4.2.1 Before the cable laying work is undertaken, the route of the cable shall be decided by the Architect in consultation with Owner representative.

14.4.2.2 While shortest practicable route shall be preferred, cable runs shall generally follow fixed developments such as roads, foot-paths etc. with proper offsets so that future maintenance, identification etc. are rendered easy. Cross country run to shorten the route length is not desirable as it would lead to route identification and maintenance problems, besides posing difficulties during later development of open areas etc.

14.4.2.3 While selecting cable routes, corrosive soils, ground surrounding sewage and effluent etc. shall be avoided. Where this is not feasible, special precautions as approved by the Architect shall be taken.

सुरेन्द्र मोहन
क लेखाधिकारी स्तर-II
जकीय निर्माण निगम लि०
विद्युत इकाई, लखनऊ

रविशंकर वर्मा
सहाय अभियन्ता (वि०)
उ०प्र०रा०नि०लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग शर्मा
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

- 14.4.2.4 As far as possible, the alignment of the cable route shall be decided taking into consideration the present and future requirements of other agencies and utility services affected by it, the existence of any cable in the vicinity as may be indicated by cable markers or cable schedules or drawing maintained for that area, possibilities of widening of roads/lanes, storm water drains etc. Cable routes shall be planned away from the drains and should be within the property.
- 14.4.2.5 Whenever cables are laid along well demarcated or established roads, the MV cables shall be laid further from the kerb line than HV cables.
- 14.4.2.6 Cables of different voltages and also power and control cables shall be kept in different trenches with adequate separation. Where available space is restricted, MV cables shall be laid above HV cables.
- 14.4.2.7 Where cables cross one another the cable of higher voltage shall be laid at a lower level than the cable of lower voltage.

- 14.5.2 Where necessary, joint inspection with representatives of other authorities may be arranged so that mutual interests are safeguarded. In case of private property, Section 12/51 of the Indian Electricity Act shall be complied with.

14.6 PROXIMITY TO COMMUNICATION CABLES

Power and communication cables shall as far possible cross at right angles. Where power cables are laid in proximity communication cables the horizontal and vertical clearances shall not normally be less than 60 cms.

14.6.1 LAYING METHODS

- 14.6.1.1 Cables shall be laid direct in ground or in pipes/closed ducts, in open ducts or on cable trays suspended from slab depending on site conditions.

14.6.2 Laying in Pipes/Closed ducts :

- 14.6.2.1 In location such as road crossing, entry to building, on poles, in paved areas etc, cables shall be laid in pipes or closed ducts.

- 14.6.2.2 GI or Hume Pipes (spun reinforced concrete pipes) shall be used for such purposes. In the case of new construction, pipes as required shall be laid along with the Civil works and jointed according to the instructions of the Engineer-in-Charge as the case may be. The size of pipe shall be as indicated in the electrical drawings. GI pipe shall be laid directly in ground without any special bed. Hume pipe (Spun reinforced concrete pipe) shall be laid over 10 cm. thick cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate of 40mm nominal size) bed, after which it shall be completely embedded in concrete. No sand cushioning or tiles need be used in such situations. Unless otherwise specified, the top surface of pipes shall be at a minimum depth of 1mtr. from the ground level when laid under roads, pavement etc.

सुरेन्द्र मोहन
सहायक लेखाधिकारी स्तर-III
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

रवि शर्मा
सहायक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

इफतेखार अली
स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

- 14.6.2.3 Where steel pipes are employed for protection of single core cables feeding AC load, the pipe should be large enough to contain both cables in the case of single phase system and all cables in the case of polyphase system.
- 14.6.2.4 The pipes on road crossing shall preferably be on the skew to reduce the angle of bends as the cable enters and leaves the crossings. This is particularly important for high voltage cables.
- 14.6.2.5 Manholes of adequate size as decided by the Engineer-in-Charge shall be provided to facilitate feeding/drawing in of cables and to provide working space for persons. They shall be covered by suitable manhole covers with frame of proper design. The construction of manholes and providing the cover is not in the scope of this Contract and shall be got executed and paid for by the Engineer-in-Charge through another agency.
- 14.6.2.6 Pipes shall be continuous and clear of debris or concrete before cable is drawn. Sharp edges at ends shall be smoothened to prevent injury to cable insulation or sheathing.
- 14.6.2.7 Pipes for cable entries to the building shall slope downwards from the building and suitably sealed to prevent entry of water inside the building. Further the mouth of the pipes at the building end shall be suitably sealed to avoid entry of water. This seal in addition to being waterproof shall also be fireproof.
- 14.6.2.8 All chases and passages necessary for lying of service cable connections to buildings shall be cut as required and made good to the original finish and to the satisfaction of the Engineer-in-Charge.
- 14.6.2.9 Cable grips/draw wires and winches etc. may be employed for drawing cables through pipes/closed ducts etc.

14.6.3 Laying on Cable Trays

- 14.6.3.1 Cables, where indicated in approved shop drawings, shall be laid on overhead cable trays which are suspended from ceiling or supported from wall, by anchor fasteners as required.
- 14.6.3.2 The Contractor shall provide for all accessories for the installation of the cable trays, such as bends, tees, reducers coupler plates, trifol clamps and structural steel members (comprising of channels, angles, flats, rods) to be fabricated at site for structural supports for cable trays racks etc.

14.6.4 Termination

Brass single compression glands shall be provided for MV cables termination

14.6.5 Testing

- 14.6.5.1 All 650/1100 Volt grade cables before laying shall be tested with a 500 V megger or with a 2,500/5,000 V megger for cables of higher voltages. The cable cores shall be tested for continuity, absence of cross phasing, insulation resistance to earth/sheath/armour and insulation resistance between conductors.
- 14.6.5.2 All cables shall be subject to above mentioned tests during laying, before covering the cables by protective covers and back filling and also before the jointing operations.

15.0 CABLE TRAYS

- 15.1 Prefabricated Cable trays of ladder type and associated accessories, tees, bends, elbows & reducers shall be fabricated from 12 gauge (2.6 mm thick) mild steel. Perforated cable trays and associated accessories tees, elbows, and reducers shall be fabricated from 14 gauge (2 mm thick) MS steel.
- 15.2 Cable trays and accessories and covers shall be painted with one shop coat of red oxide zinc chromate primer and two coats of Aluminium alkylid paint.

सुरेन्द्र मोहन

सहायक लेखाधिकारी स्तर-II

30 प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

सहा० अभियन्ता (वि०)

30 प्र० राजकीय निर्माण निगम लि०

विद्युत इकाई हाईकोर्ट

लखनऊ।

इपतेखार अली

स्थानिक अभियन्ता (वि०)

30 प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

धनुराग यादव

अपर परियोजना प्रबन्धक (वि०)

30 प्र० राजकीय निर्माण निगम लि०

हाईकोर्ट विद्युत इकाई, लखनऊ

- 15.3 The Contractor shall provide for all accessories for the installation of the cable trays, such as bends, tees, reducers coupler plates, trifoil clamps and structural steel members (comprising of channels, angles, flats, rods) to be fabricated at site for structural supports for cable trays racks etc.

16.0 EARTHING

This section covers detailed requirements for earthing.

16.1 GENERAL

- 16.1.1 The non-current carrying metal parts of electrical installation shall be earthed properly. All metallic structure, enclosures, junction boxes, outlet boxes, cabinets, machine frame, portable equipments, metal conduits, trunking, cable armour, switchgear, distribution boards, lighting fittings and all other parts made of metal in close proximity with electrical circuits shall be bonded together and connected by means of specified earthing conductors to an efficient earthing system. All earthing will be in conformity with the relevant Indian Electricity Rules 1956 and Indian Standard Specification IS : 3043. Every item of equipment served by the electrical system shall be bonded to earthing system.

- 16.1.2 Every switch, lighting fixture and 5 Amp outlets shall be provided with insulated copper conductor of 1.5 sq. mm for earthing. The computer workstations shall be earthed with 2.5 sq.mm. insulated copper conductor wire.

- 16.1.3 Separate copper earth pits shall be provided for UPS, EPABX & Networking equipment.

- 16.1.4 The raceways shall not be used as a grounding conductor.

16.2 CONNECTION OF EARTHING CONDUCTORS

- 16.2.1 Main earthing conductor shall be taken from the earth connections at the PDB to the earthing pit. Circuit earthing conductor shall run from the exposed metal of equipment and shall be connected to any point on the main earthing conductor, or its distribution boards or to an earth leakage circuit breaker. Metal conduits, cable sheathing and armouring shall be earthed at the ends adjacent to switch boards at which they originate, or otherwise at the commencement of the run by an earthing conductor in effective electrical contact with cable sheathing. Where equipment is connected by flexible cord, all exposed metal parts of equipment shall be earthed with 2 no. G.I. strips/wires and non-current carrying metallic parts with, 1 no. G.I. strips/wires.

- 16.2.2 Neutral conductor, sprinkler pipes, or pipes conveying gas, water or inflammable liquid, structural steel work, metallic enclosures cables and conductors, metallic conduits and lightning protection system conductors shall not be used as a means of earthing an installation or even as a link in earthing system. The Electrical resistance of metallic enclosures for cables and conductors measured between earth connections at the main switch boards and any other point on the completed installation shall be low enough to permit the passage of current necessary to operate circuit breakers and shall not exceed 1 OHM.

16.3 EARTH CONNECTIONS

All metal clad switches and other equipment carrying single phase circuit, shall be connected to earth by a single connection. All metal clad switches carrying 3 phase shall be connected with earth by two separate and distinct connections. The earthing conductor inside the building wherever exposed shall be properly protected from mechanical injury by running the same in GI pipe of adequate size. The earthing conductor shall be painted to protect it against corrosion. Earthing conductor outside the building shall be laid 600 mm below finished ground level. The overlapping in G.I. strips in joints shall be welded. Lugs of adequate capacity and size shall be used for all termination of conductor wires. Lugs shall be bolted to the equipment body to be earthed after the metal is cleaned of paint and other oily substance and properly tinned.

सुरेन्द्र मोहन

सहायक लेखाधिकारी स्तर
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली

स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुमोदित
अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

16.4 PROTECTION FROM CORROSION

Connection between copper and galvanised equipment shall be made on vertical face and protected with paint and grease. Galvanised fixing clamps shall not be used for fixing earth conductors. Only copper fixing clamp shall be used for fixing earth conductors. When there is evidence that the soil is aggressive to copper, buried earthing conductors shall be protected by suitable serving and sheathing.

16.5 EARTHING STATION

16.5.1 PLATE ELECTRODE EARTHING

16.5.1.1 Earthing electrode shall consist of a Copper plate of 600 mm X 600 mm X 3 mm or G.I. plate of 600mm x 600mm x 6.3 mm as called for in the Schedule of Quantity. The plate electrode shall be buried as far as practicable below permanent moisture level but in any case not less than 3 meters below ground level. Wherever possible, earth electrode shall be located as near the water tap, water drain or a down take pipe as possible. Earth electrode shall be kept clear of the building foundations and in no case shall it be nearer than 2 meters from the outer surface of the wall.

16.5.1.2 The earth plate shall be set vertically and surrounded with 150 mm thick layer of charcoal dust and salt mixture. A 20 mm dia GI pipe shall run from the top edge of the plate to the ground level. The top of the pipe shall be provided with a funnel and a mesh for watering the earth through the pipe. The funnel over the GI pipe shall be housed in a masonry chamber approximately 300 mm x 300 mm x 300 mm deep. The masonry chamber shall be provided with a cast iron cover resting over a CI frame. Test facility shall be provided with test links for the earthing station.

16.5.2 PIPE ELECTRODE EARTHING

Earthing Electrode shall consist of G.I. medium class, 40 mm dia 4.5 m long pipe (without any joint). G.I. pipe Electrode shall be cut, tapered at the bottom and provided with holes of 12 mm dia drilled not, less than 7.5 cm from each other upto 2 M of length from the bottom. Pipe electrode shall be buried in the ground vertically with its top at not less than 200 mm below the ground level. When more than one pipe is to be installed a separation of not less than 2 M shall be maintained between two adjacent electrodes as called for in the drawings. Wherever possible, earth electrode shall be located as near the water tap, water drain or a down take pipe as possible. Earth electrode shall be kept clear of the building foundations and in no case shall it be nearer than 2 meters from the outer surface of the walls. The pipe electrode shall be set vertically and surrounded with 150 mm thick layer of charcoal dust and salt mixture. A 40 mm x 20 mm reducer shall be used for fixing of funnel with mesh. The funnel and mesh have been provided for watering the earth through the pipe. The funnel over the G.I. Pipe shall be housed in a masonry chamber 300mm x 300mm x 300mm deep. The masonry chamber shall be provided with a cast iron cover resting over a CI frame. The broken earth pit will be provided with test links in suitable enclosures.

16.5.3 ARTIFICIAL TREATMENT OF SOIL

If the earth resistance is too high and the multiple electrode earthing does not give adequate low resistance to earth, as specified in Clause no. 7 then the soil resistivity immediately surrounding the earth electrodes shall be reduced by adding sodium chloride, Calcium chloride, sodium carbonate, copper sulphate, salt and soft coke or charcoal in suitable proportions.

16.5.4 RESISTANCE TO EARTH

The resistance to each earthing system shall not exceed 1.0 ohm.

COMMISSIONING & GUARANTEE

1. SCOPE OF WORK

Work under this section shall be executed without any additional cost. The rates quoted in this tender shall be inclusive of the works given in this section.

Contractor shall provide all tools, equipment, metering and testing devices required for the purpose.

सुरेन्द्र मोहन

सहायक लेखाधिकारी

30 प्र० राजकीय निर्माण लि

हाईकोर्ट विद्युत इकाई, लखनऊ

सहायक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अपर परियोजना प्रबन्धक (वि०)
30 प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

On award of work, Contractor shall submit a detailed proposal giving methods of testing and gauging the performance of the equipment to be supplied and installed under this contract.

All tests shall be made in the presence of the Architect or his representative or any inspecting authority. At least five working days notice in writing shall be given to the inspecting parties before performing any test.

Water flow rates of all equipment and in pipe lines through valves shall be adjusted to design conditions. Complete results of adjustments shall be recorded and submitted.

Contractor shall ensure proper balancing of the hydraulic system and for the pipes / valves installed in his scope of work by regulating the flow rates in the pipe line by valve operation. The contractor shall also provide permanent Tee connection (with plug) in water supply lines for ease of installing pressure gauge, temperature gauge & rotameters. Contractor shall also supply all required pressure gauge, temperature gauge & rotameter for system commissioning and balancing. The balancing shall be to the satisfaction of Consultant / Project Manager.

Three copies of all test results shall be submitted to the Engineer in A4 size sheet paper within two weeks after completion of the tests.

2 PRECOMMISSIONING

On completion of the installation of all pumps, piping, valves, pipe connections, insulation etc. the Contractor shall proceed as follows:

2.1 Prior to start-up and hydraulic testing, the Contractor shall clean the entire installation including all fittings and pipe work and the like after installation and keep them in a new condition. All pumping systems shall be flushed and drained at least once through to get rid of contaminating materials. All pipes shall be rodded to ensure clearance of debris, cleaning and flushing shall be carried out in sections as the installation becomes completed.

- All strainers shall be inspected and cleaned out or replaced.
- Check all clamps, supports and hangers provided for the pipes.
- Check all the equipment, piping and valves coming under hot water system and operate each and every valve on the system to see if the valves are functioning properly. Thereafter conduct & hydro test of the system as for (b) above.
- Fill up pipes with water and apply hydrostatic pressure to the system as given in the relevant section of the specification. If any leakage is found, rectify the same and retest the pipes.

3 FINAL ACCEPTANCE TESTS

Following commissioning and inspection of the entire installation, and prior to issue of the Completion Certificate, the Contractor shall carry out final acceptance tests in accordance with a programme to be agreed with the Architect.

Should the results of the acceptance tests show that plant, systems and/or equipment fail to perform to the efficiencies or other performance figures as given in this Specification, the Contractor shall adjust, modify and if necessary replace the equipment without further payment in order that the required performance is obtained.

Where acceptance tests are required by the relevant Authorities having jurisdiction, these tests shall be carried out by the Contractor prior to the issue of Completion Certificate to the acceptance of the Authorities.

सुरेन्द्र मोहन
प्रमुख लेखाधिकारी स्तर-II
राजकीय निर्माण निगम लि०
मेट विद्युत इकाई, लखनऊ

रवि शर्मा
सहाय अभियन्ता (वि०)
उ०प्र०रा०नि०नि०लि०
विद्युत इकाई हाईकोर्ट
लखनऊ।

इफतेखार अली
स्थानिक अभियन्ता (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ

अनुराग यादव
अपर परियोजना प्रबन्धक (वि०)
उ० प्र० राजकीय निर्माण निगम लि०
हाईकोर्ट विद्युत इकाई, लखनऊ



उ०प्र० राजकीय निर्माण निगम लि०

(उत्तर प्रदेश सरकार का उपक्रम)

मुख्यालय:-विश्वेश्वरैया भवन, विभूति खण्ड, गोमती, नगर लखनऊ
पी०बी०एक्स० संख्या- 2720671, 2720665, 2720670 Fax: 2720846

ISO 9001:2008 (QMS)

&

ISO 14001:2004 (EMS) CERTIFIED

(CIN)-U85320 UP 1975SGC004116

पत्रांक- 1107/म०प्र० (तक०)/निविदा सर्कुलर फा०/रा०नि०लि०/2024 दिनांक 15/03/2024
सेवा में,

1. वित्तीय परामर्शदाता, उ०प्र०रा०नि०लि०, मुख्यालय लखनऊ।
2. महाप्रबन्धक (वाणिज्य), उ०प्र०रा०नि०लि०, मुख्यालय लखनऊ।
3. महाप्रबन्धक (विधि), उ०प्र०रा०नि०लि०, मुख्यालय लखनऊ।
4. महाप्रबन्धक (संविदा), उ०प्र०रा०नि०लि०, मुख्यालय लखनऊ।
5. महाप्रबन्धक (यॉन्त्रिक), उ०प्र०रा०नि०लि०, मुख्यालय लखनऊ।
6. महाप्रबन्धक (कन्सल्टेंसी अंचल), उ०प्र०रा०नि०लि०, मुख्यालय लखनऊ।
7. महाप्रबन्धक (लखनऊ अंचल-1), उ०प्र०रा०नि०लि०, लखनऊ।
8. महाप्रबन्धक (लखनऊ अंचल-2), उ०प्र०रा०नि०लि०, लखनऊ।
9. महाप्रबन्धक (प्रयागराज अंचल), उ०प्र०रा०नि०लि०, प्रयागराज।
10. महाप्रबन्धक (वाराणसी अंचल), उ०प्र०रा०नि०लि०, वाराणसी।
11. महाप्रबन्धक (गोरखपुर अंचल), उ०प्र०रा०नि०लि०, गोरखपुर।
12. महाप्रबन्धक (पटना अंचल), उ०प्र०रा०नि०लि०, पटना।
13. महाप्रबन्धक (आगरा अंचल), उ०प्र०रा०नि०लि०, आगरा।
14. महाप्रबन्धक (दिल्ली अंचल), उ०प्र०रा०नि०लि०, सेक्टर-62, नोएडा।
15. महाप्रबन्धक (बरेली अंचल), उ०प्र०रा०नि०लि०, बरेली।
16. महाप्रबन्धक (उत्तरांचल), उ०प्र०रा०नि०लि०, देहरादून।
17. महाप्रबन्धक (विद्युत अंचल-1), उ०प्र०रा०नि०लि०, मुख्यालय, लखनऊ।
18. महाप्रबन्धक (विद्युत अंचल-2), उ०प्र०रा०नि०लि०, दिल्ली।
19. महाप्रबन्धक (विद्युत अंचल-3), उ०प्र०रा०नि०लि०, बरेली।
20. महाप्रबन्धक (विद्युत अंचल-4), उ०प्र०रा०नि०लि०, मुख्यालय, लखनऊ।

विषय:- दिनांक 13 फरवरी 2024 को सम्पन्न निदेशक मण्डल की 195वीं बैठक के विषयवस्तु संख्या-195/19 पर निदेशक मण्डल द्वारा दिये गये निर्देशों के अनुपालन में निविदा कार्यों पर कार्य करने हेतु अद्यतन मानक बिड डाक्यूमेन्ट में प्रथम संशोधन प्रपत्र से सम्बन्धित।


महोदय,

उपरोक्त विषयक मुख्यालय के पत्रांक-102/म०प्र०(तक०)/निविदा फा०/रा०नि०/2020 दिनांक 19.01.2020 द्वारा निविदा कार्यों में प्रयोगार्थ मानक बिड डाक्यूमेन्ट निर्गत किया गया है। दिनांक 13 फरवरी 2024 को सम्पन्न निदेशक मण्डल की 195वीं बैठक के विषयवस्तु संख्या-195/19 पर निदेशक मण्डल द्वारा दिये गये निर्देशों के अनुपालन में मुख्यालय स्तर पर गठित उच्च स्तरीय निविदा समिति की बैठक में वृहद विचार-विमर्श के उपरांत इस मानक बिड डाक्यूमेन्ट में प्रथम संशोधन किया गया है तथा इसका अनुमोदन मुख्यालय स्तर पर गठित उच्च स्तरीय निविदा समिति के माध्यम से प्रबन्ध निदेशक द्वारा किया गया है। संशोधन का विवरण संलग्न कर इस आशय के साथ प्रेषित किया जा रहा है कि कृपया निविदा आमन्त्रित करते समय उक्त का समावेश बिड डाक्यूमेन्ट किया जाना सुनिश्चित करें।

उपरोक्त आदेश प्रबन्ध निदेशक महोदय के अनुमोदनोपरान्त निर्गत किये जा रहे हैं।

संलग्नक:- उपरोक्तानुसार।

भवदीय,


(राधाकृष्ण)

महाप्रबन्धक (तकनीकी)/संयोजक

प्रतिलिपि:-

1. निजी सचिव- प्रबन्ध निदेशक, उ०प्र० राजकीय निर्माण निगम लि०, मुख्यालय लखनऊ को प्रबन्ध निदेशक महोदय के संज्ञानार्थ प्रेषित।
2. महाप्रबन्धक (कन्सल्टेंसी अंचल), उ०प्र० राजकीय निर्माण निगम लि०, मुख्यालय लखनऊ को इस आशय के साथ प्रेषित कि कृपया निर्माण निगम की वेबसाईट पर अपलोड कराये जाने हेतु सम्बन्धित को निर्देशित करने का कष्ट करें।

महाप्रबन्धक (तकनीकी)/संयोजक


Subject: Modification in clauses of standard bid document 2020 (SBD-C1) for building construction work.

The following modification is made in the STANDARD BID DOCUMENT 2020 (SBD-C1) For Building Construction Work.

Sl. No.	Ref. and Page No.	Existing Provision	Modified Provision
1	Deduction for Project Overhead, Enabling Works, Vehicles, Drivers, and Quality Assurance	Nil	<p>Clause [New Clause]: Deduction for Project Overhead, Enabling Works, Vehicles, Drivers, and Quality Assurance.</p> <p>a. Purpose of Deduction: To cover the costs associated with project overhead, enabling works, vehicles, drivers, and quality assurance, the UPRNN shall deduct 2% of the amount of each running and final bill payment submitted by the Contractor. This deduction is intended to ensure that the UPRNN can adequately manage the project, provide necessary support infrastructure, and maintain required quality standards throughout the construction process.</p> <p>b. Calculation and Application: The 2% deduction shall be calculated based on the gross amount of each running and final bill payment before any other deductions or withholdings are applied. This deduction shall be made from each payment without any further authorization or approval required from the Contractor.</p>

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संयोजक निविदा
मुख्यालय रायपुर।

			<p>c. Running Bill Payments: For each running bill payment submitted by the Contractor, the UPRNN shall deduct 2% of the billed amount on account of project overhead, enabling works, vehicles, drivers, and quality assurance. The net payment to the Contractor shall reflect this deduction.</p> <p>d. Final Bill Payment: Upon the completion of the Work and submission of the final bill by the Contractor, the UPRNN shall deduct 2% of the final billed amount on account of project overhead, enabling works, vehicles, drivers, and quality assurance. The net final payment to the Contractor shall reflect this deduction.</p> <p>e. No Waiver: The application of this 2% deduction shall not be construed as a waiver of the UPRNN's right to enforce any other provisions of this Agreement, nor shall it relieve the Contractor of any of its obligations or responsibilities under this Agreement. By including this clause in the Agreement, both parties acknowledge and agree to the terms and conditions set forth herein regarding the 2% deduction for project overhead, enabling works, vehicles, drivers, and quality assurance.</p>
2	11. Testing of Materials: / Page No- 88-89	11. Testing of Materials: i. Samples of various materials, required for testing should be exact	1. Testing of Materials: • Material Representation and Testing: Samples of various materials needed for testing



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राज्य अभियन्ता परिषद्,
मुंबई


महाप्रबन्धक (तक०)

		<p>representation of the material intended to be used in the work. The procurement of materials shall be done only after satisfactory test results have been received. All incidental expenditure required such as taking the samples, conveyance, packing etc. shall be borne by the contractor himself.</p> <p>B.I.S marked materials shall also be got tested beyond certain quantity of the various items required on the works.</p> <p>ii. Laboratory at site: The contractor shall establish a testing lab at site and provide testing equipment and materials for the field tests mentioned in the list of mandatory tests given in PWD Specifications, BIS and as per bid document. Nothing extra shall be payable to him on this account. The representatives of the department shall be at liberty to inspect the testing facilities at site and conduct testing at random in consultation with Engineer in charge. The contractor shall provide all necessary facilities for the purpose. The contractor shall provide the laboratory equipments as per the list mentioned in Schedule-F.</p>	<p>must be exact representations of the materials intended for use in the project. Procurement of materials should only proceed after satisfactory test results have been obtained. This ensures that the materials meet the required standards and specifications before being used in the construction work.</p> <ul style="list-style-type: none"> • B.I.S. Marked Materials Testing: Materials bearing the B.I.S. (Bureau of Indian Standards) mark, which signifies compliance with Indian standards, shall also undergo testing beyond a certain quantity of the various items required for the works. This ensures that even materials with established standards are tested to ensure consistency and quality in the construction. <p>2. Laboratory:</p> <p>i. Establishment and Maintenance:</p> <ul style="list-style-type: none"> o The contractor must set up and maintain a site laboratory within 15 days of being awarded the contract. The laboratory should have specified minimum equipment and qualified staff to operate them. No extra payment will be made for this. <p>ii. Sample Keeping Room:</p> <ul style="list-style-type: none"> o A room of at least 40 sqm must be constructed by the contractor for storing approved materials brought to the site.
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	<p>iii. Not less than 90% tests for material be performed at site lab with above stated equipment's, however at least 10% testing of materials shall be got done from external other laboratories. However, for the tests to be carried out by the external laboratories, the contractor shall supply free of charge all the materials required for testing, including transportation. If the tests which were to be conducted in the site laboratory are conducted in other laboratories for any the reasons the cost of such tests shall be borne by the contractor.</p> <p>iv. Other Laboratories: The contractor shall arrange carrying out all tests required under the Agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection there with including charges for testing for all materials except cement for which separate condition is provided in tender document.</p> <p>v. The tests, as necessary, shall be conducted in the following laboratory. The samples shall be taken for carrying out all or any of</p>	<p>No extra payment will be made for this.</p> <p>iii. Failure to comply above conditions will result in a penalty @ Rs. 2,50,000 per month on pro-rata bases.</p> <p>iv. Demolition:</p> <p>o All structures related to the laboratory must be demolished and clear the site after the completion of work, and the dismantled material becomes the property of the contractor.</p> <p>3. Site Office:</p> <p>i. Construction of Temporary Site Office:</p> <p>o The contractor is responsible for arranging and constructing a furnished temporary site office during the project execution.</p> <p>ii. Demolition:</p> <p>o Similar to the laboratory, all structures related to the site office must be demolished and clear the site after project completion, and the dismantled material belongs to the contractor.</p> <p>iii. Watch and Ward Responsibility:</p> <p>o The contractor shall responsible for the security of the site office, construction materials, and the site until project handover to the client.</p> <p>4. Testing Procedure:</p> <p>i. Percentage of Testing at Site Lab:</p> <p>o The contractor must perform at least 90% of material tests as</p>
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	<p>the tests as directed by the Engineer-in-Charge or his authorized representative.</p> <p>a) NIT / IIT. b) CBRI, Roorkee c) CRRI, Delhi. d) National Council for Cement and Building Materials, BallabhGarh. e) National Test House, Ghaziabad f) Government Engineering College/ University g) Shree Ram Testing Laboratory Delhi h) Any other NABL approved lab as per Engineer-in-Charge.</p> <p>vi. Approval is required for Testing in these Laboratories / Institutes. However, the outside Private Laboratories shall be got approved from the Engineer-in-charge, if no approved labs as above is available within 200 kms of the work site. A particular private lab shall be approved for specified tests and work / project. The approving authority will specify the tests while approving the laboratories.</p> <p>vii. The cost of test required for all the materials shall be borne by the Contractor until unless specified elsewhere in the NIT.</p>	<p>per norms at the site laboratory using the specified equipment. However, 10% of the testing shall be conducted by UPRNN through external laboratories approved by E-in C. The contractor shall be responsible for providing all necessary material samples for these external tests, including transportation, free of charge.</p> <p>ii. Designated Laboratories: o Tests may be conducted at various designated laboratories such as NIT/IIT, CBRI Roorkee, CRRI Delhi, National Council for Cement and Building Materials Ballabh Garh, National Test House Ghaziabad, Government Engineering Colleges/Universities, Shree Ram Testing Laboratory Delhi, or any other NABL approved labs directed by the Engineer-in-Charge.</p> <p>iii. Approval Process: o The contractor must seek approval for testing in external laboratories/institutes. If no approved labs are available within 200 kilometers of the work site, private laboratories may be approved for specified tests and projects. The approving authority will specify the tests while approving the laboratories.</p> <p>iv. Cost of Tests conducted by UPRNN: o The cost of tests is to be borne either by the contractor or the UPRNN depending on the results:</p>
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 (आरुण कुमार सिंह)
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 मुख्यालय, लखनऊ।


 महाप्रबन्धक (तक०)

			<p>If the results indicate non-conformance with relevant specifications, the contractor bears the cost.</p> <p>If the results indicate conformance, the UPRNN bears the cost.</p> <p>v. Testing Charges in UPRNN Laboratories:</p> <p>o If the contractor opts to use UPRNN laboratories for material testing, testing charges will be recovered from the contractor based on the current UPPWD material testing price list.</p>
	New SCC		<p>Quality Expert Visit: -</p> <p>UPRNN (Uttar Pradesh Rajkiya Nirman Nigam) is responsible for organizing visits from a Quality Expert from IIT/NIT/GFTI (Indian Institutes of Technology, National Institutes of Technology, or Government Funded Technical Institutes) as approved by the Client/UPRNN once in every three months. However, it specifies that the contractor will bear the cost of these visits.</p>
	PageNo-114	<p>Additional Condition of VEHICLE:</p> <p>Vehicles:</p> <p>i) For projects above Rs. 25 crores tender cost</p> <p>The Contractor shall provide ,establish and maintain two vehicles of powered vehicles (not old more than 2 years) with driver (such as Bolero/Innova/Scorpio etc</p>	<p>Additional Condition of Imported Materials:</p> <p>The contractor shall produce all original documents of Custom & other clearances of all the materials imported (if any) up to the quantity to be used for tendered work before use.</p>


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 उ०प्र०रा०नि०नि०रि०
 मुख्यालय रायबरेली।


 महाप्रबन्धक (तक०)

as per satisfaction of engineer in charge) for UPRNN site staff use on this project within 15 days of acceptance of tender. In case of non-compliance of the same, a penalty/recovery @ Rs.60,000/- per month per vehicle may be made from the contractor on prorated daily wages. In addition, the vehicle to be used by Engineer-in-charge shall be adjusted from the contractor as per the UPRNN taxi charges.

ii) For projects above Rs. 25 crores tender cost

The contractor shall provide one vehicle of powered vehicle (not old more than 2 years) with fuel & driver such as (Tata indigo/Honda amaze/swift desire/ford figo aspire etc) as per satisfaction of engineer in charge for UPRNN staff use on this project within 15 days of acceptance of tender. In case of non-compliance of the same penalty/recovery @ 50,000/- per month may be made from the contractor on prorated daily wages. In addition the vehicle to be used by engineer in charge shall be adjusted from the contractor as per the UPRNN taxi charges (rates offered by HQ).

		The contractor shall produce all original documents of Custom & other clearances of all the materials imported (if any) up to the quantity to be used for tendered work before use.	
	Page No-113	<p>LABORATORY AND SITE OFFICE:</p> <p>a) Laboratory</p> <p>1 A site laboratory with the minimum equipment as specified above shall be established, made functional and maintained within fifteen days from the award of work without any extra cost to the department. In case of non-compliance of the same, a penalty/ recovery @ Rs.2,50,000 /- per month may be made from the contractor on prorated daily wages. The Contractor shall be required to arrange all the relevant codes and standards along with qualified staff to handle/operate testing equipment.</p> <p>b) Site Office</p> <p>i) For projects of above Rs. 25 crores tender cost</p> <p>2 The contractor has to provide free of cost six office rooms with three toilets with the approval of Engineer- in-charge for the purpose site office of field staff of UPRN</p>	<p>1. Laboratory:</p> <p>i. Establishment and Maintenance:</p> <p>o The contractor must set up and maintain a site laboratory within 15 days of being awarded the contract. The laboratory should have specified minimum equipment and qualified staff to operate them. No extra payment will be made for this.</p> <p>ii. Sample Keeping Room:</p> <p>o A room of at least 40 sqm must be constructed by the contractor for storing approved materials brought to the site. No extra payment will be made for this.</p> <p>iii. Failure to comply above conditions will result in a penalty @ Rs. 2,50,000 per month on pro-rata bases.</p> <p>iv. Demolition:</p> <p>o All structures related to the laboratory must be demolished and clear the site after the completion of work, and the dismantled material becomes the property of the contractor.</p> <p>2. Site Office:</p> <p>i. Construction of Temporary Site Office:</p> <p>o The contractor is responsible for arranging and constructing</p>

		<p>(Approx. 135 sqm) and one conference hall of capacity of fifteen (15) persons (Minimum Size 8.00mX4.50m) with one toilet for the purpose of holding meetings during the inspection of senior officers of UPRNN/ third party/client department etc.</p> <p>3 The contractor has to also make arrangement for furnishing of this site office as well as the conference hall with appropriate numbers of tables, chairs, conference table, ceiling fans, electric fittings, six no's air conditioners, telephone ,internet, photocopier, computer with printer and operator, regular electric and purified drinking water facility and other furniture as per direction of Engineer-in-charge. No extra payment on account of this shall be made to the contractor.</p> <p>4 One sample keeping room of minimum area of 40 sqm must also be constructed at site for keeping various materials brought by the contractor at site and approved by the Engineer-in-charge. No extra payment on account of this shall be made to the contractor.</p> <p>5 All the above structures</p>	<p>a furnished temporary site office during the project execution.</p> <p>ii. Demolition: o Similar to the laboratory, all structures related to the site office must be demolished and clear the site after project completion, and the dismantled material belongs to the contractor.</p> <p>iii. Watch and Ward Responsibility: o The contractor shall responsible for the security of the site office, construction materials, and the site until project handover to the client.</p>
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		<p>should be decent looking and shall be constructed as per direction of Engineer- in-charge.</p> <p>6 All the above structure shall be demolished after completion of work and the dismantled material shall be the property of the contractor.</p> <p>7 In case of non-compliance of the same, a penalty/recovery @ Rs.1, 00,000/- per month may be made from the contractor on pro-rata daily wages.</p> <p>ii) For projects of below Rs. 25 crores tender cost.</p> <p>8 The contractor has to provide free of cost four office rooms with attached toilets with the approval of Engineer-in-charge for the purpose site office of field staff of UPRNN (Approx. 135 sqm).</p> <p>9 The contractor has to also make arrangement for furnishing of this site office with appropriate numbers of tables, chairs, ceiling fans, electric fittings, three no's air conditioners, telephone ,internet, regular electric and purified drinking water facility and other furniture as per direction of Engineer-in-charge. No extra payment on account</p>	
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		<p>of this shall be made to the contractor.</p> <p>10 One sample keeping room of minimum area of 40 sqm must also be constructed at site for keeping various material brought by the contractor at site and approved by the Engineer-in-charge. No extra All the above structures should be decent looking and shall be constructed as per direction of Engineer-in-charge.</p> <p>12 All the above structure shall be demolished after completion of work and the dismantled material shall be the property of the contractor.</p> <p>13 In case of non-compliance of the same, a penalty/recovery @ Rs.1,00,000/- per month may be made from the contractor on pro-rata daily wages.</p>	
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(आर० के० सिंह)
स्थानिक अभियन्ता (सिविल),
उ०प्र० रा० नि० नि० लि०
मुख्यालय लखनऊ।

(राधाकृष्ण)
महाप्रबन्धक (तकनीकी) / संयोजक



उत्तर प्रदेश राजकीय निर्माण निगम लिमिटेड Uttar Pradesh Rajkiya Nirman Nigam Ltd.

(U.P. GOVT. UNDERTAKING)

ISO 9001 : 2008 (QMS) and ISO 14001 : 2004 (EMS) CERTIFIED

CIN No. : U85320 UP 1975SGC004116

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मुख्य कार्यालय

दिनांक : 27/12/2019

Registered Office :

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Vishweshwariya Bhawan, Vibhuti Khand,
Gomtinagar, Lucknow-226010

संख्या 287/37090 (तक-वि.)/साठवर्ग/रानिनि/2019

दिनांक 27-12-2019

महाप्रबन्धक (वि0अं0-1, 2, 3 एवं 4)

महाप्रबन्धक (वाणिज्य/संविदा/तकनीकी/गुणवत्ता नियंत्रण)

उ.प्र. राजकीय निर्माण निगम लि.,

मुख्यालय, लखनऊ।

विषय:- उ.प्र. लोक निर्माण विभाग के पत्र सं0 58/69 बी.पी.विंग/2017, दिनांक 10.01.2018 के अनुरूप उच्च अनावासीय भवनों हेतु प्रयोग में लाई जाने वाली विद्युत सामग्रियों को सूचीबद्ध किये के सम्बन्ध में।

महोदय,

उ.प्र. लोक निर्माण विभाग के पत्रांक 58/69/बी.पी.विंग/2017, दिनांक 10.01.2018 द्वारा उच्च अनावासीय भवनों के प्रयोगार्थ लायी जाने वाली विद्युतीय सामग्रियों को दर्शकृत करने हेतु दिये गये निर्देशों के क्रम में उ.प्र. राजकीय निर्माण निगम द्वारा सम्पादित करायी जा रही विभिन्न परियोजनाओं के अन्तर्गत उच्च अनावासीय भवनों में प्रयोगार्थ प्रचलित करने हेतु विभागीय समिति की सकलित सूची इस कार्यालय के पत्रांक 269/म.प्र.(तक-वि.)/सामग्री वर्गीकरण/रानिनि/2019, दिनांक 06.12.2019 के माध्यम से समस्त अंचलीय महाप्रबन्धकों से सहमति/मन्तव्य प्राप्त करने हेतु प्रेषित की गयी थी।

अति0 प्रबन्ध निदेशक महोदय की अध्यक्षता में दिनांक 13.12.2019 को समस्त अंचलीय महाप्रबन्धकों की बैठक आयोजित की गयी, जिसमें सम्यक् विचारोपरान्त उच्च अनावासीय भवनों हेतु प्रयोग में लायी जाने वाली विद्युतीय सामग्रियों को सूचीबद्ध करते हुए निगम में प्रचलन हेतु संस्तुत किया गया।

उक्त सूची पर सम्यक् विचार-विमर्श के उपरान्त प्रबन्ध निदेशक महोदय द्वारा अनुमोदन प्रदान किया गया है। अतः उच्च अनावासीय भवनों हेतु प्रयोग में लायी जाने वाली विद्युतीय सामग्रियों की सूची संलग्न करते हुए आपसे अपेक्षा की जाती है कि उच्च अनावासीय भवनों में प्रयोग हेतु उ.प्र. राजकीय निर्माण निगम लि0 द्वारा आमंत्रित किये जाने वाले निविदा प्रपत्रों में इन सामग्रियों का समावेश किया जाय, जिससे भवनों की गुणवत्ता उच्च स्तर की रखी जा सके।

संलग्नक-उपरोक्त सूची संलग्न।

भवदीय,

(सी.के. श्रीवास्तव)
महाप्रबन्धक(तक-वि.)

प्रतिलिपि- अति0 प्रबन्ध निदेशक उ.प्र. राजकीय निर्माण निगम लि., मुख्यालय, लखनऊ को साठ सूचनार्थ प्रेषित। समस्त परियोजनाओं (वि0अं0-1)


महाप्रबन्धक(तक-वि.)

(U.K. Singh)


General Manager (EZ-1)

List of approved makes to be incorporated in tender documents for **उच्च अनावसीय भवन**

S.No.	Details of material/equipment	Manufacturer's name/make
(A)	MCB, DB & MCB, Cable & Wires	
1	MCB, Isolator, Industrial Plug Socket, RCCB, RCBO's	Schneider Electric ACTI-9(N)/Legrand (DX3)/Hager/L&T(Exore)/ABB(S200M)/Siemens
2	MCB, DB & Loose wire Box	SchneiderElectric/Legrand/Hager/L&T/ABB(Elegance)/Siemens
3	Change Over Switch	Havells/HPL/Hager/L&T/Socomac
4	Automatic Transfer Switch (ATS)	Asco/Russel/Socomac/Hager ABB/L&T
5	PRLSZH PVC ins. Copper Cond. Single core cable for wiring (ISI marked)	Finolex/RR Kabel/KEI/Havells/Polycab/SEIKO
6	Armoured/Unarmoured telephone cable, Coaxial Cable	Delton/Finolex/RR Kabel/Havells.
7	MS Conduit (ISI marked) with heavy duty MS Conduit pipe accessories.	BEC/JPC/AKG/RMCON (Note: the make of accessories shall be same that of conduit pipe & will comply to IS/4768 Part2-2003)
8	PVC Conduit (ISI marked) (2.0 mm thick) with heavy duty PVC Conduit Pipe accessories.	AKG/Norpack/BEC/Precision/CAP/Seiko
9	Modular Switch, Socket/Telephone socket/cable TV socket/Data outlet socket/fan Regulator/GI Boxes etc.	Legrand (Arteor)/Schneider Electric (Zeneilo)/Wipro(North West-Platia/Hager(Insyta) /MK(Blenze)/Havells(Murano)/Hager
10	Selector Switch & Toggle Switch	Salzer(L&T)/Siemens/Kaycee/Rishabe/ABB MK /Schneider Electric/Legrand.
11	PVC Trunking	MK /Schneider Electric/Legrand.
12	GI Pipe	Tata /Jindal(Hissar)/Prakash Surya ('B' Class only)
13	Paints	ICI/Asian/Berger
14	Terminal Block & Connectors	Elmex/Wago/Hensel/Connectwell
15	Phenolic Laminated sheet/Bakelite sheet	Hylem/Formica(P-I Grand) Mylam/Greenlam (3.00 mm thickness) ISI Marked.
16	Cat-6 cable, Wires & Fiber optic cable	Amp, Avaya /Beldon/Legrand/Molex/Schneider.

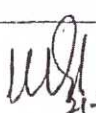


 21-12-19
 (U.K. Singh)
 General Manager (E&T)
 PPRN Ltd. Lko.


महाप्रबन्धक (वि०)
 राजकीय निर्माण निगम लि
 विद्युत अंश-3, बरेली


 (श्री. के. श्रीवास्तव)
 अतिरिक्त महाप्रबन्धक (तक. - वि०)

List of approved makes to be incorporated in tender documents for **उच्च अनावारीय भवन**

S.no.	Details of material/equipment	Manufacturer's name/make
(B) FANS/FITTINGS		
1	LED Fittings Indoor	Phillips/Crompton/Greaves/Havells/Osram/Jaques/Trilux/ Bajaj Lighting Technology (Only UPPWD Cat AAA approved model)
2	Exhaust Fan	Havells/Crompton Greaves/Usha/Almonard/Orient/GE
3	Ceiling Fan	Havells/Crompton Greaves/Usha/Orient/Bajaj
4	Wall Bracket Fitting with LED lamp	Havells/Crompton Greaves/Decon/Phillips/Lighting Technology/Luster /Jaques
5	Lamps/Fluorescent Tubes/T5 Fluorescent Tubes/LED Lamp	Phillips/Crompton Greaves/Havells/Osram/Jaques
6	Geysers	Recold/CG/Havells/Usha/Venus/AO Smith/Jaques
(C) STREET LIGHTING		
1	LED Post Top Fitting	Phillips/Crompton/Greaves/Havells/Osram/KeselacSchreder/Jaques/Lighting Technology/Luster/Wipro/Twinkle
2	LED Street Light Fitting	Phillips/Crompton/Greaves/Havells/Osram/KeselacSchreder/Jaques/Lighting Technology/Twinkle (Only UPPWD Cat AAA approved model)
3	LED Street Light with inbuilt solar panel & controller	Wipro/Phillips/Crompton/Greaves/Havells/Osram/KeselacSchreder/Jaques/Surya/Lighting Technology
4	Ornamental MS & C.I. Pole (Factory Finish)	Valmont/Crompton Greaves/Bajaj/Luster/Twinkle
5	Hot Dipped Galvanized Octagonal Pole (Factory Finish)	Valmont/Crompton Greaves/Bajaj
6	Polycarbonate Junction Box/Enclosure	Hensel/Spelsberg/Neptune-Bals
7	XLPE insulated PVC Sheathed Alum. /Copper conductor Armored cable 1.1 KV grade upto	Finolex/RR Kable/KEI/Havells/Polycab/Universal/RPG
(D) SUB-STATION EQUIPMENTS		
1	LT Panel/Meter Panel Board/Outdoor Feeder Phillar/APFC Panels/Bus Ducts.	
a.	Panels having incoming switch upto 800 amp.	Panel manufactured by UPRNN Empanelled CPRI approved Panel Fabricator with UPPWD Cat. A Switch Gear.
b.	Panels having incoming switch above 800 amp.	TTA Panel, having specification As per IEC 61439 with Cat IV Switch gear.



 21-12-19 महप्रियन्सक (वि०) Page 2 of 10
 (U.K. Singh) उ०प्र० राजकीय निर्माण निगम लि०
 General Manager (EZ-1) विद्युत गंचल-3, नरैली


 (सी.के. श्रीवास्तव)
 अति० महाप्रियन्सक (तक०)

List of approved makes to be incorporated in tender documents for **उच्च अनावारीय गवर्न**

S.no.	Details of material/equipment	Manufacturer's name/make
2	Air Insulated Rising Main	C&S/L&T/Schneider/Legrand
3	Sandwich type Bus Trunking	C&S/L&T/Schneider/Legrand/FAE
4	Moulded Case Circuit Breaker(MCCB) Thermal release/Microprocessor based(Ics=Icu=100%)	Schneider Electric NSX series/ Legrand (DPX3)/L & T (D-Sine)ABB (T Max)/Seimens (VL series)/C & S (Winbreak-1/2
5	Power/Aux. contractor ¼ Pole	Schneider Electric/Legrand/Hager/L&T/ABB Seimens/C&S /BCH
6	Potential transformer/current Transformer	Automatic Electric/Gilbert & Maxwell/Matrix/Precise/L&T/Kappa
7	LED type indicating Lamp/Push Button	Schneider Electric /L&T/Simens/C & S/Vaishno/AE/RISHABH
8	Over load relays	Schneider Electric /L&T/Seimens/C&S /ABB
9	Conventional/Electronic Digital Meters(A/V/PP/HZ/KW/KWH)	Conzerv/L&T/Secure/AE/C&S/HPL
10	Timer	Schneider Electric/Legrand/Hager/L&T/ABB/Seimens/C&S
11	Fastners/GI Clamp	Hilti /Fisher/Chilli/GMGR
12	D.W. Corrugated HDPE Pipe (ISI Marked)	Rex/Duraplast/Tripiti/Duraline/CPE
13-A	Transformer (Oil/Dry Type) (33/0.44 KV)	Crompton/ABB/Schneider/Kirloskar
B	Transformer (Oil/Dry Type) (33/11, 11.04 KV)	As per UPPCL GTP Approved
14	HT Panel/Ring Main unit(33KV & 11 KV)	Crompton/Seimens/ABB/L&T/Schneider/As per UPPCL GTP Approved
15	HT Cable (ISI marked) (33 KV/11 KV)	CCI/KEI/Havells/Polycab/Universal
16	HT End Termination/Cable jointing Kit	Reychem/Denson/Cap Seal/Safekei/3M
17	ACBs with Display	Schneider Electric(Masterpact NW6.0A)/Legrand(DMX3MP4)/L&T (U-Power-OMEGA)/ABB(Emax) PR122/Seimens/3WL-ETU45B)/C&S(Win Master 2.4.1)
18	Rubber Mat	Jyoti/Deer Jyoti/Premier (Duly ISI marked)
19	Ammeter	Rishabh/L&T/AE/C&S/HPL
20	Voltmeter	Rishabh/L&T/AE/C&S/HPL

List of approved makes to be incorporated in tender documents for **उच्च अनावारीय भवन**

S.no.	Details of material/equipment	Manufacturer's name/make
21	Fire Extinguishers (ISI marked)	Minimax/Ceasefire
22	Capacitor & Reactors/APFC Relay	Epccs/L&S/Ducati/ABB/Seimens/Schneider
23	XPLE insulated PVC sheathed Alum. /Copper conductor Armored/Unarmored Cable of 1.1 KV grade <i>above</i>	Finolex/RR Kabel/KEI/Havells/Polycab/Universal/ RRG
24	Cable Glands double compression with Earthing links	Baliga Lighting /Comet/Cosmos/Dowells/Gripwell
25	Bimetallic Cable Lugs	Comet/Dowells/(Biller India)/Hax Brass/Copper Alloy India/Jainson/Action
26	MS/GI Cable Tray	PilcoSlotco/Pasco/MEM/BEC/Steelways/Legrand.
27	Programmable log:c controller (PLC)	Seimens/Allen Bradley/L&T/ABB
(E)	DG SET	
1	Diesel operated generating engine	Cummins India/Caterpillar/AshokLayland /KOEL /Greaves/Volvo Penta/Perkins.
2	Alternator	Stamford/LerroySommer/Kirlosker Electric/ Caterpillar /Crompton
3	DG set canopy/Enclosure & AMF panel	As per OEM/OEA of respective DG set manufacturer
4	Alarm Annucnciator	AdvaniOralikon/L&T/Minilec
(F)	FIRE FIGHTING EQUIPMENTS	
1	MS Pipe	Tata/Jindal(Hissar)/Prakash Surya 'C'-Class
2	GI Pipe	Tata/Jindal(Hissar)/Prakash Surya 'C'-Class
3	Forged steel fittings/f/anges	Johnson Industries/VS forge/JK Forging/Trueforge
4	Forged steel fittings & Flanges(For Welding joints)	VS forge/Rohini/Kanwat Forge/Johnson/Trueforge
5	Pipe Hangers	Chilli/Hilti/GMGR
6	SS/Gun Metal/Brass Valve(ISI marked)/(Full way Globe valve/Non return valve)	Sant/Leader/Advance/Zoloto/Kirloskar

List of approved makes to be incorporated in tender documents for **सुच्च अनावारणीय भवन**

S.no.	Details of material/equipment	Manufacturer's name/make
24	Rust Preventive polymeric 4mm thick tape for pipes directly buried in ground pipe protection	Pypcoat/Marphalt/Rustech/Safex
25	Level Controller & Indicator (Water/ISI Marked)	Autopump/Cirrus Engineers/Techtrol
26	Fire Brigade inlet Connection (ISI Marked)	Minimax/New Age/Padmini/Omex
27	Thermoplastic pipe for first Aid Hose Reel (ISI Marked) Fire Sealent	New Age/Padmini/Omex/Eversafe
28	Fire Sealent	Promat/Birla 3M/Hilti
29	Over Load Relays	Schneider Electric/L&T/Seimens/C&S/ABB
30	Power /Aux. contactor ¾ Pole	Schneider Electric/Legrand/Tagger/L&T/ABB/Siemens/C&S/BCH
31	LED Type indicating lamp/Push Button	Schneider Electric/L&T/Siemens/C&S/ABB
32	LT jointing Kit/Termination	Reychem/Denson/Cap Seal/Safckei/3M
33	RRL Hose Pipe (ISI Marked)	New Age/Padmini/Omex
34	Dry Battery	Exide/AMRON/OEM Supplied.
35	Battery Charger	Statcon/CDC/AE/Expofyn/Thycon India
36	Epoxy Paint	ICI/Asian/Berger/Nerolac
37	Air Release Valve	Rb/Tbs/Cimbrio/Zoloto
38	Analogue/Digital Measuring Instruments (Voltmeter/Ammeter/Energy meter/KW/PE/Multi Function meter)	AE/Rishabh/ L&T/ C&S/Conserve
39	Aluminium/Copper power Cable/Control Cable (Armoured/Unarmoured) Cable glands & Lugs	Finolex/RR Kabel/KEI/Havells/Polycab/Univeral

24-12-19
 (U.K. Singh)
 महाप्रबन्धक (वि०)
 राजकीय निर्माण निगम लि०
 प्रमुख अंचल-3, बरेली

List of approved makes to be incorporated in tender documents for **उच्च अनावारीय गनन**

S.no.	Details of material/equipment	Manufacturer's name/make
40	Cable glands & Lugs	Comet/Dowells/Hax Brass(Copper Alloy India)/Jainson/Action
41	Solenoid Valve/Spray Nozzle	Perker/HD/Tyco/Emersion
42	Sprinkler	HD/Tyco/Reliable/Wormald/Viking
43	Sprinkler Heads/Water Curtain Nozzle	Tyco/Viking/Omex/Newage
44	Steel Flexible Extension	Omex/Newage/Tyco
45	Vibration Eliminator	Resistoflex/D Waren/Kanwal
46	Welding Electrodes	Advani ESAB/L&T
47	Deluge valve	Tyco /Viking/HD
48	Cast Iron Valve	Kirloskar/Kartar/Kalpana/Joloto/Audco/Advance
(G)	FIRE ALARM SYSTEM	
1	Addressable Manual Call box	Notifier/Johnson control/Honeywell/Siemens/Bosch
2	Addressable Type Fault Isolator	Johnson control/Honeywell/Siemens/Bosch/EST(Edwarl)
3	Strobe Lights cum hooter	Notifier/Johnson control/Honeywell/Siemens/Bosch
4	Addressable control modules for hooter	Notifier/Johnson control/Honeywell/Siemens/Bosch
5	Addressable monitor Module for flow switch	Notifier/Johnson control/Honeywell/Siemens/Bosch
6	Addressable type fire alarm control panel	Notifier/Johnson control/Honeywell/Siemens/Bosch
7	Network repeater panel	Notifier/Johnson control/Honeywell/Siemens/Bosch
8	Addressable multi sensing fire detector (Combination of optical type smoke detector and ROR type heat	Notifier/Johnson control/Honeywell/Siemens/Bosch
9	Cat-6 cable, Wire & Fiber optic cable	Amp/Avaya/Beldon/Legrand/Molex/Schneider
10	Response indicator	Apollo/System sensor/Electroquip

(B.R. Singh)

महाप्रबन्धक (वि०) Page 7 of 10

महानगरपालिका (वि०) निर्माण विभाग

List of approved makes to be incorporated in tender documents for **उच्च अनावारणीय गतव**

S.no.	Details of material/equipment	Manufacturer's name/make
(II) WATER SUPPLY PUMPS SETS		
1	Mono submersible Pumps set ..	KSB/CG/Kirloskar
2	Submersible Pump set	KSB/CG/Kirloskar
3	GI Pipe ('B' Class)	Tata/Jindal Hissar/Prakash Surya
4	Sluice Valve/Check Valve/Butterfly Valve/Non Return Valve	Kirloskar/Sant/Leader/Joloto/Audco/Advance
5	Submersible Cable	Finolex /RR Kabel/KEI/Havells/Polycab
(I) EPBAX SYSTEM		
1	EPABX System	Siemens/Cisco/Alcatel/Coral/Panasonic/Avaya
2	Master Console Phone	Siemens/Cisco/Alcatel/Coral/Panasonic/Avaya
3	Telephone instrument	Beetal/Tata/Panasonic/Coral/Seimens/Alcatel
4	18 SWG Steel (Crone box)	Topaz/Coral/Crown
5	Constant Voltage Transformer	Topaz/Bhurji/Delta/Servokon
6	Unarmoured Telephone Wire	Delta/Finolex/RRKabel/Havells
7	Cat-6 Cable, Wires & Fiber optic cable	Amp/Avaya/Beldon/Legrand/Molex/Schneider
(J) AIR CONDITIONER & WATER PURIFIER		
1	Split Air-conditioner (Premier Range)	Mitshubshi Electric/Mitshubshi Heavy Industries/ Toshiba/ general/ Daikin/ Hitachi
2	Window Type Air-conditioner (Premier Range)	O General/Mitshubshi/Hitachi/Daikin
3	Voltage Stabilizer	V Guard/Blue bird/ Voltas/ Servokon/Logicstate
4	RO/Water Purifier	Kent/Ion Exchange/Aquaguard/Venza
5	Drinking Water Cooler	Voltas/Blue Star/Usha
6	Water Cooler with inbuilt RO	Ion Exchange/Aqua guard/Venza/Blue Star
(K) SOLAR WATER HEATING SYSTEM		

24-12-19
(U.K. Singh)

महाप्रबंधक (वि०)

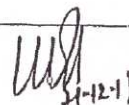
राजकीय निर्माण निगम लि०

Page 8 of 10

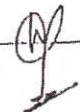
(सी.फ. श्रीवास्तव)
महाप्रबंधक (वि०)

List of approved makes to be incorporated in tender documents for **उच्च अनायासीय शक्ति**

S.no.	Details of material/equipment	Manufacturer's name/make
1	Solar Water Heating System	Inter Solar/Racold/Electrotherm/Rashmi/Photon/Polycan
(L)	LIFT	
1	Lift/Escalater	OTIS/Kone/Mitsubishi/Schindler/OMEGA/Johnson/L.T Elevator/Thyssen crupp
(M)	CCTV SYSTEM	
1	IP Based Camera (Dome/PTZ/Bullet/C-Mount Type)	Bosch/Pelco/Axis/Avizolon/Mobotix/Tyco(Premium Range)
2	Conventional Camera (Dome/PTZ/Bullet/C-Mount Type)	Bosch/Pelco/Axis/Avizolon/Mobotix/Tyco (Premium Range)
3	NVR	Bosch/Pelco/Axis/Avizolon/Mobotix
4	SERVER	HP/DELL/IBM/CISCO
5	STORAGE	HP/DELL/IBM/CISCO
6	Switch	Cisco/Zuniper/Allied Telesis/Extreme/HP/DELL
7	Data Network Cable	Amp/Avaya/Beldon/Legrand/Molex/Schneider
8	VMS	LENSEC/Milestone/Myrasis/Honeywell/Genatics
9	Mounting/Floor Rack	Netrack/Beldon/Comrack/Valrack/Tittal
10	Media Convertor	Cisco/Zyxel/Zuniper/Brocade/Allied Telesis
11	Fire Wall	Zyxel/Fortinet/Cisco/Sophos/Check point
12	Passive Components	Molex/Amp/Beldon
(N)	Uninterrupted Power Supply (UPS)	
1	Online/Offline UPS	Numeric/Eaton/APC/Vertiv/Delta
(O)	Solar Power Generation System	
1	Solar Power Generation System	REIL/REC/SOLON/VIKRAM/ABB/MOSER BEAR/WIPRO/MNRE Grade SP1B & Above Tata
2	Junction Box	VNT/SUN GARNER/OEM of SPV Modules



 31-12-17
 (U.K. Singh)
 General Manager (F7.1)
 महानगरपालिका (वि०)
 प्र० राजकीय निर्माण निर्माण वि०
 विद्युत अंचल-३, बरेली

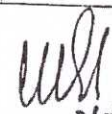
Page 9 of 10



 (U.K. Singh)
 महानगरपालिका (वि०)

List of approved makes to be incorporated in tender documents for **सूच्य अनावसीय मय-

10.	Details of material/equipment	Manufacturer's name/make
3	SPV Inverter	Sungrow/Delta/SMA/ABB
4	Module Mounting Structure	As per MNRE/Manufacturer's Standard
5	XLPE Aluminum/ Copper Cable	Finolex/R R Kabel/KEI/Havells/Polycab/Universal/Gran
6	Solar Cable XLPO Insulated (DC)	RR Kabel/Polycab/Havells/Finolex/Lapp/Paragon (Elect
(P)	Chemical Earthing	
1	Earthing GI Copper	Ash, SABO, BEST, CONNECT
2	Lighting Arressor	Franklin (Piezo Electric Based)
(Q)	Central Air Conditioning	
1	HVAC System	York, Train, DB, Voltas, Daikin, chillers
2	VRV System	Daikin, Hitach, Mistubush, Toshiba, Blue Star


 महाप्रबन्धक (वि०)
 उ०प्र० राजकीय निर्माण निगम लि०
 विद्युत अंचल-३, बरेली


 21-12-19
 (U.K. Singh)
 General Manager (EZ-1)
 UPRRN Ltd. Lko


 (श्री.क. श्रीवास्तव)
 अतिरिक्त महाप्रबन्धक (वि०)

