



U.P. Project Corporation Ltd.

(ISO 9001:2015 Certified Company)

Gomti Barrage, Left Bank, Gomti Nagar, Lucknow—226010

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**OFFICE OF THE GENERAL MANAGER/ PROJECT MANAGER
ADDRESS GOMTI BARRAGE LEFT BANK, GOMTI NAGAR LUCKNOW**

**NAME OF WORK- CONSTRUCTION OF GAURAV MUSEUM PHASE-II
AT DISTT. GORAKHPUR**

THIS BID DOCUMENT CONSISTS OF:

VOLUME A- TECHNICAL BID/ELIGIBILITY BID (IN ENVELOPE 1)

TO BE OPENED ON 15.06.2026

**VOLUME B- FINANCIAL BID
(IN ENVELOPE 2)**

**DATE, TIME & PLACE OF OPENING TO BE INTIMATED ONLY TO THOSE BIDDERS WHO QUALIFY THE TECHNICAL BID.
(FOR CIVIL WORKS ONLY)**

(In Envelope 1)

Volume-A

**Technical BID
(Eligibility bid)**

***Name of work- Construction of Gaurav Museum Phase-II at
Distt. Gorakhpur***

Note:-The intending bidder must read the terms and conditions carefully. He should submit his bid only if he considers himself eligible and he is in possession of all the requisite documents.

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U.P. Project Corporation Ltd.
(ISO 9001:2015 Certified Company)
Office of the General Manager Zone-3
Gomti Barrage, Left Bank, Gomti Nagar, Lucknow-226010

Notice No. - 17/GM-3/UPPCL/2026-27/

Dated: 30.05.2026

Short-Term e-Tender Notice

U.P Projects Corporation Limited (A. U.P. Government undertaking) invites percentage rate Tenders (Two Envelope System) From eligible contractor/firms registered for with U.P Projects Corporation Ltd. (Category specified in column 9) for following work. Bidders are advised to note minimum qualification criteria.

| Sl. No / | Name of work | Estimated cost Approx. (in Lacs) With GST | Bid Earnest Money (Rs. In Lacs) | Tender Processing Fee (with GST) | Time of Completion | Address of Unit | Address of tender Receiving Officer | Category of Registered Contractor |
|----------|--|---|---------------------------------|----------------------------------|---|---|--|-----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | Construction of Gaurav Museum Phase-II at Distt. Gorakhpur | 1673.53 | 33.47 | 17700.00 | 12 (Twelve) Months (Including rainy season) | Project Manager, Unit-29, U.P. Projects Corporation Ltd., Add. H.No. 87-A, Chand Bhawan, Near Rachit Hospital, Daudpur, Gorakhpur UP- 273001 (Mob. No. 94157 63565) | General Manager, Zone-3, U.P. Projects Corporation Ltd., Gomti Barrage, Left Bank, Gomti Nagar Lucknow Mobile No. 9454419131 | "Class A" or above |

The tender document can be downloaded from the website [www.http://etender.up.nic.in](http://etender.up.nic.in) during the period **06.06.2026 to 15.06.2026** The tender should be submitted up to **3.00 PM** on **15.06.2026** The technical bid shall be opened at same day on **04.00 P.M.** at the office of General Manager, Zone-3, U.P. Projects Corporation Ltd. Lucknow.

Prospective bidders are advised to regularly check through U.P. Projects Corporation Ltd. Web site www.upprojects.org and e-tendering web site [www.http://etender.up.nic.in](http://etender.up.nic.in) for all other terms and conditions, qualifying criteria, corrigendum / amendments etc., if any, separate advertisement will not be made for the same. For any clarifications / queries the prospective bidders may contact office of the person given in col. No.7 & 8. Undersigned reserves the right to reject any or all the tenders without assigning any reason.

AS/ 30/5/26
General Manager, Zone-3,
U.P. Projects Corporation Ltd.
Lucknow.

U.P. PROJECT CORPORATION LTD.

INVITATION FOR BID

Online e-bids are invited for 2 bids system from eligible contractors. Bidders are advised to note the minimum qualification criteria.

| Sl. No / | Name of work | Estimated cost Approx. (in lacs) With GST | Bid Earnest Money (Rs. In Lacs) | Tender Processing Fee | Time of Completion | Address of Unit | Address of tender Receiving Officer | Category of Registered Contractor |
|----------|--|---|---------------------------------|-----------------------|---|--|---|-----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | Construction of Gaurav Museum Phase-II at Distt. Gorakhpur | 1673.53 | 33.47 | 17700.00 | 12 (Twelve) Months (Including rainy season) | Project Manager, Unit-29, U.P. Projects Corporation Ltd., Add. H.No. 87-A, Chand Bhawan, Near Rachit Hospital, Daudpur, Gorakhpur U.P.-273001 (Mob. No. 94157 63565) | General Manager, Zone-3, U.P. Projects Corporation Ltd., Gomti Barrage, Left Bank, Gomti Nagar Lucknow Mobile No. 9454419131 | "Class A" or above |

1. Contractors who fulfil the following requirements shall be eligible to apply. **Joint ventures are not accepted.** Should have satisfactorily completed the followings 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 Executive Engineer/Project Manager, or equivalent. Experience certificate should have contact information (**Contact no. & email ID**) of issuing authority. Bidders are required to submit TDS Certificates in Form 16-A or 26AS, in case the similar works are executed for a reputed private body, (***should be listed companies at state of India, unlisted companies with average annual turnover (of last three year) \geq 1000cr**) which shall form basis for establishing the completion cost of similar work executed by the bidder. Such type of works for shall be verified by technical team of UPPCL having member not less than PM/Unit in-charge. The work considered should be done by agreement.
 - i) Three Similar completed works costing not less than the amount equal to 40% of the estimated cost.
 - OR
 - ii) Two Similar completed works costing not less than the amount equal to 50% of the estimated cost.
 - OR
 - iii) One Similar completed works costing not less than the amount equal to 80% of the estimated cost.

The work should be with some central /state Government department central autonomous body/central public sector undertaking/state public sector undertaking/city development autonomous/municipal corporation of city formed under Act by central/state government and published in central/state gazette and reputed private entities shall only be considered.

 - (iv) Bidder must have Employees compensation liability Policy.
 - (v) Latest Copy of GSTR-1 and GSTR-3B.

Similar work shall mean "Civil Building Work"

The definition of similar work should be decided considering the following guidelines:

| | | |
|---|---|---|
| i | For building works, the number of storey for the purpose of definition of similar work may be taken as under:- | |
| A | No. of storey to be constructed in the proposed Building | No. of storey to be mentioned in the definition of similar work |
| B | Up to four storey buildings | No binding |
| C | Five to ten storey buildings | Minimum one building of Five storeys or Completing balance construction work of one building (i/c structural work) minimum up to five storeys |
| D | Eleven to fifteen storey buildings | Minimum one building of Eight storeys or Completing balance construction work of one building (i/c structural work) minimum up to eight storeys |
| E | More than fifteen storey buildings | Minimum one building of Ten storeys or Completing balance construction work of one building (i/c structural work) minimum up to ten storeys |
| For this purpose, each basement, stilt constructed in the building shall be considered as a storey. | | |
| ii | In case the work involves C/o two or more basements, then it is to be stipulated in the definition of similar work that the agency should have executed one similar work with minimum one basement under one Agreement. | |
| | Work of Basement specialized E&M services etc. if executed under a separate contract may also be considered for the purpose of assessing the technical competence only without adding its monetary value for determining the eligibility criteria. | |
| iii | For any civil work other than building work, if there is a significant component in the work other than normal building work then this component should be considered as main component of the work for the purpose of definition of similar work. The amount of such component can be mentioned in the definition of similar work. | |

Note:

- (i) If there are a number of buildings in a similar work, then minimum one building should satisfy the definition of similar work.
- (ii) Mumty and machine room shall not be considered as storey for the purpose.
- (iii) Each basement, stilt constructed in the building shall be considered as storey.
- (iv) Should have average annual financial turn over during the last 5 years ending 31st March of Previous financial year should at least 30% of the estimated cost.
- (v) Should not have incurred any loss in more than 2 years during the last 5 years ending 31st March of previous Financial Year.
- (vi) Should have a solvency of 40% of estimated cost from bank or 10% solvency of estimate cost form District Magistrate.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at a rate given below calculated from the date of completion to last date submission of tenderers.

| Financial Year | Escalation/Enhancement factor |
|----------------|-------------------------------|
| 2025-26 | 1.00 |
| 2024-25 | 1.07 |
| 2023-24 | 1.14 |
| 2022-23 | 1.21 |
| 2021-22 | 1.28 |
| 2020-21 | 1.35 |
| 2019-20 | 1.42 |

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

Bidding Capacity = $\frac{A \times N \times 2.5}{B}$ Where-

A=Maximum turnover in construction works executed in any one year during the last seven years taking into account the completed as well as works in progress. The value of completed works shall be brought to current costing level as already specified.

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

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

3. The intending bidder must read the terms and conditions carefully. He should submit his bid only if he considers himself eligible and he is in possession of all the requisite documents.
4. Timely work completion, quality and behavior of the bidder shall be considered at the time of technical evaluation of bid.
5. Information and Instruction to bidders posted on website shall form part of bid document.
6. The bid document consisting of Technical (eligibility) bid & Financial bid i/c 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 and other necessary documents can be seen from our website www.upprojects.org
7. **Certificate of financial Turn Over:** At the time of submission of bid, contractor has to submit Certificate from CA mentioning Financial Turnover on construction work of last 7 years period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids.
8. The Technical bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date.
9. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criteria.
10. Tender processing fee shall be submitted through Online mode in e-tendering website <http://etender.up.nic.in>. The amount of tender fee should be credited to the bank A/C of corporation before closing time of tender. If amount is not found in the corporation account, the candidature shall not be considered.
11. Earnest Money (2.00% of tendered cost as applicable) shall be submitted through Online mode in e-tendering website <http://etender.up.nic.in>. The amount of Earnest Money should be credited to the bank A/C of corporation before closing time of tender. If amount is not found in the corporation account, the candidature shall not be considered.
12. The intending bidders shall give in writing on Rs.100.00 Non Judicial Stamp paper that the "rates are valid for 90 days"
13. The bidder shall upload scanned copy of:
- (a) The entire document as stipulated in the bid document must be legible. Illegible document may not be considered during technical bid evaluation.
- (b) UTR of tender processing fee and EMD required for the work.
14. The technical (eligibility) bids submitted shall be opened at 04.00 P.M on 15.06.2026
15. The bidder shall submit personally all the original documents to General Manager Zone-3, U.P. Projects Corporation Ltd. Lucknow. after opening of technical & financial bid. Failing of which action shall be taken as per G.O. NO.3070/78-2-2018-42 IT/2017(22) Dt. 03-01-18.
16. The bid submitted shall become invalid if:
- (i) The bidder is found ineligible.
- (ii) The bidder does not upload all the documents as stipulated in the bid document.
- (iii) The bidder does not upload valid EMD along with technical bid (eligibility bid).
- (iv) The bidder does not upload UTR of Tender Processing Fee along with technical bid (eligibility bid).
- (v) The bidder does not upload scanned copy of Certificate of work experience as desired in NIT.
17. 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 bidder 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.

18. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection & will be debarred from future tender in U.P. Projects Corporation Ltd.
19. The contractor shall not be permitted to bid for works in the UPPCL ZONE/UNIT responsible for award and execution of contracts, in which his near relative is posted. 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 officer/employee in the office of Project Manager/General Manager U.P. Projects Corporation Ltd. Lucknow any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Corporation.
20. No Engineer or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the STATE Government/ State Government Undertaking is allowed to work as a contractor for a period of two years after his retirement from Government service, without the prior permission of the Government of U.P. 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 U.P. as aforesaid before submission of the bid or engagement in the contractor's service.
21. The contractor whose bid is accepted, will be required to furnish additional performance Guarantee as per tender condition of the bid amount +GST 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 |

This performance Security shall be in the form of financial Bank Guarantee/Fixed Deposit Receipts or Guarantee Bonds of SBI/Nationalized/Bank Commercial Bank in Accordance with the prescribed form.

In case the contractor fails to deposit the said additional 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.

22. 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%+GST 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/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.
23. 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.

24. The contractor whose bid is accepted will also be required to submit an affidavit on Rs. One Hundred (Rs.100) Stamp supporting statement on **Form-D**

25. The Quantities and Rates mentioned in BOQ may be changed and Quantities and Rates of Technical Sanction shall be final & adopted in agreement.

26. List of Documents to be uploaded with Technical bid:

| | |
|----|---|
| 1 | Earnest Money Deposit Online Mode |
| 2 | The Power of attorney authorising the Tender or to sign the e-bid/contract |
| 3 | Letter of transmittal |
| 4 | Employee's compensation liability Policy. |
| 5 | Certificate of Financial Turnover from Chartered Accountant (Form 'A'). |
| 6 | Haisiyat Praman Patra/Bank Solvency Certificate (Form 'B'). |
| 7 | Certificates of Works Experience (Form 'C' , ' D' ' E' & Copy of agreement along with form 26AS) |
| 8 | Character certificate issued by District Magistrate. |
| 9 | Certificate of registration for GST and PAN card copy |
| 10 | Latest Copy of GSTR-1 and GSTR-3B not older than six (6) Months. |
| 11 | Organisation Structure (Form F). |
| 12 | Details of Technical & Administrative Personnel Supported by EPF Slip & Appointment Letter, Aadhar Card, PAN Card with Mobile Number (Form 'G'). |
| 13 | Details of Construction Equipment (Form 'H'). |
| 14 | Affidavit for "No back to back execution of work" (Form 'I'). |
| 15 | Tender processing fee online mode. |
| 16 | Registration Certification of UPPCL |

27. Important: The bidder have to upload the documents in respect of Sl. No.1,2,3,4,5,8,9,10,11,12, 13, 14,15 & 16 self-certified by the bidder.

15/5/26
General Manager, Zone-3,
U.P. Projects Corporation Ltd.
Lucknow

SECTION A-I

BRIEF PARTICULARS OF THE WORK

1. Salient details of the work for which bids are invited are as under:

| Sl. No. | Name of work | Estimated Cost | Period of completion |
|---------|--|--------------------------------------|------------------------------------|
| 1 | Construction of Gaurav Museum Phase-II at Distt. Gorakhpur | TOTAL COST Rs. 1673.53 Lacs with GST | 12 Months (excluding rainy season) |

2. The work is to be done at _____
3. General features

SECTION A-II

INFORMATION & INSTRUCTIONS TO BIDDERS

1.0 General:

1.1 Letter of transmittal and forms for deciding eligibility are given in Section A-III.

1.2 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or "no such case" entry should be made in that column. If any particulars/query is not applicable in case of the bidder, it should be stated as "not applicable". The bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the bid being summarily disqualified. Bids received late will not be entertained.

1.3 The bidder should sign each page of the application/documents. No page (s) of the tender shall be removed, the entire set must be submitted.

1.4 Overwriting should be avoided. Correction, if any, should be made by neatly crossing out, initialling, dating and rewriting. Pages of the eligibility criteria document are numbered. Additional sheets, if any added by the contractor, should also be numbered by him. They should be submitted as a package with signed letter of transmittal.

1.5 References, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the bidder should be signed by an officer not below the rank of Executive Engineer/Project Manager or equivalent.

1.6 The bidder may furnish any relevant additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of eligibility criteria document unless it is called for by the Employer.

1.7 The credentials submitted in respect of pre-qualification of the tender/tender for specialised work by the first lowest bidder after opening of the financial bid shall be verified before award of work. Any information furnished by the bidder found to be incorrect either immediately or at a later date, would render him liable to be debarred from tendering/taking up of work in U.P. Projects Corporation Ltd. If such bidder happens to be enlisted contractor of any class in U.P. Projects Corporation Ltd., his name shall also be removed from the approved list of contractors.

1.8 Incomplete, irrelevant conditional tenders are liable to be rejected without assigning any reason. Tenders not submitted on proper prescribed form shall not be considered and are liable to be rejected.

1.9 The tenderer should write full address and telephone no. on the Tender Form. Any letter sent by Regd. Post on that address will be treated as delivered.

1.10 All entries by the tenderers should be written legible.

1.11 No refund of the cost of bid document/e-Tender processing fee is claimable for tenders not accepted or for tenders not submitted.

2.0 Definitions:

2.1 In this document the following words and expressions have the meaning hereby assigned to them.

2.2 **Employer:** UPPCL means U.P. Projects Corporation Ltd.

2.3 **Bidder:** Means the individual, proprietary firm, firm in partnership, limited company private or public or corporation.

2.4 **"Year"** means "Financial Year" unless stated otherwise.

2.5 **"Work"** means the work contracted to be executed under a single contract agreement.

3.0 Method of application:

3.1 If the bidder is an individual, the application shall be signed by him above his full type written name and current address.

3.2 If the bidder is a proprietary firm, the application shall be signed by the proprietor above his full typewritten name and the full name of his firm with its current address.

3.3 If the bidder is a firm in partnership, the application shall be signed by all the partners of the firm above their full typewritten names and current addresses, or, alternatively, by a partner holding power of attorney for the firm. In the latter case a certified copy

of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.

3.4 If the bidder is a limited company or a corporation, the application shall be signed by a duly authorised person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The bidder should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.

4.0 Final decision making authority.

The employer reserves the right to accept or reject any bid and to annul the process and reject all bids at any time, without assigning any reason or incurring any liability to the bidders.

5.0 Particulars provisional

The particulars of the work given in Section A-I are provisional. They are liable to change and be considered only as advance information to assist the bidder.

6.0 Site visit

The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to collect all information that he considers necessary for proper assessment of the prospective assignment.

7.0 criteria for eligibility

7.1 The Bidder should have satisfactorily completed works during the last Seven years ending **previous day of last date of submission of tenders**. For this purpose cost of work shall mean gross value of the completed work 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 Executive Engineer/Project Manager or equivalent.

i) **Three** similar works each costing not less than 40% ~~ortwo~~ similar works each costing not less than 50% ~~orone~~ similar work costing not less than 80% of the tendered cost.

AND

ii) One work of any nature (either part of (i) above or a separate one) costing not less than 40% of tendered cost with some Central/State Government Department/Central Autonomous Body/State Autonomous Body/ Central Public Sector Undertaking/ State Public Sector Undertaking/City Development Authority/ Municipal Corporation of City formed under any Act by Central/ State Government and published in Central/State Gazette and reputed private entities shall only be considered.

Similar work shall mean works of "**Construction of (name & main details of work)** _____"

(Note: The detail of work shall be given as per case & should be self explanatory)

The value of executed works shall be brought to current costing level by enhancing the actual value of work at a rate given below calculated from the date of completion to last date of submission of tenders.

Financial Year

Escalation/Enhance factor

| | |
|-----------|------|
| 2025-2026 | 1.00 |
| 2024-2025 | 1.07 |
| 2023-2024 | 1.14 |
| 2022-2023 | 1.21 |
| 2021-2022 | 1.28 |
| 2020-2021 | 1.35 |
| 2019-2020 | 1.42 |

7.2 At the time of submission of tender, the tenderer shall have to furnish an affidavit as under:

"I/We undertake and confirm that eligible similar work(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 tendering in UPPCL contracts in future forever. Also, if such a violation comes to the notice of Department before date start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Security."

7.3 The bidder should have had average annual financial turn over (gross) of minimum 30% of tendered cost in Civil/Electrical construction work during the last **available** three-year consecutive **balance sheets duly audited by Chartered Accountant**. Year in which no turnover is shown would also be considered for working out the average.

7.4 The bidder should not have incurred any loss in more than two years during **available last five consecutive balance sheets**, duly certified **and audited** by the Chartered Accountant.

7.5 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:

Bidding Capacity = {[A x N x 2.5] - B}

Where,

A = Maximum **turnover in** construction works executed in any one year during the last seven years taking into account the completed as well as works in progress. **The value of completed works shall be brought to current costing level as already specified.**

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

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

7.6 The bidder should have a solvency of 40% of tendered cost certified by his Bankers (Nationalized Bank only).

7.7 The bidder should own constructions equipment as per list required for the proper and timely execution of the work. Else, he should certify that he would be able to manage the equipment by hiring etc., and submit the list of firms from whom he proposes to hire.

7.8 The bidder should have sufficient number of Technical and Administrative employees for the proper execution of the contract. The bidder should submit a list of these employees stating clearly how these would be involved in this work.

7.9 The bidder's performance for each work completed in the last Seven years and in hand should be certified by an officer not below the rank of Executive Engineer/Project Manager or equivalent.

8.0 Evaluation criteria

8.1 The detailed submitted by the bidders will be evaluated in the following manner:

8.1.1 The criteria prescribed in para 7.1 to 7.5 above in respect of experience of similar class of works completed, bidding capacity and financial turn over etc. will first be scrutinized and the bidder's eligibility for the work be determined.

The department, however, reserves the right to restrict the list of such qualified contractors to any number deemed suitable by it.

8.2 Even though any bidder may satisfy the above requirements, he would be liable to disqualification if he has:

- (a) Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the eligibility criteria document,
- (b) Record of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.

9.0 Financial information

Bidder should furnish the following financial information:

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

10.0 Experience in works highlighting experience in similar works

10.1 Bidder should furnish the following:

- (a) List of all works of similar nature successfully completed during the last seven years in Form "C".
- (b) List of the projects under execution or awarded in Form "D".

10.2 Particulars of completed works and performance of the bidder duly authenticated/certified by an officer not below the rank of Executive Engineer/Project Manager or equivalent should be furnished separately for each work completed or in progress in Form "E". Information of completed works must be justified from 26AS form information (In case Tax department) available in internet.

10.3 Information in Form 'C' and Form 'D' should be complete and no work should be left out.

11.0 Organisation information

Bidder is required to submit the information in respect of his organization in Forms "F" & "G"

12.0 Construction plant and equipment

Bidder should furnish the list of construction plant and equipment including steel shuttering, centring and scaffolding to be used in carrying out the work in Form "H". Details of any other plant & equipment required for the work not included in Form "F" and available with the applicant may also be indicated.

13.0 Letter of transmittal

The bidder should submit the letter of transmittal attached with the document.

14.0 Opening of Price bid

After evaluation of Pre-Qualification Documents, a list of short listed agencies will be prepared. Thereafter the financial bids of only the qualified and technically acceptable bidders shall be opened at the notified time, date and place in the presence of the qualified bidders or their representatives. The bid shall remain valid for **90 days from opening of technical bids**.

15.0 Award criteria

15.1 The employer reserves the right, without being liable for any damages or obligation to inform the bidder, to:

- (a) Amend the scope and value of contract to the bidder.
- (b) Reject any or all the applications without assigning any reason

15.2 Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited.

15.3** In special circumstances if any information etc. has to be obtained from the tenderer after the start of the online tender process, then it can be sought from the e-mail id. of the tenderer through the office email id **gm3uppl394@gmail.com**. Which must be made available within stipulated time? In case the information is not made available within the stipulated time stipulated time. No consideration will be given to the tenderer as unresponsive.

15.4** The verification of the all documents will have to be made available in original by presenting personally after the acceptance of the tender as the tender as the final tender and in case of any of the above certificate being found wrong Legal proceeding will be started against the tender. Department action will be taken to Debar/cancel his registration and put him in black list.

15.5 The scanned copy of all the original records uploaded should be clear and legible as the record are to be checked by downloading/printing. In case of non-readable print of downloaded record, the technical bid of the tenderer will be rejected.

15.6 Under the G.O No.383/36-02-2010 Labour section-2 dated 26-20-2010 under the building and construction worker's employment and service condition exchange rules 2009 the contractor is required to register the above work to be done in the labour department.

15.7 Bidder must be registered in Directorate Electrical Safety Lucknow U.P.

16. 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.

17. **Foreign Experience**

A. In case the work experience is for the work executed outside India, the bidders have to submit the completion/experience certificate issued by the owner duly signed & stamped, and affidavit for the correctness of the completion/experience certificates. The contractor shall also get the completion/experience certificates attested by the Indian Embassy/Consulate/High Commission in the respective country.

In the event of submission of completion/experience certificate by the Bidder in a language other than English, the English translation of the same shall be duly authenticated by Chamber of Commerce of the respective country and attested by the Indian Embassy/consulate/High Commission in the respective country.

B. For the purpose of evaluation of bidders, the conversion rate of such a currency into INR shall be the daily representative exchange rate published by the IMF as on 7 (Seven) days prior to the Last Date of Submission of tender including extension (s) given if any.

SECTION A-III

U.P. PROJECTS CORPORATION LTD.

LETTER OF TRANSMITTAL

To

THE GENERAL MANAGER
Zone-3, U.P.P.C. L. LUCKNOW

Subject- Construction of Gaurav Museum Phase-II at Distt. Gorakhpur.

Sir,

Having examined the details given in press notice and bid document for the above work, I/we hereby submit the relevant information.

1. I/we hereby certify that all the statement made and information supplied in the enclosed forms A to H and accompanying statement are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/we submit the requisite certified solvency certificate and authorise the General Manager, Projects Manager_____UPPCL to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/we also authorise Project Manager,_____, UPPCL,_____ to approach individuals, employers, firms and corporation to verify our competence and general reputation.
4. I/we submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following works:

Name of work

Certificate from
Enclosures:

Seal of bidder

Date of submission:

Signature(s) of Bidder(s).

FORM 'A'

CERTIFICATE OF FINANCIAL TURNOVER FROM CHARTERED ACCOUNTANT

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

Years

| 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
|---------|---------|---------|---------|---------|---------|---------|
| | | | | | | |

- (i) Gross Annual turnover on construction works.
- (ii) Profit/Loss.

2. Solvency Certificate from Bankers of the bidder in the prescribed Form "B".

Signature of Chartered Accountant with Seal Signature of Bidder(s).

FORM "B"

FORM OF BANKERS' CERTIFICATE FROM A NATIONALISED BANK

This is to certify that to the best of our knowledge and information that M/s./Shri.....having marginally noted address,a customer of our bank are/is respectable and can be treated as good for any engagement upto a limit of Rs.....Rupees.....). This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

(Signature)
For 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) Solvency certificate should not be more than 6 months old.

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

| S. No | Name of work/project and location | Owner of sponsoring organization | Cost of work in crores 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 | Remarks |
|-------|-----------------------------------|----------------------------------|----------------------------------|--------------------------------------|-------------------------------|---------------------------|---|---|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | | | | | | |

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

Signature of Bidder(s)

FORM 'D'
PROJECTS UNDER EXECUTION OR AWARDED

| S. No | Name of work/project and location | Owner of sponsoring organization | Cost of work in crores of rupees | Date of commencement as per contract | Stipulated date of completion | Upto date percentage progress of work | Slow progress if any and reasons thereof | Name and address /telephone number of officer to whom reference may be made | Remarks |
|-------|-----------------------------------|----------------------------------|----------------------------------|--------------------------------------|-------------------------------|---------------------------------------|--|---|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | | | | | | |

Certified that the above list of works is complete and no work has been left out and that the information given is correct to my knowledge and belief.

Signature of Bidder(s)

FORM 'E'

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORMS "C" & "D"

1. Name of work/project & location
2. Scope of Work:
 - (i) Mention-Type of structure (RCC framed/Load bearing/ Steel structure,) Nos. of floors, type of roofing etc.,if any and other special features.
3. Agreement no.
4. Estimated cost
5. Tendered cost
6. Actual Completion Cost:
7. Date of start
8. Date of completion
 - (i) Stipulated date of completion
 - (ii) Actual date of completion
9. Amount of compensation levied for delayed completion, if any
(If levy of compensation not yet decided, it may be mentioned accordingly).
10. Amount of reduced rate items, if any
11. Performance Report
 - (1) Quality of work Very Good/Good/Fair/Poor
 - (2) Financial soundness Very Good/Good/Fair/Poor
 - (3) Technical Proficiency Very Good/Good/Fair/Poor
 - (4) Resourcefulness Very Good/Good/Fair/Poor
 - (5) General Behaviour Very Good/Good/Fair/Poor

Dated: _____ Executive Engineer/Project Manager or Equivalent

(Seal)

FORM "F"

ORGANISATION STRUCTURE

1. Name & address of the bidder
2. Telephone no./Fax no.
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)

- | Organisation/Place of registration | Registration No. |
|---|-------------------------|
| 1. | |
| 2. | |
| 3. | |
| 5. Names and titles of Directors& Officers with designation to be concerned with this work. | |
| 6. Designation of individuals authorised to act for the organization | |
| 7. Was the bidder ever required to suspend construction for a period of more than six months continuously after he commenced the construction? If so, give the name of the project and reasons of suspension of work. | |
| 8. Has the bidder, or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment. | |
| 9. Has the bidder, or any constituent partner in case of partnership firm, ever been debarred/black listed for tendering in any organization at any time? If so, give details | |
| 10. Has the bidder, or any constituent partner in case of partnership firm, ever been convicted by the court of law? If so, give details. | |
| 11. In which field of Civil Engineering construction the bidder has specialization and interest? | |
| 12. Any other information considered necessary but not included above. | |

Signature of Bidder(s)

FORM 'G'**DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE EMPLOYED FOR THE WORK**

| S.No. | Designation | Total Number | Number available for this work | Name | Qualifications | Professional experience and details of work carried out | How these would be involved in this work | Remarks |
|-------|-------------|--------------|--------------------------------|------|----------------|---|--|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | |

Signature of Bidder(s)

FORM 'H'

**DETAILS OF CONSTRUCTION PLANT AND EQUIPMENT (LIKELY
TO BE USED IN CARRYING OUT THE WORK) AVAILABLE WITH THE CONTRACTOR**

| S. No | Name of equipment | Nos. | Capacity or type | Age | Condition | Ownership status | | | Current-location | Remarks |
|-------|--|------|------------------|-----|-----------|------------------|--------|-----------------|------------------|---------|
| | | | | | | Presently owned | Leased | To be purchased | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | Earth moving equipment 1.Excavators (various sizes) Equipment for hoisting & lifting 1.Tower 2.Builder's hoist Equipment for concrete work 1.Concrete batching plant 2.Concrete pump 3.Concrete transit mixer 4.Concrete mixer (diesel) 5.Concrete mixer (electrical) 6. Needle vibrator (electrical) 7.Needle vibrator (petrol) 8. Table vibrator (elect./ petrol) Equipment for building work 1. Block making machine 2. Bar bending machine 3. Bar cutting machine 4. Wood thickness planer 5. Drilling machine 6. Circular saw machine 7. Welding generators 8. Welding transformer 9. Cube testing machines 10. M.S. Pipes 11. Steel shuttering 12. Steel scaffolding 13. Grinding/polishing machines Equipment for transportation | | | | | | | | | |

| | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--|--|--|
| 1. Tipplers | | | | | | | | | |
| 2. Trucks | | | | | | | | | |
| Dewatering Equipments | | | | | | | | | |
| 1.Pump Diesel | | | | | | | | | |
| 2.Pump Electric | | | | | | | | | |
| Power Equipments | | | | | | | | | |
| 1. Diesel Generators | | | | | | | | | |
| Any other plant/equipment | | | | | | | | | |

Signature of Bidder(s)

U.P. PROJECTS CORPORATION LTD.

FORM 'I'

AFFIDAVIT

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 UPPCL in future forever. Also, if such a violation comes to the notice of department before the date of start of work, the Engineer-In-Charge shall be free to forfeit the entire amount of earnest money deposit/performance Security.

NOTE 1: Affidavit to be furnished on a Non Judicial stamp paper worth Rs. 100/- and should be Notarised.

NOTE 2: "A work is said to have been executed on "back to back " basis when the entire work or substantial part of the work forming the basis for evaluation of the eligibility of the bidder is got executed by the bidder through another contractor either by direct nomination or by call of tender".

Signed by Contractor / Authorised Officer of the firm with

Stamp

OFFICE OF THE GENERAL/ PROJECT MANAGER

.....Zone/Unit,

District.....

No.....

Date.....

LETTER OF ACCEPTANCE

To,

M/s.....

.....

.....

This is to notify you that on behalf of the U.P.P.C.L. the project Manager.....Unit, U.P.P.C.L..... has accepted your bid dated.....for Execution offor the contract price of Rs..... (Rs.only).

You are hereby requested to furnish Performance security, in the form detailed in cl. 1of ITB for an amount of Rs.....(Rs.only) within 10 days of the receipt of this letter of acceptance valid up to 15 days after the date of expiry of Defects Liability Period(i.e. up to) and sign the contract, failing which action as stated in cl 1 of ITB will be taken.

Yours Faithfully

Project Manager/General Manager

.....Unit/Zone,

.....

No. &Dated as above

Copy to G.M/PM.....for information and necessary action.

General Manager/ Project Manager

.....Unit/zone,

District.....

OFFICE OF THE GENERAL MANAGER

.....ZONE

District.....

Letter No.....

Date.....

Issue of notice to Proceeds with the work

To,

.....

.....

.....

Dear sir,

Pursuant to your furnishing the requisite performance security as stipulated in ITB clause and signing of contract for the construction of..... Distt.....you are hereby instructed to proceed with the execution of the said work in accordance with the contract documents.

Yours Faithfully

General Manager

.....Zone/Unit,

District.....

Standard Form of Agreement

Notes on Standard Form of Agreement

The Agreement should incorporate any corrections or modifications to the Bid resulting from correction of errors

Standard FORM- Agreement

Agreement

This agreement, made the day of.....201--..... between General Manager/Project Manager Unit, U.P.P.C.L.....

(Hereinafter called “the Employer”) of the one part, and

.....

.....

.....

[Name and address of contractor] (Herein after called “the contractor” of the other part)

Whereas the Employer is desirous that the contractor executes the work of.....

District-.....(hereinafter called “the works”) and the Employer has accepted the Bid of the contractor for the execution and completion of such Works and remedying of any defects there in at a cost of Rupees.....[Rs.....only]

NOW THIS AGREEMENT WITNESSETH as follows:

1- In this Agreement, words and expressions shall have the same meanings are respectively assigned to them in the conditions of contract hereinafter referred to, and they shall be deemed to form and 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 contract in consideration of execution and completion of the works and remedying the defects where in the contract price or such other sum as may become payable under the provisions of the contract at the times and the manner prescribed by the contract.

4- The following documents shall be deemed to form and read and construed as part of this agreement, viz:

I.Letter of Acceptance; by UPPCL.

II.Negotiation letter for work.

III.Notice to proceed with the works;

IV.Contract Data;

V.Special conditions of contract and general conditions of contract;

VI.Specifications

VII.Drawings;

VIII.Bill of Quantities;

IX.Any other document listed in the contract data as forming part of the contract.

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

The common Seal of

PROJECT MANAGER

ZONE/

District

Was hereunto affixed in the presence of;
Signed, Sealed,

In the presence of: Assistant Project Manager/Projects Manager
Binding signature of Employer authorized representative

Authorised representative of UPPCL
(Signature with Seal)

Unit-.....UPPCL
District.....
Binding Signature of contractor
(With Address & Seal)

(In Envelope 2)

VOLUME-B

FINANCIAL BID

(SECTION B-1 + SECTION B-2 + SECTION B-3)

SECTION B-I

U.P. PROJECTS CORPORATION LTD.



GENERAL MANAGER /PROJECT MANAGER

U.P. Projects Corporation Ltd.

INVITATION FOR e-BID

Online e-bids are invited in 2 bids system from eligible contractors. Bidders are advised to note the minimum qualification criteria

| Sl. No. | NIT No. | Name of work & Location | Estimated cost put to bid (in lac) including Labour Cess & GST But excluding EPF & ESI | Earnest Money | Period of completion | Last date & time of submission of technical and financial bids, EMD, processing fee and other documents as specified in the bid documents | Time and date of opening of technical bid |
|---------|---------|-------------------------|--|---------------|--------------------------|--|--|
| 1 | | Construction of | Rs. | Rs. | Months(i/c reany season) | Upto on | At on |
| | | | TOTAL COSTRs. | | | | |

1. Contractors who fulfil the following requirements shall be eligible to apply. **Joint ventures are not accepted.**

(a) Should have satisfactorily completed the works as mentioned below during the last Seven years ending previous **day of last date of submission of tenders.**

i) Three similar works each costing not less than 40% or two similar works each costing not less than 50% or one similar work costing not less than 80% of tendered cost.

AND

ii) One work of any nature (either part of (i) above or a separate one) costing not less than 40% of tendered cost with some Central/State Government Department/Central Autonomous Body/State Autonomous Body/ Central Public Sector Undertaking/ State Public Sector Undertaking/City Development Authority/Municipal Corporation of City formed under any Act by Central/ State Government and published in Central/State Gazette and Reputed private entities shall only be considered.

iii) **Similar work** shall mean works of **“Construction of** _____

(Note: The detail of work shall be given as per case & should be self-explanatory)

(b) Should have average annual financial turn over during the last three years ending 31st March of the previous financial year should be at least 30% of the tendered cost.

(c) Should not have incurred any loss in more than two years during the last seven years ending 31st March of Previous financial year

(d) Should have a solvency of **40% of tendered cost.**

The value of executed works shall be brought to current costing level by enhancing the actual value of work at a rate given below calculated from the date of completion to the date of submission of tenders

Financial Year

| Financial Year | Escalation/Enhancement factor |
|----------------|-------------------------------|
| 2025-26 | 1.00 |
| 2024-25 | 1.07 |
| 2023-24 | 1.14 |
| 2022-23 | 1.21 |
| 2021-22 | 1.28 |
| 2020-21 | 1.35 |
| 2019-20 | 1.42 |

2- The intending bidder must read the terms and conditions carefully. He should submit his bid only if he considers himself eligible and he is in possession of all the requisite documents.

3- Information and Instructions for bidders posted on website shall form part of bid document.

4- The bid document consisting of Technical (eligibility) bid & Financial bid i/c 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 and other necessary documents can be seen and downloaded from website www.upprojects.org.

5- **Certificate of Financial Turn over:** At the time of submission of bid, contractor has to submit Affidavit/Certificate from **CA** mentioning Financial Turnover on construction work of last 7 years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids.

6- The Technical bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date.

7- The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

8- **Earnest Money (above 5.00Cr. @ 1.00%, 5.00Cr. and below @ 2.00% of tendered cost as applicable) in the form of Bank Guarantee or Fixed Deposit Receipt of a nationalised bank in favour of Project Manager/General Manager U.P. Projects Corporation Ltd. must be submitted with Technical bid.**

9- The bidder can purchase the tender documents from the office of the Project Manager, U.P. Projects Corporation Ltd. ----- by submitting a demand draft of Rs. ----- + 18% GST in favour of Project Manager/General Manager U.P. Projects Corporation Ltd. -----, If the bidder wish to download tender document from our web site www.upprojects.org, he may do so & he will have to deposit Rs ----- + 18% GST in shape of demand Draft in favour of Project Manager/General Manager U.P. Projects Corporation Ltd. ----- along with Technical bid on account of tender cost. The issue date of demand draft must not be later than the closing date of tender purchase.

10- All the documents as specified in the technical bid/eligibility bid shall be submitted within the period of bid submission.

The technical (eligibility) bids submitted shall be opened at ----- on -----

11- The bid submitted shall become invalid if:

(i) The bidder is found ineligible.

(ii) The bidder does not submit all the documents as stipulated in the bid document.

(iii) If any discrepancy is noticed in hard copies as submitted **physically by the bidder** in the office of bid opening authority.

(iv) **The bidder does not deposit valid EMD along with technical bid (eligibility bid).**

(v) **The bidder does not deposit Tender processing fee along with technical bid (eligibility bid).**

12. The contractor whose bid is accepted will be required to furnish **performance guarantee (As per tender condition)** of the bid amount within the period specified in **Schedule A-6**. This guarantee shall be in the form of Bank Guarantee in the prescribed form of any nationalized banker Fixed Deposit Receipts of any Nationalized Bank. In case the contractor fails to deposit the said performance guarantee within the period as indicated in **Schedule A-6**, 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.

13. In Tendering 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 bidder 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.
14. The competent authority 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 the assignment of 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 bidders shall be summarily rejected.
 15. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection and will be debarred from future tender in U.P. Projects Corporation Ltd.
 16. The competent authority 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.
 17. The contractor shall not be permitted to bid for works in the UPPCL ZONE /UNIT responsible for award and execution of contracts, in which his near relative is posted. 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 officer/employee in the office of Projects Manager/General Manager U.P. Projects Corporation Ltd..... Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Corporation.
 18. No Engineer or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the STATE GOVERNMENT/PSU/State Government Undertaking is allowed to work as a contractor for a period of twoyears after his retirement from Government service, without the prior permission of the Government of U.P. 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 U.P. as aforesaid before submission of the bid or engagement in the contractor's service.
 19. The bid for the works shall remain open for acceptance for **a period of ninety (90) days** from the date of opening of **technical bid**. If any bidders withdraw his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the UPPCL shall, without prejudice to any other right or remedy, be at liberty to forfeit **100%** of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.
 20. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work have to, sign the contract agreement.

U.P. Projects Corporation Ltd.

PERCENTAGE RATE TENDER & CONTRACT FOR WORK

Tender for
the work of:

Construction of

- (i) To be submitted by on or before **Upto** at the office of the General Manager/Project Manager,,
- (ii) Eligibility bid to be opened in presence of tenderers who may choose to present at hours on in the office of General Manager/ Project Manager,

TENDER

I/We have read and examined the notice inviting tender, schedule A-1,A-2,A-3,A-4,A-5&A-6 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 submit tender for the execution of the work specified within the time specified in Schedule A-6 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 16 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.

We agree to keep the tender open for ninety (90) days from the date of opening of **Technical bid** and not to make any modification in its terms and conditions.

A sum of **Rs.** is hereby forwarded in Bank Guarantee of a nationalized bank/fixed deposit receipt of nationalized bank as earnest money.

Further, I/we agree to submit an irrevocable Performance Guarantee as per tender condition of the tendered value in addition to other deposits mentioned elsewhere in the contract for my/our proper performance of the contract agreement, (not withstanding and / or without prejudice to any other provisions in the contract) within period specified in Schedule A-6 from the date of issue of letter of acceptance. This guarantee shall be in the form of Bank Guarantee or Fixed deposit receipt of of any nationalized Bank in accordance with the form annexed hereto.

I/We agree that the General Manager/ Project Manager,,UPPCL or his successors, in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest Money absolutely.

Further, if I/We fail to commence work as specified, I/We agree that the General Manager /Project Manager, U.P. Projects Corporation Ltd. or his 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 rates to be determined in accordance with the provision contained in Clause 24 of the tender form (Invitation of bid).

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

I/We undertake and confirm that eligible similar work(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 tendering in UPPCL in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

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 therefrom 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
Witness:
Address:
Occupation:

Signature of Contractor
Postal Address

Form of Bid

Notes on Form of Bid
The Bidder shall fill Column A and B of below table and submit this form with the Bid.

Date

| Sl. No. | NIT No. | Name of work & Location | Estimated cost put to bid (in lac)+ including Labour Cess & applicable GST But excluding EPF & ESI | PERCENTAGE RATE QUOTED BY TENDERER IN NUMERIC ABOVE OR BELOW | PERCENTAGE RATE QUOTED BY TENDERER IN WORDS ABOVE OR BELOW |
|---------|---------|-------------------------|--|--|--|
| 1 | | Construction of | | A | B |
| | | | | | |

1. I/We offer to execute the work described above and remedying any defects therein conformity with the condition of contract, specifications, drawings, Bill of Quantity and Addenda for

For percentage rate...**GIVEN IN FORM OF BID MENTIONED IN COLUMN A AND B** in percentage below/percentage above/at par with the rate entered in the schedules of rate, as referred.

2. We undertake to commence the work on receiving the notice to proceed with work in accordance with the contracts documents.

3. This Bid and your written acceptance of itself constitute a bidding contract between us. We understand that you are not bound to accept the lowest or any bid you receive.

We hereby confirm that this bid complies with the bid ability and earnest money required by the bidding documents and specified in the appendix to ITB.

Authorised

Signature:

Name of Title of

Signatory:

Name of Bidder:

Authorised Address of Communication:

Telephone No. (s): (office): Mobile

Fax No E-Mail ID

ACCEPTANCE

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

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

- (a)
- (b)
- (c)

Signature

Dated:

Designation

U.P. PROJECTS CORPORATION LTD.

PROFORMA OF SCHEDULES

SCHEDULE 'A-1'

Schedule of quantities (Attached Page No. _____)

SCHEDULE 'A-2'

Schedule of materials to be issued to the contractor.

| S. No. | Description of item | Quantity | Rates in figures & words at which the material will be charged to the contractor | Place of issue |
|---------------|---------------------|----------|--|----------------|
| 1 | 2 | 3 | 4 | 5 |
| -----NIL----- | | | | |

SCHEDULE 'A-3'

Tools and plants to be hired to the contractor by UPPCL.

| S. No. | Description | Hire charges per day | Place of Issue |
|---------------|-------------|----------------------|----------------|
| 1 | 2 | 3 | 4 |
| -----NIL----- | | | |

SCHEDULE 'A-4'

Extra schedule for specific requirements/document for the work, if any. **As attached in tender form**

SCHEDULE 'A-5'

Reference to General Conditions of contract

| | | |
|--|--|------------------|
| Name of Work: Construction of _____ | | |
| Estimated cost of the work: including Labour Cess & applicable GST But excluding EPF & ESI | Civil Items of Work (in lac) | Rs. _____ |
| | Internal Electrical/sanitary and other allied works (in lac) | Rs. _____ |
| | Total (In Lac) | Rs. _____ |
| Earnest money (in lac) | Rs. _____ (To be returned after receiving performance guarantee) | |
| Performance Guarantee | As per tender condition | |
| Security Deposit | 5.0% of the tendered value of the work+GST | |

SCHEDULE A-6

GENERAL RULES & DIRECTIONS :

Officer inviting tender **General Manager/Project Manager , _____ZONE/UNIT, UPPCL.....**

Definitions:

Engineer-in-Charge

Project Manager, U.P.P.C.L.....

Accepting Authority

General Manager UPPCL .

Standard Schedule of Rates:

.....

Items of Work:

UP PWD **SOR 2020-21/D.S.R. 2021 & 2022 / PAR-21**

Department:

UPPCL

Standard contract Form:

GCC

Clause 1

Time allowed for submission of Performance Guarantee
From the date of issue of letter of acceptance

10 days

Clause 2

Authority for fixing compensation under clause 3.

General Manager

UPPCL,

Clause 3

Number of days from the date of issue of letter

Of acceptance for reckoning date of start

30 days

Milestone(s) as per table given at page _____

Time allowed for execution of work...Months(**i/c rainy season**)

Authority to decide:

(i) Extension of time

General Manager, _____

(ii) Rescheduling of mile stones

General Manager, _____

(iii) Shifting of date of start in case of delay
in handing over of site

General Manager, _____

GENERAL CONDITIONS OF CONTRACT (GCC)

Definitions 1 & 2

1. The **Contract** means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority as indicated in Schedule A-6 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. In the contract the following expressions shall, unless the context otherwise requires, have the meanings, thereby respectively assigned to them: -

i) The **Accepting Authority** shall mean the authority mentioned in Schedule A-6.

ii) 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.

iii) The **Department** means UPPCL Lucknow and shall include their legal representatives, nominee, employees and permitted agencies who invite tenders on behalf of UPPCL, Lucknow.

iv) The **Engineer-in-charge (EIC)** means the Engineer / Officer as mentioned in Schedule A-6 here under, authorised by the Department i.e. UPPCL, Lucknow, who shall supervise and be in charge of the work.

v) The **UPPCL** means U.P. Projects Corporation Ltd. LUCKNOW.

vi) The **Client** shall mean Department of _____ Government of UP represented by a Designated Officer of Department of _____ Government of UP.

vii) The **Consultant/ Project Consultant** shall mean consultant appointed by the department i.e. UPPCL LUCKNOW, having its corporate office at Gomti Barrage, Left Bank, Gomti Nagar, Lucknow for implementing of the Project

viii) The **site** shall mean the land/ or place on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be located or used for the purpose of carrying out the contract.

ix) The **Expected risk are** risks due to riots (other than those on account of the contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any act of Government, damage from aircraft, acts of God, such as earthquake, lightning 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 U.P.P.C.L. of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to U.P.P.C.L.'s faulty design of work.

x) **Market rate** shall be the rate as decided by 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 A-6 to cover, all overhead and profits.

xi) **Specifications** means the specification mentioned in the Tender document and any modification thereof or addition thereto as may from time to time be issued to the Contractor.

xii) **District Specifications** means the specifications followed by the State Government in the area where the work is to be executed.

xiii) **Schedule(s)** referred to in these conditions shall mean the relevant schedule(s) annexed to the tender papers or the standard Schedule of Rates of the Government mentioned in Schedule A-6 hereunder, with the amendments thereto issued up to the date of receipt of the tender.

xiv) The **work(s)** 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.

xv) **Tendered Value** means the value of the entire work as stipulated in the letter of award.

xvi) **Bill of Quantities or Schedule of items** means the schedule and quantities of items, materials and rates, summaries etc. priced and completed and as finally accepted.

xvii) **Month** means calendar month without regard to the number of days worked or not worked in that month.

xviii) **Week** means seven calendar days without regard to the number of hours worked or not worked in any day in that week.

- xix) **Day** means a calendar day of 24 hours (beginning and ending at 00 hrs. and 24 hrs. Respectively) irrespective of number of hours worked or not worked in that day.
- xx) **Act of Insolvency** shall mean any Act of Insolvency as defined by the Presidency Towns Insolvency Act or Provincial Insolvency Act or any Act amending such original.
- xxi) **Approved** means approved in writing, including subsequent written information of previous verbal approval and "approval" means approval in writing, including as aforesaid.
- xxii) **As directed** means the direction given by the Engineer In-Charge/Client/ Consultant.
- xxiii) **Constructional Plant** means all appliances or things of whatsoever nature required in or about the execution or maintenance of the Works but does not include materials or other things intended to form or forming part of the Works.
- xxiv) **Material** means the materials, apparatus, equipment, fittings, fixtures and all such other materials, which are incorporated in the work.
- xxv) **Drawings** means the drawings prepared and issued by the Consultant and referred to in the tender and specifications and any modification of such drawings and such other drawings, calculations and technical information of a like nature as may, from time to time, be issued by the Consultant.
- xxvi) **I.S.** means latest revision of particular 'Indian Standards specification issued by Bureau of Indian Standards.
- xxvii) **Notice in writing or written notice** shall mean notice in written, typed or printed characters, sent (unless delivered personally or otherwise proved to have been received) by registered post to the site office/ last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post it would have been delivered.
- xxviii) **Permanent Works** means the permanent works to be executed (including Plant) in accordance with the Contract.
- xxix) **Temporary Works** means all temporary works of every kind required in to start or about the execution and completion or maintenance of the Works and the remedying of any defects therein.
- xxx) **Urgent Works** means any urgent works which in the opinion of the UPPCL/ Client and/or Consultant becomes necessary at the time of execution and/or during the progress of work to obviate any risk of accident or failure or to obviate any risk of damage to the structure of services or required to accelerate the progress of the work for which becomes necessary for safety and security or for any other reason the UPPCL / Client and/or Consultant may find it necessary.
- xxxi) **Net Prices** If in arriving at the contract amount or contract sum, the Contractor shall have added or deducted from the total amount of the items in the Tender any sum, either as a percentage or otherwise, then the net price of any item in the tender shall be the sum arrived at by adding to or deducting from the actual figure appearing in the Tender as the price of that item and similar percentage or proportionate sum provided always that in determining the percentage or proportion of the sum so added or deducted by the Contractor, the total amount of any Prime cost items and provisional sums of money shall be deducted from the total amount of the tender. The expression "net rates" or "net prices" when used with reference to the contract or accounts shall be held to mean rates or prices so arrived at.

Scope and Performances

3. Where the context so requires, words imparting the singular only also include the plural or vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
4. Heading 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. 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 papers. None of these documents shall be used for any purpose other than that of this contract.

Language & Law

6. The ruling language in which the Contract and related aspects shall be drawn up shall be Hindi / English only. Law means- law as applicable to site of work.

Works to be carried one

7. The work to be carried out under the contract shall, except as otherwise provided in these conditions, include all labour, 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 description given in the Schedule of Quantities shall, unless otherwise stated, be held to include wastage of materials, cartage and carriage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labour necessary in and for the full entire execution and completion of the work as aforesaid in accordance with good practice and

recognized principles.

Sufficiency tender

8. 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 price quoted in the Schedule of Quantities, which rates and price 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.

Description and Adjustment of Errors

9. 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 drawings and figured dimensions in preference to scale and specific conditions in preference to general conditions.

9.1 In the case of discrepancy between the Schedule of Quantities, the Specifications and /or the Drawings, the following order of preference shall be observed.

- a) Description of Schedule of Quantities
- b) Particular specification and Specific Condition, if any.
- c) Drawings
- d) PWD/CPWD Specifications
- e) Indian Standard Specifications of Bureau of Indian Standards.
- f) For items not covered by any of the above, the work shall be done, as per sound engineering practices and as directed by the Engineer-in-charge.

9.2 **If there are varying or conflicting provisions made in any one document forming Part of the contract, accepting Authority shall be deciding authority with regard to the intention of the document and his decision shall be final and binding on the Contractor.**

9.3 **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 obligation under the contract.**

9.4* **The recovery determined by T.A.C, Audit or other higher authorities will be borne by the concerned contractor/firm.**

Errors, Omission & Discrepancies

10.1 In case of errors, omissions and /or disagreement between written and scaled dimensions on the drawings or between the drawings and specifications, etc. the following order of precedence shall apply:

- i. Between scaled and written dimension (or description) on drawing, written dimension shall be adopted.
- ii. Between the written or shown description or dimensions in the drawings and the corresponding one in the specification, the former shall be taken as correct.
- iii. Between the written description of the item in the specifications and descriptions in the Bill of Quantities of the same item, the latter shall be adopted.

10.2 Between the duplicate/subsequent copies of the tender and original tender, the original tender shall be taken as correct.

10.3 All documents forming the Contract are to be taken as mutually explanatory of one another, but in case of ambiguity or discrepancies in conditions or specifications the same shall be explained and adjusted by Engineer-in-charge. In case the Contractor does not agree with the explanation given by the Engineer-in-charge, then the matter, on his written notice, will be referred to the MD UPPCL and his decision shall be final and binding to the contractor.

10.4 **In all cases of omissions and /or doubts or discrepancies in any of the items or specifications, a reference shall be made to the Engineer-in-Charge. Elucidation, elaboration or decision of the Engineer-in-charge shall be considered as authentic. The Contractor shall be held responsible for any error that may occur in the work through lack of such reference and precaution.**

10.5 Any dispute arising due to typing mistakes/ omissions in the document shall be mutually discussed between Contractor and Engineer-in-charge and the decision of the Engineer-in-charge will be final and binding on the contractor in the matter.

1. The successful bidder /contractor, on acceptance of his tender by the Accepting Authority, shall, within 10 days give unconditional acceptance letter & performance guarantee from the date of issue of LOI for the work. The performance guarantee given by the contractor shall be verified by the department before returning the Earnest Money of the successful bidder / contractor.

2. The successful bidder will provide an affidavit on Rs.100.00 stamp paper that all information & Earnest Money deposited by him are correct & valid.
3. The successful bidder /contractor, after verification of Performance Guarantee shall, sign the contract within 7 days consisting of documents as specified.
4. No payment for the work done will be made unless contract is signed by the contractor.

11. Stamp Duty on Rs.100 Affidavit

The liability of stamp duty if any in future shall be beard by the contractor by giving an affidavit on 100 Rs. Stamp paper as per annexure. (Page no.116)

U.P. PROJECTS CORPORATION LTD.

CLAUSES OF CONTRACT

CLAUSE 1 Performance Guarantee

- (i) The contractor shall submit an irrevocable Performance Guarantee (**As per tender condition**) of the tendered value in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract before agreement (not withstanding and / or without prejudice to any other provisions in the contract) within period specified in Schedule A-6 from the date of issue of letter of acceptance. 5% performance guarantee shall be in the shape FDR/Bank guarantee of any nationalised bank in accordance with the form annexed hereto. In case failure in submission of performance guarantee within 10 days, Earnest money deposit will be forfeited. Further, if the amount of work exceeds the tendered amount, due to change in scope of work or any other reason additional Performance Guarantee (**As per tender condition**) of the excess amount shall be provided by the contractor.
- (ii) **The Performance Guarantee shall be valid upto 15 days from the date of expiry of Defect Liability Period.** 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. The performance guarantee shall be returned to the contractor, without any interest after Defect Liability Period.
- (iii) The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which is entitled under the contract (not withstanding and / or without prejudice to any other provisions in the contract agreement) in the event of:
- 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.
- b) Failure by the contractor to pay any amount due, either as agreed by the contractor or determined under any of the Clauses / Conditions of the agreement, within **15 days** of the service of notice to this effect by Engineer-in-Charge.
- (iv) 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 UPPCL Ltd.
- (v) In case FDR/Bank Guarantee of any bank is furnished by the contractor to UPPCL as Performance Guarantee(s) and the bank is unable to make payment against the said FDR/Bank Guarantee the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to UPPCL make good the deficit.

CLAUSE 2 Mobilizations Advance & Secured Advance**

- (i) **Mobilization Advance**—In contracts of total contract value (Including G.S.T) of Rs. 20 Cr. & above, Mobilization advance not exceeding 10% of the tendered value be allowed (in accordance with fund released), if requested by the contractor in writing within one month of the order to commencement the work. Such advance shall be in two equal instalments at a simple interest rate of 10% per annum. The provision for Mobilization Advance shall be need based and after satisfaction of UPPCL authority. The first instalment 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 instalments shall be released by the Engineer-in-charge only after the Contractor furnishes a proof of the satisfactory utilization of the earlier instalments to the entire satisfaction of the Engineer-in-charge.

Before any instalment of advance is released, the Contractor shall execute a Financial Bank Guarantee Bond from Nationalized Bank for the 110% of the amount of advance & valid for the Contract Period. This shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery, together with interest.

Provided always the provision of **Clause 2(i)** shall be applicable only when so provided in 'Schedule'

Interest & Recovery: The mobilization advance in (i) above bear simple interest at the rate of 10% 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 @ 15% to the gross value of the work billed in such a way that the entire advance is recovered by the time 80% 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. However, the net up to date interest on the mobilization advance in (i) above would be deducted from all payments released to the Contractors beginning the first interim certificate.

The said Bank Guarantee for advances shall initially be made for the full amount and valid for the contract period, and be kept renewed from time to time to cover the balance amount and likely period of complete recovery together with interest.

ii) Secured Advance on Non-perishable Materials**

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 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.

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.

Any such secured advance shall be paid only after the contractor executes a indenture for secured advances on indemnity bond Performa (annexure-----) on Rs. 100 stamp paper.

CLAUSE 2(i) Recovery of Security Deposit

The person /persons whose tender(s) may be accepted (hereinafter called the contractor) shall deposit UPPCL at the time of making any payment to him for work done under the contract, a sum shall be deposited in the form of FDR of Nationalized Bank duly pledged in the favour of UP Projects Corporation Ltd. At the rates of 5% of the gross amount of each running bill as security deposit. The total amount of security deposit will be 5% of the tendered value of the work. The security deposit in the form of Nationalized Bank shall be collected from the running bills of the contractor at the rates mentioned above. The FDR shall be valid up to 3 months beyond stipulated period of expiry of defect liability period.

CLAUSE 3 liquidated Damages (LD) for Delay

If the contractor fails to maintain the required progress in terms of **clause 4** or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the authority specified in schedule A-6 (whose decision in writing shall be final and binding) may decide on the amount of the tendered value of the work for every completed day / month (as applicable) that the progress remains below that specified in **Clause 4** or that the work remains incomplete.

This will also apply to items or group of items for which a separate period of completion has been specified.

Liquidated damage for delay of work

- (i) 1% of tendered value or revised sanction (if any deviations occurred & approved by Client Department) per month, to be computed on a per day basis, for delays up to 3 months.
- (ii) 2% of tendered value or revised sanction (if any deviations occurred & approved by Client Department), to be computed on a per day basis, per month for delays thereafter i.e. 4 to 6 months, i.e., a delay of 6 months will entail Liquidated damage of 9%.

Provided always that the total amount of liquidated damage for delay beyond 6 months to be paid under this Condition shall not exceed 10% of the Tendered value or revised sanction (if any deviations occurred & approved by Client Department) of the item or group of items of work for which a separate period of completion is originally given.

The amount of liquidated damages may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the U.P.P.C.L. In case, the contractor does not achieve a particular milestone mentioned in schedule A-6, or the re-scheduled milestone(s) in terms of **Clause 4.4**, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of Extension of Time. 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, what so ever shall be payable on such withheld amount.

In case the contractor fails to make up for the delay even at the time of completion of work, all withheld amounts shall be deducted from final bill against work actually done. If the amount in final bill is less than the tendered amount, actual amount approved by Engineer-in-Charge against final bill would be the maximum limit of Payment.

CLAUSE 4 Time and Extension for Delay

The time allowed for execution of the Works as specified in the Schedule A-6 or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from such time period as mentioned in schedule A-6 or from the date of handing over of the site or issuance of NO-DEFECT CERTIFICATE from Client Department whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, Department shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money & performance guarantee absolutely.

4.1 As soon as possible after the Contract is concluded, the Contractor shall submit a Time and Progress Chart for each mile stone and get it approved by the Engineer-in-charge. 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, and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per mile stones given in Schedule A-6. The physical progress report **sufficient Coloured Geo-Tagged photographs of each buildings / infrastructures** shall be submitted by the contractor on the approved format at the intervals not exceeding one month as decided by Engineer in charge.

4.2 If the work(s) be delayed by: -

- (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 traders employed on the work, or
- a. Delay on the part of other contractors or tradesmen engaged by Department in executing work not forming part of the Contract, or Any other cause which, in the absolute discretion of the Engineer-in-Charge is beyond the Contractor's control.

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.

4.3 Request for rescheduling of Milestones and 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 form. The contractor may also, if practicable, indicate in such a request the period for which extension is desired.

4.4 In any such case the authority as indicated in Schedule A-6 may give a fair and reasonable extension of time and reschedule the milestones for completion of work. Such extension shall be communicated to the Contractor by the Engineer-in-Charge in writing within **3 months** of the date of receipt of such request. Non application by the contractor for extension of time shall not be a bar for giving a fair and reasonable extension by the authority as indicated in Schedule A-6 and this shall be binding on the contractor.

4.5 However above extension will be valid only after approval by E.F.C approved by Govt. order.

CLAUSE 5 Measurements of Work Done

Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement, the value in accordance with the contract of work done.

All measurement of all items having value shall be entered in Measurement Book and / or level field book so that a complete record is obtained of all works performed under the contract.

All measurements and levels shall be taken jointly by Junior Engineer of UPPCL and by the contractor or his authorised representative from time to time during the progress of the work and such measurements shall be signed and dated by the Junior Engineer of UPPCL and the contractor or his representative. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties.

If for any reason the contractor or his authorised representative is not available and the work of recording measurements is suspended by the Junior Engineer, the Engineer-in-Charge and the Department shall not entertain any claim from contractor for any loss or damages on this account. If the contractor or his authorised representative does not remain present at the time of such measurements after the contractor or his authorised representative has been given a notice in writing three **(3) days** in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Junior Engineer shall be deemed to be accepted by the Contractor.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for measurements and recording levels.

Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure 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.

It is also a term of this contract that recording of measurements of any item of work in the measurement book and / or its payment in the interim, on account or 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.

CLAUSE 6 When Contract can be Determined

Subject to other provisions contained in this clause, the UPPCL may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, 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:

- (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.
- (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 so that in the opinion of the Engineer-in-Charge (which shall be final and binding) he will be unable to secure completion of the work by the date for completion and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.
- (iii) If the contractor fails to complete the work within the stipulated date or items of work with individual date of completion, if any stipulated, on or before such date(s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge.
- (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.
- (v) If the contractor shall offer or give or agree to give to any person in UPPCL or 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 forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract with UPPCL.
- (vi) If the contractor shall enter into a contract with UPPCL 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.
- (vii) If the contractor shall obtain a contract with UPPCL as a result of wrong tendering or other non-bonafide methods of competitive tendering.
- (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 purport so to do, 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.
- (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 creditor 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.
- (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**.
- (xi) If the contractor assigns, 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.
- (xii) When the work contractor has made himself liable for action under any of the cases aforesaid, the UPPCL shall have powers:
 - (a) To determine the contract as aforesaid (of which termination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, the Earnest Money Deposit, Security Deposit already recovered and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Department.

(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.

In the event of above courses being adopted by the Department, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagement 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 so certified.

CLAUSE 7

In case, the work cannot be started due to reasons not within the control of the contractor within 1/6th of the stipulated time for completion of work, either party may close the contract. In such eventuality, the Performance Guarantee of the contractor shall be refunded, but no payment on account of interest, loss of profit or damages etc. shall be payable at all.

CLAUSE 8 Contractor liable to pay Compensation even if action not taken under Clause 6

In any case in which any of the powers conferred upon the UPPCL/Client by **Clause-6** 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 notwithstanding 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 UPPCL/Client putting in force all or any of the power 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 authorised 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 such sale shall be final and conclusive against the contractor.

CLAUSE 9 Payment on Intermediate Certificate to be regarded as Advances

The interim or running account bills shall be submitted by the contractor for the work executed on the basis of recorded measurements on the format as approved by the Engineer-in-Charge in triplicate along with soft copy of the bill 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 A-6, 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, Engineer-in-Charge shall prepare or cause to be prepared such bills in which event 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 within thirty days after the day of certification of the bill by the Engineer-in-Charge or his authorised representative together with the account of the material issued by the department, or dismantled materials, if any along with all required supporting documents.

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.

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.

However, the Engineer-in-Charge in his sole discretion on the basis of a certificate from his authorised representative in-charge of the work at site make interim advance payments at 75% of the assessed value of the material supplied by the contractor at site to be used within 3 months. The advance payment so allowed must be adjusted in the next interim bill by taking detailed measurements after the use of the material. Before any instalment of advance is released, the Contractor shall execute a Indemnity Bond from Nationalized Bank for the 110% of the amount of advance & valid for the Contract Period.

The contractor shall, after receiving his interim payment, shall clear all the dues of his labour/ material suppliers & produce a certificate / receipt on this account with next running bill. If the contractor does not clear these dues or unnecessarily delays the same, the Engineer-in-Charge at his discretion can make payments to these labour/ material suppliers directly. Any such payment shall be recovered from the contractor's bill.

MM-11 Issued should be compulsory to be attached for all quarry material consumed in construction along with bill submitted; otherwise royalty shall be deducted as per prevailing G.O's from the bill.

CLAUSE 10 Payment of Final Bill

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 after successful handing over of work to the Client/Government whichever is later. 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. Payment 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 of six months reckoned from the date of receipt of the bill by the Engineer-in-Charge or his authorised Engineer, complete with account of materials issued by the Department and dismantled materials along with all supporting documents.

No bill shall be paid to the contractor after the release of 95% payment including 5% security deposit & the contractor is bound to complete the 100% work with no further payment or advances. Thereafter, the payment to contractor will be made against full & final bill submitted by the contractor only after completion & successful handing over of the project to client [along with issuance of NO-DEFECT CERTIFICATE from Client Department](#) & release of balance withheld fund (against quality assurance) to UPPCL from the Client .

In no case payment will be made in excess of the 95% funds received from client less contingencies & centage charges

CLAUSE 11 Release of Security deposit after labour clearance

Security Deposit of the work shall not be refunded till the contractor produces a clearance certificate from the Labour Officer. As soon as the work is virtually complete the contractor shall apply for the clearance certificate to the Labour Officer under intimation to the Engineer-in-Charge. The Engineer-in-Charge, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint is pending against the contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released against Bank Guarantee issued by Nationalize Bank valid upto 3 months of defect liability period.

CLAUSE 12 VARIATIONS

12.1The Engineer shall, having regard to the scope of the works and sanctioned estimated cost, have power to order in writing, variations within the sanctioned items of EFC & T.S he considers necessary or advisable during the progress of the works. Such variations shall form part of the contract and the contractor shall carry them out and include them in updated programmes produced by the contractor. Oral orders of the engineer for variations, unless followed by written confirmation, shall not be taken into account.

12.2-If rates for variation/supplement items are specified in bill of quantity, the contractor shall carry out such work at the same rate. This shall apply for variation only up to the limit prescribed in the contract data. If the variation exceeds this limit, the rates shall be derived under the provision of clause-12.4 for quantities (higher or lower) exceeding the deviation limit.

12.3-If the rates for variation/supplement items are not specified in the bill of quantities, the engineer shall derive the rate from similar items in the Bill of quantities.

12.4-The items not covered in bill of quantity of original NIT will be treated as extra items for which rates cannot be determined in the manner specified in clause-12.2 or 12.3, the contractor shall, within 14 days of the issue of order of variation work, inform the engineer the rate which he proposes to claim, supported by analysis of the rates. The engineer shall assess the quotation and

determine the rate based on prevailing market rates within one month of the submission of the claim by the contractor. As far as possible, the rate analysis shall be based on the standard data book and the current schedule of rates of the district public works division/DSR which ever applicable. The decision of the engineer on the rate so determined shall be final and binding on the contractor.

12.5-Variation is allowed maximum up to final revised sanctioned quantities by the concerned E.F.C. approved by Govt. order. Any variation in quantities of Current BOQ due to change in scope of work or any other reason shall be part of this tender. This variation will be paid to the contractor AFTER APPROVAL OF GENERAL MANAGER ZONE and In no case expenditure will be made in excess of the 95% funds received from client less contingencies & centage charges.

CLAUSE 12A ESCALATION

Payment shall be made subjected to revision of project and availability of the fund received from client (may be in phased manner). **In no case expenditure will be made in excess of the 95% funds received from client less contingencies & centage charges.** However in case of non-availability of fund from Govt., if the completion of the project is delayed beyond the date as specified in the contract and due to this reason the cost revision is sanctioned and released by the Govt. to UPPCL, the claim of the contractor (if there is any) may be considered by **Engineer In Charge on work done / work to be done basis**. Such Compensation for escalation must not be more than sanctioned/ passed by concerned E.F.C. approved by Govt. order. Such compensation is calculated on basis of quantities executed during the schedule of rate / DSR rate and less 5% rate of schedule rate /DSR rate of corresponding year which is passed by concerned E.F.C. approved by Govt. order.

CLAUSE 13A Materials to be provided by the Contractor

The contractor shall, at his own expense, provide all materials, required for the works.

The contractor shall, at his own expense and without delay, supply to the Engineer-in- Charge or his authorised representative 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 or his authorised representative 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 or his authorised representative 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.

The Contractor shall at his risk and cost submit the samples of materials to be tested or analysed 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.

The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge or his authorised representative 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 or his authorised representative and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in- Charge or his authorised 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.

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 powers to require other proper materials to be substituted thereof 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.

Wherever different pattern/design/quality of materials with same specifications/make as specified in the contract is available in the market, Engineer-in-Charge will be sole authority to decide pattern/design/quality of the material which shall be final and binding on the contractor.

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 A-6. In addition, equipment for carrying out various tests (except chemical analysis) on basic materials i.e. cement, fine aggregate, coarse aggregate & bricks shall be kept in the site lab. Contractor shall employ sufficient manpower to ensure that all tests are carried out in accordance with the periodicity specified in

relevant IS.

CLAUSE 13 B Condition relating to use of asphaltic materials

- (i) The contractor undertakes to make arrangement for the supervision of the work by the firm supplying the tar or bitumen used.
- (ii) The contractor shall collect the total quantity of tar or bitumen required for the work as per standard formula, before the process of painting is started and shall hypothecate it to the Engineer-in-Charge. If any bitumen or tar remains unused on completion of the work on account of lesser use of materials in actual execution for reasons other than authorised changes of specifications and abandonment of portion of work, a corresponding deduction equivalent to the cost of unused materials as determined by the Engineer-in-Charge shall be made and the material return to the contractors. Although the materials are hypothecated to Government, the contractor undertakes the responsibility for their proper watch, safe custody and protection against all risks. The materials shall not be removed from site of work without the consent of the Engineer-in-Charge in writing.
- (ii) The contractor shall be responsible for rectifying defects noticed within a year from the date of completion of the work and the portion of the security deposit relating to asphaltic work shall be refunded after the expiry of this period.

CLAUSE 14 Dismantled Material Govt. Properties

The Contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as Government's property and such materials shall be disposed of to the best advantage of Government according to the instructions in writing issued by the Engineer-in-Charge.

CLAUSE 15 Work to be executed in Accordance with specifications, Drawings, Orders etc.

The Contractor shall execute the whole and every part of the work in the most substantial and workmanlike 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 writing in respect of the work signed by the Engineer-in-Charge and/or his authorised representative and the contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs, drawings and instructions as are not included in the standard specifications of UPPWD/Central Public works Department specified in Schedule A-6 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.

The contractor shall comply with the provisions of the contract and 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 of construction.

CLAUSE 16 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 14**, 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 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 17 Work Commencement

All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer-in-Charge who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

CLAUSE 18 Lump sum 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.

CLAUSE 19A Completion Certificate and Completion Plans

Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice the Engineer-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 and sanitary 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 the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-in-Charge & also not until the building is successfully handed over to the Client/Government. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangements as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in-Charge may 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 as aforesaid except for any sum actually realized by the sale thereof.

CLAUSE 19B Completion Plans to be submitted by the Contractor

The contractor shall submit completion plan required as per specifications / as directed by Engineer in charge within thirty days of the completion of the work.

In case, the contractor fails to submit the completion plans as aforesaid, he shall be liable to pay a sum equivalent to **2.5%** of the value of the work subject to a ceiling of **Rs.50,00,000 (Rs.Fifty lac only)** as may be fixed by the Engineer-in-charge and in this respect the decision of the Engineer-in-charge shall be final and binding on the contractor.

CLAUSE 19C Contractor to keep Site Clean

When the annual repairs and maintenance of works are carried out, the splashes and droppings from white washing, colour washing, painting etc., on walls, floor, windows, etc. shall be removed and the surface cleaned simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc. where the work is done without waiting for the actual completion of all the other items of work in the contract. In case the contractor fails to comply with the requirements of this clause, the Engineer-in-Charge shall have the right to get this work done at the cost of the contractor either departmentally or through any other agency. Before taking such action the Engineer-in-Charge shall give ten days' notice in writing to the contractor.

CLAUSE 20 Action in case Work not done as per Specifications

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer – in – Charge, his authorised subordinates in charge of the work and all the superior officers, officer of the Quality Assurance Unit of the Department or any organization engaged by the Department for Quality Assurance and of the TAC or any other agency, and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself. If any it shall appear to the Engineer – in – Charge or his authorised subordinates in charge of the work or to the Officer in charge of Quality Assurance or his subordinate officers or the officers of the organization engaged by the Department for Quality Assurance or to the TAC or any other agency (during construction or after completion/ handing over of work), that any work has been executed with unsound, imperfect, or unskilful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing from the

Engineer – in – Charge specifying the work, materials or articles complained of notwithstanding 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 3** of the contract (for non- completion of the work in time) for this default.

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 A-6 may consider reasonable during the preparation of on 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 the 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.

If during construction or after construction, Client/ Government order inspection by TAC or any other agency & 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 UPPCL 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 under payment shall be duly paid by UPPCL to the contractor, without any interest thereon whatsoever.

Provided that the UPPCL shall not be entitled to recover any sum over paid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Engineer-in-Charge on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Engineer-in-Charge.

CLAUSE 21 Contractor Liable for Damages, defects during maintenance period

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 twelve months 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 sums 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 defect liability period.

CLAUSE 22 Carrying out part work at risk & cost of Contractor

If contractor:

- i) 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 days in this respect from the Engineer-in-charge; or
- ii) 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 days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or
- iii) 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 the Engineer-in-charge.

The Engineer-in-Charge without invoking action under **clause 6** may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to UPPCL/Client, 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:

- (a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or carry out the part work/part incomplete work of any item(s) by any means at the risk and cost of the Contractor.

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.

In determining the amount, credit shall be given to the supplementary 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.

Any excess expenditure incurred or to be incurred by the UPPCL/Client in completing the part work/part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by UPPCL as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to the UPPCL in law or per as agreement be recovered from any money due

to the contractor or 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. 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 contractor's 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 thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract.

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 any 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.

CLAUSE 23 SUSPENSION OF WORK

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 work 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 reason.

- a. On account of any default on the part of the contractor or,
- b. For proper execution of the work or part thereof for reasons other than default of the contractor or,
- c. For safety of the work or part thereof

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. However suitable extension of time shall be granted by Engineer-in-charge for such suspension of work without any compensation.

CLAUSE 24 Work not to be sublet: Action in case of insolvency

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 UPPCL or 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 UPPCL shall have power to adopt the course specified in **Clause 6** hereof in the interest of UPPCL /Government and in the event of such course being adopted, the consequences specified in the said **Clause 6** shall ensue.

CLAUSE 25 With-holding and lien in respect of sums due from contractor

(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 UPPCL shall be entitled to withhold and also have a lien 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 UPPCL shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalisation or adjudication of any such claim. In the

(ii) 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 UPPCL 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 UPPCL or any contracting person through the Engineer-in-Charge pending finalisation of adjudication of any such claim.

It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or UPPCL will be kept withheld or retained as such by the Engineer-in-Charge or UPPCL 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 UPPCL 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.

(ii) UPPCL 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 UPPCL 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 under payment shall be duly paid by UPPCL to the contractor, without any interest thereon whatsoever.

Provided that the UPPCL shall not be entitled to recover any sum over paid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Engineer-in-Charge on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Engineer-in-Charge.

CLAUSE 26A 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 UPPCL or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or UPPCL 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 UPPCL 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 UPPCL will be kept withheld or retained as such by the Engineer-in-Charge or the UPPCL 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 27 Foreclosure of contract due to Abandonment or Reduction in scope of Work

If at any time after acceptance of the tender, UPPCL decide to abandon or reduce the scope of works for any reason whatsoever and hence not require the whole or any part of the works to be carried out, the Engineer – in – Charge shall give notice in writing to that effect to the contractor 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.

The contractor shall be paid at contract rates, full amount for work executed at site. Nothing extra shall be paid to contractor by the Engineer – in – Charge for 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 which could not be utilised on the work to the full extent in the view of foreclosure;

UPPCL shall have the option to take over contractor's materials or any part of thereof brought to site. For materials taken over by UPPCL, cost of such materials as detailed by Engineer –in – Charge shall be paid. The cost shall, however, take in to account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor.

If any materials supplied by the UPPCL are rendered surplus, the same except normal wastage shall be returned by the contractor to the UPPCL at rates not exceeding those at which these were originally issued, less allowance for any deterioration or damage which may have been caused whilst the materials were in the custody of the contractor. In addition, cost of transporting such materials from site to U.P.C.L stores, if so required by UPPCL, shall be paid by the contractor.

Any new item (not covered under this tender document) introduced & sanctioned by Government as new or as replacement of existing item due to technical reason (or any other reason) may or may not be included in the scope of work of this tender/contract. UPPCL reserves the full right, without being liable for any damages or obligation, to get it executed separately.

CLAUSE 28 Compensation during warlike situations

The work (whether fully constructed or not) and all materials, machines, tools and plants, scaffolding, temporary buildings and other things connected therewith shall be at the risk of the contractor until the work has been delivered to the Engineer-in-Charge and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or warlike operation, the contractor shall when ordered (in writing) by the Engineer-in-Charge to remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work on his own cost.

CLAUSE 29 Termination of Contract on death of contractor

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the authority indicated in **Clause 3** of Schedule A-6, on behalf of the UPPCL shall have the option of terminating the contract without compensation to the contractor.

CLAUSE 30 Termination of Contract for other reasons

(i) Without prejudice to any of the rights or remedies under this contract, if the client/ Government withdraws the work from UPPCL due to any reason, UPPCL shall have the option of terminating the contract without compensation to the contractor.

(ii) If the contractor or his representatives/ associates/ workers / employees misbehave or use undue language or use undue correspondence with UPPCL Officers/ staff, the authority indicated in **Clause 3** of Schedule A-6, on behalf of the UPPCL shall have the option of terminating the contract without compensation to the contractor.

CLAUSE 31 Return of material & recovery for excess material Consumed/issued.

(i) After completion of the work and also at any intermediate stage in the event of no reconciliation of materials issued, consumed and in balance – (see **Clause 13A**), theoretical quantity of materials consumed for use in the work shall be calculated on the basis and method given hereunder: -

(a) Quantity of cement shall be calculated on the basis of quantity of cement required for different items of work as shown in the Schedule of Rates mentioned in Schedule A-6. 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.

(b) Theoretical quantity of steel reinforcement or structural steel sections shall be taken as the quantity required as per design or as authorised by Engineer-in-Charge, including authorised lap pages, chairs etc. plus 2 % 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.

(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.

(d) For any other material as per actual requirements.

(ii) Over the theoretical quantities of materials so computed a variation shall be allowed as specified in Schedule A-6. The difference in the net quantities of material actually consumed by the contractor and the theoretical quantities including such authorised variation, if not fully reconciled to the satisfaction of the Engineer-in-Charge with on written notice of E/I shall be recovered at the rates specified in Schedule A-6, without prejudice to the provision of the relevant conditions regarding consumption of materials governing the contract. Decision of Engineer-in-Charge in regard to theoretical quantities of materials, which should have been actually used as per the Annexure of the standard schedule of rates and recovery at rates specified in Schedule A-6, shall be final & binding on the contractor.

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.

(iii) The said action under this clause is without prejudice to the right of the Department to take action against the contractor under any other conditions of contract for not doing the work according to the prescribed specifications.

CLAUSE 32 Levy/Taxes payable by Contractor

(i) The contract price is inclusive of all applicable taxes (**Including GST as mentioned in BoQ & EPF/ ESI**), duties, cess and statutory levies payable under any law by the contractor in connection with execution of the contract., 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.

However, the contract price will be adjusted prospectively for increase / decrease in the GST rate on works contract notified by Government of India, subject to its being sanctioned & released by Client Department.

(ii) Notwithstanding anything contained in clause (i) the contractor shall ensure payment of appropriate tax on the supplies made under the contract. The contractor shall take registration under the applicable enactment levying tax on supply of goods or services under the contract and issue invoice having all the particulars prescribed under the applicable provisions of the law including. Description of goods/service, rate and amount of tax paid or payable on the supplies made under the contract, so that UPPCL can avail credit of such tax, wherever applicable. The contractor shall comply with all applicable provision of Goods and Service Tax (GST) levied by Union Government and State Government (CGST, UTGST, SGST and IGST). The Contractor shall get himself registered and discharge his obligations for payment of taxes, filing of returns etc. under the appropriate provisions of law in respect of all the applicable taxes, duties, levies, cess etc. UPPCL would have right to seek necessary evidence that the contractor is registered under the law and duly discharging its obligations under the tax law, enabling UPPCL to avail input tax credit.

- (iii) In case any law requires UPPCL to pay tax on the contract price on reverse charge basis, the amount of tax deposited by UPPCL would be considered as paid to the contractor and accordingly the price payable to the contractor would stand reduced to that extent.
- (iv) In case the contractor does not deposit the tax payable on execution of the contract or has not provided the tax invoice to UPPCL showing the amount of tax or has not uploaded the document in computerised tax network as per prevailing law, leading to non-availability of inputs credit of the tax to UPPCL the amount equivalent to such tax shall be deducted from the contract price.
- (v) Stamp duty and registration charges, if any payable on the executed contract document shall be borne by the contractor.
- (vi) Tax deduction at source if any shall be made by UPPCL as per law applicable from time to time from the amount payable to the contractor.
- ~~(vii) Labour cess will pay extra as per concerned E.F.C. approved by Govt. order~~
- (viii) The contractor shall deposit royalty and obtain necessary permit for supply of earth, sand, stone, kankar, etc. from local authorities.
- (ix) If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the UPPCL and does not any time become payable by the contractor to the Central Government/State Government/Local authorities in respect of any material used by the contractor in the works then in such a case, it shall be lawful to the UPPCL and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from dues of the contractor.

CLAUSE 33 If relative working in UPPCL then the contractor not allowed to tender

The contractor shall not be permitted to bid for works in the UPPCL ZONE /UNIT responsible for award and execution of contracts, in which his near relative is posted as an 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 officer in the UPPCL. Any breach of this condition by the contractor would render him liable to be debarred from tendering in the Department in future.

NOTE: By the term “near relatives” is meant wife, husband, parents and grandparents, children and grandchildren, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.

CLAUSE 34 No Gazetted Engineer to work as Contractor within two 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 two 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 35 Contractors to Supply Tools & Plants etc.

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 A-6. 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 a sufficient portion thereof.

CLAUSE 36 Contractor to indemnify Govt. against Patent Rights

The contractor shall fully indemnify and keep indemnified the UPPCL 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 Department/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 UPPCL 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.

CLAUSE 37 Unfiltered water supply

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.

- (i) That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.
- (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.

CLAUSE 38 Departmental water supply, if available

Water if available may be supplied to the contractor by the Department subject to the following conditions:-

- (i) The **water charges @ 1%** shall be recovered on gross amount of the work done.
- (ii) The contractor(s) shall make his/their own arrangement of water connection and laying of pipelines from existing main of source of supply.
- (iii) The Department do not guarantee to maintain uninterrupted supply of water and it will be incumbent on the contractor(s) to make alternative arrangements for water at his/their own cost in the event of any temporary break down in the Government water main so that the progress of his/their work is not held up for want of water. No claim of damage or refund of water charges will be entertained on account of such break down.

CLAUSE 39 Changes in firm's Constitution to be intimated

Where the contractor is a partnership firm, the prior 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 works 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 23** hereof and the same action may be taken, and the same consequences shall ensue as provided in the said **Clause 23**.

CLAUSE 40 Recovery of Compensation paid to workmen

In every case in which by virtue of the provision sub-section (1) of Section 12, of the Workmen's Compensation Act, 1923, UPPCL is obliged to pay compensation to a workman employed by the contractor, in execution of the works, UPPCL will recover from the contractor, the amount of the compensation so paid; and, without prejudice to the rights of the UPPCL under sub-section (2) of Section 12, of the said Act, UPPCL 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 UPPCL to the contractor whether under this contract or otherwise. UPPCL 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 UPPCL full security for all costs for which UPPCL might become liable in consequence of contesting such claim.

CLAUSE 41 Ensuring Payment and Amenities to Workers if Contractor fails

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, UPPCL is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the work, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act or under the Rules framed by Government from time to time for the protection of the health and sanitary arrangements for workers employed by Contractors to be followed by the Contractor for this Project, Department/Government 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 Government under sub-section (2) of Section 20, and sub-section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, 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 Department/Government to the contractor whether under this contract or otherwise. Department/Government 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 Department/Government full security for all costs for which the Department/Government might become liable in contesting such claim.

CLAUSE 42 Labour Laws to be complied by the Contractor

The contractor shall obtain a valid license under the Contract Labour (R & A) Act, 1970, and the Contract Labour (Regulation & 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 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 & Condition of Service) Act, 1996 and the Building and Other Construction Workers Welfare Cess Act, 1996.

Any contractor shall also ensure the complains of EPF act 1952. 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 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, which is to be included in the contract price / tendered amount quoted by the Contractor.**

Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.

No labour below the age of fourteen years shall be employed on the work.

CLAUSE 43 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 UPPCL/client without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

CLAUSE 44 Minimum Wages Act to be complied with

The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, 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.

CLAUSE 45 Insurance

45.1 Without limiting the Contractor's obligations and responsibilities stated elsewhere in the Contract, the Contractor shall at his own cost arrange, secure and maintain insurance in the joint names of the UPPCL, Client and the contractor with an insurance company selected by the contractor and acceptable to the UPPCL / Client/Consultant, in such a manner that the UPPCL / Client and the contractor are covered for all time during the period of contract i.e. the time period allowed for completion of work, extended period and the defect liability period. The insurance shall be affected in accordance with terms approved by the UPPCL, Client and the contractor shall submit the insurance policies to the Engineer-In-Charge within one week of signing of the agreement along with the receipt of premium. The contractor shall timely pay and submit the receipts of payment of premiums for extensions of policies, if any. The insurance shall cover Contractor's All Risks Insurance, Workman Compensation & Employers Liability Insurance and Third Party Insurance.

Clause 46

| | | | |
|-----|----|---|--|
| i) | a) | Schedule/ statement for determining theoretical quantity of various materials If not covered in UPPWD/CPWD SOR/UPPCL Consumption norms | UP PWD SOR /CPWD SOR /UPPCL CONSUMPTION NORMS As per formula laid down by Engineer –in-charge |
| ii) | | Variations permissible on theoretical quantities | |
| | a) | Cement | 2% plus/minus |
| | b) | Steel reinforcement and structural steel Sections for diameter, section and category. | 2% plus/minus. |
| | c) | All other materials | Nil |

CLAUSE 47 Settlement of Disputes & Arbitration

Dispute Resolution & Arbitration Clause:- "If any dispute arises between the UPPCL and the Contractor in connection with or arising out of, the Contract or the execution of the Works, whether during the execution of the works or after their completion and whether before or after the repudiation or other termination of Contract, including any disagreement by either party with any action, inaction, opinion, instruction, determination, certificate or valuation of Engineer, the matter in dispute shall be in the first place be settle amicably. The party raising the dispute shall address to the other party a notice requesting an amicable settlement of the dispute within 10 (ten) days from the date on which the dispute arose and the dispute shall be resolved by them and the resolution documented within a further period of 20 (twenty) days. Any dispute between the parties that cannot be settled amicably in the manner described above within 30 (thirty) days from the date on which the dispute arose, the same shall be referred for settlement through arbitration by sole Arbitrator, in accordance with the Arbitration and conciliation Act, 1996 and any statutory

amendment/modification or re-enactment thereof. **The sole Arbitrator shall be appointed by the Managing Director of U.P. Projects Corporation Ltd., Lucknow.** Arbitration may be commenced prior to or after completion of the work, provided that the obligation of the contractor and UPPCL shall not be altered by reason of arbitration being conducted during the progress of the work. The award of the sole arbitrator shall be final and binding on both the parties. The place of arbitration shall be at Lucknow and language of arbitration proceeding shall be English. The courts at Lucknow only shall have jurisdiction in respect of any matter arising out of the agreement.

Each party shall bear the cost of preparing and presenting its own case, and the cost of arbitration, including fees and expenses of the arbitration, shall be shared equally by both the parties. The cost of non-judicial stamp papers, if any required for making the award, shall be borne by the claimant.

Any matter not covered by this agreement shall be settled mutually by both the parties.

CLAUSE 48 In the case of e-Procurement, e-procurement manual will be binding/applicable to both owner and Contractor.

U.P. PROJECTS CORPORATION LTD.

INTEGRITY PACT

To,

Project Manager/General Manager
U.P. Projects Corporation Ltd.
.....Unit/Zone,
District.....

Sub: Submission of Tender for the work of.....

Dear Sir,

I/We acknowledge that UPPCL is committed to follow the principles there of as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender(NIT) is an invitation to offer made on the condition that I/We will sign then closed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by UPPCL. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, UPPCL shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/ bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

To be signed by the bidder and same signatory competent/authorized to sign the relevant contract on behalf of UPPCL

INTEGRITY AGREEMENT

This Integrity Agreement is made at.....on this.....day of..... 20.....

BETWEEN

UPPCL represented through Engineer in charge,

.....,

(Name of Unit)

UPPCL,.....(Here in after referred to as the

(Address of Unit)

‘Principal/Owner’, which expression shall unless repugnant to the meaning or context here of include its success or sand permitted assigns)

AND

.....

(Name and Address of the Individual/firm/Company)

through.....(Here in after referred to as the

(Details of duly authorized signatory)

“Bidder/Contractor” “and which expression shall unless repugnant to the meaning or context here of include it success or sand permitted assigns)

PREAMBLE

WHERE AS the Principal/Owner has floated the Tender(NIT No.....)(here in after referred to as “Tender/Bid”)and intends to award, under laid down organizational procedure, contract for

.....

(Name of work)

Here in after referred to as the “Contract”.

AND WHERE AS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s)and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (here in after refer ed to as “Integrity Pact” or “Pact”), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consider action of mutual covenants contained in this Pact, the parties here by agree as follows and this Pact witnesses as under:

Article1: Commitment of the Principal/Owner

(1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:

(a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

(c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduction the past has been of biased nature.

(2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code(IPC)/Prevention of Corruption Act,1988 (PC Act) or is in violation of the principles here in mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiated disciplinary actions as per its internal laid down policies sand procedures.

Article2: Commitment of the Bidder(s)/Contractor(s)

(1) It is required that each Bidder/Contractor (including the irrespective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or

Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

(2) The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

(a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

(b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

(c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner to the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

(d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in subsequent/parallel tender for the same item.

(d) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.

(3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offence outlined above or be an accessory to such offences.

(4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.

(5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

(1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put in question this reliability or credibility, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for limited period as decided by the Principal/Owner.

(2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contractor has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

(3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption it hints the meaning of

IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article4: Previous Transgression

- (1) The Bidder declares that no previous transgression so occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process and action can be taken for banning of business dealings/holiday listing of the Bidder/Contractor as deemed fit by the Principal/Owner.
- (3) If the Bidder/Contractor can prove that he has resorted/recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

- (1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/sub-vendors.
- (2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- (3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/ Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, UPPCL.

Article 7- Other Provisions

- (1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.
- (2) Changes and supplements need to be made in writing. Side agreements have not been made.
- (3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- (4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- (5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement/Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/Pact or interpretation thereof shall not be subject to arbitration.

Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties here to shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contract documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHERE OF the parties have signed and executed this Integrity Pact at the place and date first abovementioned in the presence of following witnesses:

..... (For and on behalf of Principal/Owner)

..... (For and on behalf of Bidder/Contractor)

WITNESSES:

1. (signature, name and address)
2. (signature, name and address)

Place: Dated:

U.P. PROJECTS CORPORATION LTD.

GENERAL REQUIRMENTS FOR THE TENDER

| | |
|----------------------|---------------------|
| Name of Work: | As per Given in NIT |
|----------------------|---------------------|

- 1 The tenderer is advised to read and examine the tender documents for the work and the set of drawings available with Engineer-in-charge. He should inspect and examine the site and its surroundings by himself before submitting his tender.
- 2 Separate schedule of quantity is included in this tender for civil and electrical items of work. If the tenderer wants to offer any unconditional rebates on their rates, the same should also be offered in the respective components of civil and electrical schedule separately. The contractor shall quote the percentage rates in figures and words accurately so that there is no discrepancy in rates written in figures and words.
- 3 Time allowed for the execution of work is months including rainy season.
- 4 The contractor(s) shall submit a detailed program of execution in accordance with the master programmed/milestone within ten days from the date of issue of award letter.
- 5 Quality of the project is of utmost importance. This shall be adhered to in accordance with the provisions of PWD/CPWD specifications and guidelines given in the relevant paras.
- 6 The contractor (s) shall make his own arrangements for electricity and water required for the execution of work.
- 7 **Cement shall be arranged by the contractor himself.**
- 8 **Steel Reinforcement shall be arranged by the contractor himself.**
- 9 **Engagement of agency for specialized works:** Contractor has to engage specialized agencies for specialized items of works such as **Pile work, Anti termite treatment, Aluminum works, Steel structure works, Metallic roofing and water proofing.** Only those specialized agencies/firms who have satisfactorily executed works as per following criteria during last seven years are eligible for the specialized works-

Pile work: -

- (a) Three similar works each costing not less than 40% of cost of this job in tender.

Or

- (b) Two similar works each costing not less than 50% of cost of this job in tender

Or

- (c) One similar work costing not less than 80% of cost of this job in tender

Similar work means – Pile/Civil Work.

B- Aluminum work: -

- (a) Three similar works each costing not less than 40% of cost of this job in tender

Or

- (b) Two similar works each costing not less than 50% of cost of this job in tender

Or

- (c) One similar work costing not less than 80% of cost of this job in tender

Similar work means - Aluminum Work.

C- Steel Structure Work (MS truss work):

- (a) Three similar works each costing not less than 40% of cost of this job in tender

Or

- (b) Two similar works each costing not less than 50% of cost of this job in tender

Or

- (c) One similar work costing not less than 80% of cost of this job in tender

Similar work means - Steel Structure Work (MS truss work).

D- Metallic Roofing work:

- (a) Three similar works each costing not less than 40% of cost of this job in tender

Or

(b) Two similar works each costing not less than 50% of cost of this job in tender

Or

(c) One similar work costing not less than 80% of cost of this job in tender

Similar work means –Metallic roofing work.

E-Water proofing work:

(a) Three similar works each costing not less than 40% of cost of this job in tender

Or

(b) Two similar works each costing not less than 50% of cost of this job in tender

Or

(c) One similar work costing not less than 80% of cost of this job in tender

Similar work means – Water proofing work in building.

Approval of the specialized agencies for each specialized work shall be obtained from the Engineer-in-Charge within one month of award of work. Even if, such specialized items of work shall be executed by the specialized agencies, the work shall be deemed to be executed by the tenderer for all purposes and the responsibility of the quality of items of works executed etc. shall continue to be that of the tenderer only.

10. Contractor has to provide reinforcement cover blocks made of approved proprietary pre packed free flowing mortars as per approved make by UPPCL.

SECTION B-2

U.P. PROJECTS CORPORATION LTD.

****MATERIAL & QUALITY ASSURANCE**

1. The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted. He shall have to submit quality assurance programme within two weeks from the award of work. The quality assurance programme should include method statement for various items of work to be executed along with check lists to enforce quality control.

2. The contractor shall get the source of all other materials, not specified elsewhere in the document, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement, to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.

3. The contractor shall submit shop drawings of staging and shuttering arrangement, aluminum work, fabrication work, electrical work and other works as desired by Engineer in Charge for his/ Architect's/consultant's approval at least one month before execution. The contractor shall also submit bar bending schedule for approval of Engineer –in – charge before execution.

4. Maintenance of Registers:

All the registers for tests of material to be carried out at construction site or in outside laboratories shall be maintained in triplicate & out of which one copy will be submitted to Assistant Projects Manager/ Project Manager for checking & records.

The test registers to be maintained by contractor/Assistant Projects Manager/ Project Manager are:

- Materials at site account register.
- Cement register.
- Master test registers.
- Cube test register.
- Inspection's register.
- Drawing register.

All the entries in the register will be made by the designated engineering staff of the contractor and same should be regularly reviewed by JE/APM/PM.

5. Contractor shall be responsible for safe custody of all the test registers (two copies).

6. Submission of one copy of all test registers, material at site register along with each alternate running account bill and final bill is mandatory. These registers should be duly checked by Assistant Resident Engineer/ Resident Engineer-in-Charge.

7. **Third party quality control/assurance:** Third part quality control/assurance shall be conducted by UPPCL by IIT/NIT/Government Engineering College/Government Institutes or any other Empanelled agency at least once in three months. The contractor has to provide all necessary assistance and has to submit compliance report within targeted time frame. All expenditure for Third part quality control/assurance shall be borne by the contractor.

8. **The contractor shall place a private security agency** on the site of work safety & security of materials, personnel's, vehicles and machinery etc. at his own cost. The security agency shall also regulate movement of materials, personnel's, vehicles and machinery. This agency shall follow the guidelines given by the Engineer-in-charge. Nothing extra shall be paid on this account.

9. The expenditure incurred on project Management consultancy services appointed by UPPCL shall be borne by the contractor.

10. The Contractor shall produce all original documents of custom and other clearances of all the materials imported (if any) up to the quality to be used for tendered work before use.

***ADDITIONAL CONDITIONS FOR CEMENT&REINFORCEMENT /STRUCTURAL STEEL**

1. The contractor shall procure ISI Marked Portland Pozzolana Cement conforming to IS: 1489 (Part-I) as required in the work, from reputed manufacturers of cement, such as A.C.C., Ultratech, Prism, Birla, Ambuja, Jaypee Cementor **from any other reputed cement Manufacturer having a production capacity not less than one million tons per annum as approved by UPPProjects corporation Ltd.**

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 conform 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 three days time of written order from the Engineer-in-Charge to do so.

2. The cement shall be brought at site in as & when require or as decided by the Engineer-in-Charge.

The cement godown as per CPWD specifications of the capacity to store a minimum of **2000** bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made.

3. 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 any time.

4. The cement shall be got tested by UPPCL for every 1000 bags or part there off. The contractor shall supply free of charge the cement required for testing including its transportation cost to test laboratories. The cost of tests shall be borne by the contractor.

a. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained. The theoretical consumption of cement shall be worked out as per procedure prescribed in **Clause 31** and **Clause 49** of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate show prescribed shall be made. In case of excess consumption, no adjustment needs to make.

b. 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.

c. 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 do shows within three days of receipt of such notice, the Engineer-in-Charge shall get it removed at the cost of the contractor.

6. 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.

7. The contractor shall procure TMT bars of **Fe 500 D** 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 UPPCL who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 million tons per annum and above.

8. TMT bars shall meet the provisions/ specifications of IS 1786: 2008 pertaining to **Fe D 500** grade of steel.

9. 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.

10. 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.

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 |

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 **Clause 31** and **Clause 49** 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 needs 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 authorized 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 authorized 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 un-authorized 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, T or 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 and 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.

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.

21. 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.

22. Tolerances on Nominal Mass (individual sample) shall be Table 2 under clause 6.2 & 7.2.2 at page 5 in BIS 1786-2008

****GENERAL TERMS & CONDITIONS**

1 The order of preference in case of any discrepancy as indicated in condition No. 9.1 under "Conditions of Contract" may be read as the following:

- i) Nomenclature of items as per schedule of quantities.
- ii) Particular specification and specific condition, if any.
- iii) Architectural Drawings
- iv) PWD/CPWD specifications.
- v) Indian standard specifications of B.I.S.
- vi) Sound Engineering Practice

A reference made to any Indian Standard specification in these documents, shall imply to the latest version of that standard. Including such revision/amendments as issued by the bureau of Indian standard upto 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 Except for the items, for which particular specifications are given or where it is specifically mentioned otherwise in the description of items in the schedule of quantities the work shall generally be carried out in accordance with the latest relevant PWD/CPWD Specifications(with upto date corrections slips) and instructions of Engineer-in-Charge. Wherever PWD/CPWD specifications are silent the latest IS codes/specification shall be followed.

3 Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and nothing extra shall be payable to him on account of the same.

4 The proposed building is a prestigious project and quality of work is paramount importance. Contractor shall have to engage well experienced skilled Labouré and deploy modern T&P and other equipment to execute the work. Many items like stone cladding works, stone flooring, and other specialized flooring work, Wood work will specially require engagement of skilled workers having experience particularly in execution of such items.

5 a) The contractor (s) shall inspect the site of work before tendering and acquaint himself with the site conditions and no claim on this account shall be entertained by the department.

b) The contractor (s) shall get himself acquainted with nature and extent of the work and satisfy himself about the availability of materials from kiln or approved quarries for collection and conveyance of materials required for construction.

6 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 of site. However, no claim on the alleged inadequacy or incorrectness of the soil data shall be entertained.

7 The tenderer shall see the approaches to the site. In case any approach from main road is required by the contractor, the same shall be made good, improved and maintained by the contractor at his own cost. No payment shall be made on this account.

8 The contractor (s) shall give to the Municipality, 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 authorized 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 light and other illumination on for cautioning the public at night.

9 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night speed limit board's red flags, red lights and providing barriers. He shall be responsible for all dangers and incidents caused to existing / new work due to negligence on his part. No hindrances shall be caused to traffic during the execution of the work.

10 Contractor shall provide permanent bench marks and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the drawings

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 authorized agents of the State Government concerned or the Central Government, as the case may be.
- 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 for the execution of work and the detailed provision in **clause 4** of GCC shall be followed.
24. If the work is carried out in more than one shift or during night, no claim on this account 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.
- 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, machineries 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/fixings involved unless and otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duly approved by the Engineer-in-Charge.

30 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: -**

All necessary measures are to be taken to control pollution.

31.1. Construction Vehicles, Equipment and Machinery

- a. All vehicles, equipment and machinery to be procured for construction shall conform to the relevant Bureau of India Standard (BIS) norms.
- b. Emission from the vehicles must conform to environmental norms.
- c. Dust produced from the vehicular movement and other site activities is to be mitigated by sprinkling of water.
- d. Noise limits for construction equipment's 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) Leg (5 min) in project area.

31.2. Construction Wastes Disposal

- (i) 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.
- (ii) Contractor shall get approved the location of disposal site prior to commencement of the excavation on any section of the project location.
- (iii) Contractor shall ensure that any spoils of material / construction waste will not be disposed off in any municipality solid waste collection bins.

31.3 Procurement of Construction Materials

- (i) All vehicles delivering construction materials to the site shall be covered to avoid spillage of materials and maintain cleanliness of the roads.
- (ii) 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.
- (iv) 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.

31.4 Water Pollution

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

31.5 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.

- a. 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.
- b. For controlling the noise from Vehicles, Plants and Equipment's, the Contractor shall confirm the following:
 - 1) All vehicles and equipment used in construction will be fitted with exhaust silencers.
 - 2) 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.

- 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 $94 + 10 \log_{10} (\text{KVA})$. 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.
- 31.6 Adequate drinking water facility should be provided at site, adequate number of decentralised latrines and urinals to be provided for construction workers.
- 31.7 Full time workers residing on site should be provided with clean and adequate temporary hutment.
- 31.8 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).
- 31.9 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.
- 31.10 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.
- 31.11 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.
- 31.12 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.
 - (iv) Areas where excavation or earth moving activities are to be carried out.
- 31.13 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.
- 31.14 Clear vegetation only from areas where work will start right away
- 31.15 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.
- 31.16 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.
- 31.17 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.
- 31.18 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.

31.19 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.

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

31.21 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.

31.22 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).

31.23 All lighting installed by the contractor around the site and at the labour quarters during construction shall be CFL bulbs of the appropriate illumination levels. This condition is a must, unless specifically prescribed otherwise.

32. *Safety Measures to be followed

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 thereof 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.)

a. 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

b. 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.

7.(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: -

(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 all-round the point of drilling to avoid entry of people;

(iv) After drilling the bore well, 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;

(vi) After the completion of the bore well, 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;

(vii) After the bore well is drilled the entire site should be brought to the ground level.

8. 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.

9. 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 eye shields.

(iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.

10. When the work is done near any place where there is risk of drowning, all necessary equipment's 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.

(c) Use of durable and reusable formwork systems to replace timber formwork and ensure that formwork where used is properly maintained.

(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) 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 RE/ARE.

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 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. 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.

***PARTICULAR SPECIFICATION & SPECIAL CONDITION OF WORK

33.EARTH WORK

The work shall be done in accordance with PWD/CPWD specifications.

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

34. RCC WORK

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

2.1 If the quantity of cement actually used in the work is found to be more than the theoretical quantity of cement including authorized variation, nothing extra shall be payable to the contractor on this account. 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 **clause 49** 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.

2.2 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.

2.3 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.

2.4 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.

35. 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 IIT/NIT. 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.

Lot Size

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

| Quantity of concrete in the work cubic meter 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.

35.A 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.

b. 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.

c. 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.

d. **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 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.

35.B PRE-CAST RCC WORK

1. 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.

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

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

4. SANITARY INSTALLATIONS, WATER SUPPLY AND DRAINAGE

4.1 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.

4.2 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.

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

4.4 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.

4.5 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.

4.6 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.

4.7 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.

5. WATER PROOFING/ANTITERMITE TREATMENT

- 1) **Antitermite Treatment and water proofing/ Brick Cobia work shall be done by licensed firms through expertise team.**
- 2) The contractor shall associate himself with the specialized 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.

U.P. PROJECTS CORPORATION LTD.

Form of Performance Security (Guarantee)

Bank Guarantee Bond

In consideration of the UPPCL(hereinafter called "The Nigam") 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 Nigam an amount not exceeding Rs. (Rupees..... Only) on demand by the Nigam.
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 Nigam 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. (Rupeesonly)
3. We, the said bank further undertake to pay the Nigam 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 Nigam 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 Nigam 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 Nigam that the Nigam 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 Nigam 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 Nigam or any indulgence by the Nigam 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 Nigam in writing.
8. This guarantee shall be valid up tounless extended on demand by the Nigam. 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 theday offor.....(indicate the name of the Bank)

BANK GUARANTEE FOR MOBILISATION ADVANCE

(On non-judicial paper of an appropriate value)

To,

The Managing Director,
U.P. Projects Corporation Ltd.,
Gomti Barrage, Left Bank,
Gomti Nagar, Lucknow.

Subject:- _____

(Name of work and Contract No.)

Dear Sir,

1. In consideration of the U.P. Projects Corporation Ltd. (hereinafter called as the UPPCL Ltd, which expression shall include his successors and assigns) having agreed under the terms & conditions of Contract no..... dated (Hereinafter called the Contract) to make at the request of the contractor there under a lump sum advance of Rs..... for utilizing it for the purposes of the said contract on its furnishing a guarantee acceptable to UPPCL Ltd.
2. We the Bank having its branch office at (hereinafter referred to as the Bank or the said Bank) a Company under the Companies Act, 1956 and having our registered office at do hereby guarantee the repayment and recovery of the said advance together with interest thereon as provided according to the terms and conditions of the said contract. If the contractor fails to utilize the said advance for the purposes of the said contract and/or the said advance together with interest thereon as aforesaid is not fully recovered by the UPPCL Ltd. we Bank, hereby unconditionally and irrevocably Undertake to pay to the UPPCL Ltd on demand and without demur or protest to the extent of the said sum of Rs..... with interest any claim made the UPPCL Ltd. on us against non-utilisation/mis-utilisation of the said advance and/or reason of the UPPCL Ltd. not being able to recover in full the said sum of Rs..... with interest as aforesaid.
3. We..... Bank further agree that the UPPCL Ltd shall be the sole judge of and as to whether the contractor has utilized or not utilized the said advance or any part thereof for the purpose of the said contract and/or as to whether the advance or any part thereof with interest has been recovered or not and the finding of the UPPCL Ltd in this regard shall be final and binding on us.
4. We, the said 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 contract and till the said advance has been fully recovered and its claims satisfied or discharged and till the UPPCL Ltd certifies that the said advance with interest has been fully recovered from the contractors.
5. The UPPCL Ltd shall have the fullest liberty without affecting in any way the liability of the said Bank under this guarantee or indemnity from time to time to vary any of the terms and conditions of the said Contract or the advance or to extend time of performance by the Contractor or to postpone for any time and from time to time any of the powers exercisable by it against the said Contractor and either to contract or the advance or securities available to the UPPCL Ltd and the said Bank shall not be released from its liability under these presents any exercise by the UPPCL Ltd of the liberty with reference to the matter aforesaid or by reason of time being given to the said Contractor or any forbearance, act or omission on the part of the UPPCL Ltd or any indulgence by the UPPCL Ltd to the said Contractor or of any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of so releasing the said Bank from its said liability.
6. The Bank hereby waives all rights at any time inconsistent with the terms of this Guarantee and the obligations of the Bank in terms hereof shall not be in any way affected or suspended by reason of any dispute or disputes having been raised by the affected or suspended by reason of any dispute or disputes having been raised by the Contractor (whether or not pending before any Arbitrator, Tribunal or Court) or any denial or liability by the Contractor stopping or preventing or purporting to stop or prevent any payment by the Bank to the UPPCL Ltd in terms thereof.
7. The amount stated in any notice of demand addressed by the UPPCL Ltd to the Bank as liable to be paid to the UPPCL Ltd, by the Contractor shall be conclusive evidence of the amount so liable to be paid to the UPPCL Ltd by the Bank.
8. This guarantee/undertaking shall be in addition to any other guarantee or security whatsoever that the UPPCL Ltd may now or any time may have in relation to the Contractor's obligations or liabilities under and/or in connection with the said Contract, and the UPPCL Ltd shall have full authority to have recourse to or enforce this security in preference to any other guarantee or security which the UPPCL Ltd may have or obtain and no forbearance on the part of the UPPCL Ltd in enforcing or requiring enforcement of any other security shall have the effect to releasing the Bank from its full liability hereunder.
9. It shall not necessary for the UPPCL Ltd to proceed against the said Contractor before proceeding against the Bank and the guarantee herein contained shall be enforceable against the Bank notwithstanding that any security which the UPPCL Ltd may have obtain from the Contractor shall at the time when proceedings are taken against the said Bank hereunder be outstanding or unrealized.

10. We the said Bank undertake that we shall pay forthwith the amount stated in the notice or demand notwithstanding any dispute/difference pending between the parties before the arbitrator and/or that any dispute is being referred to arbitration.
11. We, the said Bank undertake not to revoke this guarantee during its currency except with the consent of the UPPCL Ltd in writing and agree that any change in the Constitution of the said Contractor or the said Bank shall not discharge our liability hereunder.
12. This guarantee/undertaking shall be a continuing guarantee/undertaking and shall remain valid and irrevocable for all claims of the UPPCL Ltd and liabilities of the Contractor arising upto and until midnight of
13. Notwithstanding anything contained herein above, our liability under this guarantee shall be restricted to Rs..... along with interest due thereon (Rs.....) with interest and this guarantee shall remain in full force till And unless a claim is made on us within 3 months from the date i.e. before all the claims under this guarantee shall be forfeited and we shall be relieved of and discharged from our liabilities hereunder.

Dated Day of2022

For and on behalf of Bank.

Issued under seal

U.P. PROJECTS CORPORATION LTD.

INDENTURE FOR SECURED ADVANCES

(On Rs. 100 stamp paper)

(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 of2022

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 UPPCL LTD (hereinafter called the Corporation 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 Corporation 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 Corporation 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 onand the Corporation 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 Rupeeson or before the execution of these presents paid to the Contractor by the Corporation (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 Corporation and declare as follows: -

- (1) That the said sum of Rupeesso advanced by the Corporation 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 Corporation 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 Corporation against all claims to any materials in respect of which an advance has been made to him as aforesaid.
- (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 Project Manager Unit (hereinafter called the Project Manager) 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 Project Manager or any officer authorized 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 Project Manager.
- (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 Project Manager or an officer authorized by him on that behalf.
- (6) That the advances shall be repayable in full when or before the Contractor receives payment from the Corporation 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 Corporation will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials 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 amounts 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 Corporation shall immediately on the happening of such default be repayable by the Contractor to the Corporation 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 Corporation in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the Corporation 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 Corporation of the said sum of Rupeesand 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 Corporation may at any time thereafter adopt all or any of the following courses as he may deem best :-

(a) Seize 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 Corporation 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 Corporation 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 referred to the Superintending EngineerZone whose decision shall be final and the provision of the Indian Arbitration Act for the time being in force shall apply to any such reference.

In witness whereof the saidandby the order and under the direction of the Corporation 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 Corporation

in the presence of

Signature

Witness

Name

Address

U.P. PROJECTS CORPORATION LTD.

APPLICATION FOR EXTENSION OF TIME

(To be completed by the Contractor)

PART -I

1. **Name of Contractor**
2. **Name of Work as given in the Agreement**
3. **Agreement No.**
4. **Estimated amount put to tender**
5. **Date of commencement of work as per agreement**
6. **Period allowed for completion of work as per agreement**
7. **Stipulated date of completion of work as per agreement**
8. **Time extension previously approved (if any)**

Extension Granted

Months

Days

- a) First extension vide General Manager
letter no. _____ Dated _____
- b) Second extension vide General Manager
letter no. _____ Dated _____
- c) Third extension vide General Manager
letter no. _____ Dated _____
- d) Fourth extension vide General Manager
letter no. _____ Dated _____
9. Reasons for which extension have been previously given (copies of the previous application should be attached)
10. Period for which extension is 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.
 - a) Serial No.
 - b) Nature of hindrance
 - c) Date of Occurrence
 - d) Period for which it is likely to last
 - e) Period for which extension required for this particular hindrance.
 - f) Over lapping period, if any, with reference to item.
 - g) Net extension applied for
 - h) Remarks, if any

Total period for which extension is now applied for on account of hindrances mentioned above.....
Month/ days.

SIGNATURE OF CONTRACTOR

12. Extension of time required for extra work.

13. Details of extra work and on the amount involved:

- a) Total value of extra work
 - b) Proportionate period of extension of time based on estimated amount put to tender on account of extra work.
14. Total extension of time required for 12 & 13 Submitted to the Engineer-in-Charges office.

Date

SIGNATURE OF CONTRACTOR

APPLICATION FOR EXTENSION OF TIME

(PART - II)

1. Date of receipt of application from Contractor for the work in the Engineer-in-charge office.
2. Acknowledgement issued by Engineer-in-charge vide his letter No. _____ dated _____
3. Engineer-in-charge remarks regarding hindrances mentioned by the Contractor.
 - 2) Serial No.
 - 3) Nature of Hindrance
 - 4) Date of occurrence of hindrance
 - 5) Period for which hindrance, is likely to last
 - 6) Extension of time period applied for by the contractor
 - 7) Overlapping period, of any, giving reference to items which overlap
 - 8) Net period for which extension is recommended.
 - 9) Remarks as to why the hindrance occurred and justification for extension recommended.
4. Engineer-in-charge recommendations.

The present progress of the work should be stated and whether the work is likely to be completed by the date up to which extension has been applied for. If extension of time is not recommended, what compensation is proposed to be levied under the agreement?

SIGNATURE OF ENGINEER-IN-CHARGE

APPROVAL OF GENERAL MANAGER

FOR EXTENSION OF TIME
Part III

To
Name
Address of the Contractor

Sob:

Dear Sir(s)

With reference to your letter no. _____ dated _____, in connection with the grant of extension of time for completion of the work

The date of completion for the above mentioned work, is as stipulated in the agreement, dated

Extension of time for completion of the above mentioned work is granted upto _____, without prejudice to the right of the UPPCL to recover compensation for delay in accordance with the provision made in Clause of the said agreement dated the ____/____/____. It is also clearly understood that the UPPCL shall not consider any revision in contract price or any other compensation whatsoever due to grant of this extension.

Provided that notwithstanding the extension hereby granted, time is and shall still continue to be the essence of the said agreement.

Yours faithfully,

FOR UPPCL.

CERTIFICATE OF HANDING OVER OF BUILDING

(To be prepared in quadruplicate)

1. Name of the building with short description such as RCC/CGI Roof, number of toilets, bathrooms etc.

i)

ii)

iii)

iv)

2. Plinth area of each building

i)

ii)

iii)

iv)

3. Details of electrical fittings i.e. Main Switches, Nos. of fans, tubes & lights pendants etc. in each building. (the make & type, size of fan, tubes etc. shall also be given with guarantee cards, if any, duly signed by the C.A.) & line diagram of concealed wiring.

4. Details of water supply fittings such as taps, washbasins, closets etc. in each building.

5. A line diagram of the layout of the water supply system, showing the position of sluice valve/Fire Hydrants and the type and size of pipes laid shall be given.

6. A line diagram of the sewerage system showing the material, size, invert levels etc. of sewer lines, manholes, septic tanks and the capacity and frequency of cleaning of septic tanks shall be given.

7. Details of guarantee/warranty certificates of various equipments/machinery used.

8. As built drawings of work.

Additional sheets may be used for furnishing detailed information.

Mile stones of the Contract

| Sl. No | Description of mile stone | Period for completion from date of start in months | Withheld amount for non achievement of mile stone. |
|--------|---|--|--|
| 1 | i) Completion of FOUNDATION and grade beams. ii) Completion of RCC framed structure up to floor iii) Submission of electrical services drawing by the contractor and approval by Engineer-in-Charge. Total work done not less than ` lacs. | months | 1% of the accepted tendered value. |
| 2 | Completion of RCC framed structure up to floor twolevel, brick work upto ground floor level & electric sub-station building completed. All connected electrical conduit laid. Shop drawings of Structural steel work for approval of Consultant/Architect Total work done not less than `lacs. | months | 1% of the accepted tendered value. |
| 3 | RCC structure complete except track & seating, brick work up to floor two level, , plastering, flooring up to floor two level (below seating & also excluding central area), all connected electrical conduit switch boxes. Total work done not less than ` lacs | months | 0.5% of the accepted tendered value. |
| 4 | RCC structure complete except track & seating Brick work complete in all floors, plastering complete, internal electrical installation conduits switch boxes complete, part roof truss Total work done not less than `lacs. | months | 0.5% of the accepted tendered value. |
| 5 | External development including roads, drains, Overhead tank, recharge wells etc, Roofing,external lighting system complete. Total work done not less than ` lacs | months | 0.5% of the accepted tendered value. |
| 6 | All internal floorings, Aluminum work, all other finishing, Track Interior work including fixing of chairs etc. Total work done not less than ` lacs | Months | 0.5% of the accepted tendered value. |
| 7 | Complete work (Civil + Electrical) | Months | 0.5% of the accepted tendered value. |

ADDITIONAL SPECIFICATION FOR INTERNAL ELECTRICAL WORKS.

1- The work shall be carried out strictly in accordance with specifications for Electrical Works 2013 and in accordance with Indian Electricity Rules, 1956, Indian Electricity Act, 2003 as amended up to date and as per instructions of the Engineer-in-Charge including as below and nothing will be paid extra.

(a) All material shall be got approved from Engineer-in-Charge before use. One sample flat/Bay shall be made for approval of final location of switch boards/ fittings etc. and then only work shall be executed in other flats/bays.

All damages done to the building during execution of Electrical work shall be the responsibility of the contractor and the same will be made good immediately at his own cost to the satisfaction of the Engineer-in-Charge. Any expenditure incurred by the department in this condition shall be recovered from the contractor and decision of the Engineer-in-Charge about recovery shall be final.

(b) All hardware items such as screws, thimbles, G.I. wires etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned. All hardware materials such as nuts/bolts/screws/ washers etc. to be used in the work shall be zinc/cadmium plated iron.

(c) **CONDUIT LAYOUT** shall be prepared by contractor and got approved before execution of work. In case contractor does not do so before start of work, recovery @ 2(two)% of tendered amount of IEI shall be made from the bill. Minimum No. of Junctions to be kept, & if required junctions to be kept underneath the fitting locations in corridor/rooms so that junctions are not visible after fittings are fixed/in position. Drop of conduit shall be well planned w.r.t. location of fitting/D.B. and crisscrossing to be avoided. All chases in walls shall be cut using electrical chisels/cutters. For this purpose electricity shall be arranged by contractor. In case contractor fails to do chase cutting by electrical chisels/cutters and resorts to manual methods, a recovery of Rs.50/- per point shall be made from contractor's bill.

Whenever point wiring items is executed in casing capping system PVC box of make approved by UPPCL shall be provided in place of MS box.

In case cable in the lift shaft is also to be fixed, contractor shall have to liaison with CIVIL/Lift agency to make use of the scaffolding provided by them.

(d) Any conduit which is not to be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.

Copper wire upto 4 sqmm. may be single stranded or multi stranded whereas wires above 4 sqmm. Shall be multi-stranded conductor. Termination of multi-stranded conductors shall be done using crimping type thimbles at both the ends. Nothing extra shall be paid for the same.

(e) All metal boxes to be applied primer and painted, then only should be installed else recovery @Rs.20/- per point should be made from contractor's bill. Boxes shall have socket arrangement for tightening screws, instead of simple holes in M.S. sheet. Boxes shall be again painted at the time of wiring.

(f) For Sub main Wiring, Colour Code for different phases and Neutral (R.Y.B. black) to be maintained. While circuit wiring, wiring for fan point, wiring for light point shall be done with different colours for easy identification. Wiring for neutral shall be done with black colour and all connections to fans & fittings wherever visible shall be made with white PVC insulated copper wire or wherever cover sleeve may be provided. At Switch board, Switch shall be fixed in a logical manner w.r.t. fittings layout.

(g) Unless specifically approved by Project Manager _____, loose wire box, above DB shall not be provided however DB's shall have loose wire box of same make.

All connections to MCB's shall be made using thimble/lugs.

All DB's i/c incoming & outgoing MCB's shall be suitably numbered with PAINT for location/circuits. DB shall be fixed in recess suitably (30 mm. approx. projected from unplastered wall) to ease opening of door. Top of DB to match with door frame height as per site conditions.

(h) Phenolic laminated sheet shall be of Egg white colour, and shall be filed/rounded at edges and of minimum 3mm thick.

(i) All fittings and fans should be properly earthed through the protective conductor.

Provision of earth bars in main boards, earth terminal block in DB's & earth studs in all metal boxes shall be made, connection to this stud shall be crimped.

A clamp type termination should be made in the termination of earth strips (where provided) to pipe electrodes to provide surface type contact.

- (j) The earthing shall be carried out in the presence of the Engineer-in-charge or his authorized representative.
 - (k) The size at switch box for providing Modular Plate type Switch/Sockets shall be properly settled to take care of all necessary switches/screws/fan regulators. Blanking plate if required shall also be provided at no extra cost.
 - (l) For point wiring in steel conduit all piano type switch or all modular type switches/sockets/telephone outlets/T.V. outlets shall be of make approved by UPPCL.
 - (m) Whenever supply items like fans & fittings etc. are also included in the Schedule of work, such items shall be executed only after completion of at least 75% of the wiring items.
 - (n) The contractor shall make his own arrangement at his own cost for electrical/ general tools and plants required for the work.
- 2- The work shall be carried out according to approved drawings/details which shall be subsequently issued to the successful tenderer for execution of work and as per instructions of the Engineer-in-Charge who will have the right to change the layout as per requirement at site and the contractor shall not have any claim due to change in layout.
- The work shall be carried out in engineering like manner. The bad workmanship will not be accepted and defects shall be rectified at contractor's cost to the satisfaction of the Engineer-in-Charge. The programme of electrical works are to be co-ordinated in accordance with the building work and no claim for idle labour will be stipulated in the tender, electrical work shall have to be completed along with completion of civil work.
- All the debris of the electrical works should be removed and the site should be cleared by the contractor immediately after the accruing of debris. Similarly any rejected material should be immediately cleared off from the site by the contractor.
- Watch and ward of the material/equipment shall be the responsibility of the contractor till handing over of installation to the department.
- The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.
- 3- The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over to the department. However if there is any delay in construction from the department side, the installation may be taken over in parts, but the decision on the same shall rest with Engineer-in-Charge which shall be a binding on the contractor.
- Some of the items of work, if already executed: on that case the successful tenderer shall have to use these items for completing the work. For wiring, the existing conduit wherever required shall be used by the contractor. The recovery will be made for these items as accepted rate of similar items.
- 4- Prices: The prices quoted by the firm shall be inclusive of all taxes and duties. No concessional/exemption certificate will be issued. No Central/State Sales Tax/Contract Tax/Excise Duty etc. shall be separately paid by the department.
- No Form-D, 31/32 (Road Permit) shall be issued by the department. The road permit shall be arranged by the tenderer on his own. Deduction of Income Tax & Contract Tax at source shall be made while releasing payment through running/final bills as applicable. A certificate specifying the rate and amount of deduction shall however be issued.
- 5- The secured advance as applicable shall be allowed.
- 6- Test Certificate Test certificate for the work carried out shall also be submitted failing which recovery @1% tendered amount & maximum of Rs.1500/- shall be made from final bill.
- 7- Panels: Drawing of panel shall be submitted for approval within 30 days from award of work and fabrication to be taken up only after approval of such drawing. Before painting proper surface treatment shall be done and then powder coated. These shall be offered for inspection during fabrication.
- 8- Quantities indicated in Schedule of work are only tentative, contractor shall consult AE-in-Charge before procurement. Payment shall be made only for the quantities actually executed and measured.
- 9- Time Period: Contractor has to plan his activities, so that electrical work is to be carried out in close co-ordination with CIVIL work and in no case CIVIL work be delayed because of delay in electrical work and the work has to be completed accordingly.
- 10- The makes for items shall be as per list attached.
- 11- Material to be used in the work shall be ISI marked as applicable. The material in required quantity to be used in the work shall be got approved from the Engineer-in-charge before its use at site. The Engineer-in-charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.

- 12- Contractor shall preserve the copies of invoices, test certificates; gate passes etc. to prove the genuineness of material/purchases. The responsibility of procurement, genuine material of specialized works shall rest with the contractor.
- 13- Contractor is advised to visit site before quoting rates for determining site conditions. No claim or argument shall be entertained in this regard at later stage.

U.P. PROJECTS CORPORATION LTD.

LIST OF PREFERRED MAKES FOR CIVIL WORKS

| | Material Description | Approved Manufacturer / Brand Name |
|-----|--|--|
| 1. | TMT bars – Fe 500d | TATA Steel / Iron Co. Ltd. SAIL, TISCO,VIZAG, JINDAL, Steel Authority of India Ltd. RINL, Indian Iron & Steel Co.Ltd., ISPAT Industries & Ltd. LLOYDS Steel Ltd. RASHITRYA ISPAT LTD.GALLENT ISPAT LTD.or approved by UPPCL. |
| 2. | MS Hollow Tubular / Box sections | SAIL, Tata, Jindal, Essar Steel |
| 3. | Cement (PPC) | A.C.C., Ultratech, Shree, India Cement, Penna Cement, Orient, Parashakti Sagar, Maihar, Prism, Birla, Ambuja, Jaypee Cement Rewa, Bunge, Binani,JSW, Manikgarh, Konark cement, or equivalent. |
| 4. | Ceramic/glazed Tiles | Kajaria, Johnson, Somany, NITCO, AGL, Orient Simpelo, Asian, Vermora, RAK Cermic, of approved design, color and shade/ or equivalent |
| 5. | White Cement | Birla White, J.K White or equivalent |
| 6. | Primers, paints (Low VOC) (i/c water proofing cement paint) etc. | Nerolac, Asian, Berger, ICI,Snowcem Plus, Asian, Berger, Nitcocem, Sanotex, Pentuco, Nitcotex. |
| 7. | Wall Putty | Birla White, JK, Ferrous, Berger, Pavikreteor equivalent |
| 8. | Wash Basin and WC PAN | Parryware, Hindware, Jaquar, Cera, Jhonson, Pedder, Neycer, |
| 9. | Float Glass/ Clear Glass, IS 14900:2000 | Atul, Modi Guard, Saint Gobain, AIS or equivalent. |
| 10. | G.I. pipes and accessories | Tata, Jindal, Surya, QST, GST, Hissar, SAIL, SWASTIK. |
| 11. | Centrifugally Cast-iron Spun Pipes & fittings | NECO (red) or equivalent ISI marked product, firm having valid BIS license. |
| 12. | D.I Pipes & fittings | Tata Kesoram, Electro steel, Jindal, Saw (Hisar, Prakash), Unique, |
| 13. | Brass / CP Brass fittings | Jaquar, ARK, Kohleror equivalent |
| 14. | Aluminum sections (Anodizing by approved anodizing firm) | Hindalco, Jindal, Balco,(Vedanta) Indian Aluminium Co. Boruka, Mahavir. |
| 15. | Water Proofing Compounds/Admixtures IS: 2645:2003, IS: 9103:1999 | Pidilite, Sika Qualcrete, Impermo, Mee, Duraseal, Acco-Proof, CICO, Degussa, Don, Fosroc, Penetron MC Bauchemie, Chocksey, Fairmate, Sunanda Chemicals.Weber, Fosroc, Pidilite, Cico&Penetron |
| 16. | Stainless steel sink | AMC, Neelkanth, Kingston, Nirali, RAKSHA FLO |
| 17. | PVC tanks | Sintex, Electroplast, Star, Uniplast, Lotus, Sheetal,RAKSHA,or as approved by Engineer-in-Charge, |
| 18. | Mirrors | Saint Gobain& Modi Guard, HNG, Cera, Atul or as approved by Engineer-in-Charge. |
| 19. | C.P. Waste&flush pipes fittings | KOHLAR, ROCA, JAQUAR, GROHE, MARC, TOTO or equivalent as approved by Engineer-in-Charge. |
| 20. | PVC flushing cistern. | Parryware, Hindware, Jaquar, Cera, RAKSHA FLO |
| 21. | Tile Fixer / Adhesive | Bal Endura, Keracol or equivalent |
| 22. | Vitreous Floor Tiles | Johnson, Kajaria, & Asian or equivalent |
| 23. | (RMC) Ready Mix Concrete | ACC, Ultratech, AFCON, L&T, RMC INDIA, Techno concrete, NDCON, Shri ram, NS ASCUS As approved by Engineer-in-Charge. |
| 24. | Textured/Acrylic Exterior Paint | Asian Paint– Apex Ultima, Burger-Weather Coat, ICI Dulex – Weather Shield Max, Nerolac- Excel Total |
| 25. | Roofing-A.C.Sheet, G.I. Sheet (IS277:2003), Alloy Sheets | UPAL, CHARMINAR, A.C.C, TATA Shakti, Trishul, Jindal, Bhushan, Kalzip, Bemo, Sanko, Kingspan-Rigidal |

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| 26. | Flush Door/Particle Boards/Laminated Boards IS12823:1990 Grade-I Type-II, IS 1659 :2004, IS 2202 (Part1): 1999 | Novapan, Ecoboard, Bhutan Board Duro, National, Euro, 0Kitply, Kitlam, Sarda Ply, Green Ply, Eco Merino, Bison Panels, Century, Archid, Nothem Plywood. |
| 27. | PVC Door Shutters & Frames | Sintex or Plasopan, M/s Raj Shri or equivalent |
| 28. | Laminates/HPL | Greenlam, AlCA Sunmica, Decolam, Merion, Century, Durain, Archid, |
| 29. | Crystalline Water proofing Admixtures | Penetron, Xypex or equivalent |
| 30. | Polymer Waterproofing | Kerkoll, BASF, MC, As approved by Engineer-in-Charge. |
| 31. | Ant termite Chemicals | M/s BASF Constrution Chemical Pvt.Ltd. Pidicrete URP of M/s Pitilite Industries Ltd. (Dr. Fixit). Premise (Byer), Chlorpyriphos. |
| 32. | Chemical/Mechanical Anchor Fasteners | HILTI, FISCHER. Canon. As approved by Engineer-in- Charge. |
| 33. | Dry/ Liquid Distemper | ICI, Nerolac, Berger, Johnson & Nicholson, Asian Paints, Shalimar Paint. |
| 34. | Epoxy Paint | Nerolac, ICI Dulux, Asian, Berger |
| 35. | Hydraulic Door Closer | Godrej Hardwyn (Eddy)/Hitech/Sandhu. For 'A' Class Buildings- Besides above Ozone. Dorma.Hardwyn, Hafele, Dorset, |
| 36. | Mortice Latch | Godrej, Harrison, PLAZA, GOLDEN, YALE |
| 37. | Floor Springs, IS 6315:1992 | Hardwyn /Hitech/Sandhu/Godrej |
| 38. | Reflective Glass for Structural Glazing/Windows | Asahi India, Saint Gobain, Modi Float. Glaverbel. Vista/ Mac/Vesta |
| 39. | Drapery Rod | Vista/ Mac/Vesta |
| 40. | Ceramic Glazed Tiles vitrified Tiles IS 13712:1993/ IS:15622: 2006 | Premium Quality Nalco, Somany, Kajaria, Simpelo, Evermore, Johnson, Orient/Bell, RAK, Asian of approved design, colour and shade to be used in consultation with Client |
| 41. | Epoxy Grout for Tile (Tile Adhesive) | Cico, Bell, Pidilite, BASF, SIKa, Bal Endura/Karakul/ Laticrete or equivalent |
| 42. | Aluminum Section | Indal / Bhoruka / Hindalco / Jindal |
| 43. | Synthetic Enamel Paints | Berger (Luxol gold), Asian (Apcolite) ICI Dulux (Gloss), Nerolac (Full gloss hard drying) |
| 44. | Oil Bound Distemper | Asin (Tractor), Berger (Bison), Nerolac (Super Acrylic). |
| 45. | Cement Paint & Primer | Snowcem Plus, Berger (Durocem Extra), Nerolac Paint, Asian Paint Ltd. |
| 46. | Chequered Tiles | Modern, Nitco, GEM, Hindustan |
| 47. | Polysulphide sealant. | Pidilite, Fosroc, Asian Paints, Vamiseal. |
| 48. | Exterior / Interior Paints | Berger, Asian, ICI Dulux, Nerolac |
| 49. | Sanitary Fittings | Parryware, Hindware, SEABIRD, ORIENT, JAQUAR, SOMANY, CERA, Hindustan Sanitary Ware, Grohe. |
| 50. | Calcium Silicate Tiles/ Boards | Ramco, Aerolite, Everest |

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| 51. | Plywood/ Commercial Block Board | Duro, Century, Merino, Green Ply, ARCHID ply. |
| 52. | Terrazo tiles (precast) | NITCO, GEM, MODERN, HINDUSTAN, Swastik (Alwar) |
| 53. | Kerb block/Paving Tiles/ Paver Block/ Grass Pavers | Nitco Prefab, Dalal, KK, Swastik (Alwar) |
| 54. | Stoneware | Perfect, Burn, Parry |
| 55. | C.I. Manholes | R.I.F, NECO, RPMF |
| 56. | RCC Pipes (NP2) | K.K, Jain & Co. Laxmi |
| 57. | P.T.M.T Fittings | PRAYAG, PEARL, RAKSHA FLO |
| 58. | Beveled edge mirror with PVC | Atul, Modi Guard, saint Gobin |
| 59. | Brass Fittings | Kingston, Mare, Jaquqr, or equivalent |
| 60. | Automatic flushing Cistern | Utech, Toshi or equivalent |
| 61. | Flush valves | Jaquar, Zoloto or equivalent |
| 62. | Centrifugal cast iron pipes/ Hubbles and its accessories / fittings | NECO, RIF, HIF, HEPCO, SKF, RPMF, SRIF |
| 63. | Admixture for concrete | Coco, Sika, Pidilite, Fosroc |
| 64. | C.I. Flanged Valves | Kirloskar, IVC, Zoloto, Leader |
| 65. | Compact Laminate | Merino, Armstrong, green |
| 66. | Flush Door Shutters | Century, Duro, Merino, Durian |
| 67. | uPVC Window/ Door | Fenesta, Rehau, Aluplast, Prizma, Duroplast, Wintech, Kommerling, Aparna Profiles Pvt. Ltd., Green Fenestration Technologies, PSP |
| 68. | Acoustics Paneling | Armstrong, Anutone, Hunter Douglas |
| 69. | Dash Fastners/ Anchoring | Hilti, Fischer, Excel, Canon |
| 70. | Damp Proof material | Impermo by M/S SNOWCEM, DURA-1, ACC-PROOF, AT-CRETE LATEX |
| 71. | Structural Steel Sections | SAIL, RINL, TISCO, JINDAL |
| 72. | ACP | Alstone, Alcubond, Alex, Alutech, Alstrong, RaynoBond, Alcupla |
| 73. | Profile sheet using base material of Primary producer | Tata bule scope, PunjLloyed, Interarch, Super Disco |
| 74. | False ceiling | Armstrong, Interarch, Hunter Dulglas, USG BORAL HI-STEEL |
| 75. | Puff Panel | Lloyed, ZEP, E-Pack |
| 76. | POP | Sakarni, Shriram, J.K., Birla |
| 77. | Gypsum Board | Saint Gobin, India Gypsum, USG Boral |
| 78. | HDPE Pipe | Oriplast, Jain Irrigation, Duraline, RAKSHA |
| 79. | CPVC Pipe fitting & Solvent | Supreme, Astral, Ashirwad, Prince, Prakash, RAKSHA |
| i | Pipe & fitting: PVC for SWR soil waste & vent pipes & fitting Type B PVC casing & Screen pipes | RAKSHA, ASHRIVAD, FINOLEX, SUPREME |
| ii | UPVC-Pipes & fittings | RAKSHA, ASHRIVAD, FINOLEX, |
| 80. | S.S. Fittings for Doors/ Windows | Ozone, Hardwin, Harison, Prayag, Jolly, Dorset |
| 81. | S.S. Sections | appolo IS403, Jindal or equivalent |
| 82. | Deck Sheet using base material of Primary producer | Tata blue scope, Kirby, Interarch, Super Disco |
| 83. | Glass mosaic tiles | Bissazza glass mosaic, Palledio glass mosaic, Glass stonemosaic. |
| 84. | Glass mosaic adhesive & grout | Dubond, balendura, Laticrete |
| 85. | Fiber cement board | Everest, Visaka or equivalent |
| 86. | Tile adhesive | Unitile, Bal Andura, Fairmate, Basf, Somany, Pidilite, Cico, Pavikeret, Ferrous |
| 87. | Bitumen | Indian Oil, Hindustan Petroleum |
| 88. | Polyester Powder Coating shads | Nerolac, Berger, J&N |
| 89. | Friction Stay Hinges | Earl-Bihari, ebco |
| 90. | M.S. Pipe | Jindal, appolo, Swastic or equivalent |

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| 91. | CP/ SS Accessories | CARDIN, CHILLY, JQUAR |
| 92. | Gun Metal Gate Valve | Leader, sant, Zoloto |
| 93. | Wire Mess (wire from TATA, JINDAL, BANSAL) | Sterling, Trimurti mesh, RK trading |
| 94. | Rust Remover | MBT rust clean of M/s BASF construction chemical Pvt. Ltd., Sikka Rust of 100 of Sikka India Orivate Limited, Rust remover of M/s Pidilite Industries Ltd. (DR.Fixit), and Rust removal of Fosroc. |
| 95. | Anticorrosive Treatment to reinforcement | Sikka top armatec 108 of M/s Sikka India Private Ltd. Master emaco P-130 of M/s BASF Construction Chemical Pvt. Ltd., Anti Corrosive of M/s Pidilite Industries Ltd. (Dr. Fixit) |
| 96. | Concrete Penetrating Corrosion Inhibitor | Sikka Ferogard 603 of M/s Sikka India Private Ltd. Protectosil CIT of M/sBASF Construction Chemical Pvt. Ltd. Corrosion Inhibitor of M/s Pitilite Industries Ltd. (Dr. Fixit) |
| 97. | SBR Latex/ Latex Bonding Agent (as per ASTM-C-1059-86-Type I) | Master Emaco-141 of M/s BASF Construction Chemical Pvt.Ltd. Pidicrete URP of M/s Pitilite Industries Ltd. (Dr. Fixit). Sikka latex pawner of M/s Sikka India India Private Ltd. |
| 98. | SBR Latex/ Latex Bonding Agent for Polymer Modified Mortar Conforming to AsTM-c-105-86-Type-I | Master Emaco-S-348 of M/s BASF Construction Chemical Pvt.Ltd. Pidicrete URP of M/s Pitilite Industries Ltd. (Dr. Fixit). Sikka top-122 HS of M/s Sikka India India Private Ltd. |
| 99. | Furniture | Godrej, Feather light, BP ERGO, Wipro or equivalent |
| Note:-For items not listed here make approved by Engineer-in –Charge shall be final and binding to contractor. | | |

| List of preferred Makes for Internal Electrical Installations | | |
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| (1) | PVC insulated copper wires i/c Control cables, TV/ Telephone Cable | KEI/Universal/Nicco/R.R.Kabel/Finolex/L&T/Havells/Paramount/Skytone/Sicfo/polycab/ Rallison/SIECO. |
| (2) | XLPE insulated PVC sheathed Al. Cable upto 1.1 KV grade. | Havells/Finolex/L&T/Universal/Rallison/RR Kabel Nicco/KEI/Grandlay/Gloster/Bonton/Diamond Havells/Paramount/Polycab. |
| (3) | PVC conduit including its accessories. | Precision/Asian/Diamond/Modi/AKG/Sieco/CAP/RMR. |
| (4) | MS Conduit & Accessories | BEC/ AKG/NIC/Steel Kraft /M-Kay/PROMISE |
| (5) | MCCB, Timer, SFU, FSU,HRC Fuses, Cable Management System/DLP Trunking. | Siemens/L&T/Schneider/MDS-Legrand/ ABB/C&S/Bhartiya Cutler Hammer,INDOASIAN.. |
| (6) | Piano Switches/ Sockets/ T.V./Telephone Outlet | Anchor/Rider/Leader / Havells/L&T/LEGRAND,INDOASIAN.. |
| (7) | Modular type Switches/ Sockets T.V./Telephone Outlet/ Call bell/Buzzer | Legrand/Siemens/L&T/ ABB/Moeler/ M.K./ Havells/Philips/anchor,INDOASIAN.. |
| (8) | Ammeter/Voltmeter | AE/IMP/Rishabh/HPL. (Only Digital type to be used) |
| (9) | Selector Switch | Kayee/Siemens/Bhartiya Cutler Hammer/L. & T. |
| (10) | Change over Switch | HPL/H-Elcon.Standard/L. & T. / Siemens. |
| (11) | Indicating Lamps | Teknic/Siemens/L & T./Vaishnov. |
| (12) | Panel Board/Feeder Pillar/Meter Board | CPRI approved manufactures for PANELS (tested in last three years of current rating required or higher) and having ISO9001 Certification, INDOASIAN.. |
| (13) | Rising Main | L & T/MDS-Legrand/C&S/ Schneider/GE. |
| (14) | Energy Meter/ Multifunctional/Intelligent Energy Meter. | Siemens/HPL/L&T/Hensel/Anchor/Havells. |
| (15) | G.I.Pipe (ISI MARKED) | Jindal, Hissar/TATA/SAIL/TT Swastik. |
| (16) | Fluorescent/CFL/LED/Flood Light/Street Light fittings. | Philips/Crompton/Bajaj/Wipro/SYSKA/TRILUX |
| (17) | Lamps. | GE/Osram/Philips/Crompton/Bajaj/Wipro |
| (18) | Wall Brackets | DECON/ Philips/GE/Havells/Lustre. |
| (19) | Angle Holder/Batten Holder | ISI marked Kinjal/Emperor/Anchor. |
| (20) | GEYESER | Racold/Bajaj/Crompton/jaguar. |
| (21) | Internet Cable | D-Link/Avaya/Lucent/Finolex/HCL. |
| (23) | MCB & MCB DB. | L&T/Schneider/MDS-Legrand/ ABB/C&S/Hager/Havells, INDOASIAN. |
| (24) | Angle Holder/Batten Holder | ISI Marked Kinjal/Emperor/Anchor |
| (25) | Pumps, IS 9542-1980 | ----- |
| (a) | Centrifugal Pumps | Klroskar/Beacon/KSB/Khimline/Strok |
| (b) | Submersible Pumps IS 8034-1989 | Modi Industries/KSB/Pullen/ABS/AQUA/BS /MBH/Hindustan. Groundfos. |
| (26) | Copper conductor Flat Submersible Cable,Is 694:1990/IEC 60227-1 to 5 (1979) | Finolex/Havells/Universal/Polycab/Skytone |
| (27) | Ceiling Fan/Exhaust Fan | Crompton, Orient, Polar, Khaitan, Bajaj, GEC, Ortem, Usha, Havells. |
| Electrical Equipment | | |
| 1 | Power Transformer | Bharat Bijlee Ltd. /Crompton Greaves/ Kirloskar/ Voltas/ NGEF/ABB/ ALSTOM/Raksan. |
| 2 | 11KV Panels | ABB/ Jyoti/ NGEF/ Siemens/ Crompton Greaves/ BHEL/ SCHNEIDER/ ALSTOM. |

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| 3 | 415 Panels/MCB/MCCB | L&T/ Siemens/ Bharti/Culter Hammer/ GE/ ABB/ SCHEIDER/ LEORAND |
| 4 | Instruments & Controls | Universal/ Automatic Electric Ltd./ Meco Instruments/ SHCAN |
| 5 | Air Circuit Breaker | Larsan& Turbo/ Siemens/ GE/ SCHNEIDER/ ABB,INDOASIAN. |
| 6 | Starters | BHEL/ PerlmalEngg./ Enterprising Engg./ Pan Asia/ Selmens,L&T, Schnelder(CG), GE |
| 7 | Bus Duct | Best &CromptonEngg. Ltd/ Power Gear P. Ltd./ LEORAND |
| 8 | Switch & Fuses | L & T/ Siemens/ GE/ ALSTOM/ C&S,INDOASIAN.. |
| 9 | Metal Clad Socket and Plug having Scrapping earth arrangment | Hager, Schneider (CG), L&T, Gerard, Legrand |
| 10 | MS Boxes | Should be Galvanized |
| 11 | Bakelite Sheet | HVLEM, Formica |
| 12 | Fire Extinguishers IS15683:2006 | Ceasefire/Deflame I Bharat /Newage / Fire Shield/ Steelage Industries/ KooverjiDeyshi/ Fire Stop/ ETCO/ HFE Guard/ Agni/ National/ Vijaya Fire Protection Systems / |
| 13 | Heat/Smoke Detector/Fire Alarm Panel/Manual Call Point & Speakers | System Sensor /Morley-IAS/ Edwards /Notifier/Honeywell/ Agni/National. |
| 14 | D.G. Sets Engine- IS 10001 Alternator- IS13_364 (part-1) | Kirloskar green/ Greaves Cotton Ltd./ Crompton Greaves/ Ashok Leyland/ Caterpillar/ Cummins/ Volvo/ Penta/ Mahindra/TIL/Eicher |
| 15 | 1100 Grade PVC/ XLPE Insulated Steel armoured and over all PVC sheathed IS694: 1990/IEC 60227-1to 5(1979) | NICCO, Havells, Finolex, Kei,Universal, Rallison, CCI Polycab, SBEE, Gloster, Havells, National |
| 16 | Cable Glands | Comic, Raychem |
| 17 | Cable tray | Pilco, MEK |
| | Note:-For items not listed here make approved by Engineer-in –Charge shall be final and binding to contractor. | |

(Updated on 06.10.2023)
(Comprehensive List)

LIST OF APPROVED MAKES FOR CIVIL WORKS

Unless otherwise specified, the brand / make of the material as specified in the particular specifications and in the list of acceptable makes attached in the tender, shall be used in the work.
In case of any difficulty regarding availability of, procurement or otherwise of approved brands specified in the contract, the contractor can be allowed to use alternate equivalent brand of the material subject to written approval of the UPPWD.

Sample of all the materials will be used only after approval of the UPPWD.
(*Any discrepancy may please be intimated to the undersigned on priority.)

| S.No | Details of equipment/ material | Make/Manufacturer |
|-----------------------|---|--|
| A. CIVIL WORKS | | |
| 1 | Acoustical Panelling | ECOTONE/Armstrong/Anutone/Credence/Prolad/Bollard/Dexune |
| 2 | Adhesive Tile | Pidilite/ Ferrous Crete/ Gold Star/ Latierete/ MC Bauchemie/ MAPEI/Berger/Bulwark/Asian Paints/Akemi/CA/Aic/Fibrex/Homesure (Wallplast)/Ultratech/Aquatech/CICO/ United Mortar/Reyno/DRS Chem/Don Building Chemicals/Tylax/Hygic Profile/Unierete |
| 3 | Adhesive for Wood Work | Fevicol/Vamicol/Dunlop/Pidilite/Asian Paints |
| 4 | Aluminium Accessories and Hardware | Classic/ Crown /EBCO /Earl Bihari/Dorset/Global |
| 5 | Aluminium Composite Panels | Aludecor/ Alucobond /Alstone/Aalutuff/Virgo/ Aquatech/ VIVA/ Eurobond/Eurobond/Reynoarch/Alex |
| 6 | Aluminium Die-Cast handles & two-point locking kit | Giesse / Securistyle / Alu - alpha |
| 7 | Aluminium Extrusion/ Sections | Hindalco / Jindal / Indal/Nalco/Vedanta |
| 8 | Aluminium Fabricator | To be approved by the Engineer-in-Charge |
| 9 | Anchor Fastner/Dash Fastner | Hilti / Fischer /Bosch/WUERTH |
| 10 | Anti - Termite Treatment | It should be done by permanent members of IPCA as approved by Engineer-in-Charge. |
| 11 | Back up rod | Supreme Industry/ Marshland or equivalent |
| 12 | Batch Mix Concrete (BMC) / Ready Mix Concrete (RMC) | The contractor to install his own computerized batching plant of suitable capacity and arrange for Transit Mixers, pumps etc. as per approval of Engineer - In- Charge. Or The RMC shall be procured from the source as approved by Engineer - in Charge. RMC Producing plants of the main Cement producers shall be preferred |
| 13 | Bitumen | Indian Oil/Hindustan Petroleum/ Bharat Petroleum To be regulated in terms of Ministry of Road Transport and Highways Letter No.-RW/NH-25072/05/2018-S&R (P&B) dated 24.08.2018 |
| 14 | Cement | Ultratech/JK Super/Lakshmi/Wonder/Shree Cement/Birla/Mangalam Cement/Dalmia Cement (Bharat) Ltd./Ramco Cement Ltd**/Ambuja Cement Ltd**/ India Cements Ltd.*/Chettinad Cement Corporation Pvt. Ltd./Nuvoco Vistas Corporation Ltd./Sree Jayajothi Cements Pvt. Ltd. (Maha Cement)/ACC Ltd** |
| 15 | Cement: White | Birla White / JK/Bangur/Bulwark |
| 16 | Clean Room Wall Panels with/ without return air risers, Doors/ windows etc. | CLESTRA/ NICOMAC / HEMAIR / GMP / EPACK/ NAVAIR /Elixir |
| 17 | Clear Glass / Clear Float Glass / Toughened Glass | Saint Gobain (SG) / Asahi India Safety Glass Ltd /Modiguard/Gold Plus |
| 18 | Concrete Additive | Pidilite/Fosroc/Ferrous Crete/MC Bauchemie/Sika/BASF/Bulwark /Sterling Technotrade/Asian Paints/Mapei /Fibrex /Ultratech/ Aquatech/CICO/ MYK Arment/Bharat Build Conchem/DRS Chem/Promix Crystalline/PCE 300/SNF/AFABS/Don Building Chemicals/Tylax/Unierete |

[Signature]

(PAWAN VERMA)
Superintending Engineer
Building Cell

[Signature]
S.E. Bldg Cell

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| 19 | Cover /Spacer Block | ACC/As per approval of Engineer - In- Charge. |
| 20 | Curtain Rod/ Drapery Rod/ Venetian Blinds | Vista work / Mac Décor/Soumya/skylooms/Cortina |
| 21 | Crash Guard/ Corner Guard | MDD/TS/LSR/Radiu/Prolad/C-S Group |
| 22 | Door closer / Floor spring | Hardwyn/Godrej/Dorma/Hormann/Doorking/Everite/Dorset/Becker FS/Ozone |
| 23 | Door Locks | Godrej / Harrison / Dorma/ Hormann/Link /Dorset/Becker FS/Ozone |
| 24 | Door Seal – Woolpile Weather Strip | Anand Reddiplex/ Enviroseal |
| 25 | Door Shutters- Flush | Duro / Greenply/ Century / Merino/Jayna door of Jain wood Industries/Orion /Jain doors/Tufwud/Kajaria Ply/Kanchan Ply/Amulya/ Mayur/Durian/Black Cobra/Green Panel |
| 26 | Doors & Windows Fixtures / Fitting. | Everite / Classic/ Crown / Earl Bihari/Dorset/Jain doors / Elixir/TATA Pravesh/Kich/Global |
| 27 | Epoxy Flooring | Fosroc/ Dr. Beck/ Flamaflor/ MC Bauchemie /Berger/Bulwark /Sterling Technotrade/Asian Paints/Fibrex/Sunanda/CICO/ Tiki Tar Danasa/ MYK Arment/Flo Pro:53/PUMF/Don Building Chemicals/Hygie Profile |
| 28 | Extruded Polystyrene Board | Styrofoam by DOW Chemicals / Insuboard by Supreme Industries |
| 29 | False Ceiling - Calcium Silicate Boards & Tiles | India Gypsum/ Armstrong / Hilux / Saint Gobain(Gyproc)/ Credence /Prolad/ Aerolite/ Dexune |
| 30 | False Ceiling - Metal | Armstrong / Hunter-Douglas / USG-Boral/ Saint Gobain/ Hi- STEEL/ Uninet/Prolad/Credence/ Grid Square/ Dexune /Everest/Bollard |
| 31 | False - Mineral fibre | Armstrong / Decosonic / USG-Boral/ AMF/ Saint Gobain(Gyproc) /Credence/Prolad/ Dexune/Everest/Bollard |
| 32 | Fire Rated Doors | Navair / Shakti-Hormann / Pacific/Promat/ Jayna door of Jain wood Industries /Jain doors/Bhawani Fire/Tufwud /Kanchan Ply/ASES(Agni Suraksha) /TATA Pravesh/Pacific/Sukriti/Acodor |
| 33 | Fire Rated Glass | Asahi India Safety Glass Ltd./ Saint Gobain/ Pilkington, Schott, Pyroguard, Glavibel / PYROBECK |
| 34 | Fire Retardant Paint | Viper FRS 881/ Nullifire/ Berger/Sterling Technotrade |
| 35 | Fire Seal | Sealz, Alstroflam/ Abacus/WUERTH |
| 36 | Fire: Door Closures, Mortice/Dead locks | Becker Fire Solution/ Ingersoll Rand/ Dorma/ Hormann/ Godrej/ Geze/ Hafele/Navair/Dorset |
| 37 | Fire: D-Type Pull Handles | Becker Fire Solution/ Dorma/ Hardwyn/Godrej/ Dorset/ Shakti- Hormann |
| 38 | Fire: Hinges, | Becker Fire Solution/ Ingersoll Rand/ Dorma/Godrej/ Geze/ Hafele/Dorset/Shakti- Hormann |
| 39 | Fire: Panic Exit Devices | Becker Fire Solution/ Ingersoll Rand LCN Series/ Hormann/ Dorma PHA Series/ D-line/Godrej |
| 40 | Fire: Sealant | Birla/ 3M/ Hilti/Dr Fixit/Bulwark/WUERTH |
| 41 | Fire: Tower Bolts | Suzu/ Nulite/ Dorset/ Dorma/Godrej/ Becker FS/Aluminium Udyog |
| 42 | Floor Hardener | Pidilite / Ferrous Crette/SIKA / BASF/ Perma/ Mapei /Fibrex/ Aquatech/CICO/MYK Arment /Bharat Build Conchem /United Mortar/Flow Pro Hard Top/Don Building Chemicals/Unierete |
| 43 | Glass: Float & Mirror | Modiguard / Atul / Saint Gobain/ Asahi India Safety Glass Ltd / Modi Glass/ Cera/Gold Plus |
| 44 | Glass for Aluminum Doors/ Windows/ Structural Glazing | Modiguard / Saint Gobain / Pilkington/ Asahi India Safety Glass Ltd./Modiglass/ NCL-VEKA/Gold Plus |
| 45 | Glass Wool / Insulation Boards/Puf Insulated Roofing | Rockwool / UP Twiga / Lloyd Insulation /Pidilite/ Berger |
| 46 | GRC Jali | Unistone/ KuberFibrostone/Everest Composites/ Birla white/Unierete |

(PAWAN KUMAR)
Superintendent Engineer
Building

Sanjay K. S. S. S. S.
S.E. Bldg Cell- I

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| 47 | Grout: Non-Shrink | Ferrous Crete/Fosroc / Sikka/Pidilite / MC Bauchemie/ BASF/ Berger/ Bulwark/ Sterling Technotrade/Asian Paints/Akemi/ CAPA ic/Mapei/Fibrex/Ultratech/Sunanda/Don Building/Aquatech /CICO/ MYK Arment/Reyno/Cera Chem/Progrout C65/HR/Tylax/Hygic Profile/Unicrete |
| 48 | Grouting Compound | Bal Endura/ Pidilite/ Ferrous Crete/ Laticrete/Berger/Bulwark /Sterling Technotrade/Asian Paints/Akemi /CAPA ic / Mapei/ Fibrex/Sunanda/Don Building/ Aquatech/CICO/ MYK Arment/ Bharat Build Conchem /United Mortar/Reyno/Progrout Add NS/Tylax/Unicrete |
| 49 | Gypsum Board / Gypsum False Ceiling/ Gypsum Partitions | USG-Boral Gypsum / India Gypsum / Lafarge/ Saint Gobain (Gyproc) /Credence/Everest |
| 50 | Laminates/ Veneers | Century/Archidply/Greenlam/Formica/Sunnica/ Merino/Orion/ Kanchan Ply/Amulya /Virgo/Durian/ Archid Ply/Green Panel |
| 51 | Lead Lined Door | REBBON, Kutty's, AHALDA / NAVAIR/Bhawani Fire/ TATA Pravesh/Acador |
| 52 | Modular Grab bars and Disabled Hardware | Dorma / Hormann/D-line/ Becker FS |
| 53 | Modular SS Railing System | Metallica India / D - Line International Denmark/ Mobel Hardware/Ozone/Dorma/Kich/Technoraill |
| 54 | Neutron Shielded Door | Ray-Ban Engg corp/A-FabcoIn/ATL shielding INC/Accurate Radiation Shielding |
| 55 | Night Latch | Godrej / Dorma/ Ozone/Harrison/Link/Dorset/ Becker FS |
| 56 | OT: Anti-Fungal paint | Sikka by Liquid Plastic/ Viesmann/ SSK/ TRILUX/Bulwark /Fibrex |
| 57 | OT: Conductive Tile Flooring: ESD-Control Tile Flooring | Tarkett/ Gerflor/ Armstrong/ Forbe/ Trilux/Bulwark |
| 58 | Paints - Cement Based | Snowcem Plus/, Berger (Durocem Extra)/ Nerolac Super Acrylic/ TATA Cem, Asian Paints/Sunanda /United Mortar/Acro |
| 59 | Paint - Fire Retardant | Viper FRS 881/ Nullifire/wasser Polymer/Asian Paints/Sunanda/Acro |
| 60 | Paints - Epoxy paint | ICI Dulux/ Nerolac / Cico / Sikka / BASF / Berger / Pidilite /Asian Paints/Fibrex/Sunanda/Hygic Profile |
| 61 | Paints - Oil Bound Distemper / Acrylic Washable Distemper | ICI Dulux/ Asian (Tractor)/ Berger (Bison)/ Nerolac (Super Acrylic), ICI (Maxlite) /Sunanda/ United Mortar/Nippon/Acro |
| 62 | Paints - Other Paints / Primer | ICI Dulux/ Asian/ Berger/ Nerolac/Bulwark/Sunanda/Nippon/Acro |
| 63 | Paints - Plastic Emulsion Paint | ICI Dulux/ Asian/ Berger/ Nerolac/Bulwark/Sunanda/Nippon/Acro |
| 64 | Paints - Plastic Emulsion Paint (exterior) | Asian (Apex Ultima)/ Berger (Weather coat all Guard)/ ICI (Dulux weather shield max)/Bulwark/Sunanda/Nippon/Acro |
| 65 | Paints - Synthetic Enamel Paints | ICI Dulux (Gloss), Berger (Luxol Gold), Asian (Apolite), GoodlasNerolac (Full gloss hard drying), Jenson & Nicholson (Borolock) /Sunanda/Nippon/Acro |
| 66 | Paints - Texture paint | Berger / Spectrum / Unilite Heritage /Asian Paints/ Ultratech Texture Paint/Bulwark/Sunanda/Nippon/Acro |
| 67 | Paver blocks / Tiles (All Types) | KK / Uni Stone Products (India) Pvt. Ltd/ Hindustan Tiles/ NITCO/Simpolo/Pavit/ACC |
| 68 | Plywood/Block board/Ply board | Duroply / Greenply/ Archidply/ Century/Kajaria/ Kitply/National / Anchor/ Merino/Orion/Kanchan Ply/ Mayur/Amulya/Durian/Black Cobra/Green Panel |
| 69 | Polycarbonate Sheets | Danpanlon India/Gallina/ GE Plastic/Tuflite/FLUX by DPI /Everest |
| 70 | Pre-coated Galvanised Steel Sheet | Tata BlueScope / Llyod Insulations India Ltd / S.R Metals |
| 71 | Pre-Laminated Particle Board | Novapan /Century /Green Ply/ Merino/Orion |
| 72 | PVC continuous fillet for periphery packing of glazings / Structural/ Glazing | Roop / Anand / Forex Plastic/ Nagalia/Trading Company |

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(PAWAN VERMA)
Superintending Engineer
Building-Civil

Sanjay K. Shrivastava
S.E. Bldg. Civil

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| 73 | UPVC Doors/Windows | Sintex/ Polycex/ Rajshri/NCL-VEKA/Amulya/Yashpoly/PSP/Window Magic India Pvt. Ltd. |
| 74 | PVC Flooring | Tarkett Floors / LG Floors / Gerflor / Premier Vinyl flooring / Regent / Armstrong |
| 75 | Powder Coating Material pure Polyester | Jotun / Berger / Goodlass/Nerolac/Asian Paints |
| 76 | PVC Water Stops | Prince /Supreme/ Finolex |
| 77 | RF Shielded Door | ETS Lindgerm/ Synchrony Agency/ Huaming EMC India |
| 78 | Reinforcement Steel | JSW/JSPL Steel/TATA/SAIL/RINL/Shyam Steel/Three Nakoda Ispat Ltd/MS Agarwal Foundaries Pvt. Ltd./Shri Bajrang Power & Ispat Ltd(GOEL TMT)/Radha Smelters Pvt. Ltd. (RADHA TMT)/ESL Steel Limited(Vedanta)/SRMB Srijan Pvt. Ltd./Rungta Mines Ltd/ Real Ispat and Power Ltd.(GK TMT)/ Fortune Metal Ltd./ Rama Power & Steel Pvt. Ltd. (RAMA TMT)/ Rashmi Metaliks Limited/ SMW Ispat Pvt. Ltd. (Sangam Steel)/ Prime Gold Sall JVC Ltd./ MSP Steel & Power Ltd./ Shakambhari Ispat & Power Ltd. (Elegant Steel)/ Maithan Steel & Power Ltd./ Jai Balaji Industries Limited (Balaji Shakti TMT)**/Sugna Metals Ltd. (Sugna TMT)/Fortune Metaliks Ltd./Maa Mahamaya Industries (Mangal TMT)/Amba Shakti Industries Ltd./Electrotherm (India) Ltd./Shyam Metaliks and Energy Ltd. (SEL Tiger TMT)/Gallant Ispat Ltd.**/Prakash Ferrous Industries pvt. Ltd. (Tirumala Steel)**/Pushpit Steels Pvt. Ltd.(Pulkit TMT)**/Tulsyan Nec. Ltd.** |
| 79 | Restroom Cubicles | Merino/ Century/ Greemlam |
| 80 | Sandwich Puff Panel | JSW/SINTEX or equivalent/Everest |
| 81 | Sealant: Poly-Sulphide | Pidilite / Fosroc / Ferrous Crete / Sikka /Berger /Asian Paints/ Mapei/Fibrex/Don Building /Aquatech/CICO/ MYK Arment/Seal Pro PS G |
| 82 | SFRC / RCC Manhole Covers/ Perfect RCC Grating | KK Manholes / SK Precast Concrete/ Advent concretevision / Daya concrete |
| 83 | Silicon sealants /Weather Sealant / Structural Glazing Sealant | GE- Silicon / Pidilite / Fosroc / Cico /Dow Corning / Sikka/ Wacker Sterling Technotrade/ Asian Paints/Don Building/ MYK Arment/Alstone |
| 84 | Stainless Steel | Salem Steel/ Jindal or equivalent |
| 85 | Outdoor Sports Flooring | Great Sports Infra/PORPLASTIC/Sunflex/ Mapei/Fibrex |
| 86 | Stainless Steel bolts, Screws, Nuts & Washers | Kundan / Puja / Atul /Wurth/Aluminium Udyog |
| 87 | Stainless Steel Clamps | Hilti /Intellotech/Koncept or equivalent/WUERTH |
| 88 | Stainless Steel CP Grating | Chilly / Camry/ Neer or equivalent |
| 89 | Stainless Steel D-handles | D-line / Giesse /Dorma /Dorset/ Becker FS/Aluminium Udyog |
| 90 | Stainless Steel Friction Stay | Earl Bihari / Securistyle / EBCO /Dorset |
| 91 | Stainless Steel Hinges | Hettich/ Godrej/ Dorma / Hormann/Dorset/ Becker FS/Kich/Meltron |
| 92 | Stone Adhesives | Ferrous Crete / Fosroc / Sikka / Pidilite/Berger /Asian Paints/Akemi CAPA ic/ Mapei/Fibrex/Ultratech/ United Mortar/Cera Chem/Tylax/Unicrete |
| 93 | Sunken Portion Treatment | Choksey / Sika / CICO/ MC Bouchemie / BASF/Berger/ Sterling Technotrade/ Asian Paints/ Mapei/Fibrex/Ultratech /Sunanda/ProCoat CT |
| 94 | Super plasticizer | Ferrous Crete / Roffes Construction Chemicals/ Pidilite /Berger /Bulwark/ Asian Paints/ Mapei/Fibrex/ Aquatech/CICO/MYK Arment/Bharat Build Conchem/ United Mortar/ Kunal Conchem P Ltd./Cera Chem/Promix PCE300/Promix SNF/Tylax/Unicrete |
| 95 | Tiles: Ceramic Tiles | Kajaria /Restile/Euro/Jhonson/AGL/Orientbell/ Vahnora/ NEOM/ RAK/Oasis/Durato/Cera/Orientbell Tiles/Pavit/Sunheart Ceramix |

(PAWAN VERMA)
Superintending Engineer
Building Cell

Sanjay K. Sainastava
S.E. Bldg Cell-I

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| 96 | Tiles: Glass Mosaic Tiles | MIRIDUL / BIZZARI/Johnson/Kajaria |
| 97 | Tiles: Glazed (Ceramic) tiles | Kajaria / Somany/Restile/Euro/Jhonson/Asian/Orientbell/Varmora /NEOM/RAK/Oasis/ Cera/Dunato/Sunheart Ceramix |
| 98 | Tiles: Heat Resistant Terrace Tiles | Thermatek/ Insulla/Rocotile/Varmora/Orientbell or equivalent/RAK-KLIMA/Pavit |
| 99 | Tiles: Vitrified Tiles (Double / Multi Charged)/ Germ free | Kajaria / Somany/Restile /Euro/Jhonson/AGL/Orientbell/ Varmora/ NEOM/RAK/Oasis/ Cera/Dunato/ Orientbell Tiles/Pavit/Sunheart Ceramix |
| 100 | Vacuum Dewatered Flooring | Premix / Sun Build / Aycon technics |
| 101 | Veneered Particle Board | Duro / Greenply / Century / Novapan / Action Tesa/Black Cobra |
| 102 | Vinyl Flooring | Wonder floor /Vibrant Floors/Responsive or equivalent make |
| 103 | Water Proofing Materials (Bitumenistic/Crystalline) | Ferrous Crete / Sikka / STP/ Pidilite/CHRYSO/Sealing Technotrade/Penctron/Berger/AKWOSHIELD/Bulwark /Kryton/ Fosroc/Perma/Asian Paints/ Mapei/Fibrex/Ultratech/Sunanda/Dun Building/ Aquatech/Fiki Tar Danasa/ MYK Armen/Bharat Build Conchem/ United Mortar/ TIKIDAN/Kunal Conchem P Ltd./Reyno/Cera Chem/Proshield HDPE/SBC/PVC/AquaPro Crystalline/Tylax/Hygie Profile/Unicrete |
| 104 | Wooden Laminated Flooring | NITCO /Euro / Pergo/Royale Touch/Epitome/Green Panel |
| 105 | Auditorium Chairs | Godrej/Spacewood/Indo/Monarch/Ganpati/HOF/Momentum Techsys/Delight Hi-Tech |
| 106 | Expansion Joints | Sanfield (India) Ltd., MIGUA, TRISTAR/C-S Group/ MNR Engineering/VR Engineers/3R Joints and Seals |
| 107 | AAC Block | ModCrete/Max Block/Finecrete/Indo Bhutan/Ultratech Xtralite /Ambuja/Fisco/ACC/ACC+ (4MPa & 5MPa) |
| 108 | AAC Block Adhesive | Ferrous Crete / Kerakoll / Mapei / Berger/Bulwark/ Homesure (Wallplast)/ Modbond/Ultratech/CICO/Tylax/Unicrete |
| 109 | Gypsum / Redimix Plaster | Ferrous Crete/Gyproc (Elite -90)/kerakoll/Bulwark/ Asian Paints/ Mapei/ Homesure (Wallplast) /Ultratech/ United Mortar/WUERTH/Organo Ready Mix Plaster/Tylax/Hygie Profile/Unicrete |
| 110 | Wall-putty | Birla/ JK / Ferrous Crete/Berger/Bulwark/Perma/Asian Paints /Homesure (Wallplast)/ Aquatech/ United Mortar/Acro/Tylax/Hygie Profile |
| 111 | Emulsion (RS&SS) | Hindcol/Fiki Tar Shell India Ltd. /ACU road crafts/M/s Jamidhi Bitumen Specialities Pvt. Ltd./ IWL/ IOCL/ Bedrock Chem Infra LLP/ Supreme Bituchem India Pvt. Ltd./ Vishal Sales (Vizcol)**/ OOMS Polymers** |
| 112 | Pre-Stressing Steel (HT Strands) | Usha Martin/Tata/DP Wire/Kataria/Miki Steel Works Pvt. Ltd. |
| 113 | RE Wall Agency (Design and Supply) | Source approval to be accorded subject to fulfilment of prescribed specifications |
| 114 | Food Service Equipments | Koncept Solutions |
| 115 | Furniture Items | KICH/VISA/VAA/Godrej |
| 116 | Hollow Section/ Structural Steel | APL Apollo/Jindal/ Tata |
| B. PLUMBING & SANITARY WORKS | | |
| 1 | Automatic variable temperature control / fixed temperature control faucets | Jaquar / AOS-Robo-U-Tee/ Parry / Cera/Angash / Euro-nics /Johnson/Kohler/Plato/Jaquar |
| 2 | Central Control | Rain Bird, USA/Toro/Nelson, |
| 3 | Ball Cock | Sant / L&T/Audco/GPA/ Plato/Leader |
| 4 | Ball valves with floats | Zoloto / Leader / Sant/ Audco/GPA/ Plato |
| 5 | Brass - Stop & Bib Cock | Zoloto / Sant / Jaquar/Esseo/Kohler/ Plato/Player/ Cera/Leader/Jaquar/Esseo |
| 6 | C. I Pipes & Fittings | Electrosteel/ Kapilansh/ NECO/ RIF/BIC/RPMF/SKF |
| 7 | Centrifugally Cast Iron Hubless Pipes & Fitting | NECO/BIC /Kapilansh/RPMF/SKF |

(PAWAN VERMA)
Superintending Engineer
Building Cell
MWS, Lucknow

Sanjay K. Srivastava
S.E. Bldg Cell - I

5/26/2019

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| 8 | C.I Sluice Valve & Non Return Valve | Kirloskar / Leader / Zoloto / Audeo / Sant |
| 9 | C.I Valves (Full way, Check and Globe Valves) | Leader / Kirloskar / Zoloto / Sant / Castle / Kartar / Plato |
| 10 | C.I. Manhole Covers | NECO/R.I.F./B.I.C./HEPCO / KAJECO/SKF |
| 11 | C.P. Fittings: Mixer / Bib Cock/ Pillar taps/ Angle valve/ Valves Washers / Waste/ Urinal / Spreaders / Accessories etc. | Jaquar / Grohe/ Marc/ Kerovit/ Hindware/ Parryware/Esseo / Johnson/Kingston/Player/Asian Paints(Bath Division)/Kohler/ Plato/RAK-KLUDI/Cera/BOLAN by SFMC/Kich/ Jaquar/Esseo |
| 12 | Centrifugally C.I Rainwater Intel fitting , Bronze gratings | NECO/BIC/RPMF/SKF |
| 13 | Centrifugally casted C.I. Pipes | Electrosteel/ Kapilansh/ NECO/ RIF /BIC/SKF |
| 14 | Chlorinator | Thermax Ltd/ Watcon, Ion exchange/ Sigma DH Combine Inc / Siemens/ Techcon/ Jesco / Prominent Heidelberg |
| 15 | Chlorine Dosing System | Toshcon / Chloronax |
| 16 | Cockroach Trap | Chilly/ Player/ Camry/ Plato |
| 17 | Copper Fittings (Capillary) | Yorkshire Imperial, U.K./ Rajco Metal Works Mumbai / IBP Conex Ltd. |
| 18 | Disc Filter | Azud, Spain/ Amaid / Arkal, |
| 19 | Ductile Iron Fittings (IS:9523) | Electrosteel/Kesorani/Tisco/Jindal/HEPCO |
| 20 | Ductile Iron Pipes (IS:8329) | Electrosteel/Kesorani/Tisco/Jindal/HEPCO |
| 21 | E.P.D.M Gaskets | Anand Reddiplex / Enviro Seals / HANU |
| 22 | Forged Steel Fittings & Flanges (For Welded joints) | Rohini / Kanwal/ Vijay Cycle & Steel (VS) |
| 23 | Geysers | Spherehot / Racold / Usha Lexus / Bajaj/Jaquar/Esseo |
| 24 | Hand Drier | Kopal / Utech Systems / Euronics Automa/ Plato/Jaquar |
| 25 | HDPE Pipes / Moulded Fittings | Emco / Polyefins/Pioneer Plyfab/ Jain / Raksha/SFMC/Apollo pipes / Tirupati |
| 26 | HDPE Solution tank | Watcon / Ion Exchange / Water Supply Specialist Pvt. Ltd. |
| 27 | Inbuilt Drip Line | Azud/ Rainbrid-USA/ Netafim |
| 28 | Insulation of Hot water pipes | Vidoflex insulation / Superior insulation Kaiflex- Kaimann/ ArmoFlex/Thermaxflex |
| 29 | Liquid Level Controllers / Indicators | Advance Auto / Sridhan International / Minilec/ Radar / Femac / Switzer / 21st Century |
| 30 | Liquid Soap Dispenser | Euronics/Utec/Kopal/Raksha Flow |
| 31 | MS Saddle with G.I. Riser | Harvel/Alprene/Rain Bird, USA |
| 32 | PVC flushing cistern | Commander / Parryware / Hindware/ Cera / Prayag/Raksha Flow |
| 33 | P.R.S. Dials | Rain Bird, USA/ Toro, USA/ Nelson, |
| 34 | P.T.M.T. Fitting | Prince India / Symet/Pryag/Raksha Flow |
| 35 | Pipe coat material (pipe protection) | RPG Raychem/Pykote/Makphalt/Lwl |
| 36 | Pipe Fittings: G.I. | R/Unik/Zoloto/K.S./Sun/Swastik |
| 37 | Pipe:- G.I. | Jindal / Tata / Prakash Surya/SAIL/ Swastik |
| 38 | Pipes & fitting: PVC for SWR Soil, Waste & Vent Pipes and fittings, Type B PVC Casing & Screen Pipes | Prince / Supreme / Finolex/Neco / Prayag / Skipper / Ashirvad / Raksha/TruFlow(Hindware) / SFMC/Sentini Flopipes/Kamdhenu / Apollo pipes |
| 39 | Pipes & Fittings: CPVC | Flowguard/ Astral/ Ashirvad/ AKG/Supreme/Prayag/ Skipper / Ashirvad/TruFlow(Hindware) / Raksha /SFMC/Sentini Flopipes/Kamdhenu/Apollo pipes/Prakash Surya |
| 40 | Pipes & fittings: UPVC | Finolex / Prince /Supreme/AKG/Kasta/Vector /Astral/ Prayag / Skipper / Ashirvad/Raksha/SFMC/Sentini Flopipes/Apollo pipes/Prakash Surya |
| 41 | Pipes & Gully Trap: Stone ware | Perfect / S.K.F/ R.K/ Hind / Anand |
| 42 | Pipes and Accessories: PE-AL-PE | Kitec/ Jindal/ Kissan/Vista |
| 43 | Pipes: Copper | Rajco Metal works, Mumbai / IBP Conex Ltd. |

(PAWAN VERMA)
Superintending Engineer
Building Cell

Sanjay K. Srivastava
S.E. Bldg Cell- I

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| 44 | Pipes: M.S. | Jindal / Prakash - Surya / TATA |
| 45 | Pipes: PP-R (PN - 16) | Amitex Polymers Pvt. Ltd. / Prince/ Supreme/ FMG |
| 46 | Stainless Steel Pipes & Fittings | Alfa Press/Renaissance/Grand Metal/ Solitaire |
| 47 | Pipes: R.C.C | Indian Hume Pipe / Pragati Concrete Udyog Daya/ KK / ISP |
| 48 | Plastic seat cover of W.C | Commander/Hindware / Parryware/Raksha Flow/Cera |
| 49 | Polyethylene Storage Tank | Sintex / Polycor/ Fusion/SPL/Raksha |
| 50 | Pop up Connecting Assembly | Rain Bird/Dura/Lasco. |
| 51 | Popup Spray Head | Rain Bird/Toro, USA/Nelson, |
| 52 | RQRC Hydrant | Harvel/Alprene/Rain Bird, USA |
| 53 | RQRC Key | Harvel/ Aqua/ Drip& Drip |
| 54 | Sensor Operated Auto Flushing System Urinals | Jaquar / AOS-Robo/U-tec/Angash/Euronics /Prayag/Cera/Jaquar |
| 55 | SS Gratings/ Soap Dish/Towel Rail etc. | Camry/Glacier/Gem/ Jaquar/ Grohe/Jaquar |
| 56 | Stainless Steel Sink | Hindware / Neelkanth / Nirali /Dayna/Johnson/Prayag/Kingston/ BS SilverShine/ Cera/Raksha Flow |
| 57 | Valve Box | Rain Bird, USA/Carson Brook, USA/Dura, |
| 58 | Valve: Air Release | Azud/ API/ Bernad/ BIP/ Kirloskar / Venus / Zoloto/Leader |
| 59 | Valve: Butterfly | Zoloto/Audco /Sant/ KSB/Leader |
| 60 | Valve: Gun metal | Kilburn /Leader /Zoloto/ Sant/ Kartar/ AIP/ Audco |
| 61 | Valve: Flush | Gem/ Jaquar / Marc/Jaquar |
| 62 | Valve: Mainline Isolation | Sant /Leader /Zoloto, |
| 63 | Valve: Pressure Relief | Sant/Leader/ Zoloto / Audco |
| 64 | Valve: Sluice / NRV | Kirloskar/IVC/Kilburn /Zoloto/Castle/ Leader/ L&T/ Audco/Sant |
| 65 | Valve: Solenoid | Rain Bird, USA/Toro/Nelson, |
| 66 | Valve: Non Return | Sant/ Leader/ Zoloto / AIP / Kirloskar/ IVC/ Leader/ Audco |
| 67 | Valves: Gunmetal / C.P brass angle | Zoloto / Leader / Kilburn / Sant / Kartar/ AIP/ Audco/Cera/Leader |
| 68 | VFD Pump | Jyoti / Crompton/ Kirloskar/ KSB/ Grundfos/ Mather & Platt |
| 69 | Vibration Eliminator Resisto-flex Pads & Connections | Relay Corpn./Kanwal |
| 70 | Vitreous China Sanitary wares | Hindware / Parryware / Cera /Kerovit/ Kohler/Johnson/Simpolo /RAK/Jaquar/Esseo |
| 71 | Water Cooler | Blue Star/ Voltas/ Usha/ Godrej/WAE |
| 72 | Water Meter | Capstan / Kranti/ Anand/ Kant |
| 73 | Water supply pumps | KSB/ Grundfos/ Kirloskar/ Crompton/ Mather & Platt/Lubi |
| 74 | White Glazed Fire Clay Sink | Hindware / Parryware / Cera/Simpolo/RAK |

**List of Approved Makes of Materials- Services & Related Works
DRINKING WATER PUMPING SYSTEMS /WATER TREATMENT PLANT / REVERSE OSMOSIS ETC.**

| S.No. | Details of equipment/ material | Make/Manufacturer |
|---|--|---|
| DRINKING WATER PUMPING SYSTEMS /WATER TREATMENT PLANT / REVERSE OSMOSIS ETC. | | |
| 1 | Anti-Vibration Mounting & Flexible Connections | Dunlop/Flexionics/Kanwal/Industrial Corporation/Resistoflex |
| 2 | Butterfly Valve | Zoloto/Audco/Kirloskar/AIP/Advance/Sant |
| 3 | Cartridge Filter | Milton Roy/Grundfos/Big Blue |
| 4 | Centralized RO Plant | Ion Exchange/ Thermax/ Pentair/PAMM/A WMS/WAE |
| 5 | Chain Pulley Block | Indel/ Ardee/ J.K. Morris |
| 6 | Check Valve - Dual Plate | Advance/Honeywell/Audco/Zoloto/Leader |

B. J. J.

(PAWAN VERMA)
Superintending Engineer
Building-Cell

7/26/11

Sanjay K. Srivastava
S.E. Bldg. Cell-1

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|----|---|--|
| 7 | Check Valve – Wafer Type | Advance/Danfoss/Zoloto/Honeywell/Leader |
| 8 | Conductivity Meter | Fox/Rosemount/Aster/Digital |
| 9 | Couplings | Lovejoy/Dunlop/Burgmann |
| 10 | Dosing Pumps | LMI/Pulser Feeder/Toschon/Grundfos |
| 11 | Dosing Pumps | LMI/Pulser Feeder/Toschon/Grundfos |
| 12 | Electronic Flow Meter | Krohne (Forbes Marshall)/Rockwin Cirrus Engineering |
| 13 | Fastener | Fisher/Hilti/Canon/WUERTH |
| 14 | Filter | Ion Exchange/Thermax/Pentair |
| 15 | Flow Meter | Energy/Honeywell/Cirrus Engineering |
| 16 | GI / MS Pipes | Tata Steel/Jindal/SAIL/APL Apollo/Prakash Surya |
| 17 | GI pipes fittings | Unik/ Jain Sons/Zoloto /DRP |
| 18 | GM / Forged Brass Ball Valves | Zoloto/Honeywell/RB/Leader/Leader/Sant |
| 19 | HDPE Tanks | Sintex/Amitex/Sheetal/Raksha |
| 20 | High Pressure Pumps | DP/Grundfos/ITT/Willo-Mather Platt/Lubi/KSB |
| 21 | Hydro-pneumatic System | HBDGM/ Grundfoss / Salinon / Nocchi / Kirloskar/ DP Holland / Wilo/KSB |
| 22 | Level Controller & Indicator (Water) | Auto Pump/Cirrus Engineering/Technika Techtrol |
| 23 | Mechanical Seal | Burgmann/Sealco/Dunlop/KSB |
| 24 | Non return valve | Zoloto/Honeywell/RB/Leader |
| 25 | ORP Meter | Fox/Rosemount/ Rapid Control/ Maharaja / Waltronics |
| 26 | Paints | Asian/Berger/ICI/Shalimar Paints |
| 27 | pH Meter | Fox/Rosemount/Aster/Digital |
| 28 | Pipe clamp & supports | Chilly/Euroclamp/Kanwal |
| 29 | Pipe clamp & supports | Chilly/Euroclamp/Kanwal |
| 30 | Portable RO Plant | Bluestar/Usha/Eureka Forbes/ Kent/ Prestige/ Voltas/ AQ Smith/WAE |
| 31 | Pressure Gauge | Fiebig/ Emerald/H. Guru/Baumer |
| 32 | Pressure Switch | Switzer/Honeywell/Indfoss |
| 33 | Raw Water Pump Set/ Treated Water pump set/ Drainage Pump Set or any other type of pump sets. | DP/Grundfos/ITT/Willo-Mather Platt/KSB/Lubi/KSB |
| 34 | Resin | Ion Exchange/Thermax/3M/Pentair |
| 35 | RO Membrane with Housing | Dow/Hydranautics/Tricep/G.E/Mitsubishi |
| 36 | Sluice Valves | IVC/Kirloskar/ Zoloto/Leader/Sant |
| 37 | Sodium Hypochlorite Dosing System | Asia LMI/ Grundfos/ Seiko/ E - Dose |
| 38 | Softener Vessel | Ion Exchange/Thermax/Pentair |
| 39 | SS 316 Pipes | Jindal/ Viegia/Sumito/ Alfa Press |
| 40 | SS 316 Strainer | Normax/Swadeshi/Worth valve |
| 41 | SS 316 Valves | Audco/ Zoloto /Leader/Walson |
| 42 | Storm Water Drainage & Sewage Sump Pumps (Submersible) | DP/Grundfos/Xylem-ITT/Willo-Mather Platt/KSB |
| 43 | Transfer Pumps | DP/Grundfos/Xylem -ITT/Willo-Mather Platt/Lubi/KSB |
| 44 | Water Meter (Mechanical Type) | Capstan / Kranti/ Anand/ Kant |
| 45 | Welding Rods | ADORR/Esab/ Advani/ Victor |
| 46 | Y Strainer | Emerald/Zoloto /Sant/Leader |
| 47 | Sewage Treatment Plant / ETP | Orion/ Pentapure RO systems/ Ecogene Concepts I.P/B S Enviro/WAE/Cecon |

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| HOT WATER GENERATOR SYSTEM | | |
|----------------------------|--|--|
| 1 | Air release valve/ Insulation/ Thermometer/ Pressure Gauge | As per Approved makes for HVAC Works. |
| 2 | Ball valve/Check valve/—YI—strainer/ GI/MS pipes | As per Approved makes for Fire Fighting Works. |
| 3 | Hot Water Generators | Enmax/ Sunmax/ Goodsun / TATA Power Solar/ Thermax/ Rapid Control |
| 4 | Recirculating pumps | Grundfos/ DP /Mather Platt – Wilo/KSB/Lubi |
| SOLAR PV/ HOT WATER SYSTEM | | |
| 1 | Solar PV System | TATA Power Solar / Havells Solar Edge/ Mosacer Baer/ Jackson Solar/Sunvolta |
| 2 | Solar Hot Water System | HoneyWell / Solahart / Sol. Power/ TATA Power Solar/Bosch/Solimpeks/Sunvolta |
| 3 | Butterfly Valve | Audco/Danfoss/Honeywell/Zoloto/Leader/Sant |
| 4 | Check Valve – Dual Plate | Advance/Honeywell/Audco/Zoloto/Leader |
| 5 | Check Valve – Wafer Type | Advance/Danfoss/Zoloto/Honeywell/Leader |
| 6 | CPVC pipes | Supreme/Ashirwad/Astral/Raksha /SFM/ Sentini Flopipes |
| 7 | GI Pipes | Tata Steel/Jindal (Hissar)/ SAIL/Utkarsh/Prakash Surya |
| 8 | GM / Forged Brass Ball Valves | Danfoss/Honeywell/Zoloto/Leader/Sant |
| 9 | Heat Exchanger | GEA Eco flex/Alfa Level or equivalent |
| 10 | Hot Water Re circulation OR other Pumps | DP – Holland/Grundfos /Xylem -ITT/ Wilo – Mather Platt/KSB |
| 11 | Insulation for Hot Water Pipes | Armacell – Armaflex/Eurobatex – Union Foam K-Flex/ Thermaflex |
| 12 | Level Controller & Indicator (Water) | Auto Pump/Cirrus Engineering/Technika /Techtrol |
| 13 | Pipe clamp & supports | Chilly/ Euroclamp/ Kanwal |
| 14 | Sluice Valves | IVC/ Kirloskar/ Advance/Leader/Sant |
| 15 | Solenoid Valve | Danfoss/ Avcon/ Honey well |
| 16 | Water Meter | As per Plumbing & Sanitary make list |
| 17 | Y Strainer | Leader/ Zoloto/ Audco/ Castle/ Emerald/ Rapid cool/ Advance/Sant |
| 18 | Heat Pump | Daikin/Emerson/Cristopia/Bluebox, Climaveneta/Certikin/Jaquar |
| ELECTRICAL WORKS | | |
| 1 | 11 KV HT Panel with 11kV Vacuum Circuit Breaker (VCB) | L&T/ ABB / Schneider/ Siemens or their authorized Channel Partner /Swati Switchgears/ LS Power Control/Excel Control system/Allied Engineers |
| 2 | 33/66 kV HT Panel with 33/66 kV SF6 Breaker | L&T/ ABB / Schneider/ Siemens or their authorized Channel Partner / LS Power Control/Allied Engineers |
| 3 | 33/66 kV HT Panel with 33/66 kV Vacuum Circuit Breaker (VCB) | L&T/ ABB / Schneider/ Siemens or their authorized Channel Partner/ LS Power Control/Allied Engineers |
| 4 | ACB (TP,4P) with variable microprocessor | L&T (U-Power Omega)/ Siemens (3 WL)/ Schneider/ABB (Emax)/ C&S electric/Legrand/Havells/HPL |
| 5 | Automatic Transfer Switch (ATS) | L&T/ ABB/ Siemens/ Schneider / Socomec/Havells/HPL |
| 6 | Auxiliary relays compatible with PLC etc. | Siemens/ L&T/ ABB/ Areva/ Schnieder/Havells |
| 7 | Batteries | Hitachi/Panasonic/ Yuasa/ SF/ Exide/ Ameco/ Amaraja/Sunvolta |
| 8 | Battery Charger | Amaraja/ Sabnife/ Statecon/ Voltstat/ HBL/Sunvolta |
| 9 | Battery Charger-cum-DCDB | Amaraja/ Volstat/Caldyne/ Expo-Fyn/ BCH/ HBL/Sunvolta |
| 10 | Boom Barrier | FAAC/ Godrej Vigiguard/ Somfy/Gunnebo/Motwane |
| 11 | Brass compression Gland (Heavy duty) | Connex/ Gripwell/ Dowell |
| 12 | Bus bar | Jindal/ Hindalco/ Indal |

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| 13 | Bus Duct - Sandwich | L&T/ Siemens/ Advance-Anant Power/ Schneider/ C&S/ Godrej/ Legrand/ EAE/ SPC Electrotech/ Expert/ RP Control/ Global/ LS Power Control/ Excel Control system/ Allied Engineers/ NEC/ Prestige Switchgears/ Nitya Electro Control | |
| 14 | Bus trunking, rising mains, end feed unit, top-off box (plug-in type) | L&T/ Schneider/ C&S/ Godrej/ Legrand/ EAE/ SPC Electrotech/ RP Control/ Global/ LS Power Control/ Excel Control system/ Allied Engineers/ NEC/ Nitya Electro Control | |
| 15 | Cable Jointing Kit / HT termination Kit | Reychem/ Xicon/ 3M | |
| 16 | Cable Lugs & Glands | Dowel/ Johnson/ Gripwell/ Comex/ Hex/ Comet | |
| 17 | Cable Tray/ Race ways / Floor trunking / wall channels | MEM/ BEC/ MK/ OBO Bettermann/ Indiana/ Legrand/ Sai Metal Craft/ RMCON/ SPC Electrotech/ Consoul/ Expert/ Steel Krafts/ RP Control/ LS Power Control/ Global/ Prestige Switchgears/ Rushabh | |
| 18 | Capacitors with harmonic filters | L&T/ Siemens/ Schneider/ ABB/ Ducati/ Legrand/ Havells | |
| 19 | Ceiling / Exhaust/ Wall fans | Crompton/ Usha/ Orient/ Bajaj/ Havells/ Anchor/ Panasonic/ Polycab/ Surya | |
| 20 | Chemical Earthing | JMV LPS Ltd./ Pragati Electrocom | |
| 21 | Coaxial Wires | Finolex/ Delton/ Skytone/ L&T/ KEI/ Finolex/ Gloster/ Grandlay/ Anchor/ Bonton/ KVV/ SIPL/ JMW Kabel/ RR Kabel/ NEC/ Nitya Electro Control/ Microtek | |
| 22 | Colour Monitor | Samsung/ LG/ Sony/ Philips | |
| 23 | Compression Gland and Lugs/thimbles | Dowel/ Comet/ Gripwell | |
| 24 | Contactors | ABB/ L&T/ Schneider/ Siemens/ Havells/ HPL | |
| 25 | Control fuse base with HRC fuse / HRC Fuse | L&T/ Siemens/ ABB/ Alstom/ Schnieder/ C&S electric/ Anchor/ Havells/ Indo Asian | |
| 26 | Crimping Lugs/ Thimbles | Dowells/ Hex/ Comet | |
| 27 | CT/ PT's | L&T/ Kappa/ C&S/ CGL/ AE/ Meco | |
| 28 | Cubicle Type Fuse Unit/ RMU | Siemens/ L&T/ ABB/ Schneider/ C&S electric | |
| 29 | Data/ Telephone/ TV Outlets | Systemax/ Belden/ Simone/ MK/ Legrand/ Havells/ Anchor/ SIPL/ Indo Asian | |
| 30 | DB's / Pre-wired DB's | Hager/ Havells/ Legrand/ L&T/ Schneider/ ABB/ Siemens/ C&S electric/ Panasonic/ HPL/ Indo Asian/ Nitya Electro Control | |
| 31 | DG Set - Assembler | Jakson & Company / Jakson Ltd/ Sterling Generators / Sudhir Gensets/ C&S Himoina/ Powerica/ Kirloskar (KOEL authorized OEM) / TIPL/ Greaves Cotton | |
| 32 | DG Set - Alternator | Stamford/ Leroy Somer/ Toyo Denki/ AVK-SEG/ Kirloskar (KOEL Green)/ Greaves Cotton | |
| 33 | DG Set - Engine | Cummins/ Mitsubishi/ Perkins/ Volvo/ Caterpillar/ Kirloskar (KOEL Green)/ Greaves Cotton | |
| 34 | DG Synchronizing Controller | Woodward/ Diel/ Deep sen/ Greaves Cotton | |
| 35 | Digital Lighting Control System | Wipro/ Siemens/ Philips/ Schneider/ ABB/ L&T/ Panasonic | |
| 36 | Digital Numerical Relays | L&T/ ABB/ Siemens/ Schneider/ Areva/ Panasonic | |
| 37 | DWC HDPE Pipe | DURA-LINE / REX / CARLON/ EMTELLE/ Mastodon | |
| 38 | Digital Energy Meters including Dual Source Energy Meters | L&T/ Rishabh/ Schneider/ HPL/ Siemens/ ABB/ Socomec/ Neptune/ Legrand/ Panasonic/ HPL/ BENLO/ BENTEC/ Omicron | |
| 39 | Electrical Motors | L&T/ ABB/ Siemens/ Kirloskar/ Lubi/ KSB | |
| 40 | Optical Fiber Cable | Sterlite Technologies/ Finolex/ Belden/ Delton/ Skytone/ APAR | |
| 41 | Fire Extinguisher | Ceasfire/ Exflame/ Minimax/ Life Guard/ Safex/ Safefire/ Kanex/ KalpEX | |
| 42 | Fire Survival Cables | KEI/ Polycab/ Havells/ Nvent/ Fusion Polymers/ No Burn/ Svarn/ Bonton/ LS Cable/ KVV/ HPL/ RR Kabel/ NOTOFIRE | |
| 43 | PVC insulated FRLS - Aluminum / Copper 1.1 KV grade flexible wires | L&T/ Gloster/ Havells/ Polycab/ Finolex/ RR Kabel/ KEI/ Batra henlay/ AKG/ Grandlay/ Goldmedal/ Svarn/ Anchor/ Plaza cables/ Bonton/ LS Cable/ KVV/ SIPL/ NEC/ Nitya Electro Control/ Shalabh/ BENLO/ BENTEC/ Axelon/ APAR/ SCI/ Microtek | |

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10/26/2018

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| 44 | G.I./Cu. Strip & earthing material | Bharati/ Indiana/ Slotco/Consoul | |
| 45 | Hand Gloves & Rubber Mat | Premier Polyfilm Ltd/ Polyelectrosafe/ Challenger/ Electromat/ Safe Hold | |
| 46 | HRC Fuse | Siemens/ L&T/ ABB/ Schneider/Havells/HPL/Indo Asian/BENLO/BENTEC | |
| 47 | HT & LT Cables (Power & Control Cables, Solar Cables) | Gloster/ Havells/ Nicco/ Finolex/ KEI/Polycab/Grandlay/ NEC Wire & Cable/ Goldmedal/Anchor/ Plaza cables/Bonton/ LS Cable/Svarn KVV/ HPL/ JMW Kabel/ RR Kabel/ Nitya Electro Control/Axelon/Shalabh/Microtek/ AKG/DICABS | |
| 48 | Indicating Lamps | AE/ Kaycee/ Vaishnav/ L&T/ Siemens/ Schneider/ Teknik/ ABB | |
| 49 | Industrial Socket Outlets | ABB/ L&T/ Legrand/ Siemens/ Hager/Anchor/HPL | |
| 50 | Insulated Rubber Mat | Premier Polyfilm Ltd/ Polyelectro safe/ Challenger/ Electro Mat/ Safe Hold | |
| 51 | Insulators | Jaya Shree/ Modern/ IEC/ WSI | |
| 52 | Intelligent Detectors/ Hooters & accessories | Notifier-Honeywell/ Schneider/ Edwards/ Siemens/ L&T/Appolo/Advanced/ NOTOFIRE/Eaton | |
| 53 | Intelligent Fire Alarm Panel | Notifier/ Honeywell/ Schneider/ Edwards/ Siemens/L&T/Panasonic/NOTOFIRE/Eaton | |
| 54 | Inverter | Microtek/ Luminous/ Su-Kam/ Eaton | |
| 55 | Isolators | Siemens/ L&T/ ABB/Socomec/ Schneider/ C&S electric/Anchor/ Panasonic/Havells/HPL/Indo Asian/Polycab | |
| 56 | Jointing Kit | Reychem/ Xicon/ Birla-3M | |
| 57 | LED Light Fixtures and Lamps | Philips/ Wipro/ Trilux/ Havells/ C&S electric/Lege/ Crompton/ Matador/Panasonic/Jaguar/HPL/Polycab/BENTEC/BENLO/Surya | |
| 58 | Lighting for Facade | Philips/ Wipro/ Trilux/ Allurays/RZB/BEGA/ Crompton/Panasonic/ Jaguar/HPL/Polycab/GoldwynLED | |
| 59 | Lightening Arrestors | L&P ELECTRO/ LPI/ Indelec | |
| 60 | LT Panels / Synchronizing Panels/ Capacitor Panels | L&T/ ABB/ Schneider/ Siemens/ Advanced/ SPC Electrotech/ Nitya Electrocontrol/ Amptech/ Consoul/Expert/ Swati Switchgears/ LS Power Control/RP Control/ Global/ASES(Agni Suraksha)/ Havells/Zenya/HPL/ Excel Control System/ Allied Engineers/Indo Asian/ NEC/Prestige Switchgears/Modern Switchgears(India)/Nitya Electro Control/Shalabh/Ultimate Power Control (for LT Panels Only)/Gaurav Energen India/RELEC/Genco Power Switchgears Pvt. Ltd. | |
| 61 | MCBs / RCCB/Isolators / RCBO / Change over switch | Hager/ Havells/ Legrand/ L&T/ Schneider/ ABB/ Siemens/ C&S electric/Anchor/Plaza/Panasonic/HPL/Indo Asian/Polycab/ Shalabh/BENLO/BENTEC/Microtek | |
| 62 | MCCB with Variable Microprocessor based (O/C, S/C, E/F) / Thermo magnetic releases | L&T (D-sine)/ Siemens(3 VL)/ABB (T max)/Schneider/C&S electric/Swati Switchgears/Legrand/ Havells/HPL/Indo Asian | |
| 63 | Measuring Instruments (Analog Meter) | L&T/ AE/ MECO/ Rishabh/ Schneider/HPL | |
| 64 | Measuring Instruments (Digital Type)/ MFM/KWH meter | L&T/ Ducati/ Conzerv/ Secure/ Siemens/ Schneider/ ABB/HPL | |
| 65 | Modular Switches/ Socket outlets and wiring accessories with moulded cover plate | MK (wraparound plus) / Siemens (Delta)/ Legrand (myline)/ L&T (Entice)/ Havells (Crab tree-Athena)/ Anchor (Ronja Plus/Woods)/ Schneider (Opale)/ Wipro (North-West)/ C&S electric/ Goldmedal/ Panasonic(Europa/Vision) /HPL/Indo Asian (Shynora) /Polycab | |
| 66 | MPCB | L&T/ Siemens/ ABB/ Schneider | |
| 67 | MS Conduit | BEC/ AKG/ Steel Kraft/ RMCON/JPC Pipes | |
| 68 | MS Conduit accessories | BEC/ AKG/ Steel Kraft /RMCON/JPC Pipes | |
| 69 | Multi-function Meter | L&T/ ABB / Siemens/ Schneider | |
| 70 | Nurse Call System | Schrack (Schrack Seconet AG) / Ackermann by Honeywell (Honeywell GmbH DE) / Carecom (Carecom Ltd. JPN)/Klimex (Hungary)/Medisystem/ Aditron/Eurotronik/G.Santaras Rauland-Borg/L&T/ Siemens/ Hampton/PES/Ayyo | |

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| 71 | Occupancy Sensors/ Lighting Control System | Phillips/ Schneider/ Legrand/ Wipro/ L&T/ Havells/ Panasonic/HPL |
| 72 | Overload relay & Single phase preventer | ABB/ L&T/ Siemens/ Schneider/Havells/HPL |
| 73 | Package/ Unitised Substation | ABB/ Siemens/ Schneider/ C&S |
| 74 | Panel Accessories | L&T/ Teknik/ Rishabh/ Siemens/ Schneider/HPL |
| 75 | Power Capacitor | L&T/ Meher/ EPCOS/ Siemens/ Schneider/Havells |
| 76 | Programmable timer (self-powered electronic digital) / Astronomer | L&T/ Siemens/ Hager/ Havells/ Legrand/ Schneider |
| 77 | Protective relays (Microprocessor based compatible with PC & PLC) | Siemens/ L&T/ ABB/ Areva/ Schneider |
| 78 | Push Buttons | Siemens/ L&T/ ABB/ Schneider/ C&S/ Teknik |
| 79 | PVC Conduit & Accessories | Clipsal/ Polypack/ BEC/ AKG/ Norpack/ Steel Krafts/ Anchor/ Polycab/ CAP/ ATUL |
| 80 | Relay / Contractors/ Timers / Starters and Control Panel | Siemens/ L&T/ Schneider/ ABB/ C&S electric/ Excel Control System/ Anchor/ Panasonic/HPL |
| 81 | Selector Switch | Siemens/ L&T/ Teknik/ Salzer/ Schneider/ ABB/ Anchor/ Panasonic |
| 82 | Street Light Poles & Light Fixtures – Solar & Conventional | Phillips/ Wipro/ Havells/ Bajaj/ Keselac/ Schreder/ Consoul/ Matador / S S Solar/ Sunvolta/ Surya/ |
| 83 | Surge Diverter | Tercel/ ABB/ Siemens/ Emerson/ Hager/ Phoenix/ Legrand |
| 84 | SCADA & BMS System | Schneider/ L&T/ Honeywell / Siemens/ ABB/ Panasonic/ IPL |
| 85 | Tap-off/ Splitter box | Zinwell/ Novatron/ Catvision |
| 86 | Telephone Tag Block/ Jack Panel/ Face Plate | Krone/ Phoenix/ Wago/ Beldon/ Panduit/ Huwaei/ HPL |
| 87 | Terminal Strip | Connect well/ Phoenix/ WAGO |
| 88 | Termination Kits | Raychem/ Birla/ 3M |
| 89 | Transformer (Oil Type / Dry Type) | ABB/ Siemens/ Kirloskar/ Voltamp/ Areva/ Schneider |
| 90 | Trivector - Meter (Digital type) only for SEB supply | L&T/ Secure meter/ Enercon/ Siemens/ Socomec/ Schneider/HPL |
| 91 | UPS | Emerson (Vertiv)/ Schneider (APC)/ Eaton/ Socomec/ Riello |
| 92 | Variable Frequency Drive | L&T/ Siemens/ Danfoss/ ABB/ Schneider |
| FIRE FIGHTING WORKS | | |
| 1 | Air Release Valve/Air Cushion Tank | Zoloto/ Advance/ Leader/ Audco/ Castle |
| 2 | Alarm valve & Hydraulic (Alarm motor with coupling) | HD fire protect/ TYCO/ VIKING/ Newage |
| 3 | Alternator | Stamford/ Lorey/ Somer/ Kirloskar/ Toyo Denki/ AVK |
| 4 | Ammeter/ Voltmeter/ PF/ kW/ Hz/ meter/ Energy Meter/ Multimeter | As per respective electrical make list |
| 5 | Anchor Fastener | Fischer / Hilti or equivalent/ Wurth |
| 6 | Ball Valves | L&T/ Audco/ Zoloto/ Advance/ Emerald/ KSB/ Leader |
| 7 | Battery | Exide/ AMCO/ Amara Raja/ Panasonic |
| 8 | Butt welded fitting (UL Listed) & accessories | V.S. Forge/ True Forge / DRP-M |
| 9 | Butterfly valves | L&T/ Audco/ Zoloto / Advance/ KSB/ Leader/ Sant |
| 10 | Cable lugs and glands | As per electrical make list |
| 11 | Cables | As per electrical make list |
| 12 | Check Valve/ Foot Valve/ Sluice Valve/ NRV | L&T/ Audco / Zoloto Advance/ KSB/ Leader |
| 13 | Control / Potential / Current Transformer | As per respective electrical make list |

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12/26/2018

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| 14 | Deluge valve/ Solenoid valve/ Spray nozzle | HD / Tyco/Viking |
| 15 | Diesel engine driven pump | Atlas, Leyland/ Cummins/ Perkins/ WILLO/Maher & Patti/ Kirloskar/Amstrong/ Fluid Technology/KSB |
| 16 | ELCD | As per electrical make list |
| 17 | Epoxy Paint | As per Civil Works make list |
| 18 | Fire Buckets | Sales / Munim/ Cease Fire/ Peter Autokin |
| 19 | Fire Extinguisher | Munim / Newage/ Eversafe/ Tyco / Johnson Control / Safeguard/ Sinex/ Kames/Kalp EX |
| 20 | Fire Hydrant/ Valves/ Fire BBL/ Hose Pipes/ Fire Hose Reels/ Fire Man's Axe/ Gun metal short branch pipe 2" to 4" B inlet draw Off connection/ Hose Reel/ Hose reel drum/ Nozzle/ Man's Caps & Chains/ Coupling | Cemfire / Newage/ Munim/ HD/ Tyco/ Safeguard/ Sinex/ Safefire/ Padanga/ Chhatanya/ Fire Hose Pipe/ Kalp EX/ Leader |
| 21 | Fire Pumps | Maher & Patti/ WILLO/ Fluid Tech/ Kirloskar/ Sylen/ HTF / Armstrong Fluid Technology / L&T/ KSB |
| 22 | Electrical Motors | ABB/ Siemens/ Kirloskar/ C&G/ BALDOR/ KSB |
| 23 | Flow Meter | Scientific Equipment Ltd/ System Science/ equivalent |
| 24 | Flow switch | Potter / Top flow/ Durosa/ Viking/ Behn/Honeywell |
| 25 | Foot Valve/ Cast iron/ Gunmetal | Kirloskar / Zoloto/ Advance/ L&T/ Leader |
| 26 | Forged steel fitting & accessories | V.S Forge/ True Forge / DRPM |
| 27 | G clamps | Cidlyth/ WULFTH or equivalent |
| 28 | GI / MS Pipes | Tata/ Jindal/ Besser/ SAIL/ Surya/ Prakash Surya |
| 29 | Gunmetal Valves (Globe Valves) | Aulco / Zoloto/ Advance/ L&T/ Leader |
| 30 | Over Load Relays | As per electrical make list |
| 31 | Pipe coat material (pipe protection) | Pyrocoat / Mulploit / Sales |
| 32 | Pipe Hangers/ Clamps/ Supports | Chilly/ GMGR/ CAMBY/ Hind/ Waco |
| 33 | Power/ auxiliary Contactors | As per electrical make list |
| 34 | Pressure Gauge | Facing / HCBUR/ DDEPC |
| 35 | Pressure Switch | Indkon/ Switzer/ Danos/ Honeywell |
| 36 | Push Buttons/ Indicating lamps LED | As per respective electrical make list |
| 37 | Single Phase Preventer | As per electrical make list |
| 38 | Solenoid valve/ Spray nozzle | HD / Tyco/ Viking/ Honeywell |
| 39 | Sprinkler Heads (Sidewall/ Upright/ Pendant) | Cimrel- Tyco / Viking / HD |
| 40 | Steel flexible extension | Eversafe / Newage/ Tyco/ Viking |
| 41 | Vibration Eliminator | Resistoflex / D'weta / Kanva |
| 42 | Weld Electrodes | Advance/ ESAB/ L&T/ Victor |
| 43 | Pot strainer | Emerald/ VTM/ Rapid Civil/ Leader |
| 44 | Y-Strainer | Zoloto/ Advance/ Emerald/ Advance/ Leader |
| 45 | Rubber Bellows | Resistoflex/ Easyflex/ Kanva |
| 46 | Fire Suppression System/ Gas Flooding System | Tyco/ Newage/ Munim/ Viking/ Fire Tracer/ Fire Tera/ ASI/ ScAgm/ Suresh/ Kames/ Kalp EX |
| 47 | Chem Agent Fire Extinguisher | Kames/ Tyco/ Newage/ VVS/ Bullwell/ Munim/ Safeguard/ Cemfire |

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| FIRE ALARM SYSTEM | | |
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| Note: All fire alarm components/ Panels shall be UL/EN listed & confirm to NFPA standards. | | |
| 1 | Control Cable | RR Cable/ Bonton/ Havells/ Polycab/ Finolex/Grandlay/Svarn/Anchor / LS Cable/KVVS/ RR Kabel/Axelon/SCI |
| 2 | Intelligent Addressable Fire Alarm Panel/Detectors/ Hooters/ Manual Call Point UL Listed/ Talkback/ Control Module/ Monitor Module/ Control relay Module/ Short Ckt. Isolator/ | Honeywell-Notifier/ Siemens/ Apollo/ Schneider/Advanced/ Bosch/ GE Edwards/Tyco / C&S electric/Panasonic/ASES/Agni Suraksha)/BENLO/BENTEC/NOTOFIRE/Eaton |
| 3 | Intelligent Addressable Fire Alarm System | Honeywell-Notifier/ Siemens/ Schneider/ Bosch/ GE Edwards/Tyco/ Advanced/Apollo/Panasonic/ASES (Agni Suraksha)/ NOTOFIRE/Eaton |
| 4 | Response Indicator | Morlay/Scimens Finder/ GE Edwards/ Honeywell-Notifier/ Advanced/Apollo/Panasonic/ NOTOFIRE/Eaton |
| 5 | Fire Survival Cable Specification UL 2196 1010 degree celcius | Bonton/ Skytone/ Fusion Polymers/KEI/nvent/Svarn/Anchor/KVVS/ NOTOFIRE |
| 6 | Fire Annunciation Panel | Minilec/ Honeywell-Notifier/ Siemens/ Tyco - Simplex /Advanced/Apollo/ NOTOFIRE/Eaton |
| 7 | Panic Button | Eureka Forbes/ Fire Pro / Tyco/ Advanced/Apollo/ NOTOFIRE |
| 8 | Photo Chromatic Switch | Bajaj/ Wipro/Phillips/L&T |
| 9 | Splitter Box | Shyam Antenna/ CAT vision or equivalent |
| 10 | Termination Control Cable | Dowell's/ Elemex/ Wago/ Phoenix |
| LIFTS | | |
| 1 | Lifts | OTIS/ Kone / Mitsubishi/ Schindler/ Johnson Lifts Pvt. Ltd./Omega /TRIO |
| LV System/ PA System/ CCTV System/ Access Control System/ Door Interlocking System | | |
| 1 | Door Controller, Card Reader, Biometric Reader, Access Control server Software, Smart card | Honeywell/ GE/Bosch/IHD/ Lenel |
| 2 | E Magnetic lock | Cisa/Faraday/Trimec |
| 3 | Amplifier | Bosch/ Honeywell/Bose /Ahuja/Heinrich/Ayzo |
| 4 | CAT 6A Wire/Accessories -Jack panel / Face Plate | Huawei/ Belden / Panduit/ CommScope/ Simone / Legrand / Ramcro /Heinrich/Panasonic /Bonton/KVVS/Polycab |
| 5 | CCTV Camera/ NVR/ Central Monitoring Software / Other Items | Honeywell / Pelco /Cisco /Bosch/ GE/ Axis/ Sony/Birdseye/Heinrich / Panasonic/Oncom Wavesys/Impulse |
| 6 | CD Player | Bosch/ Honeywell/Bose |
| 7 | Door Interlocking System | NRH/Eltech/Avon or equivalent |
| 8 | PA Speaker, Voice controller, paging station, Microphone | Bosch/Ahuja / Honeywell/Bose/Heinrich/Ayzo |
| 9 | RG 6, RG 11/Wire/Coaxial Cables | Belden/Skytone/ Bonton/ Finolex/Anchor /Plaza cables/KVVS/ RR Kabel/Polycab/Microtek |
| 10 | Speaker Wire | Bonton/Delton/Polycab/ Ramcro/Heinrich/Anchor/ RR Kabel /Ayzo/Microtek |
| 11 | Data Storage device | Quantum/ HP/ DELL/ IBM |
| HVAC SYSTEM | | |
| 1 | 2-Way Pressure Independent Balancing & Control Valve | Siemens/ Danfoss/Oventrop /Belimo |
| 2 | Adhesives for Insulation | Pidilite/Superlon / Armacell/ Mapei |
| 3 | Adjustable Frequency Drive/ Automatic AFD Bypass / Pump Controller/ Differential Pressure Sensor/ Transmitter | Xylem-ITT/Grundfos/Armstrong/Omicron or as per OEMs/KSB |
| 4 | Air cooled package units | Voltas/ Bluestar/HITACHI/ or equivalent |
| 5 | Air & Dirt Separator/Dirt Separator | Spirotech/ Calefi/ Optivent/Spirotherm/Flanco/Armstrong |

(PAWAN VERMA)
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Building Cell

14/26/17
Sahaj K. Srivastava
S.E. Bldg Cell-1

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|----|--|--|--|
| 6 | Air Distribution (Ducting) -GI/GSS Sheets | SAIL / TATA Steel/ Jindal-Hissar | |
| 7 | Air Handling Units with Coils etc. | Zeco/ Edgetech/VTS/ Waves/Flaktwood | |
| 8 | Air washer | Zeco/ Waves/ Edgetech/ VTS/Humidin/Air Flow | |
| 9 | Aluminium Sheet for Ducts | Jindal/ Hindalco/ Indal | |
| 10 | Automatic Air Vent | Anergy / Rapid Cool/Emerald/CIM | |
| 11 | Axial Flow Fans | Kruger / Systemair /Greenheck/ Wolter/Nicotra/Air Flow | |
| 12 | Balancing Valves (Water Duty) | Advance / Audco/L&T/Honeywell/Danfoss/Belimo/Leader | |
| 13 | Ball valves (With & W/O Strainers) | Audco /KSB/Advance/ L&T /Zoloto/Leader/Sant | |
| 14 | Butterfly Valves (Water Duty) | Advance / Audco/ L&T/Zoloto/KSB/Leader/Sant | |
| 15 | Cable Lugs/Thimbles/Glands | As per Approved Makes of Electrical Works | |
| 16 | Cable Tray | As per Approved Makes of Electrical Works | |
| 17 | CAV Box/VAV Box | Trox/ System Air / Ruskin Titus / Honeywell/ Johnson's Control/ Belimo | |
| 18 | Centrifugal Fans/Fan section/Plug Fans | Kruger / Greenheck /Cornefri/ Wolter/ Nicotra/Systemair/Air Flow | |
| 19 | Check Valve/Foot Valve/Sluice Valve/NRV | Advance / Audco/ L&T/Zoloto/KSB/Leader | |
| 20 | Chilled Water Pump (Primary/Secondary)/ Condenser/Hot Water Pumps etc. | Armstrong /Grundfoss/Xylem -ITT/Orion/KSB | |
| 21 | Control Cables | As per Electrical Makes | |
| 22 | Cooling Tower | Bell / Paharpur/Flowtech/Nihon Spindle | |
| 23 | CPRX Compound/Tar felt | Shalimar tar product / Asian / Pidilite | |
| 24 | DRY Scrubber | Rydair/ Trion/ Honeywell | |
| 25 | Duct Dampers/ Grills/ Diffuser/ VCD/ Collar Damper etc. | Caryaire /Systemair/ Conaire/ Dynacraft/Airflow (Mapro) | |
| 26 | Electric Motor | ABB/ Siemens/ Crompton Greaves /BALDOR | |
| 27 | Electric motor (Fire Rated) | Marathon/ Havells-Lafert/ Baldor/ROTOMOTIVE | |
| 28 | Expansion Tank | Xylem-ITT/ Armstrong/ Grundfos /Flamco/KSB | |
| 29 | Factory Fabricated Duct & Flanges | Rolastar / Zeco / Ductofab / Technofab/GPS Spiro | |
| 30 | Fan Coil Units with Fans | VTS/Flaktwood/Daikin/Carrier/Johnson Control | |
| 31 | Fasteners-Dash | HILTI / Fischer / Cannon / Wurth | |
| 32 | FCU Copper Connection Set/ FCU Link | ATS/ Oventrop/ CSI | |
| 33 | Filters -Pre/ Fine/ Hepa & BIBO | Thermadyne / Spectrum/ Camfil/ American Air Filter | |
| 34 | Fire Damper Actuator | Belimo/Siemens/Danfoss/Honeywell | |
| 35 | Fire Dampers / Smoke Dampers | Trox/ Greenheck/Ruskin Titus/Systemair/Air Flow | |
| 36 | Flexible Duct Connection | Airflow/Pyroguard / Rolastar/ UP Twiga | |
| 37 | Flexible Pipe Connection | Resistoflex/ Easyflex/ Diamond/ Dunlop | |
| 38 | FRP lining for condenser piping | Owen-corning/UP Twiga/Binani | |
| 39 | GI/ MS Piping (chilled/condenser/drain/hot) | Jindal-Hissar/TATA/SAIL/Prakash Surya | |
| 40 | Globe/Gate Valve | Audco / Advance / Danfoss/L&T/KSB/Zoloto/Leader/Sant | |
| 41 | Heat Recovery Exchanger/Ventilator/ Wheel | Ostberg/DRI / Flaktwoods/ Heatex/ BryAir/NCL-VEKA | |
| 42 | Hot Water Generators | KEPL / Rapid cool/ Emerald/Enmax | |
| 43 | Humidifier | KEPL / Rapid cool/ Emerald /Enmax | |
| 44 | Inline Fans | Kruger / Nicotra/ Greenheck/ Ostberg/Air Flow | |
| 45 | Insulation Material | | |

B. Jee

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Superintending Engineer
Encl. 1
PWS

15/26 |
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S.E. Eddy Cell- I

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|----|--|---|------------------|
| 46 | a) Fiber Glass – Aluminium faced Insulation | UP Twiga / Owens Corning/Kimmco | |
| 47 | b) Polyurethane Foam (PUF) Insulation | Styrene Packaging & Insulations/Lloyd Insulations/Supreme | |
| 48 | c) Nitrile Rubber /EPDM Insulation with antimicrobial | K-Flex/Superlon/Armacell/Supreme/ALP AeroFlex India Pvt. Ltd /Hira Technologies Pvt. Ltd. | |
| 49 | d) XLPE Insulation | Supreme/ Vidoflex/ Trocellene/Narendra Flexi Pack Co. Pvt. Ltd.(Safari)/Hira Technologies Pvt. Ltd. | |
| 50 | e) Expanded Polystyrene Insulation | Styrene Packing/MetturBeardsell/ Toshiba/Trocellin/ Thermobreak/ Mapei | |
| 51 | Laminar Flow HEPA tent | Systemair/TROX/American Air Filter/ Conaire/Thermax | madyne/Airtech |
| 52 | Magnehelic Gauges | Mithraus Instruments/ Dwyer / Omicron | |
| 53 | Paints | As per Civil Works Makes | |
| 54 | Pre insulated Ducts | Pal/Zeco/ ALP/ Kingspan/ Spiro / UP Twiga | |
| 55 | Pipe Supports | EASYFLEX/ResistoFlex/Diamond | |
| 56 | Pipe Supports-PUF | Llyod insulation/ Melanpur/ Beardsell | |
| 57 | Power Cables | Finolex/Polycab/KEI/NEC/Havells/Grandlay/Svarn Kabel/Axelon/SCI | Plaza cables/ RR |
| 58 | Pressure /Temperature Gauges | H.Guru / Feibig / Warree/H.D/BRC | |
| 59 | Propeller Fans | Crompton/ Khaitan/ Alstom/ Bajaj/GE/Polycab | |
| 60 | Thermostat /Humidistat | Honeywell / Johnson / Siemens /Schneider | |
| 61 | Purge Valve/ Drain Valve | Audco/Advance / Anergy/Zoloto/Leader | |
| 62 | PVC /uPVC pipe | Polypack/Supreme/Astral/Finolex/TruFlow(Hindwa e)/Sentini Flopipes/Prakash Surya/AKG | |
| 63 | Red Oxide/ Zinc Chromate Primer | As per Civil Works Makes | |
| 64 | Refrigerant Copper Pipes | MANDEV Tubes/Rajco Metal/Mehla Tubes (Max Flow)/Kwality Tubes (Raj State) | |
| 65 | Room Thermostat | Honeywell/ Johnson/ Siemens/ Schneider | |
| 66 | RP Tissue | UP Twiga/ Styrene Packing or equivalent | |
| 67 | Split AC Units /Precision AC | Toshiba/Daikin/ Hitachi/ Carrier/LG/Hitachi | |
| 68 | | As per respective Electrical Makes | |
| 69 | Strip Heater | Das Pass/ Escorts/KEPL or equivalent | |
| 70 | UV & Weather protective Coating | Pidilite/ Foster/ Amicon/ Mapei | |
| 71 | UVGI System (Ultra Violet Germicidal- Irradiation System) | Ruks/ Trimed/Sterile Air | |
| 72 | V Belt | Dunlop/ Fenner/ Hilton | |
| 73 | Vacuum Degasser | Spirotech/ Optivent/ Calefi/ Comfort/Spirotherm/Flanco | |
| 74 | Variable Frequency Drive | Siemens/Danfoss/ABB/ Schneider/ L&T | |
| 75 | VRV/ VRF Outdoor/ Indoor Units/ Refnet Joints/Remote Controllers | Mitsubishi Electric/ Daikin/ Toshiba/ Panasonic/Carrier/LG/Hitachi | |
| 76 | Chillers | Daikin-Mcquay/ Carrier / Trane / York/Dunhambus/LG/Hitachi | |
| 77 | Water Flow Switch | Honeywell/ Danfoss/ Belimo/ Emerald/ Rapid Cool | |
| 78 | Vibration Isolators | Easyflex/kamwa/ResistoFlex | |
| 79 | Air Ionizers/ Air Purification System | Plama Air/ Aeris/ Bentaxna/ RGF/Aquaair | |
| 80 | Por Strainer | Emerald/ VTM/ Rapid Cool/Leader | |
| 81 | Y- Strainer | Zoloto/Audco /Emerald/ Rapid cool/ Advance/Leader | |
| 82 | Chilled Water Cassette Unit | Carrier/TRANE/Daikin/Johnson Control | |
| 83 | Motorized Butterfly Valve | Honeywell/Belimo/Danfoss/Siemens/Leader | |

(PAWAN VERMA)
Superintending Engineer
Building-Cell

Sagay K. Srinivasa
SSE, Bldg Cell- I

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| IBMS SYSTEM | | |
|----------------------------------|--|--|
| 1 | Operator Workstation | Dell/Lenovo/HP/IBM |
| 2 | Printer | Canon/Xerox/HP/Epson |
| 3 | Network Switch | Cisco/D-Link/HIP/Allied Telesis |
| 4 | Capacitive Touch Panel | Siemens/Honeywell/Schneider/ALC |
| 5 | BMS Software | Siemens/ Schneider/L&T/Honeywell |
| 6 | System Integration Units | Siemens/ Schneider/Johnson Controls/Delta Electronics |
| 7 | Direct Digital Controller | Honeywell/Siemens/Schneider/L&T |
| 8 | Immersion Temperature Sensor RTD | Greystone / Honeywell / Siemens / Schneider / Danfoss/L&T/Omicron |
| 9 | Outside Air Temperature+ Humidity Sensors | Greystone / Honeywell / Siemens / Schneider / L&T/Omicron |
| 10 | Ultrasonic Waterflow meter | Kampstrup/Landis+Gyr/Shenitech/Siemens/ Honeywell |
| 11 | Differential Pressure Switches for Air/ Water | Greystone / Honeywell / Siemens / Schneider / L&T/Kele/ALC |
| 12 | Water Flow Switch | Greystone/Honeywell/Siemens/Schneider/ L&T/Weksler/Danfoss |
| 13 | DP Sensor for Water | Honeywell / Siemens / Schneider / L&T |
| 14 | pH Analyser | Hach/Omicron/Forbes Marshall |
| 15 | TDS Analyser | Hach/Omicron/Forbes Marshall |
| 16 | DP Switch for Filter Status | Honeywell / Siemens / Schneider / L&T |
| 17 | Air/ Water Sensors / Switches / Pressure transmitters/Differential Pressure Switch Air/ Water /Differential Pressure Transmitter | Greystone / Honeywell / Siemens / Schneider / Danfoss/L&T/Omicron |
| 18 | Colour Monitor | LG/Samsung/Sony/Phillips |
| 19 | Communication Cables/Signal Cable | Delton/Fusion Polymer/Skytone/Finolex/ Plaza cables/ RR Kabel/ Polygab |
| 20 | Copper Conductor Control Cable | Same as per Electrical make list |
| 21 | Current Relay | Same as per Electrical make list |
| 22 | Duct Mounted Temperature + RH sensor/ Duct Temperature Sensor | Greystone / Honeywell / Siemens / Schneider / Danfoss/L&T/Omicron |
| 23 | Level Switch / Level Transmitter | Honeywell / Dwyer/ Radix/ Wexler/Omicron |
| 24 | Flow & BTU Meter | Shenitech / Honeywell / Kampstrup/Omicron |
| 25 | GI Conduits | Same as per Electrical make list |
| 26 | LAN cables for BMS Network | Same as per Electrical/LV make list |
| 27 | MS Conduits | Same as per Electrical make list |
| 28 | Sensor- CO2/ CO / PH / TDS | Honeywell / Hach / Greisinger/Omicron |
| 29 | PVC Conduits | Same as per Electrical make list |
| 30 | Voltage / Current / Power Factor Transducer | L&T / Siemens / Schneider/Omicron |
| SEWAGE/ EFFLUENT TREATMENT PLANT | | |
| 1 | Air Blowers | Beta/ Everest/ Kulkarni / TMVT |
| 2 | Air Diffusion System | Airfin/Usha Ruba/Rehau |
| 3 | Air Vent Valve | Oven trop (Germany) / CIM / Rapid Control/Leader |
| 4 | Anti-Corrosive Tape for Pipe protection | Pypcoat / Marphalt / Cotel/STP |
| 5 | Ball Valve | Zoloto/Honeywell/RB/Leader/Sant |
| 6 | Bar Screen | KSP/AWMS/PAMM |
| 7 | Blowers | Kay / airvac /Everest |
| 8 | Butterfly valves | Zoloto/Audco/Kirloskar/AIP/Advance/Leader/Sant |

(PAWAN VERMA)
Superintending Engineer
Building

Sanjay Kr. Srivastava
S.E. Bldg Cell- I

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| 9 | Centrifuge | Apollo/United/B.A Engineering |
| 10 | Check Valve – Dual Plate | Advance/Honeywell/Audco/Zoloto/Leader |
| 11 | Check Valve – Wafer Type | Advance/Danfoss/Zoloto/Honeywell/Leader |
| 12 | Chemical Cleaning Pump | WILO / DP/Grundfos/Xylem/KSB |
| 13 | Chemical Cleaning tank | Polycon / Sintex/Vectus |
| 14 | Chemical Dosing system | Asia LMI/ Seiko/ E – Dose/ Grundfos |
| 15 | Dosing Pump | Grundfos / Asia LMI / E-dose / Prominent |
| 16 | Electrical Panel | As per electrical MAKE LIST |
| 17 | Epoxy Paint & Paint | Berger / J&N / Asian |
| 18 | F.R.P Vessel | Pentair / Aventura /Thermax |
| 19 | Flow Meter (Digital) | Aster (Totalized) / VATS /Scientific |
| 20 | Flow Rota Meter for Suction Pump | UKL / Aster /Scientific |
| 21 | Foot Valve | Kirloskar/ Kalpana /Leader/BDK |
| 22 | G.I. fittings (malleable cast iron) | Unik/ Jain Sons/Zoloto /DRP |
| 23 | G.I. Pipes/M.S. Pipe | Tata Steel / Jindal / SAIL/Prakash Surya |
| 24 | High pressure feed pump. | WILO / DP/Grundfos/Xylem/KSB |
| 25 | Level Controller | Aster/Cirrus Engineering/Rockwell Automation |
| 26 | Level Indicator | Aster/Cirrus Engineering/Rockwell Automation |
| 27 | Level Switch | Aster/Cirrus Engineering/Rockwell Automation |
| 28 | MBR Module | G.E/Siemens/Mitsubishi |
| 29 | MBR Permeate Suction Pump | WILO / DP/Grundfos/Xylem/KSB |
| 30 | Media | Cooldeck/Usha Ruba/MM Aqua/Pharmatech |
| 31 | Motor | Siemens/Crompton & Greaves/ ABB |
| 32 | MSEP Vessel | As per Manufacturer's standard |
| 33 | Multiport Valve | Pharor (U.S.A)/ ORG/Astar |
| 34 | Non return valve | Zoloto/Honeywell/RB |
| 35 | PH Meter | VATS / Hanna/Aster/digital |
| 36 | Pipe clamp & supports | Chilly/Euroclamp/Kanwal |
| 37 | PLC / HMI | Schneider / Allen bradley /Mitsubishi |
| 38 | Pressure Gauges | Warec / H Guru /Fiebeg/Omicron |
| 39 | Pressure Switch | Danfoss / Indfoss / Switzer |
| 40 | Pump Sets i/c Water transfer and sludge disposal/transfer pump | WILO / DP/Grundfos/Xylem/KSB |
| 41 | Resin | Thermax / Ion Exchange/Auchtel |
| 42 | Semi Auto Fine Screen | Toro/KSP / AWMS/PAMM |
| 43 | Sewage & Drainage Submersible Pumps | WILO / DP/Grundfos/Xylem/KSB |
| 44 | Sewage Feed pump | WILO / DP/Grundfos/Xylem/KSB |
| 45 | Strainers | Emerald / Zoloto / Maharaja Casting/Leader |
| 46 | Transfer Pumps | WILO / DP/Grundfos/Xylem/KSB |
| 47 | UV Systems | Alpha UV/ Creative UV/ Pentair/Eureka Forbes |
| 48 | VFD | Danfoss/Allen Bredly/Siemens/ABB/KSB |
| 49 | Vibration Eliminator / Anti vibration Mounting | Resistoflex / Kanwal /Banco/Dunlop |
| 50 | Water Meter | As per Plumbing & Sanitary make list |
| 51 | Y Strainer | Leader/Zoloto/ Audco/ Castle/Emerald/ Rapid cool |

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(PAWAN VERMA)
Superintending Engineer
Building Cell
PWD, Lucknow

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Sd/- Bldg Cell-1

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| IPABX & TELEPHONE SYSTEMS | | |
|---|--|--|
| 1 | Data/ Telephone cable (2/4 /10 / 20/ 50/ 100 PAIR CABLES) | DELTON/ FINOLEX/ Polycab/ Bonton/ Legrand/ Plaza cables/ KVVVS |
| 2 | Digital/ANALOG PHONES/ Handsets/ IP phones | /IMW Kabel/ RR Kabel/APAR/Microtek BEETEL/ PANASONIC/ SIEMENS/ ALCATEL/ CISCO |
| 3 | IPABX Server and Gateways | ALCATEL/ MATRIX/ AVAYA/ CISCO/ SIEMENS/ NORTEL |
| 4 | MDF/IDF | KRONE/ TVS/ FINOLEX |
| 5 | Telephone tag block/Jack Panel/ Face Plate | Krone/ Phoenix/ Wago/ Belden/ Panduit/ Huawei/ Legrand/Amp |
| 6 | VOICE BOX – RJ11 | KRONE/ TVS/ FINOLEX |
| DATA NETWORKING & WIFI SYSTEM | | |
| 1 | Active Components – Core and Edge switch | CISCO/ Juniper/HP/ ALCATEL/DERWISER |
| 2 | Enclosures – Distribution rack and server rack | APW/ Netrack / Rittal / Legrand/MTS/DERWISER |
| 3 | Ethernet Switch / Indoor & Outdoor WIFI device/ Trans receivers | CISCO/ JUNIPER/HP/ALCATEL/DERWISER |
| 4 | Routers | ALCATEL/ AVAYA/ CISCO/HP/JUNIPER/DERWISER |
| 5 | Server | IBM / Dell/ HP/CISCO/DERWISER |
| 6 | Firewall | CISCO/ Juniper/HP/Fortinet/Palo Alto/DERWISER |
| 7 | Passive Components – Cat 6/Cat 6A/ Patch panel/ Patch Cord/ Information outlets/ Optical fiber Cable/ Fiber patch cord/ pigtailed/ LIU/ Adapters/ Connectors | Amp/Belden/Simone/Panduit/Legrand/CISCO/R&M/Polycab/APAR/ DERWISER |
| Audio Visual System & Stage Lighting System for Auditorium & Conference Rooms | | |
| 1 | Symmetrical Line Array Speakers, Flying Subwoofers, Loudspeakers, Power Amplifier, Digital Sound Processor, Digital Mixing Console, Microphone, Loudspeaker Cables | L-Acoustics/ Bose/ Martin-Audio/ Labgruppen/ Powersoft |
| 2 | DVD cum USB Player | Sony/ Philips/ Samsung/ Bose |
| 3 | Equipment Rack | Rittal/ Netrack/ Cisco/MTS/APW/ Swati Switchgears |
| 4 | PVC Conduits & Raceways | AKG/BEC/ Hensal/ Clipsal/ Polypack/ Precision |
| 5 | LED Dimmable Lights | Philips/Wipro/Havells/Lutron/Trilux/Jaguar/Mataador/ Jaquar/ Polycab |
| 6 | LED Signage Board | Wipro/ Philips/ Bajaj/Instapower/Decon/ Mataador |
| 7 | Video Projector | Christie/ Sony/ Panasonic/Philips |
| 8 | Projection Screen | Draper/ Da-Lite/ Grandview/ Harkness |
| 9 | LED Display Monitors | L.G/ Sony/ Panasonic/ Philips/Samsung |
| 10 | Video Conferencing Unit | Sony/ Polycom/ Palco/ Cisco |
| 11 | HD PTZ Camera, Joystick | Sony/ Panasonic/ Palco/Cisco/Bosch |
| 12 | Optical Fibre Cable | Extron/ Crestron/ Kramer/Amp/Belden/R&M/APAR |
| 13 | HDMI / VGA Cable | Kramer/ Belden/ Klotz |
| 14 | Stage Lighting – Spot Light, Par Light, Flood Light, Dimmer pack, Lighting Console, Splitter, Lamp prism with moving head, | Canara Lighting/ Effectron/ Stage Technologies/BENTEC/BENLO/SURYA/ Namaste LED |
| 15 | Junction Box | ABB/L&T/Havells/Schneider/Legrand/AKG |
| 16 | Curtain Control Panels, Remote Control | Canara Lighting/ Effectron/ Stage Technologies |

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Building-Cell

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S.E. Bldg Cell- 1

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| 17 | RGY Laser | |
| 18 | Fog Machine, Metal gobos | CT Lasers/ Canara Lighting/ Laser World |
| 19 | Fire Retardant Curtain, Plastic cyclorama screen | Antari/ Canara Lighting/ Robe |
| 20 | Lamps | Omplic/ Raymond/ Mayur |
| 21 | DMX Signal Cable for DMX Network | Osram/ Philips/ GE/ Wipro/ Surya |
| | | Falcon/ Beldon/ Polycab/ Finolex/Svayam |
| Solid Waste Management System | | |
| 1 | Integrated Sterilizer with Shredder | Celitron / Ecodas / Cisa/Cecon |
| 2 | Organic Waste Converter | ENVicare Soln. Pvt. Ltd/Excel Industries Ltd/Greenvironindia/Cecon |

Approved Make - MGPS System

| Sl. No. | Description /Items | Approved makes |
|---------|---|---|
| 1 | LMO Tank (20KL Primary Supply and 10KL Backup Supply) | Linde / Prax Air / Inox / VRV/PES/Prenit World |
| 2 | Secondary Oxygen Manifold and Emergency oxygen manifold with automatic control panels | Manifold: Aktiv/Sigma/ Hmp/Nsp/G Samaras / GHL / S Kumar/Prenit/MR/ Atlas Copco / Amico / Ohio Medical / Pneumatik berlin/Reanimed/ Pneumatech Medical gas solution/ MDD/Meditek/Gentec/PES/Prenit World Automatic Control Panel: Beacon Medaes/ Delta P / G Samaras / MPS / Acare / Aktiv / MR/ Atlas Copco / Amico/Ohio Medical / Pneumatik berlin/Reanimed/ Pneumatech Medical gas solution/ MDD/Meditek/Gentec/PES/Prenit World |
| 3 | Oxygen Flow meter with Humidifier Bottle | Atlas Copco / Amico / Ohio Medical / Pneumatik berlin/ Reanimed/ Aktiv / Nsp / Sigma / Safex / Acare / MR / S Kumar / G Samaras / Hersill/ Technologie Medicale/ MDD/Meditek /Gentec/PES/Invoke Medical System/Prenit World |
| 4 | Nitrous Oxide Manifold and Emergency NO2 Manifold with automatic control panel | Manifold: Aktiv/Sigma/ Hmp/Nsp/G Samaras / GHL / S Kumar/Prenit/MR/ Atlas Copco / Amico / Ohio Medical / Pneumatik berlin/ Reanimed/ Pneumatech Medical gas solution/ MDD/Meditek/Gentec/PES /Prenit World Automatic Control Panel: Beacon Medaes/ Delta P / G Samaras / MPS / Acare / Aktiv / MR/ Atlas Copco / Amico/Ohio Medical / Pneumatik berlin/ Reanimed/ Pneumatech Medical gas solution/ MDD/Meditek/Gentec/PES/Prenit World |
| 5 | Co2 Manifold and Emergency Co2 Manifold with automatic control panel | Manifold: Aktiv/Sigma/ Hmp/Nsp/G Samaras / GHL / S Kumar/Prenit/MR/ Atlas Copco / Amico / Ohio Medical / Pneumatik berlin/ Reanimed/ Pneumatech Medical gas solution/ MDD/Meditek/Gentec/PES/Prenit World Automatic Control Panel: Beacon Medaes/ Delta P / G Samaras / MPS / Acare / Aktiv / MR/ Atlas Copco / Amico/Ohio Medical / Pneumatik berlin/ Reanimed/ Pneumatech Medical gas solution/ MDD/Meditek/Gentec/PES/Prenit World |
| 6 | Medical Air Supply System (4 Bar & 7 Bar) complete. | Powerex/ Atlas Copco / Amico / Ohio Medical /Pneumatik berlin/ Anest I Wata/ Medical Technologies / Kaiser / G Samaras / Hitachi / Alup / FS-Curtis / Anestiwata / Alup/MDD/ Pneumatech Medical Gas Solutions/Meditek/Gentec/PES/Prenit World |
| 7 | Medical Vacuum (suction) Supply System Complete. | Powerex/ Atlas Copco / Amico / Ohio Medical /Pneumatik berlin/Anest Iwata/ G Samaras / Linde / Gentech / Becker / IR /Elgi/ FS-Curtis / Garden Denver/ MDD/Pneumatech Medical Gas Solutions/Meditek/Gentec/PES/Prenit World |

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Superintendent
Building

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S.R. Bldg Cell-1

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| | | | |
|--|---|--|-------------------------|
| 8 | Vacuum Units (Ward/Theaters/Lowflow) | Atlas Copco / Amico / Ohio Medical / Pneumatik / Reanimed/ Aktiv / Nsp / Sigma / Safex / Acare / G Samaras / Hersill / Prenit/ Pneumatech Medical MDD/Meditek/Gentec/PES/Prenit World | berlin/ gas solution/ |
| 9 | AGSS system Complete | Powerex/ Atlas Copco / Amico / Ohio Medical / Reanimed/ G Samaras / Gentec / Garden Denver/ Pneumatech Medical Gas Solutions/Meditek/Gentec/PES/Prenit World | pneumatik berlin/ Ahup/ |
| 10 | Distribution Piping Complete with Accessories. | Copper Pipe : Rajco / Metal Alloys (Metalco)/ Metalco / Rajco Tubes/Meditek/Gentec Fittings : Conex Banninger/ Ranco/PES/Prenit World | Maxflow / Mandev / |
| 11 | Gas Outlets with Probes | Atlas Copco / Amico / Ohio Medical / Pneumatik / Acare / G Samaras / Linde / Meizo / Allied/Reanimed/ MDD/ Pneumatech Medical Gas Solutions/Meditek/Gentec/PES/Invoke Medical System/Prenit World | berlin/Prenit |
| 12 | Area Valve Service System & Line Isolation Valve | Atlas Copco / Amico / Ohio Medical / Pneumatik / Reanimed/ G Samaras / Acare / Linde / Inox / Draeger/ MDD/ Pneumatech Medical Gas Solutions/Meditek /Gentec/PES/Prenit World | berlin/ |
| 13 | Alarm Systems (Master & Area) | Atlas Copco / Amico / Ohio Medical / Pneumatik / Reanimed/ G Samaras / Acare / Linde / Inox / Draeger/ MDD/ Pneumatech Medical Gas Solutions/Meditek/Gentec /PES/Invoke Medical System/Prenit World | berlin/ |
| 14 | Bed Head Panels (Vertical & Horizontal) | MPS/ PES/ Prenit/ MDD/ Active/ Eubiq / Medical Beacon Medaes /TLV Europe / Janak / Eubiq /Aktiv/ Meizo / Prenit / G Samaras / Acare/ LM Medical/ Meditek/Gentec/PES/Invoke Medical System/Prenit World | Medical Systems/ |
| 15 | High pressure tubes for O2, N2O, CO2, AGSS, Compressed Air & Vacuum, Etc. | Atlas Copco / Amico / Ohio Medical / Pneumatik / Freshe/ Allied Medical / Nsp / Aktiv / Sigma / Prenit World / S Kumar / G Samaras / Meizo/ MDD/Technologie Medicale/ Meditek /Gentec/PES/Prenit World | berlin/ Med |
| 16 | Gas Cylinders | Everest Kanto / Suraj-Impex/ Rama Cylinders / BPCL (BIS Approved Only) /PES/Prenit World | |
| Note: | | | |
| 1. The contractor will use one of the approved makes as approved by the Engineer - in-charge. | | | |
| 2. In case of different quality / pattern of same make, the pattern/ quality shall be approved Engineer - in - charge. | | | |

| List of Approved Makes for MOT | | | |
|--------------------------------|--|--|--|
| 1 | Wall Paneling System | Danmedics / Axis Medical / Draeger / Medifa / Pneumatic / G Samaras / Amico/ MDD/ Nexor/Meditek/Sonnemed/PES/Invoke Medical System/Prenit World | |
| 2 | Ceiling Paneling System | Danmedics / Axis Medical / Draeger / Medifa / Pneumatic / G Samaras / Amico/ MDD/ Nexor/Meditek/Sonnemed/PES/Invoke Medical System/Prenit World | |
| 3 | Laminar Air Flow System | Filters : AAF/ MR / Meizo / Pulse / Aktiv / Prenit / MPS / MDD/ Med Freshe/Meditek/Sonnemed/PES/Invoke Medical System/Prenit World | |
| 4 | Internal HVAC Ducting & Exhaust System | Al Sheet: Hindalco/TATA/Jindal/Balco/MDD/Meditek/Sonnemed /PES | |
| 5 | PVC Flooring | Gerflor/ Tarkett/ LG / Armstrong/Meditek/Sonnemed/PES/Prenit World | |
| 6 | Hermetically Sealed Doors | Metaflex/ Altos / Meizo/ MPS/ MDD/Meditek/Sonnemed/PES/Prenit World/Acador | |
| 7 | OT Pendants (Anesthetist & Surgeon) | LM Medical/Ondal/Maque/PneumatikBerlin/ Stryker/ Trumpf / Medifa / G Samaras / Danmedics / Medical Technologies/ MDD/Meditek/Sonnemed/PES/Invoke Medical System/Prenit World | |

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| 8. | Peripheral lighting & Clean room luminaries | Philips/Wipro/Osram/Siska/Samsung/Aditron/MDD/ Meditek/ Sonnemed/Meditek/Sonnemed/PES/Invoke Medical System/Prenit World |
| 9. | Isolation Panel System (IPS) | Starstorm/ L M Medical / Bender/ Schneider / Pico / Aditron / G Samaras/ MDD/Meditek/Sonnemed/PES/Prenit World |
| 10. | Online UPS | APC/Tata Libert/Hitachi/Consul/Neowatt/ Delta/3EMPower/ Uniline/ MDD/Meditek/Sonnemed/PES/Prenit World |
| 11. | Medical Gas Lines Installations | Copper Pipe: Mehta Tube (Mexflow)/ Rajco/ Metal Alloys (Metalco)/ Mandev Fittings : Conex Banninger/ Meditek/ Sonnemed/PES/Invoke Medical System/ JK Engineering Works/Prenit World |
| 12. | OT Light with camera | Steris/ Amico / Maquet/ Stryker/ Danmedics / Trumpf / Dr Mach/ Cognate / MDD/Meditek/Sonnemed/PES/Invoke Medical System/Ilospedia Medicare/Prenit World |
| 13. | HD monitors, PACS Monitor and recorders | Sony / Advantech / Barco / FSN/ Cognate / MDD/ Meditek/Sonnemed/PES/TEAC (for recorder) Rein Medical |
| 14. | MOT Integration for 6 OTs | Prenit World Karl Storz/ Stryker /Olympus /Maquet/ Conmed/ Advantech / Danmedics/ Cognate / MDD/ Rein Medical/Meditek /Sonnemed/PES/Invoke Medical System |

LIST OF APPROVED MAKES FOR CSSD

| | | |
|---|--|--|
| 1 | Double Door Steam Sterilizer | Cisa/Sumer/Mediqua/Natsteel/Periclave/Getinge/ Steris/ Belimed/ Cognate / MDD/ Eryigit/Meditek/Steam/ Genist Technocracy Pvt. Ltd./Labco/Tuttnauer/Shinva |
| 2 | Low Temperature Steam Formaldehyde (LTSF) | Cisa/Sumer/Mediqua/Natsteel/Periclave/Getinge/ Steris/ Belimed/ Cognate / MDD/ Eryigit/Meditek/Steam/ Genist Technocracy Pvt. Ltd. |
| 3 | Sterilizer washer disinfectant combo machine | Cisa/Sumer/Mediqua/Natsteel/Periclave/Getinge/ Steris/ Belimed/ Cognate / MDD/ Eryigit/Meditek/Steam/ Genist Technocracy Pvt. Ltd./Labco |
| 4 | Double Door Washer/Disinfectant with minimum 12 DIN capacity | Cisa/Sumer/Mediqua/Natsteel/Periclave/Getinge/ Steris/ Belimed/ Cognate / MDD/ Eryigit/Meditek/Steam/ Genist Technocracy Pvt. Ltd./Labco/Shinva |
| 5 | Laundry | Stefab/Aquarius/Girbau/ Fabcare/ Cognate/MDD/Meditek/Steam/ Genist Technocracy Pvt. Ltd. |
| 6 | Kitchen Equipment | Make: Cool Star / Global Solutions Pantech India /Unique Prefab/ Preeti Kitchen/United/Gunika/ Cognate/ MDD/Meditek/ Steam/ Genist Technocracy Pvt. Ltd./Koncept Solutions |
| 7 | TSSU Equipment | Periclave / Getinge / Steris / Belimed / Natsteel/ Cognate/ MDD /Meditek/Steam/ Genist Technocracy Pvt. Ltd./Labco |

Sports Items

| | | |
|---|--|--|
| 1 | Indoor Sports Flooring | Conipur HG/Polytan/Stockmeier |
| 2 | Synthetic Track | Conica/Polytan/Stockmeier |
| 3 | Hockey Turf | Lano/Polytan/Field Turf |
| 4 | Football FIFA Approved Turf | Lano/Green Field/Field Turf |
| 5 | Basket Ball | Conica/Polytan/Stockmeier |
| 6 | Tennis (Acrylic ITF Approved) | Rebound Ace/ Flexiten/Laykold |
| 7 | Athletic Track & Field Equipment (WA Approved) | Vinex/AFN/Nelco |
| 8 | Swimming Pool | Astral Pool/Hayward/Jandy/Starling/Certikin/SR Smith |

Note:

1. The contractor will use one of the approved makes as approved by the Engineer-in-charge.
2. In case of different quality/pattern of same make, the pattern/quality shall be approved Engineer - in - charge.
3. For materials/equipment/ to be used in items of work for which approved makes are not given here in, the makes of such materials/equipment shall be as decided by Engineer-in- charge.

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4. Products materials marked ** shall be subjected to third party testing from NABL Accredited Laboratories by Concerned AE/EE/SE. These materials shall be allowed to be used after satisfactory test reports only.

SCOPE: Ceiling Paneling System

- The pre-fabricated ceiling plates/cassettes should be made up of SS304 panels with sheet thickness of atleast 0.6mm. Sandwich panel (Both side 0.6mm SS304 Sheet) of PUF with minimum density 40kg/m³ with matt finish and should be coated with anti-bacterial paint. It should be from the same manufacturer of wall panel. Total thickness should be 30-40mm.
- Support elements: high quality Suspension bracket with tension spring.
- Material: High quality galvanized or powder coated steel.
- Room lighting, air supply inlet, ceiling service units, return air outlets, etc. should be integrated with SS metal ceiling system.
- The individual panels except those at the edges should be removable individually.
- The ceiling material should be CE/UL/BIS/DIN 1.4301 certified
- Anti-bacterial paint should be coated on the ceiling.
- Third party test certificate for SS304 from material testing lab.(Govt. authorized)- to be provided at the time of pre dispatch inspection/supply.

SCOPE: Laminar Air Flow System

- The ceiling filtration system should be designed to ensure unidirectional distribution of sterile air of the surgical theatre to ensure the cleanliness of all the area covered by the air flow.
- The Laminar flow system should comprise of thick extruded aluminum profiles frame and sealed gasket. The filters installed in the plenum should be suitable for application for laminar flow and clean rooms. These filters should meet following specification:
Separators : continuous thermo plastic chord
Sealant : Polyurethane
Gasket : One piece polyurethane
MPPS average efficiency: > 99.95%
3 Micron DOP efficiency > 99.99%
Final Pressure drop : 600pa(max)
Maximum Operating Temp : 60 degree Celsius
Maximum RH : 40-50 %
- The ceiling system should be equipped with—H141 class HEPA filters position in the ceiling to achieve 0.25m/sec flow at the diffuser.
- Filtration Ceiling System holding structure, Filter frames and top plenum should be made of Aluminum/Stainless Steel.
- The filtration ceiling system should have diffuser/flow equalizer to achieve uniform & constant air distribution over the whole surface. It should be CE/UL certified
- The air management system should be designed to achieve class 100 with the following parameters:
Bacteriological class =B (5 CFU/m³)
Particle decontamination kinetics CP =5 min
ISO 14644/1 classification = ISO 5
- Third party validation by Govt. approved environment lab(After Installation)
- The positive pressure should be maintained inside the OT to prevent contamination due to air from outside the OT.
- The supplier should provide test certificate for HEPA filter and laminar air flow systems from the original manufactures.
- Size of laminar airflow system minimum 8 feet X 8 feet or more.
- Should be CE certified.

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Note: Prospective bidders are advised to collect the information regarding CFM and AHU capacity from the respective institute site. Total flow rate of filter bank shall match the CFM of AHU.

- HVAC Ducting & Exhaust System
- All the ducting inside the MOT shall be scope of the MOT bidder.
- All the ducting should be as per industry standard and sheet should be Aluminum of appropriate thickness and insulated as per industry standard.
- All necessary HVAC interconnection for supply and return air shall be the scope of bidder (the institute will provide the duct upto outside of each MOT)
- Return air exhaust grill should be provided in the OT.
- The exhaust air cabinets should be openable and cleanable.
- These cabinets should have suction from bottom and top also.
- Designed flow rate should not be less than 1000 m³/hr. Distribution of exhaust air volume should be divided between fluff strainers to maintain the required pressure within the theatre without causing turbulence.
- The Exhaust air cabinet should be manufactured and supplied by the supplier of wall and ceiling system supplies.
- Return air exhaust cabinet should be made from SS304 and should be from the same manufacturer of wall panel. Also it should match perfectly with the ceiling system aesthetically.

SCOPE: Hermetically Sealed Doors & Windows

- Door sizes should be as per below option and quantities will be as per BOQ of respective institute
 - HERMETICALLY SEALED DOORS Size 2.1mx1.8m
 - HERMETICALLY SEALED DOORS Size 2.1mx1.0m
 - HERMETICALLY SEALED DOORS Size 2.1mx1.8m with Lead Line(As per AERB Norms)
 - HERMETICALLY SEALED DOORS Size 2.1mx1.0 m with Lead Line(As per AERB Norms)
- This should be a hermetically sealed, single sliding door of 2.1 (H)X 1.8 m(W)
- The controller should be capable of being operated by elbow switches/foot switches as well as touch less sensor.
- The track should be of stainless steel/Aluminum and the running surface for the top rollers should be suitably angled to reduce resistance to movement.
- The door leaf should be hung by means of hard plastic rollers of high quality with double bearing at the top. Rollers should be provided under the stainless steel/Aluminum track to enable smooth and noiseless movement.
- Opening and closing of the door should be microprocessor controlled electromechanical movement.
- The door material should be of HPL Color should match the interior and care should be taken to make the leaf strong and light weight.
- One should be able to open and close the door effortlessly in case of failure of automatic mechanism.
- Door opening handle should be strong and sturdy. Material should be of SS (gloss finish). Should be provided with high quality cylindrical lock.
- Door leaf should have high quality synthetic rubber gasket with long life to ensure hermetic sealing (to maintain air pressure differential). Air tightness 99.99% at a pressure of 100Pa.
- The finished floor on either side of the door should be perfectly level (maximum permissible difference +1mm).
- The overall thickness of the finished door should be 40-60mm. The inner part of the door should be filled with CFC free polyurethane foam thickness of 48mm or nearby. (Sealed airtight to prevent further ingress of any microbial organism).
- The door and controls should comply with IEE regulation. All motors used should be DC brushless motor with essential isolation from mains.
- Door should be with vision window 300 mm x 300 mm with double glazed panels and hermetically sealed.
- Door movement should have minimum noise.
- The starting time after receiving the signal should be adjustable between 0.5 to 20 seconds.

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- The door controller should be CE marked.
- Test certificate for hermetically sealed door frame (factory test certificate) should be enclosed with the pre dispatch documents.
- Hermetically Sealed Window with Motorized Blinds for MOT as per requirement. The approx. 1.5m x 1m or 1.5 x 1.5 m

SCOPE: Electrical Installation

- Power distribution within the OT should be provided from distribution boards located local to each theatre. Sub mains power to these panels should be by the general electrical contractor. From these panels all distribution services within the departments should be run. Isolated power supply, insulation measuring and protection as per IEC standards should be provided. This unit should be EN/CE/UL/FDA/IEC certified.
- Earthed equipment bonding of all exposed metalwork should be provided.
- Power sockets within the Operating Theatres ancillary areas should be matched to the rest of the hospital.
- Each wall of MOT should have minimum 02 Nos. 6/16A hybrid switch socket & 32A industrial socket (For C Arm/Microscopes/Etc.) at any two walls as per IEC standard.
- Light fittings within the clinical areas should be recessed LED type with control gear
- Fittings should be sealed in accordance with the standard IP54.
- All equipment should be fully and permanently labeled to identify and describe the function, operation and voltage of the apparatus concerned. Throughout and upon completion of the electrical installation, tests in accordance with relevant sections of the local wiring regulations should be carried out and the results recorded.
- All the conducting should be of MS/SS only as per IEC standard and suitable for hospital use only.

SCOPE: Distribution Box (UPS Power and RAW Power)

- All high voltage equipment should be installed in a separate enclosure.
- The remote cabinet should house the operating lamp transformers, mains failure relays, UPS, electrical distribution equipment & circuit protection equipment for all circuits within the operating theatre.
- All internal wiring should terminate in connectors with screw & clamp spring.
- Connections of the clip-on type mounted, on a CE approved rail & labeled with indelible proprietary labels.
- Individual fuses or miniature circuit breakers should protect all internal circuits.
- Complete schematic drawing with description should be enclosed with the equipment.
- DB Should have minimum two 32A/16A (As per requirement) extra circuits with MCCB/MCB for future uses like integration equipment, etc.
- All MCBs & MCCBs present in DBs should be permanently labeled to identify and describe the function, operation of concerned equipment/function.

SCOPE: Isolation Panel System (IPS)

- Isolation Panel System of minimum 10/20 KVA capacity (As per power requirement of MOT- in case of 10KVA, bidder shall provide 2 nos. for each MOT to meet the power requirement) should be provided for every operation theatre which ensures the safety of staff and patient. System should have isolators provided through leakage relays etc. (If required) according to IEC recommendation.
- This unit should be EN/CE/UL/BIS/FDA/IEC certified. These systems are to be commissioned by specialists.
- Should be medical grade Insolation panel.
- Should have fault detection feature.
- Should be compliant to CEI 64-8 / IEC 60364-7-710/BS7671 Standard.
- Should be mountable on wall & compact.
- The IPS should be able to integrate with HIS/BMS and Surgeon Control Panel as standard.

SCOPE: Online UPS

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- Backup should be minimum 30min.
- The room for the central UPS will be provided by the respective institute/hospital preferably at same OT floor and one point electric supply will be provided to the UPS Room by the respective institute/hospital.
- Bidder should provide required electrical wiring from UPS to all modular MOT as per IEC/International standard.
- Electrical control panel complete with MCCB, Switchgears etc. should be provided.

Note: All makes shall confirm to standard specification of each item as enclosed with the tender document.

- ALL FINISHING MATERIALS SHALL BE SELECTED IN ACCORDANCE WITH GRIHA-3 STAR RATING REQUIREMENTS.
- ALL GRANITE STONE AND VITRIFIED & CERAMIC TILES FLOORING SHALL BE LAID WITH POLYMER MODIFIED ADHESIVE & JOINTING WITH 3MM EPOXY GROUT.
- ALL SS SKIRTING SHALL BE ON 6MM THICK BACKING PLY BOARD FIXED TO THE WALL / COLUMNS.
- ALL LAMINATED GLASS CLADDING SHALL HAVE BACKING OF 12MM THICK PLY BOARD.
- AUTOCLAVED AERATED CEMENT (AAC) BLOCKS MASONRY WITH 100MM (INTERNAL) / 200MM (EXTERNAL) THICK OR AS APPROVED SIZE / THICKNESS AAC BLOCKS CONFORMING TO IS 2185 PART 3 (1989) HAVING DENSITY IN OVEN DRY CONDITION 551-650 KG/CUM, GRADE-I, MINIMUM COMPRESSIVE STRENGTH 4 N/MM², THERMAL CONDUCTIVITY IN AIR DRY CONDITION 0.23 W/MK IN SUPER STRUCTURE ABOVE PLINTH LEVEL UP TO ALL FLOOR LEVEL AT ALL HEIGHTS, WITH RCC BAND / COLUMN AT EVERY 2.0 METRE OF PART THEREOF IN BOTH DIRECTION, WITH APPROVED BLOCK LAYING POLYMER MODIFIED ADHESIVE MORTAR (MINIMUM 6MM THICK) CONFORMING TO ANSI A118.1 & ANSI A118.4-1999.
- EXTERNAL / WET AREA PLASTER SHALL BE 18MM THICK (AVERAGE) READY MIX PLASTER OF APPROVED BRAND AND MANUFACTURE SHALL BE USED AND FINISHED WITH EXTERIOR GRADE ACRYLIC TEXTURED PAINT.
- BARRIER FREE ACCESS SHALL BE DESIGNED AS PER NBC 2016 AND APPLICABLE GOVERNMENT OF INDIA GUIDELINES.
- ALL FINISHING MATERIALS SHALL BE SELECTED IN ACCORDANCE WITH GRIHA-4 STAR RATING REQUIREMENTS.
- INTERNAL PLASTER (except wet area) SHALL BE 12MM THICK (AVERAGE) PREMIXED FORMULATED ONE COAT GYPSUM LIGHTWEIGHT PLASTER HAVING ADDITIVES AND LIGHT WEIGHT AGGREGATES AS VERMICULITE / PERLITE RESPECTIVELY CONFORMING TO IS:2547 (PART I & II) 1976, APPLIED ON HACKED / UNEVEN BACKGROUND SUCH AS BARE BRICK / BLOCK WALLS & CEILING AT ALL FLOORS AND LOCATIONS, FINISHED IN SMOOTH LINE AND LEVEL ETC. COMPLETE.

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ADDITIONAL CONDITIONS FOR FIRE FIGHTING SYSTEM

- 1- **Specification :-** The work shall be executed as per CPWD's General Specification for Electrical Works Part-I (Internal)-2013, Part-II (External)-1994, Part-IV (Sub-station)-2006, Part-V (Wet Riser System for Fire Fighting Installations)-2006, IE Rules, Indian Standards amended upto date and as per direction of Engineer-in-Charge. The additional specifications are to be read with above and in case of any variations; specifications given along with the tender shall apply.
- 2- **Location :-** The work is to be executed at site. The contractor is advised to visit the site before submission of their tender and ensure that equipment being offered by them shall be accommodated in the spaces available. The Fire Fighting Pumps (except Terrace Pump) are to be installed in the pump house.
- 3- **Approval form CFO:-** The Contractor shall be required to obtain NOC from Chief Fire Officer, Lucknow after completion of work (NOC as received from CFO by this officer this office for start of work is enclosed for reference). Statutory fee if any shall be paid by department. However all liasoning work / arranging inspection of CFO shall be the responsibility of contractor.
4. **Rates:-** The rates shall be inclusive of all taxes, levies, packing, transportation handling etc. Nothing extra shall be paid. Ontario exemption certificate shall be issued by the department if requested by the contractor. However department will not be responsible in case octopi exemption is not granted to the contractor.
5. **Storage:-** The Pump House may be used for storage of material. Watch & ward of equipment till handing over to the department will be contractor's responsibility.
6. **T & P:-** The department will not issue any T &P for execution of the work.
- 7- The material in required quantity to be used in the work shall be got approved from the Engineer-in-charge before its use at site. The Engineer-in-charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.
- 8- Contractor shall preserve the copies of invoices, test certificates; gate passes etc. to prove the genuineness of material/purchases. The responsibility of procurement, genuine material of specialized works shall rest with the contractor.
- 9- **Real time CCTV Camera shall be installed by the contractor on his expenses.**
- 10- **No inspection outside the country is permissible if required so the same will be deemed to be waived off and necessary test report shall be submitted along with the equipment.**

SECTION B-3

BILL OF QUANTITY

U.P. PROJECTS CORPORATION LTD.

Drawings

U.P. PROJECTS CORPORATION LTD.

शपथ पत्र

मैं/M/s -----

1. यह कि मैंने दिनांक----- को ----- का निर्माण कार्य हेतु निविदा डाली तथा मेरे पक्ष में पत्र संख्या...../यू0पी0पी0सी0एल0/जोन-../निविदा दिनांक..... द्वारा स्वीकृत किया गया है।
2. यह कि उपरोक्त के अन्तर्गत मुझसे रूपया लाख की जमानत धनराशि तथा वर्तमान में प्राविधानित व्यवस्था के अनुसार रूपया के स्टाम्प ड्यूटी करते हुए अनुबन्ध गठित कराने की अपेक्षा की गयी है।
3. यह कि मा0 उच्च न्यायालय द्वारा रिट संख्या:-735007/2004 में स्ट्रांग कान्ट्रक्सन बनाम उ0प्र0 सरकार एवं अन्य में पारित निर्णय दिनांक-22.03.2005 के क्रम में सचिव, लोक निर्माण विभाग, उ0प्र0 शासन लखनऊ प्र" चगत प्रकरणों में उत्तर प्रदेश" I सरकार द्वारा मा0 उच्च न्यायालय में दायर अपील में मा0 उच्चतम न्यायालय द्वारा पारित निर्णय के प्रतिबन्धों के अन्तर्गत/जारी शासनादे" I संख्या-89/23.07.2007-13(काटी)/07 दिनांक-11.01.2007 में यह निर्दे" I दिय गये हैं कि एक शपथ पत्र जिसमें मा0 उच्चतम न्यायालय द्वारा यदि उ0प्र0 सरकार के पक्ष में निर्णय किया जाता है। तो अवशेष स्टाम्प शुल्क/मूल्य जमा किये जाने का उल्लेख हो, के साथ रूपया-100.00 के स्टाप ड्यूटी पर अनुबन्धित गठित किया जाये।
4. यह कि धारा 3 में वर्णित प्रतिबन्धों के अन्तर्गत मैं रूपया-100.00 के स्टाम्प ड्यूटी जमा करके अनुबन्ध का गठन कराना चाहता हूँ।
5. यह कि उत्तर प्रदेश" I सरकार द्वारा मा0 उच्चतम न्यायालय में दायर अपील में वाद सरकार के पक्ष में निर्णय होता है, तो उपरोक्त धारा 03 में निर्दिष्ट स्टाम्प ड्यूटी के सापेक्ष वर्तमान में जमा की जा रही, रू0 100.00 का अव" शेष रूपया की स्टाम्प मूल्य में बिना किसी विवाद के सरकार के पक्ष में जमा कर दूँगा।
6. यह कि मैं किसी कारण व" I अव" शेष धनराशि I नकद जमा करने में असफल रहता हूँ, तो विभाग को अधिकार होगा कि अव" शेष धनराशि I को वसूली विभाग में उपलब्ध मेरे देयों, जमानतों एवं राजस्व की भाँति कर लें, उसके लिए मुझे कोई आपत्ति नहीं होगी।

दिनांक:-

हस्ताक्षर-" Iपथकर्ता.....

सत्यापन- मैं, शपथकर्ता सत्यापित करता हूँ शपथ-पत्र को धारार्ये-01 से लगायत-06 तक मेरे ज्ञान में सत्य व सही हैं, सत्यापन आज दिनांक :-
को जनपद- में सत्यापित किया गया।

हस्ताक्षर-" Iपथकर्ता.....

AFFIDAVIT

(on non-judicial stamp paper of Rs.100)

I.....age.....year.....S/o.....R/o...
.....proprietor of
M/s.....Solemnly affirm and oath asunder.

1. All information is given by me in 'Form D' are true and correct.
2. No works other than mentioned in 'Form D' are neither allotted nor under construction by my firm.
3. If any information entered in 'Form D' is found incomplete or different from truth my agreement may be terminated.
4. If for above reason my agreement is terminated, have no object for that.

All information given from point 1 to point 4 are true and correct to the brief of my knowledge.

In presence of

General Manager Zone.....

Date.....

Place.....

(Signed by Authorized person of firm)

Title of Authorized person.....

Name of firm.....