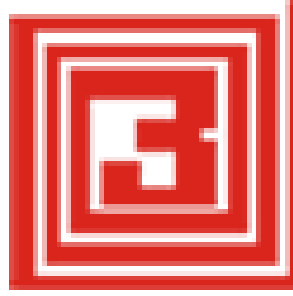


GOVERNMENT OF MADHYA PRDESH

UJJAIN DEVELOPMENT AUTHORITY

E-Tender Notice No:



Bharatpuri, Ujjain, Madhya Pradesh, India-456010

Phone: +91 734 2511048 Fax: +91 734 2511047

Web site: www.udaujjain.org

Email: udaujjain@gmail.com

Name of work:

Construction of Proposed Road of Block 1A & 2 (Package 1) at Ujjain

BID DOCUMENT

April – 2026



GOVERNMENT OF MADHYA PRDESH

UJJAIN DEVELOPMENT AUTHORITY

APPENDIX 2.10

TENDER DOCUMENT

For Percentage Rate only in Works Departments and other Departments similar to Works Departments

Office of the	UJJAIN DEVELOPMENT AUTHORITY
N.I.T. No.& Date	26/73 – dated: 14.05.2026
Agreement No. and Date	
Name of Work	Construction of Proposed Road of Block 1A & 2 (Package 1) at Ujjain
Name of Contractor	
Probable Amount of Contract (Rs. <i>In Figures & In Words</i>)	Rs. 1,37,78,63,062 (Rupees One Hundred & Thirty-Seven Crores Seventy-Eight Lakhs Sixty-Three Thousand & Sixty-Two only)
Amount of Contract (Rs. <i>In Figures & In Words</i>)	
Stipulated Period of Completion	12 months (including monsoon season)



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SECTION – 1
Notice Inviting Tender

GOVERNMENT OF MADHYA PRDESH
UJJAIN DEVELOPMENT AUTHORITY

NIT. No. 26/73

Dated 14.05.26

Online percentage rate bids for the following works are invited from registered contractors and Firms of repute fulfilling registration criteria:

Sr. No. /Pkg/ Code	Name of Work	District(s)	Probable Amount of Contract (Rs. in Crores)	Period of Completion
1	Construction of Proposed Road of Block 1A & 2 (Package 1) at Ujjain	Ujjain	Rs. 1,37,78,63,062 /-	12 months (including monsoon season)

1. Interested bidders can view the detailed NIT on the website <https://mptenders.gov.in>.
2. The Bid Document can be purchased only online from 15.05.26 17:0 Hrs to 29.05.26 17:30 Hrs.
3. Amendments to NIT, if any, would be published on website only, and not in newspaper.

Executive Engineer
Ujjain Development Authority
Ujjain



Notice Inviting Tender

GOVERNMENT OF MADHYA PRDESH
UJJAIN DEVELOPMENT AUTHORITY

SECOND CALL

NIT. No. 26/73

Dated 14.05.26

Online percentage rate bids for the following works are invited from registered contractors and Firms of repute fulfilling registration criteria:

Sr. No. /Pkg/ Code	Name of Work	District(s)	Probable Amount of Contract (Rs. in Crores)	Earnest Money Deposit (EMD) (In Rs.)	Cost of Bid Document	Category of Contractor	Period of Completion
1	2	3	4	5	6	7	8
1	Construction of Proposed Road of Block 1A & 2 (Package 1) at Ujjain	Ujjain	Rs. 1,37,78,63,062	Rs.,50,00,000	Rs. 59,000/-	-	12 months (including monsoon season)

- All details relating to the Bid Document(s) can be viewed and downloaded free of cost on the website - <https://mptenders.gov.in>
- Bid Document can be purchased after making online payment of portal fees.
- At the time of submission of the Bid the eligible bidder shall be required to:
 - pay the cost of Bid Document,
 - deposit the Earnest Money,
 - submit a check list and
 - submit an affidavit.

Details can be seen in the Bid Data Sheet. The above details are to be Submitted online only.

4. Eligibility for Bidders:

- At the time of submission of the Bid the bidder should have valid registration with the Government of Madhya Pradesh, PWD (MPPWD). However, such bidders who are not registered with the Government of Madhya Pradesh and are eligible for registration can also submit their bids after having applied for registration with appropriate authority MPPWD.
- The bidder would be required to have valid registration at the time of signing of the Contract.
- Failure to sign the contract by the selected bidder, for whatsoever reason, shall result in forfeiture of the earnest money deposit.



5. **Pre-qualification:** Prequalification conditions, wherever applicable, are given in the Bid Data Sheet.
6. **Special Eligibility:** Special eligibility conditions, if any, are given in the Bid Data Sheet.
7. **Pre-Bid meeting:** A pre bid meeting will be held at UDA Meeting Hall at 18.05.2026 at 14:00 Hrs.
8. The Bid Document can be purchased only from 15.05.26 from 17:00 Hrs to 29.05.26 17:30 Hrs.
9. Amendments to NIT, if any, would be published on website only, and not in newspaper.

**Executive Engineer
Ujjain Development Authority
Ujjain**



SECTION – 2

Instructions to Bidders (ITB)

A. GENERAL

1. Scope of Bid:

The detailed description of work, hereinafter referred to as “work” is given in the Bid Data Sheet.

2. General Quality of Work:

The work shall have to be executed in accordance with the technical specifications specified in the Bid Data Sheet / Contract Data and shall have to meet highest standards of workmanship, safety and security of workmen and works.

3. Procedure for participation in E-tendering:

The procedure for participation in e-tendering is given in the Bid Data Sheet.

4. One Bid per Bidder:

- a. The Bidder can be an individual entity or a joint venture. The requirement of joint venture is given in the Bid Data Sheet.
- b. No bidder shall be entitled to submit more than one bid whether jointly or severally. If he does so, all bids wherein the bidder has participated shall stand disqualified.

5. Cost of Bidding:

The bidder shall bear all costs associated with the preparation and submission of his bid, and no claim whatsoever for the same shall lie on the Government.

6. Site Visit and Examination of Works:

The bidder is advised to visit and inspect the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering a contract for construction of the work. All costs in this respect shall have to be borne by the bidder.

B. BID DOCUMENTS

7. Content of Bid Documents:

The bid document shall comprise of the following documents:

- a) NIT with all amendments
- b) Instructions to Bidders, bid data sheet with all Annexure
- c) Conditions of Contract:
 - i. Part I General Conditions of Contract and Contract Data with all Annexures and
 - ii. Part II Special Conditions of Contract.



- d) Specifications
 - e) Drawings.
 - f) Priced Bill of Quantities
 - g) Technical and Financial Bid
 - h) Letter of Acceptance
 - i) Agreement and
 - j) Any other Document(s), as specified.
8. The bidder is expected to examine carefully all instructions, conditions of contract, the contract data, forms, terms and specifications, bill of quantities, forms and drawings in the Bid Document. Bidder shall be solely responsible for his failure to do so.

9. Pre-Bid Meeting (wherever applicable)

Wherever the Bid Data Sheet provides for pre-bid meeting:

- 9.1 Details of venue, date and time would be mentioned in the Bid Data Sheet. Any change in the schedule of pre-bid meeting would be communicated on the website only, and intimation to bidders would not be given separately.
- 9.2 Any prospective bidder may raise his queries and/or seek clarifications in writing before or during the pre-bid meeting. The purpose of such meeting is to clarify issues and answer questions on any matter that may be raised at that stage. The Employer may, at his option, give such clarifications as are felt necessary.
- 9.3 Minutes of the pre-bid meeting including the list of the questions raised and the responses given together with any response prepared after the meeting will be hosted on the website.
- 9.4 Pursuant to the pre-bid meeting if the Employer deems it necessary to amend the Bid Document, it shall be done by issuing amendment to the online NIT.

10. Amendment of Bid Documents

- 10.1 Before the deadline for submission of bids, the Employer may amend or modify the Bid Documents by publication of the same on the website.
- 10.2 All amendments shall form part of the Bid Document.
- 10.3 The Employer may, at its discretion, extend the last date for submission of bids by publication of the same on the website.

C. PREPARATION OF BID

11. The bidders must submit their bids online as per guidelines given in the portal.

12. Documents comprising the Bid

The bid submitted online by the bidder shall be in the following parts:

Part 1 – This shall be known as **Envelope A** and would apply for all bids online.



Envelop A shall contain the following as per details given in the Bid Data Sheet:

- i) Registration number or proof of application for registration and organizational details in format given in the bid data sheet.
- ii) Payment of the cost of Bid Document.
- iii) Earnest Money; and
- iv) An affidavit duly notarized.

The above details are to be submitted online only.

Part 2 – This shall be known as online **Envelope B** and is required to be submitted only in works where pre-qualification conditions and/or special eligibility conditions are stipulated in the Bid Data Sheet. Online **Envelope B** shall contain a *self-certified sheet* duly supported by documents to demonstrate fulfilment of pre-qualification conditions.

Part 3 – This shall be known as online **Envelope C** and would apply to all bids. **Envelope C** shall contain financial offer in the format prescribed format enclosed with the Bid Data Sheet.

13. Language

The bid as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Employer shall be in either English or Hindi. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English. In such case, for the purposes of interpretation of the bid, such translation shall govern.

14. Technical Proposal

- 14.1 Only, in case of bids with pre-qualification conditions defined in the Bid Data Sheet, the Technical Proposal shall comprise of formats and requirements given in the Bid Data Sheet.
- 14.2 All the document/information enclosed with the technical proposal should be self-attested and certified by bidder. The bidder shall be liable for forfeiture of his earnest money deposit, if any document/information are found false/fake/untrue before acceptance of bid. If it is found after acceptance of the bid. The bid sanctioning authority may at his discretion forfeit his performance security/guarantee security deposit, enlistment deposit and take any other suitable action.

15. Financial Bid

- i. The bidder shall have to quote rates in format referred in bid data sheet, in overall percentage, and not item wise. If the bid is in absolute amount, overall percentage



would be arrived at in relation to the probable amount of contact given in NIT. The overall percentage rate would apply for all items of work.

- ii. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found, lower of the two shall be taken as valid and correct.
- iii. The bidder shall have to quote rates inclusive of all duties, taxes, royalties and other levies; and the Employer shall not be liable for the same.
- iv. The material along with the units and rates, which shall be issued, if any, by the department to the contractor, is mentioned in the bid data sheet.

16. Period of Validity of Bids

The bids shall remain valid for a period specified in the Bid Data Sheet after the date of “close for bidding” as prescribed by the Employer. The validity of the bid can be extended by mutual consent in writing.

17. Earnest Money Deposit

- 17.1 The Bidder shall furnish, as part of the Bid, Earnest Money Deposit (EMD), in the amount specified in the Bid Data Sheet.
- 17.2 The EMD shall be in the form of Fixed Deposit Receipt of a scheduled commercial bank, issued in favour of the name given in the Bid Data Sheet. The Fixed Deposit Receipt shall be valid for six months or more after the last date of receipt of bids. However other form(s) of EMD may be allowed by the employer by mentioning it in the bid data sheet.
- 17.3 Bid not accompanied by EMD shall be liable for rejection as non-responsive.
- 17.4 EMD of bidders whose bids are not accepted will be returned after the decision on the bid.
- 17.5 EMD of the successful Bidder will be discharged when the Bidder has signed the Agreement after furnishing the required Performance Security.
- 17.6 Failure to sign the contract by the selected bidder, within the specified period, for whatsoever reason, shall result in forfeiture of the earnest money deposit.

D. SUBMISSION OF BID

18. The bidder is required to submit online bid duly signed digitally.

E. OPENING AND EVALUATION OF BID

19. Procedure

- 19.1 Envelope A shall be opened first online at the time and date notified and its contents shall be checked. In cases where Envelop A does not contain all requisite documents, such bid shall be treated as non-responsive, and Envelop B and/or C of such bid shall not be opened.



- 19.2 Wherever Envelop B (Technical Bid) is required to be submitted, the same shall be opened online at the time and date notified. The bidder shall have freedom to witness opening of the Envelop B. Envelop C (Financial Bid) of bidders who are not qualified in Technical Bid (Envelop B) shall not be opened.
- 19.3 Envelope C (Financial Bid) of bids shall be opened online at the time and date notified. The bidder shall have freedom to witness opening of the Envelop C.
- 19.4 After opening Envelop C all responsive bids shall be compared to determine the lowest evaluated bid.
- 19.5 The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all the bids at any time prior to contract award, without incurring any liability. In all such cases reasons shall be recorded.
- 19.6 The Employer reserves the right of accepting the bid for the whole work or for a distinct part of it.

20. Confidentiality

- 20.1 Information relating to examination, evaluation, comparison and recommendation of contract award shall not be disclosed to bidders or any other person not officially concerned with such process until final decision on the bid.
- 20.2 Any attempt by a bidder to influence the Employer in the evaluation of the bids or contract award decisions may result in the rejection of its bid.

F. AWARD OF CONTRACT

21. Award of Contract

The Employer shall notify the successful bidder by issuing a „Letter of Acceptance“ (LOA) that his bid has been accepted.

22. Performance Security

- 22.1 Prior to signing of the Contract the bidder to whom LOA has been issued shall have to furnish performance security of the amount, in the form and for the duration, etc. as specified in the Bid Data Sheet.
- 22.2 Additional performance security, if applicable, is mentioned in the Bid Data Sheet and shall be in the form and for the duration, etc. similar to performance security.

23. Signing of Contract Agreement

- 23.1 The successful bidder shall have to furnish Performance security and additional performance security, if any and sign the contract agreement within 15 days of issue of LOA.
- 23.2 The signing of contract agreement shall be reckoned as intimation to commencement of work. No separate work order shall be issued by the Employer to the contractor for commencement of work.



23.3 In the vent of failure of the successful bidder to submit Performance Security and additional performance security, if any or sign the Contract Agreement, his EMD shall stand forfeited without prejudice to the right of the employer for acting against the bidder.

24. Corrupt Practices

The Employer requires that bidders observe the highest standard of ethics during the procurement and execution of contracts. In pursuance of this policy, the Employer:

- i. may reject the bid for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract; and
- ii. may debar the bidder declaring ineligible, either indefinitely or for a stated period, to participate in bids, if it at any time determines that the bidder has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for, or in executing, a contract.

For the purposes of this provision, the terms set forth above are defined as follows:

- a. “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party.
- b. “fraudulent practice” means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation.
- c. “coercive practice” means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party.
- d. “collusive practice” means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.

[End of ITB]



BID DATA SHEET

GENERAL		
SR. No.	PARTICULARS	DATA
1	Office Inviting Tender	Ujjain Development Authority, Ujjain
2	NIT No.	26/73
3	Date of NIT	14.05.26
4	Bid document download available from date & time	15.05.26
5	Website link	http:// www.mptenders.gov.in
SECTION 1 – NIT		
NIT CLAU SE	PARTICULARS	DATA
2	Portal Fees (also known as processing fee)	As notified on E-tendering website
3	Cost of Bid Document	Rs. 59,000/-
	Cost of Bid Document Payable At	Online on portal using options available on portal
	Cost of Bid Document in favor Of	Executive Engineer, UDA, Ujjain
4	Affidavit Format	As per 'Annexure- B'
5	Pre-qualifications required	Yes
	If yes, details	As per 'Annexure- C'
6	Special Eligibility	No
	If yes, details	As per 'Annexure -D'
7	Key dates	As per 'Annexure -A'



BID DATA SHEET

SECTION 2 – ITB		
ITB CLAUSE	PARTICULARS	DATA
1	Name of the Work	Construction of Proposed Road of Block 1A & 2 (Package 1) at Ujjain
2	Specifications & SOR	As per 'Annexure – E' in addition to as below: a) In case of Roads and Bridge works: 'Specification for Road and Bridge Work (5 th Revision) By MoRTH. b) Stipulation of SOR for Road & Bridge w.e.f. 11-04-2025 and its amendments issued up to the date of NIT c) Stipulation of SOR for Building work w.e.f. 01.01.2024 and its amendments issued up to date of NIT d) UADD SOR vol. 1 2021 with all latest amendment.
3	Procedure for participation in e-tendering	As per 'Annexure – F'
4	Whether Joint Venture is allowed.	No
	If yes, requirement for Joint Venture	As per 'Annexure – G'
12	Envelope-A containing: a) Organizational details as per 'Annexure H' b) Cost of Bid Document c) EMD d) An affidavit duly notarized as per 'Annexure- B.'	Submission online only
14	Envelope-B – Technical Proposal	As per 'Annexure – C' and 'Annexure – I' (Format I-1 to I-9) Note: The technical evaluation will be done only based on the details submitted under Annexure – C i.e. Eligibility Criteria, Qualification Criteria and the information to be provided by the bidder as per Annexure – I-1 to I-9 in prescribed formats. Requirements with regard to firm related



		information, bid capacity, summary and detailed information of similar projects in last 5 years, quantities executed in that duration, information of key technical personnel, key construction and lab equipment, litigation history, MoU with specialized agencies shall deemed to be a part of technical evaluation. However, non-compliance on these requirements may lead to disqualification.
15	Envelope-C – Financial Bid	As per 'Annexure - J '
	Materials to be issued by the department	As per 'Annexure - K'
16	Period of Validity of Bid	120 Days
17	Earnest Money Deposit	Rs. 50,00,000/-
	Forms of Earnest Money Deposit	e-EMD (RTGS/NEFT)
	EMD Valid for a period of	6 months or more
	FDR must be drawn in the favor of	Executive Engineer, UDA, Ujjain
21	Letter of Acceptance (LOA)	As per 'Annexure – L ' (A formal work order on request of contractor may be issued.)
22	Amount of Performance Security	5% of Contract Amount of Project
	Additional Performance Security, if any	Equal to an amount arrived at, by multiplying the contract amount with difference of percentage between percent rates (below/minus) of successful bid and 10% percent (below/minus), considering bid rates less than ten percent below PAC, to be unworkable and shall require additional performance security (guarantee) valid up to – till stipulated time of completion plus three months (Amended vide Govt. Memo No. F 53/2/2011/Yo/19/524 Ujjain dtd. 14-02-2025)
	Performance Security in the format	As per 'Annexure- M-1'
	Performance Security in favor of	Executive Engineer, UDA, Ujjain



	Performance Security valid up to	As provided in the Contract Data (Amended vide Govt. memo No. 1400/1246/2018/19/Yo Ujjain dt. 06-04-18)
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**Annexure – A**

(See Clause 1, 7 of Section 1 – NIT)

Key Dates - As provided in the portal (<https://mptenders.gov.in>)**Key Dates**

Sr. No.	Particulars	Date	Time
1	Publishing Date	15.05.26	17:00
2	Document Download/Sale Start Date	15.05.26	17:00
3	Seek Clarification Start Date		-
4	Seek Clarification End Date		-
5	Pre-Bid Meeting Date	18.05.26	14:00
6	Bid Submission Start Date	16.05.26	10:00
7	Bid Submission Closing Date	29.05.26	17:30
8	Bid Opening Date	30.05.26	17:30

EMD and all other document submissions shall be done online only.

Executive engineer
Ujjain Development Authority
Ujjain



Annexure – B
(see Clause-3 of Section 1 – NIT)

|| AFFIDAVIT ||

(to be Contained in Envelope-A)
(On Non Judicial Stamp of Rs. 200)

I/we _____ who is/ are _____
(status in the firm/ company) and competent for submission of the
affidavit on behalf of M/S _____ (contractor) do solemnly affirm an oath and state
that:

I/we am/are fully satisfied for the correctness of the certificates/records submitted in support of the
following information in bid documents which are being submitted in response to notice inviting
e-tender No. _____ for _____ (name of work) dated _____
issued by the _____ (name of the department).

I/we are fully responsible for the correctness of following self certified information/
documents and certificates:

1. That the self certified information given in the bid document is fully true and authentic.
2. That:
 - a. Term deposit receipt deposited as earnest money, demand draft for cost of bid document and other relevant documents provided by the Bank are authentic.
 - b. Information regarding financial qualification and annual turn-over is correct.
 - c. Information regarding various Technical qualifications is correct.
3. No close relative of the undersigned and our firm/company is working in the department.

OR

Following close relatives are working in the department:

Name _____ Post _____ Present Posting _____

Signature with Seal of the Deponent (bidder)

I/ We, _____ above deponent do hereby certify that the facts mentioned in
above paras 1 to 4 are correct to the best of my knowledge and belief. in the event of any information is
found to incorrect / untrue or found violated then without prejudice to any other right of remedy including
the forfeiture of the bid security / performance security.

Verified Today _____ (dated) at _____ (place).

Signature with Seal of the Deponent (bidder)

Note: Affidavit duly notarized in original shall reach at least one Calendar day before opening of the bid.

**Annexure – C**

(See Clause 5 of Section 1 – NIT)

PREQUALIFICATION CRITERIA

To be eligible for the financial evaluation, the bidder must fulfil all the Qualification Criteria below:

A. ELIGIBILITY CRITERIA

Sr. No.	Criteria	Documents to be submitted
1	The Bidder should have been involved in the Road Construction Work for the last five years or more (ending on 31st March 2026).	Company / Partnership registration certificate (Incorporation Certificate).
2	The Bidder should have a valid registration in MPPWD/CPWD or equivalent registration with any other state Govt. or institutions.	Copy of Certificate to be submitted with self-attestation
3	Valid solvency certificate (current calendar year) from a nationalised bank or government-approved scheduled bank amounting to not less than 30% of the probable amount of contract excluding taxes.	Copy of Certificate to be submitted with self-attestation.
4	The Bidder should have had average annual turnover (of only construction works) of not less than 50% of Probable Amount of Contract - excluding taxes in the last five financial years.	- Details as per Form I-2 - Copy of certificate from Chartered Accountant along with copy of Balance sheets.



5	The Bidder should demonstrate positive net worth of minimum 30% of the probable amount of contract excluding taxes.	• Certificate from Chartered account / statutory auditors specifying net worth of the applicant, as at the close preceding financial year, and also specifying that the methodology adopted for calculating such net worth confirms to the provision of this clause. For the purpose of this prequalification, "Net Worth" shall mean the sum of capital (paid up capital in case of companies) and reserves from which shall be deducted the sum of revaluation reserves, miscellaneous expenditure not written off and reserves not available for distribution to equity shareholders (in case of companies)
6	The Bidder should have a minimum Bid capacity of 100% of probable amount of contract excluding taxes.	• Copy of bid capacity calculation sheet as prescribed in I-3 form as certified by Chartered Accountant / Statutory Auditors
7	The Bidder should not have been Blacklisted during this bidding stage with Government, Semi Government, Boards and Corporation. The Bidder should provide information on any history or arbitration resulting from contracts in last five year or currently under execution.	• The applicant must submit a notarised affidavit to this effect. • Details as per Form I-7



B. QUALIFICATION CRITERIA

Sr. No.	Criteria	Documents to be submitted
Experience of Similar completed project work		
8	The Bidder should have successfully completed at least: One similar project as a prime contractor, of a minimum value of 50% of the probable amount of contract excluding taxes in last 5 years OR Two similar projects as a prime contractor, of a minimum value of 30% of the probable amount of contract excluding taxes in last 5 years OR Three similar projects as a prime contractor, of a minimum value of 20% of the probable amount of contract excluding taxes in last 5 years Whereas the "similar project / work" means successfully completed street/road development works having rigid pavement (cement concrete carriage way) works with median, RCC retaining works for road, various types of waterway crossings (piped culverts, box culverts, slab culvert/minor bridges), services/drainage cross over works and street light works under government, semi-government, or institutional bodies as a prime contractor under a single work order. Note: Works executed of external development, grade separators (dams,	• Copy of Work Order issued by the client to the contractor. • Copy of Final Completion Certificate issued by the client to contractor. • Photographs Evidence of Client / 3rd party audits for Quality assurance system. • Form I-4 & I-4a NOTE: A copy of certificate issued by the Consultant/PMC will not be considered for evaluation. Bidder must submit photographs of the following elements of the similar completed project/s in order to assess the level of workmanship: Street Works • Finishing of street surface



	railway bridges, flyover, underpass) and buildings shall not be considered under similar project/work definition.	
Firm's Experience in executing special elements works		
9	The bidder should have completed at least of 30% of BOQ Quantity of cement concrete work for road as a prime contractor in any one completed project during last 5 years	• Details as per form I-5 • Copy of Work Order issued by the client to contractor. • Copy of Final Completion Certificate issued by the client to contractor.
10	The bidder should have completed at least 3 waterway crossings of any type, as a prime contractor in any one completed project during last 5 years.	• Details as per form I-5 • Copy of Work Order issued by the client to contractor. • Copy of Final Completion Certificate issued by the client to contractor.
11	The bidder should have completed street light works for minimum 30% (04.83 kms) of total length of road , as a prime contractor in any one completed project during last 5 years.	• Details as per form I-5 • Copy of Work Order issued by the client to contractor. • Copy of Final Completion Certificate issued by the client to contractor.

(c) IMPORTANT INFORMATION TO BE PROVIDED BY BIDDER

Refer Annexure – I (Format I-1 to I-9) for bid qualification related information to be provided by the Bidder in **Envelope – B**



Annexure – D

(See Clause 5 of Section 1 – NIT)

SPECIAL ELIGIBILITY CRITERIA

The bidder should have experience of:

A. — Erection of Steel Gates

B. — Construction of tunnel

Note: ~~Above criteria are indicative, subject to suitable stipulations by the departments and specific bid.~~

**Annexure – E**

(See Clause 2 of Section 2 – ITB and Clause 10 of GCC)

SPECIFICATIONS**General**

The specifications to be followed for this work are the specification for road & bridges are published by the MORTH for the relevant Items. This specification shall be supplemented by the technical specification as given here under in this document, and also the provisions in the relevant IRC & IS codes.

Order of precedence for referring documents to resolve queries:

- i Description of Schedule of quantities.
- ii Architectural drawings.
- iii Additional Specifications
- iv Special Conditions of Contract
- v General Conditions of Contract
- vi MPPWD (Road and Bridge, Building works), MoRTH, IRC, CPWD Specifications,
- vii Indian Standard Specifications / BIS.
- viii Sound engineering practice.

All work shall be carried out in confirmation with the above specifications. These specifications broadly cover all major aspects of the work involved. Minor details may not be specified here; however, if these are necessary for completion of work, the contractor shall execute such minor items without any additions to the costs. All work shall be executed in accordance with good engineering practices.

The Contractor shall remain responsible for workmen's compensation if any, when such case occurs, the contractor shall arrange for red lamps at night, and fencing, etc., shall be responsible for any damage of life and or property if any happens, during the execution of work. In case of dispute for unseen or overlooked items, the decision of the Engineer in charge shall be final. The Contractor shall have to give site clean of all rubbish on completion of work and hand over the site with final finishing as directed. All the rejected materials shall be removed from site within 24 hours by the Contractor at his risk and cost.

The Contractor shall have to make his own arrangements for the water required for the work.



If, in the interest of Department, it is necessary to change either any site or the design of the proposed work, the Contractor shall carry out the works and he will be paid at the rates quoted by him for the awarded work, and no claim for extra for subsequent changes made, entertained.

Contractor will be fully responsible for compliance of the various provisions under the Contract Labour Act, 1970, and the Rules framed thereunder.

Contractor is requested to procure their quarry materials required for construction work through legal sources, i.e., only from the quarry lease holders, permit holders, or middleman who satisfies the contractor as to the legality of the source of purchase by him of these materials.

General Details

Work shall be executed as per the BOQ item and notes, the technical specification for civil works. The manufacturer's prescribed method of application or the latest MoRTH/CPWD specifications or BIS standards/guidelines, as approved by the Engineer-in-charge, shall be adopted where technical specifications are not available.

The work shall be executed in accordance with best modern practices & all latest codes and standards referred to in these specifications shall be read in conjunction with the various other documents forming the contract, tender specifications, BOQ, contract drawings, and other related documents.

In case of contradictory specification between Item description and technical specifications, Decision of Engineer-in-charge regarding it shall be final and binding on the contractor.

Measurement and payments

a) The methods of measurement and payment shall be as described under various items and in the Price Bid. Where specific definitions are not given, the methods described in MORTH/CPWD will be followed. Should there be any detail of construction of materials which has not been referred to in the specifications or in Price Bid and drawings but the necessity for which may be implied or inferred there from, or which are usual or essential for the completion of the work in the trades, the same shall be deemed to be included in the rates quoted by the contractor in Price Bid.



b) Unacceptable work

All defective works are liable to be demolished, rebuilt, and defective materials replaced by the contractor at his own cost. In the event of such works being accepted by carrying out repairs etc. as specified by the engineer in charge, the cost of repairs will be borne by the contractor and will be paid for the works actually carried out by him at reduced rates of the tendered rates, as may be considered reasonable by the engineer in charge, in the preparation of final or on account bills.

SPECIFICATION FOR CIVIL WORKS

- 1) The method of excavation shall be approved by the Engineer in charge before execution.
- 2) Excavation shall be carried out very carefully without damaging existing structures and surrounding if any.
- 3) If required, the contractor shall provide stabilization by any means to protect the foundation of the existing structure and building without any extra cost.
- 4) Rate shall include dewatering work (pumping out and removing slush) while execution in underwater condition if required unless otherwise anywhere specified.
- 5) Contractor shall conduct underground utility survey mapping by executing required number of trial pits or by any other suitable means before executing the work as per direction by the engineer in charge.
- 6) For concrete work, Rate shall be inclusive of Providing and laying in position machine-batched, machine-mixed PCC/RCC of specified grade, including compaction, vibration, curing, transporting, finishing, and pumping, tremie for pouring, dewatering (if required), formwork/ shuttering etc. complete for all levels, all heights/depths, and for all lead and lift and as directed by the Engineer-in-charge.
- 7) All types of shuttering shall be designed by the contractor and submitted to the Engineer in charge along with design calculations (if required) and approved by the Engineer in charge. However, the Stability and compatibility of shuttering shall be the responsibility of the contractor. Shuttering shall be executed as per the approved shop drawing. No extra payment shall be made for the above.
- 8) Rate shall be inclusive of dewatering work (pumping out and removing slush) while execution in underwater conditions. The contractor shall not claim for dewatering if required unless otherwise anywhere specified.
- 9) Rate shall be inclusive of providing grooves, drip moulds, pockets, cut-outs, etc., and co-ordination of insert sleeves, insert plate (cost of insert sleeves/ plate shall be paid separately), encasing if any wherever required while casting for all level all height.



List of Approved Makes

PREFERRED CIVIL MAKE LISTS		
Sr. No.	Material / Item	Make
1	Cement OPC/ PPC	UltraTech, Ambuja, JK Cement, Wonder Cement, ACC
2	Admixture for Concrete, Concrete Curing Compound	Fosroc, Mapei, MYK Arment, CAC
3	Reinforcement Steel: Main Producers only	TATA (TISCO), RINL, JSPL
4	Ready Mix Cement Concrete	Ultratech, ACC or as approved by Engineer-in-charge
5	Filler board	Supreme, STP
6	Polysulphide Sealant/ PU sealant	Fosroc, Sika, Mapei, MYK Arment, Pidilite, STP
7	Paint - Acrylic Emulsion (Exterior)	Asian Paints, Akzo Nobel (Dulux), Jotun, Berger, Nerolac
8	Safety equipment	Frontier, 3M India Ltd, Protector, Ananta Inc
9	Road Marking paint	STP, Kataline, Asian

NOTE:

- i All materials and products shall conform to the relevant standards (IS, EN, BS, ASTM, ISO, AS/NZS) and shall be of approved make and design.
- ii The Architect shall give the approval of a manufacturer only after a review of the sample/ mock-up. In case the same is not available in the market or in case of a change in trade name, equivalent makes/ re-designated manufacturer, then an equivalent approved make shall be used with the approval of the Architect. The complete system and installation shall also be in conformity with applicable Codes & Standards and Tender specifications.
- iii Architect and Engineer-in-charge reserves the right to choose any of the approved as per this list.
- iv In case of products not indicated in this list, the name of the manufacturer shall be given by the Engineer-in-charge.



SPECIFICATION FOR ILLUMINATION / STREET LIGHT WORKS

1. H. T. Work - Deleted

2. Section Feeder Panel:

(a) Structure:

The Section pillar shall be of Double door type compartmentalized design so that circuit arc / flash products do not create secondary faults and be fabricated out of high quality CRCA sheet, suitable for Outdoor installation having doors on both the sides and if is operated from front side.

All CRCA sheet steel used in the construction of Panels shall be 12 SWG thick and shall be folded and braced as necessary to provide a rigid support for all components. Joints of any kind in sheet steel shall be seam welded, all welding slag grounded off and welding pits wiped smooth with plumber metal. The Section pillar shall be totally enclosed, completely dust and vermin proof and degree of protection being not less than IP:55 to IS:2147. Gaskets between all adjacent units and beneath all covers shall be provided to render the joints dust proof. All doors and covers shall be fully gasketed with foam rubber and /or rubber strips and shall be lockable.

A base channel of 40mmx 40mm x 5mm thick & 1300mm stand height shall be provided at the bottom. Openings shall be provided for natural ventilation, but the said openings shall be screened with fine weld mesh. Knock out holes of appropriate size and number shall be provided in the Panels in conformity with the number, and the size of incoming and outgoing conduits / cables. Alternately, the section pillar shall be provided with removable sheet steel plates at bottom to drill holes for cable / conduit entry at site. The section pillar shall be designed to facilitate easy inspection, maintenance and repair. The section pillar shall be sufficiently rigid to support the equipment without distortion under normal and under short circuit condition. They shall be suitably braced for short circuit duty.

The section pillar erected with cement concrete foundation and 45 cms high bricks work and finishing with plaster at all the four side of the panel, specifically on the base channel side as shown in drawing or as instructed by engineer in charge. The tenderer has to supply appropriate length of 100 Amp / 63 Amp (Respectively in feeder pillar type A and type B) capacity single core multi strand copper wire as load wire. (Tenderer has to consider the length from supply company meter to SMTP.) There are two different sizes in Type – B section pillar.

Contractor has to supply as per department requirement. Department will inform for the same as per actual site condition and requirement. There is a change in size of enclosure only. Electrical component to be fitted inside are same for both sizes.

(b) Protection Class:

All the Outdoor Panels shall have protection class of IP: 55

**(c) Painting:**

The painting shall be one coat of primer and two coat of synthetic enamel colour.

(d) Electrical Power and Control Wiring Connection:

Terminal for both incoming and outgoing cable connections shall be suitable for 1100 V grade, aluminum / copper conductor PVC insulated and PVC sheathed, armored cable and shall be suitable for connections of solderless sockets for the cable size as indicated on the appended drawings / BOQ. Power connections for incoming feeders of the main Panels shall be suitable for 1100 V grade aluminum conductor (PVC) cables. Both control and power terminals shall be properly shrouded.

(e) Earthing:

GI earth bars of size 25 mm $\times$ 6 mm or 30 mm x 5 mm shall be provided in the section pillar for the earthing. The frame work of the section pillar shall be connected to this earth. Provisions shall be made for connection from this earth to the main earthing bar coming from the earth pit on both side of the Section Pillar.

(f) Labels:

Labels shall be provided on all incoming and outgoing cable. Single line circuit diagram showing the arrangements of circuit inside the section pillars shall be pasted on inside of the panel door and covered with transparent laminated plastic sheet.

(g) Name Plate:

A paint bold letters shall be painted on the outside of section pillar.

Inside the feeder compartments, the electrical components, equipment's, accessories like switchgear, control gear, lamps, relays etc. shall suitably be identified by providing stickers. Name plate shall be painted in English language, be acceptable.

(H) Danger Notice Board:

The danger notice plate shall be affixed in a permanent manner on operating side of the section pillar.

The danger notice plate shall indicate danger notice in English and with a sign of skull and bones.

The danger notice plate, in general, meet the requirements of local inspecting authorities.

Overall dimensions of the danger notice plate shall be 200 mm. wide x 150 mm. high.

The danger notice plate shall be made from minimum 1.2 mm. thick mild steel sheet and after due pre-treatment to the plate, the same shall be painted white with vitreous enamel paint on both front and rear surface of the plate.



The letters, the figures, the conventional skull and bones etc. shall be positioned on plate as per recommendation of IS: 2551-1982.

The said letters, the figures and the sign of skull and bones shall be painted in signal red colour as per IS.

The danger plate shall have rounded corners. Location of fixing holes for the plate shall be decided to suit design of the Panels.

Contactors:

The contactors shall meet with the requirements of IS : 13947.

The contactors shall have minimum making and breaking capacity in accordance with utilization category AC3 duty. If the contactor forms part of a distribution board then a separate enclosure is not required, but the installation of the contactor shall be such that it is not possible to make an accidental contact with live parts.

Digital Astronomical Timer:

Supplying & erecting approved make Digital Astronomical time switch having lithium cell 5 years operative and 48 hrs operate battery backup 1 channel day clock with 28 memory programmes, suitable to operate on 240V +/- 5%, 16A with, floating contacts Minimum switching setup time 1 minimum & LCD display. Also comprised permanent ON/OFF switching. Programming switches & housed in fire proof thermoplastic enclosure & transparent cover erected as required with necessary connection erected as directed.

ELCB:

Supplying & erecting approved make ELCBs / RCCBs conforming to IS: 12640 and having sensitivity of 100 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on 3 phase and neutral 415V. Having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed.

INSPECTION:

At all reasonable times during production and prior to transport of the Panels to site, the supplier / contractor shall arrange and provide all the facilities at their plant for inspection.

TESTING:

Testing of section pillar shall be carried out at factory and at site as specified in Indian standards in the presence of consultant. The test results shall be recorded on a prescribed form. The test certificate for the test carried out at factory and at site shall be submitted in duplicate.



2.1 Smart 4G Timer for streetlight control and monitoring

Smart 4G Timer

1. Supply of IoT based 4G Smart Streetlight Control & Monitoring System having a Smart Panel comprising of 3 Phase IoT Streetlight Smart 4G Timer with 16x2 LCD to display RSSI, relay status, RTC time & diagnostics.,
2. Controller works on 3-phase & also on any available 1-Phase.,
3. Controller with 8-hour battery backup during external power failure. External power failure alert immediately to cloud.,
4. 110-630 V AC @ 50-60 Hz – 3 phase operating range.,
5. Standby power consumption <3W.,
6. Smart 4G Timer with RS232 port for DLMS Energy meter & RS485/UART/RS232 port for any external device communication.,
7. Smart 4G Timer must be compatible with any make / brand of DLMS (RS232) Energy Meter.,
8. DI: 5 Nos. (3 Contactor/Latch detection, 1 for SPD, 1 for Door Sensor.).,
9. DO: 3 Relays for Independent control each phase (R, Y, B) with 1 extra spare relay.,
10. Highly Precise TCXO RTC with 10-year battery reserve.,
11. Automatically syncs with internal, cellular, server & GPS clock; with logs stored in the CCMS Web Software.,
12. Smart 4G Timer with dual SIM functionality for connectivity backup.,
13. 4G M2M SIM 5-Year communication included.,
14. Local configuration via WiFi / BLE for maintenance or during force majeure.,
15. GPS chip inbuilt of Smart 4G Timer for auto location tracking & astronomic schedule location.,
16. 50 programmable schedules.,
17. Astronomic scheduling with monthly offsets.,
18. Smart 4G Timer has inbuilt timer stores schedules locally & also stores schedule execution logs locally, syncs to cloud whenever connected to cloud.,
19. Auto-scheduler overrides manual operations.,
20. Monitoring & alerts for MCB trips & SPD failure.,



21. Input MCB status detection even when Smart 4G Timer is on battery backup to detect status of MCB during power failure.,
22. The system shall support local data buffering and uplink retry logic at the feeder panel, ensuring communication continuity and data integrity during partial or temporary network outages.
23. Over/under voltage, current, overload, power factor & short circuit protections with alerts via Dashboard, App, SMS, WhatsApp & Email.,
24. Contactor/Latch chattering protection & alerts.,
25. Smart 4G Timer with neutral failure protection and alert.
26. During earthing failure to Panel, it must generate alerts on CCMS Dashboard for safety.
27. Smart Timer must have capability to connect with CBCT. The leakage current value in mA must be uploaded on CCMS web dashboard for safety monitoring & alerts purposes
28. Built-in Watchdog for anti-jamming.,
29. Smart 4G Timer must send Regular "heartbeat" on software for CCMS status.,
30. Smart 4G timer must include built-in logic to detect LED luminaire flickering & provide real-time alerts via web dashboard, WhatsApp, SMS & email.
31. Accelerometer for tamper & panel movement detection & alerts.,
32. Smart 4G Timer must be tested from an NABL Lab for Surge Test @ 8 KV (IEC 61000-4-5), ESD Test @ 4 KV (IEC 61000-4-2), EFT @ 2 KV (IEC 61000-4-4), Conducted Emission @ 150 KHz-30 MHz (CISPR11), Damp Heat Test (40 Deg C @ 95% RH) 2 cycles of 12+12 hours (IS: 9000 (Part 5/Sec.2):1981 latest) with all test passing criteria as "Temporary degradation or loss of function or performance which is self-recoverable".,
33. FOTA functionality required for upgrades.,
34. Smart 4G Timer sends & stores online/offline data of controller & load for lamp burn hours analysis.,
35. It stores & syncs connectivity logs for configuration of network connections & analytics.,

Technical Specifications of Smart 4G Timer for streetlight control and monitoring

2.2 CCMS SMART SOFTWARE

1. OAuth 2.0 APIs for sending data to Government clouds/software, etc.,



2. CCMS Web dashboard with secure password & OTP login.,
3. Hosted on trusted cloud, data security, antivirus & attack protection.,
4. HTTPS.,
5. AES256-bit encryption.,
6. Vulnerability Assessment and Penetration Testing (VAPT) certificate for CCMS Software.
7. Streetlight management software for load status, live analytics & reports.,
8. Energy meter data tables (kW, kWh, PF, I, V, etc.) available.,
9. Utility monthly bill reconciliation & Class 1 accuracy reports for billing, energy monitoring & auditing for streetlight load.,
10. Fault detection.,
11. Light fault 99% analysis on dashboard using energy monitoring.,
12. Single click “Blackout” & Turn-ON of lights
13. Bulk update scheduling profiles for multiple feeder panels or individual streetlight controllers
14. WhatsApp integration.,
15. Hierarchy-wise dashboard, reporting & alerts.,
16. GIS mapping of live connected streetlight control panels, poles & streetlights.,
17. MQTT protocol.,
18. Smartphone app with local configuration & navigation.,
19. Monitoring & reporting of lighting parameters.,
20. Facility for media attachments for site photos/videos/work permits/checklists, etc. per Feeder Panel for remote verification.,
21. Asset management module for streetlight infrastructure data.,
22. Complaint/service task management with history & escalation must be available.,
23. Android & iOS App for dashboard analytics, graphs, energy data, alerts.,
24. 5 Years CCMS Web Software & Cloud Server Hosting subscription included.,
25. Customizable, user-friendly dashboard.,



3 Medium Voltage Cables

3.1 Scope

This section shall cover supply of medium voltage cables.

3.2 Standards

The following standards and rules shall be applicable:

IS: 7098 XLPE insulated electric cables (heavy duty).

IS: 1753 Aluminium conductors for insulated cables.

IS: 3961 Recommended current ratings for cables.

IS: 8130 Aluminium conductors for insulated cables

Indian Electricity Act and Rules.

3.3 Measurements

The cables will be measured in meters. The unit rate shall include cutting the cable into required lengths, packing, loading, unloading, insurance, transportation, delivery to stores/site as per work order, stocking in stores, testing of cables at stores etc. of medium voltage cable.

3.4 General

The medium voltage cables shall be supplied, laid, connected, tested and commissioned in accordance with the drawings, specifications, relevant Indian Standards specifications, manufacturer's instructions. The cables shall be delivered at site in original drums with manufacturer's name, size, and type, clearly written on the drums.

3.5 Material

The MV cables shall be cross linked polyethylene (XLPE) insulated PVC sheathed of 1100 volts' grade aluminium or copper conductor, armoured and unarmoured heavy duty, conforming to IS: 7098 Part I as asked for in the schedule of quantities.

3.5.1 All XLPE Aluminium/Copper Power cables shall be 1100 Volts grade, multi core constructed as per IS: 7098 Part-I of 1988 as follows:

- a. Stranded Aluminium /Copper conductor of high conductivity up to 4 mm.² size, the conductor shall be solid multi strand above 4 mm.², conductors shall be concentrically stranded as per IEC: 228.
- b. Cores laid up
- c. The inner sheath should be bonded over with thermo-plastic material for protection against mechanical and electrical damage.



- d. Armouring should be provided over the inner sheath to guard against mechanical damage. Armouring should be Galvanized steel wires or galvanized steel strips. (In single core cables used in A.C. system armouring should be non-magnetic hard aluminium Wires/Strips. Round steel wires should be used where diameter over the inner sheath does not exceed 13 mm; above 13 mm flat steel armour should be used. Round wire of different sizes should be provided against specific request.)
- e. The outer sheath should be specially formulated heat resistant black PVC compound conforming to the requirement of type ST2 of IS: 5831-1984 extruded to form the outer sheath.

3.5.2 Conductor shall be of electrolytic Aluminium/Copper conforming to IS: 8130 and are compact circular or compact shaped.

3.5.3 Insulation shall be of XLPE type as per latest IS general purpose insulation for maximum rated conductor temperature 70 degree centigrade.

3.5.4 In Inner sheath laid up cores shall be bonded over with thermoplastic material for protection against mechanical and electrical damage.

3.5.5 Insulation, inner sheath and outer sheath shall be applied by extrusion and lapping up process only.

3.5.6 Armouring shall be of galvanized steel wire/ strip.

Galvanized steel flat strip / round wires applied helically in single layers complete with covering the assembly of cores.

For cable size up to 25 Sq. mm: Armour of 1.4 mm dia. G.I. round wire

For cable size above 25 Sq. mm: Armour of 4 mm wide 0.8 mm thick G.I. strip

3.5.7 Repaired cables shall not be used.

3.5.8 Current ratings of the cables shall be as per IS: 3961.

3.5.9 The XLPE insulated cables shall conform to latest revision IS read along with this specification. The Conductor shall be stranded Aluminium/Copper circular/ sector shaped and compacted. In multi core cables the core shall be identified by red, yellow, blue and black colouring of insulation as following.

Core identification:

Two cores	:	Red and Black
Three cores	:	Red, Yellow and Blue
Four core	:	Red, Yellow, Blue and Black



Single core : Green, Yellow for earthing

Black shall always be used for neutral.

3.5.10 The XLPE insulated 1100 Volts grade power cables shall conform to latest IS and shall be suitable for a steady conductor temperature of 70 degrees centigrade. The conductor shall be stranded Aluminium/Copper as called for in the Schedule of quantities. The outer sheath shall be as per the requirement of type ST-2 of IS: 5831 of 1984.

3.5.11 The cables shall be suitable for laying in racks, ducts, trenches, conduits and underground buried installation with uncontrolled back fill and chances of flooding by water.

3.5.12 Progressive automatic in line sequential marking of the length of cables in meters at every one meter shall be provided on the outer sheath of all cables.

3.5.13 Cables shall be supplied in non-returnable wooden drums as per IS: 10418.

Both ends of the cables shall be properly sealed with PVC/Rubber caps so as to eliminate ingress of water during transportation, storage and erection.

3.5.14 The product should be coded as per IS: - 7098 Part-I as follows: -

Aluminium Conductor	A
XLPE Insulation	2X
Steel round wire armour	W
Steel strip armour	F
Steel Double round wire armour	WW
Steel Double strip armour	FF
Non-magnetic (Al.) round wire armour	Wa
Non-magnetic (Al.) strip armour	Fa
PVC outer sheath	Y

3.6 General

All cables shall be adequately protected against any risk of mechanical damage to which they may be liable in normal conditions of handling during transportation, loading, unloading etc.

The cable shall be supplied in single length i.e. without any intermediate joint or cut unless specifically approved by the client.



The cable ends shall be suitably sealed against entry of moisture, dust, water etc. with cable compound as per standard practice.

4 Testing & Inspection

4.1 Finished Cable Tests at Manufacturer's Works

The finished cables shall be tested at manufacturer's works. Following routine tests for each and every length of cable and copy of test results shall be furnished for each length of cable along with supply. If specified, the cables shall be tested in presence of clients' representative / PMC / Consultant

a. Voltage test

Each core of cable shall be tested at room temperature at 3 KV A.C. R.M.S. for duration of 5 minutes.

b. Conductor resistance test

The D.C. Resistance of each conductor shall be measured at room temperature and the results shall be corrected to 20° c. to check the compliance with the values specified in IS 8130 - 1976.

Prior to dispatching cables and at the time of delivering the cables at stores, following tests shall be carried out: -

Insulation Resistance test between phases and phase to Neutral and phase to earth

Continuity test of all the phases, neutral and earth continuity conductor

Sheathing continuity test

Earth resistance test of all the phases and neutral

All tests shall be carried out in accordance with relevant Indian Standard Code of practice and Indian Electricity Rules. The Vendor shall provide necessary instruments, equipment's and labour for conducting the above test and shall bear all expenses in connection with such tests. All tests shall be carried out in the presence of the client / PMC / Consultant and results shall be recorded in the prescribed forms.

4.2 Cable - Marking Embossing On Outer Sheath

The outer sheath shall be legibly embossed with following legend:

ELECTRIC CABLE: 1100 V, SIZE: 3.5 C x ----- mm ².

Manufacturer's Name & year of manufacturing.

4.3 Sealing, Drumming & Packing

After tests at the manufacturer's works, both ends of the cable shall be sealed to prevent the ingress of moisture during transportation and storage.



Cable shall supply in length of $500 \pm 10\%$ meters on packed non-returnable drums of sufficiently sturdy construction.

Cables of length more than 250 meters shall also be supplied on non-returnable drums.

The spindle hole shall be 110 mm minimum diameter.

Each drum shall bear on the outside flange, legibly and indelibly in the English literature, a distinguishing number, the manufacturer's name and particulars of the cable i.e. voltage grade, length, conductor size, cable type, insulation type and gross weight shall also be clearly visible. The direction for rolling shall be indicated by an arrow. The drum flange shall also be marked with manufacturer's name and year of manufacturing etc.

4.4 The Purchaser or its representative shall have the right to inspect and / or to test the Goods to confirm their conformity to the Contract at manufacturer's works. The special conditions of contract and/or the Technical Specification shall specify what inspections and tests the Purchaser requires and where they are to be conducted. The Purchaser shall notify the Tenderer in writing of the identity of any representatives retained for these purposes.

4.5 The inspections and tests shall be conducted in the premises of the Original Equipment Manufacturer's Works. Manufacturer shall have all required Testing Facilities in his premises as per I.S. All tests shall have to carried out in the presence of TPI Personal & AMC representatives. Contractor shall have to arrange TPI from any one of the TPI Firms viz. CEIL/RITES/SGS India/TUV-SUD South Asia Pvt. Ltd./EQDC Gandhinagar or any recommended by the AMC and inform the name of TPI & its representative in the Inspection Call letter. All expenses towards factory/manufacturer works testing & Inspection of materials shall be borne by the contractor, which also include travelling, lodging & Boarding expenses of the TPI Person, & AMC representative.

4.6 After receiving inspected lot(s) of LED Fittings at any of the site of AMC/AMC store, randomly one sample of each wattage capacity from any Lot will be selected and sent to NABL accredited lab ERDA for testing, once in entire contract period and If, its result(s) aren't found as per requirements, entire that particular lot will be rejected. Charges for such ERDA testing shall be borne by AMC. In case of any lot is rejected then ERDA testing charges for subsequent such lot would be recovered from the contractor's bill.

In case of rejection of tested sample by ERDA, the Contractor / Manufacturer can appeal/ request for re-testing and Dy. Municipal Commissioner (Light) will take decision for re-testing of sample accordingly.

**TESTING PARAMETERS AT ERDA.**

- (1) VISUAL
- (2) DIMENSIONS
- (3) FITMENT AND ASSEMBLY
- (4) MEASUREMENT OF IR VALUE
- (5) HV TEST (1.5 KV FOR 1 MINUTE)
- (6) ELECTRICAL/FUNCTIONAL
- (7) POWER FACTOR
- (8) REVERSE POLARITY
- (9) VOLTAGE OPERATION TEST 140-270 VOLT
- (10) INGRESS PROTECTION IP 66
- (11) HUMIDITY TEST
- (12) THERMAL TEST
- (13) PHOTOMETRY TEST (LPW, CCT & CRI)
- (14) IMPACT RESISTANCE TEST (IK 10 for the Fixture, IK08 for the Glass Protector, IK10 for the PC Protector)

Note: AMC shall be free to conduct any of the above mentioned tests at ERDA.

4.7 All the expenses related to inspection at manufacturer's works & at site viz. including lodging, unloading and carting of material and Third Party Inspection (TPI) fees and other related commercial expanses as and where required shall be borne by the contractor. Mode of transportation is by Air lines only and for stay minimum 3-star hotel. If Air lines facility not nearby city, then through 1st class Air conditioning train /Air Conditioning comfortable car.

4.8 For demonstration and testing of LED fittings on site by ERDA, all contractors will have to arrange for lux level measurement on-site for each capacity (wattage) LED once, in presence of AMC engineer. And report of the same has to be submitted to Streetlight Department. And If, it's result(s) aren't found as per requirements, entire that particular lot will be rejected. All charges for such on-site testing shall have to be borne by the contractor.

4.9 Should any inspected or tested Goods fail to confirm the Specifications, the Purchaser may reject them and the contractor shall either replace the rejected Goods or make all alterations necessary to meet specification requirements free of cost to the Purchaser.



4.10 If the Good is purchase from outside of India by contractor, then it is the Purchaser's right to inspect, test and, where necessary, reject the Goods after the Good's arrival in India shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the goods' shipment from the country of origin.

4.11 Nothing in above clause shall in any way release the contractor from any warranty or other obligations under this Contract.

4 LED LIGHT FIXTURE SPECIFICATION

The LED Street light system will have to meet the following specifications:

4.1 Electrical Specifications:

- | | | | |
|---|--------------------|---|-------------------------|
| • | Parameter | - | Value |
| • | Input Voltage | - | AC 120 to 260V |
| • | Input Frequency | - | 50 Hz+/- 3Hz |
| • | Power Factor | - | ≥ 0.95 |
| • | Usage hours | - | Dusk to dawn (12 hours) |
| • | Distortion Current | - | <10% |
| • | Voltage | - | <3% |
| • | Working humidity | - | 10% to 90% RH |

4.2 LED Luminaire specification:

Life expectancy for the product at least 50,000 hrs. maintaining lumen output at 70% or above compared with the luminaries' initial output.

- Colour Temperature - 4000K (± 5%) / 3000 K (± 5%) (as per Arch / Consultant / Client selection)
- Colour rendering index - For 3000K ≥70, for 4000K ≥80
- Lumen/ Watt (luminary) - Minimum 140 Lumens per watt for Street light
- Minimum 130 Lumens per watt for Post top light (Direct)
- Minimum 80 Lumens per watt for Post top light (Indirect)

(Detailed Technical specifications as per BoQ must be followed)

- Housing - High quality housing such as pressure die cast



aluminum with Smooth finish powder coated for better environmental protection.

- Efficiency of Driver - >85%
- Junction temp - <85°c
- Uniformity ratio - $U_0 > 0.4$ (longitudinal UL >0.7)
- Maintenance factor - 0.8
- Index of protection level - IP 66, IK10 for Fixture, IK08 for Glass Protector, Ik10 for PC

Protector

- LED lens material - UV stabilized injection molded Poly Carbonate
- Protection up to 20 KV - Over heat, over load, short circuit, HV surge
- LED chip - Cree, OSRAM, Nichia, Lumileds, Bridgelux
- SDCM - ≤ 5
- Driver current - As per rated wattage of luminaire
- LED Driver type - Constant current
- Beam Angle - 135° Horizontal / 80° Vertical or as per site requirement to achieve Lux level & Uniformity
- Opening - Tool less opening is preferred in street Light fitting
- Provision for NEMA Socket- 5 Pin NEMA Socket required with shorting cap to be provided till OLC is installed. (For streetlight fixtures only)

Note: Efficacy of the system should not allow below 150 lumens /watt and wattage specified indicative maximum for the said lumens output for streetlight fixtures, no negative tolerance allowed and no power loading shall be considered for this tender.

The light fitting shall be heritage type decorative light fixture and should be as per the instruction of the Architect and Engineer In charge.

4.3 Particulars and Details to be submitted by the in order to properly assess and due diligence submissions, the proponent should provide following information on the quality and photometric of proposed luminaries.

**4.3.1 General Description:**

Following details of the proposed luminaire shall be submitted as per Annexure – I, after allotment work order.

1. Luminaire manufacturer
2. Luminaire Model name
3. Wattage
4. Stated lumen output
5. IP rating, IK rating (3rd Party NABL Lab ERDA / UL / INTRATECH to be submitted)
6. Lumen output (as per LM 79 report – 3rd Party, mentioning current in MA)
7. Lumen deprecation (L70 mentioning Temperature in OC and current in mA)
8. Correlated colour temperature (CCT)
9. RoHS Compliance
10. Colour rendering index (CRI)
11. BIS certificate for luminaire & driver (The luminaire should be manufactured in the OEM premises only)

4.3.2 Electrical Specifications:

Electrical ratings of the proposed luminaire for the following criteria shall be submitted in Annexure

1. Voltage range or rating on single Phase AC
2. Amperage range or rating
3. Frequency Range
4. Power Factor
5. Total harmonic distortion
6. Working humidity
7. Working temperature
8. ingress protection
9. Electrical connector
10. Ability to operate under the condition of unpredictable voltage variations. submit the information.

4.4 LED Chip and driver information: details to be filled up by bidder:



LED Chip and driver information of the proposed luminaire product for the following criteria in Annexure – III, after allotment work order:

1. Name of the LED Chip manufacturer
2. LED chip model name and number
3. LM 80 report from the LED chip manufacturer on the lumen depreciation characteristics of the specific LED Chip employed in the proposed luminaire product
4. Junction temperature (OC)
5. Information on drivers employed in the proposed luminaire
6. Name of the manufacturer
7. Model name and number.
8. Expected lifetime of the LED driver used in the proposed luminaire
9. Estimated cost of driver replacement by your company, including component and installation cost.
10. LED Driver should be BIS approved only, PF should be greater than 0.95, THD should be less than 10%

4.5 Bidder shall have to offer the following minimum warranty:

LED Chip and driver information of the proposed luminaire product for the following criteria in Annexure – III

- (a) Bidder should provide 5% Extra (of the supplied nos. of fittings) ballast / driver & SPD to AMC. The bidder should consider the cost of the same in the tender while quoting.
- (b) Provide a five-year on-site replacement warranty covering warranty covering material fixture finish and workmanship, to include transportation, removal, and installation of new products.
- (c) provide five-year replacement warranty for defective or non -starting LED source assemblies and all drivers.
- (d) Provide a five-year warranty for luminaries exhibiting inadequate lumen maintenance at the end of the warranty period in compliance with the following table:

L-70 lifetime claim Min. Lumen maintenance @ 5 Year.

(1)	30,000 Hours	-	92.50%
(2)	50,000 Hours	-	85.50%
(3)	1,00,000 Hours	-	80.00%



(e) A luminaire dirt depreciation (LDD) factor may be included in the above calculation, such a value be determined by mutual agreement between AMC and the manufacturer, consistent with local ambient environmental conditions and practice.

(f) A monitoring program to implement 20.5(c) above will be determined by mutual agreement between AMC and the Bidder. The costs of the monitoring program over the five-year warranty period will be borne by the bidder, unless agreed otherwise by AMC and the Bidder.

(g) The bidder shall provide 10-year light fitting and it's all component availability from OEM to client and should be on OEM letter head with NSM sign and OEM Stamp. Also, the same should be given on Rs. 300 Stamp paper from OEM to Client and Company should give the letter for authorized signatory.

4.6 Photometric information:

The proponent needs to submit the following photometric

1. Photometric modeling results, preferably within a LM79 report, from an independent accredited laboratory showing generic candlepower traces and iso foot-candle plots for the proposed luminaires' product.
2. Photometric information, data and diagrams that model the luminance flux distribution of the proposed luminaire referencing the site characteristics given in section 20.5 above. The proponent should consider the following during the modeling exercise.
3. Such modeling should verify that the proponent's proposed luminaire will meet National Lighting Code, which specifies average luminance (E_{avg}) and uniformity (E_{min} / E_{avg}) for roads at the above sites. As specified in table 20.9
4. Use industry accepted, standardized software like Dialux for the above modeling while modeling, a maintenance factor of 0.8 should be used.

4.7 Lumen maintenance statement:

1. The proponent must submit a lumen maintenance statement that estimates how many operating hours can be expected from the proposed luminaire product until its light output declines to 70% of its initial output (L70) given the specific climactic character, including extremes of temperature and high humidity, associated with the local condition.
2. The lumen maintenance statement should also clearly explain how or what method was used to determine the rated lifetime.



3. Describe in detail the thermal management: how the physical and thermal design of the luminaire will prevent the LED chips from overheating on extremely hot days.
4. OEM should have own manufacturing facility for quoted LED fixtures in India which should be functional for last 10 years or more.

4.8 Luminaire Specifications - other:

The proponent shall provide information and certifications

1. Luminaries: General requirements, Tests, and Certifications specified in IS 10322.
2. Electrical safety certifications such as ISI and CII.
3. Ingress protection certification IP 66.
4. The luminaires proposed by the OEM shall be produced in own manufacturing facility that is duly registered under the factory license and covered under the scope of the BIS certification submitted. No change in manufacturing location shall be permitted. The quoted lights should have at least 80% components manufactured in India. Factory license India of manufacturing unit for OEMs must be submitted during tendering. Companies considered in quote, their place of manufacturing and affidavit that percentage of component of luminaires manufactured in INDIA must be submitted along with the tender in softcopy and hardcopy.
5. Proposed street light luminaire housing should have OEM Logo Embossed/Engraved to ensure product authenticity and OEM identification throughout the life of the product for required service/spares support

4.9 Lighting Level Criteria :

Luminaries : Maintenance Factor : 0.8

Lux Levels, Uniformity should be achieved on the Road as under :

	Average Lux Level	Uniformity : Min / Max	Uniformity : Min / Avg
Carriage Way	35 – 40 Lux	0.4	0.7
Pedestrian pathway	15 – 20 Lux	0.3	0.5

The computerized lighting design has to be practically proven for 'initial lighting levels' by installing at least six poles at a stretch on the actual project site before the award of the order, failing which the proposal should be rejected.



Practical method for lighting measurement should be as per latest IS, IEC and NEC code and as per Consultant / Engineer in charge.

Power consumption calculation should be provided & has to be proved on site also.

Note :

All the documents, details and calculation provided for the luminaire should be duly signed and stamped by the OEM with authorized signatory letter from OEM as well as from bidder. All the required documents to be given before at the time of Light fixture approval.

6 LIGHT POLES

6.1 SCOPE:

The scope of this specification covers the manufacture, transport, installation, testing and commissioning of Poles, including the Civil Foundation Works with all items required for the safe and efficient operation and maintenance of the lighting system, whether explicitly stated in the following pages or not, shall be included by the Contractor.

6.2 LIGHTING POLES:

Heritage type decorative PU painted pole has cast aluminum decorative base of minimum 1m height. The base aluminum casting shall be manufactured in a single piece only, strictly without any welding or jointing, and shall have material composition conforming to LM6 grade aluminum, which shall be verified through spectrometer test report conducted on full casted part and to be submitted along with the sample. The bidder/manufacturer must have in-house possession to the casting die/mould required for manufacturing the aluminum decorative base. Documentary evidence in support of the same shall be submitted along with the sample, such as ownership records of die/Mold. The die/Mold shall be made available for inspection by the purchaser/consultant, if required. The casting shall as per approved drawing, and the pattern/design must be approved prior to bulk production. The pole shaft shall consist of a grooved steel tubular construction with bottom portion and top portion having joined through a decorative cast aluminum reducer at a height as per approved drawing. The shaft shall be fabricated from grooved steel tubes/Extruded aluminum complete with hot dip conforming to grade YST 240, and Mill Test Certificates (MTC) indicating chemical and mechanical properties, along with heat number traceability, shall be submitted along with the tender. The pole shall be mounted on a base plate of size 400 x 400 x 16 mm, fabricated from Steel grade A36 / A572-50 or equivalent, duly supported with MTCs. The base plate shall be structurally designed and welded to the pole shaft using approved welding procedures. The pole shall be provided with a suitable opening at the bottom for housing connectors, MCB, etc., with a flush-fitting door of adequate size, fabricated from minimum 2 mm thick sheet. The door should



be provided with suitable locking arrangement (tamper-proof) and proper sealing to ensure weather protection. Necessary reinforcement shall be provided around the opening to compensate for loss of section and to maintain structural integrity. The complete pole structure shall be structurally designed to withstand dead load of luminaire and accessories, and wind load corresponding to 169 km/h wind speed as per IS 875 (Part 3). A detailed structural design calculation report, duly certified by a qualified structural engineer, shall be submitted along with the bid. The pole shaft shall be hot dip galvanized through single dip process as per ASTM A123 / IS 2629, with minimum average coating thickness not less than 65 microns. Pre-galvanizing and post-galvanizing inspection reports, including DFT measurements, shall be submitted. No mechanical operation such as welding, drilling, cutting, etc. shall be carried out after galvanizing. Use of pre-galvanized material or double dip galvanizing process shall not be permitted. After galvanizing, the complete pole shall be treated with suitable surface preparation, followed by application of high-quality primer and Polyurethane (PU) paint, with minimum average DFT of 70 microns. The paint makes and Technical Data Sheet (TDS) shall be submitted along with tender. Painting shall be carried out in a controlled environment in paint booth (photos submitted along with tender) and proper curing shall be ensured. DFT reports and paint adhesion test (cross hatch test) shall be submitted for verification. The complete pole shall be of composite construction and shall be suitable for long-term outdoor application without any deformation, corrosion, or coating failure under specified operating conditions. The supplier shall offer stage-wise inspection, including raw material stage, fabrication stage, post-galvanizing stage, and final finishing stage. Inspection shall be carried out as per approval of the purchaser/consultant. The pole manufacturer must have ISO 9001/14001/45001 and CE certification and the same shall be attached along with tender submission.

The successful bidder shall carry out sampling for the pole, Bracket and Light fitting strictly in accordance with the instructions of the Architect and Engineer in charge. The final selection of the samples will be made by the Architect, whose decision shall be final and binding.

The design and aesthetics of the pole, including the bracket and light fitting, shall also be finalized by the Architect during the sampling stage.

The street light poles shall be fabricated from heavy duty steel tubes / Steel Sheets conforming to IS:1239 and hot dip galvanized or painted as specified.

The street light pole shall be fabricated as per the details and dimensions shown in the drawing.

The street light poles shall have base plate, inbuilt Junction Box for streetlight and advertisement signage, and necessary fixture mounting bracket at top.

The Junction box shall provide easy access to a multiway connector and MCB, to be mounted inside the pole. The access shall be specially fabricated with adequate



reinforcement and weather protection gasket to prevent ingress of moisture and vandal proofed.

Poles shall have large diameter entries for incoming and outgoing cables and two earth studs & Spiral earthing.

The poles fabricated shall conform to the drawings and where such drawing is not available, the contractor shall make such drawing and have it approved before fabricated.

The pole shall house a multi-way type terminal block and MCB as shown on the drawings. Poles shall have concrete coping.

Detail drawing of Poles and brackets as per technical specs

Declaration letter from manufacturer confirming business presence of decorative luminaire and pole /brackets for the last 15 years in India

Manufacturer letter confirming average annual turnover of minimum 20 cr for the period of last 5 financial years.

Manufacturer letter confirming selling of minimum of 5000 Nos of offered luminaire and 1000 nos of aluminum base casting pole in India in last 5 years along with PO copies

Manufacturer letter confirming the ownership of the Die/Mold of the Single piece aluminum base casting of 1 mt height of the proposed pole along with photographs and record of possession.. No vendor owned die/ molds shall be accepted.

The material composition certificates of the poles and base single piece aluminum casting from third party NABL approved lab.

ISO 9001, ISO 140001, ISO 45001 , CE certification of the manufacturer.

ZED certification as certified by MSME.

photographs of manufacturing facility including testing equipment /Cutting /Fabrication /Painting /Painting /Paint booth etc.

Structural stability report of pole confirming wind speed of 169 km/hr from third party of the proposed pole.

Report confirming to LM6 grade of single piece base casting of minimum 1 mt

The heritage type decorative bracket to be provided as per the design provided by Architect and Engineer In charge. The sampling to be done of various designs (Designs will be provided by the architect).



6.3 DWC / HDPE Pipe:

The corrugated pipe shall be able to withstand compression test at 750 N when reaching a deflection of 5 %.

7 EARTHING

7.1 EARTHING

The system shall be TNS with four wire supply system (R, Y, B, N and 2 Nos. E) brought from the main L T Panel. All the non-current carrying metal parts of electrical installation and all metal conduits trunking, cable sheaths, switchgear, distribution panels, light fittings and all other parts made of metal shall be bonded together and connected by means of specified earthing conductors to an efficient earthing system. All metal work such as pipe lines, ducts, cable trays, stair case railing etc. shall be bonded to earth.

All earthing shall be in conformity with IS:3043 1987, and the basic system of earthing shall be TNS.

7.2 EARTHING CONDUCTORS

Earthing conductors shall be of copper / GI as mentioned in schedule of quantities and shall be protected against mechanical injury and corrosion.

7.3 SIZING OF EARTHING CONDUCTORS

The cross sectional area of earthing conductor shall not be smaller than half of the largest current carrying conductor subject to an upper limit of 80 Sq.mm. If the area of the largest current carrying conductor or bus bar exceeds 160 sq.mm then two or more earthing conductors shall be used in parallel, to provide at least half the cross sectional area of the current carrying conductor or bus bars. All fixtures, outlet boxes, junction boxes and power circuits up to 15 amps shall be earthed with PVC insulated copper wire.

All 3 phase switches and distribution panels up to 60 amps rating shall be earthed with 2 Nos. distinct and independent 4 mm dia copper / GI wires. All 3 phase switches and distribution panels up to 100 amps rating shall be earthed with 2 Nos. distinct and independent 6 mm dia copper / GI wires. All switches, bus bar, ducts and distribution panels of rating 200 amps and above shall be earthed with minimum of 2 nos separate and independent 25 mm x 3 mm copper / GI tape.

7.4 CONNECTION OF EARTHING CONDUCTORS

Main earthing conductors shall be taken from the earth connections at the main L T panel to an earth electrode with which the connection is to be made. All joints in tapes shall be with four rivets and shall be brazed in case of copper and by welding bolting in case of GI, wires shall be connected with crimping lugs, all bolts shall have spring



washers. Sub- mains earthing conductors shall run from the main distribution panel to the sub distribution panel. Final distribution panel earthing conductors shall run from sub-distribution panel.

Circuit earthing conductor shall run from the exposed metal of equipment and shall be connected to any point on the main earthing conductor, or its distribution panel. Metal conduits, cable sheathing and armoring shall be earthed at the ends adjacent to distribution panel at which they originate, or otherwise at the commencement of the run by an earthing conductor in effective electrical contact with cable sheathing.

Where equipment is connected by flexible cord, all exposed metal parts of the equipment shall be earthed by means of an earthing conductor enclosed with the current carrying conductors within the flexible cord. Switches, accessories, lighting fitting etc. which are rigidly secured in effective electrical contact with a run of metallic conduit shall not be considered as a part of the earthing conductor for earthing purposes, even though the run of metallic conduit is earthed.

The plate/pipe electrode, as far as practicable, shall be buried below permanent moisture level but in no case not less than 2.5 M below finished ground level.

The plate/pipe electrode shall be kept clear of the building foundation and in no case, it shall be nearer by less than 2 M from outer face of the respective building wall / column.

The plate electrode shall be installed vertically and shall be surrounded with 150 mm. thick layers of Charcoal dust and Salt mixture.

19 mm. dia. G.I. pipe for watering, shall run from top edge of the plate / pipe electrode to the mid-level of block masonry chamber.

Top of the pipe shall be provided with G.I. funnel and screen for watering the earth / ground through the pipe.

The funnel with screen over the G.I. pipe for watering to the earth shall be housed in a block masonry chamber as shown in the drawing.

The masonry chamber shall be provided with a Cast Iron hinged cover resting over the Cast Iron frame which shall be embedded in the block masonry.

Construction of the earthing station shall in general be as shown in the drawing and shall conform to the requirement on earth electrodes mentioned in the latest edition of Indian Standard IS: 3043, Code of Practice for Earthing Installation.

The earth conductors (Strips / Wires copper / Hot dip G.I.) inside the building shall properly be clamped / supported on the wall with Galvanized Iron clamps and Mild Steel Zinc Passivated screws / bolts. The conductors outside the building shall be laid at least 600 mm. below the finished ground level.



The earth conductors shall either terminate on earthing socket provided on the equipment or shall be fastened to the foundation bolt and / or on frames of the equipment. The earthing connection to equipment body shall be done after removing paint and other oily substances from the body and then properly be finished.

Over lapping of earth conductors during straight through in joints, where required, shall be of minimum 75mm. long.

The earth conductors shall be in one length between the earthing grid and the equipment to be earthed.

EARTH LEADS AND CONNECTIONS:

Earth lead shall be bare copper or Galvanized steel as specified with sizes shown on drawings. Copper lead shall have a phosphor content of not over 0.15 %. G.I strips buried in the ground shall be protected with bitumen and hessian wrap or polythene faced hessian and bitumen coating. At road crossing necessary Hume pipes shall be laid. Earth lead run on surface of wall or ceiling shall be fixed on saddles so that strip is at least 8 mm away from the wall surface.

The complete earthing system shall be mechanically and electrically bonded to provide an independent return path to the earth source.

7.5 PROHIBITED CONNECTIONS

Neutral conductor, sprinkler pipes, or pipes conveying gas, water or inflammable liquid, structural steel work, metallic enclosures, metallic conduits and lightning protection system conductors shall not be used as a means of earthing an installation or even as a link in an earthing system. The electrical resistance measured between earth connection at the main L T panel and any other point on the completed installation shall be low enough to permit the passage of current necessary to operate or circuit breakers, and shall not exceed 1 ohm. All switches carrying medium voltage shall be connected with earth by two separate and distinct connections. The earthing conductors inside the building wherever exposed shall be properly protected from mechanical injury by running the same in G I pipe of adequate size. The overlapping in strips at joints where required shall be minimum 75 mm. The joints shall be riveted and brazed in case of copper and by welding / bolting in case of GI in an approved manner. Sweated lugs of adequate capacity and size shall be used for termination of all conductor wires above 6 sq.mm size. Lugs shall be bolted to the equipment body to be earthed after the metal body is cleaned of paint and other oily substances and properly tinned. Equipotential bonding of all metallic structures shall be done.

7.6. EARTHING

The following must always be ensured in earthing system.



- All earths must be interconnected at the earth pits. This includes generator neutrals, transformer neutrals, transformer body, lightning protection system earths, UPS earths etc.
- Extraneous conductive parts such as gas pipes, other service pipes and ducting risers and pipes of fire protection equipment and exposed metallic parts of the building structure.

7.7 RESISTANCE TO EARTH

The resistance of earthing system shall not exceed 1 ohm.

7.8 SPECIFICATION FOR HOT DIP GALVANIZING PROCESS FOR MILD STEEL USED FOR EARTHING FOR ELECTRICAL INSTALLATION

GENERAL REQUIREMENTS

I. Quality of Zinc

Zinc to be used shall conform to minimum Zn 98 grade as per requirement of IS:209-1992.

II. Coating Requirement

Minimum weight of zinc coating for mild steel flats with thickness up to 6 mm in accordance with IS:6745-1972 shall be 400 g/sqm.

The weight of coating expressed in grams per square meter shall be calculated by dividing the total weight of Zinc by total area (both sides) of the coated surface.

The Zinc coating shall be uniform, smooth and free from imperfections as flux, ash and dross inclusions, bare patches black spots, pimples, lumpiness, runs, rust stains bulky white deposits, blisters.

Mild steel flats / wires shall undergo a process of degreasing pickling in acid, cold rinsing and then galvanizing. Jointing of earthing tape shall be by welding. All joints and cut ends shall be properly painted with aluminum paint.

7.9 Chemical Earthing System – specification

Earthing system should offer a resistance of less than 2 ohms throughout the year. In places where Soil resistivity is more, total length of the earthing rod has to be increased by adding 1m length rods (one over the other) to achieve low and stable



resistance value. In rocky places, multiple earth rods have to be installed and inter-connected to get the required value.

Solid Copper coated rods are recommended as earth electrode than a pipe due to the fact that solid rods have much longer life and can be easily driven by electric/hydraulic hammers. Copper has much longer life than all other materials as explained in IS 3043. Deep driven rods provide more stable and less Earth Resistance. Doubling the length of the rod will reduce earth resistance up to 40 %, whereas doubling the diameter will reduce the resistance by only 10 %, but may increase the cost by 4 times. Lower earth resistance can also be achieved by increasing the number of earth rods. E.g. 40 % reduction in earth resistance is possible if the rods are increased from 1 to 2. The minimum spacing between earth pits should be equal to TWICE the length of the rod. Increasing the spacing between earth pits also reduces the earth resistance significantly.

Need and importance of Earthing:

- Human and Personnel safety.
- Equipment protection.
- Provides low impedance path for fault currents.
- To ensure good quality power.
- Protection against lightning and transient currents, noise reductions, Limitation of EMI.

References:

IEC 60364: Low Voltage Electrical Installations-Part 5-54: Selection & Erection of Electrical equipment- Earthing arrangement & protective conductors.

IEC 62561: Lightning Protection System Components. Part 1 to 7.

IEC 62305: Protection Against Lightning –Part 3: Protection of structures & life Hazards

IS 2309: Code of practice for protection of buildings & allied structures from lightning

IS 3043: Code of practice for earthing.

Components of earthing system:

- **Earth electrode**



- **Connectors and fasteners**
- **Inspection Chamber (Earth Pit)**
- **Earth enhancement material**
- **Connecting cable/tape/strip with accessories.**

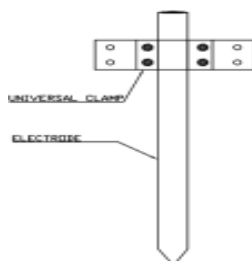
Earth Electrode:

Copper coated Solid Steel Rods shall be made of high tensile low carbon steel rod, molecularly bonded with 99.9% electrolytic copper with minimum coating thickness of 250 microns as per IEC 62561 part -2: Requirement for Conductor & Earth Electrodes. The length of the earth rod shall be 3 meter so that driving into the ground is easier (scaffolding is not necessary). For dry areas, length of the rods can go up to several meters by driving the rods one over the other. Earth rods should be of diameter 20 mm. These rods should have facility to couple with hammer inserts so that they could be driven easily with an electric/hydraulic hammer. Additional rods should be added without external couplers. The earth rods should have peg & bore arrangement so that additional rods are added without external couplers.

Interconnecting Strips / Earthing Conductor: Copper coated steel strips / tapes should be used to interconnect different earthing rods as well as horizontal earthing (Ring earthing). These strips should have a coating thickness of minimum 70 microns.

Couplers / Connecting clamps:

Connectors/fasteners for connecting Electrode with Earthing conductor/strip should be of Stainless Steel as it is compatible with all other materials visa Copper, GI etc. Fasteners should be made of Stainless steel



Inspection Chamber:



Should have an inner dimension of 250 mm x 250 mm x 250 mm made of FRP material. Flush Mounted, removable cover of the earth pit should be able to withstand moderate loads. The area inside the inspection chamber should be such that, the UNIVERSAL CLAMP/EBB/Bus bars not too deep inside the inspection chamber or projecting out of inspection chamber. The chamber should have facility for marking earth resistance and latest testing date by paint at the cover and previous recorded values inside the cover.

Earth Enhancement material:

This is a conductive mineral compound to provide low resistance to the earth termination system. Earth enhancing compound should contain minerals which in normal use is reliable and without creating any hazards to persons and the surroundings. The material shall be chemically inert to sub soil and shall not pollute the environment. It shall provide a stable environment in terms of physical and chemical properties and exhibit low resistivity. It shall not be corrosive to the earth electrode itself. The material should have a resistivity less than 50 Ohm meter.

Installation:

Dig a pit of 1m* 1m * 0.5m depth.

At the centre of the pit, Earth rod of 3 m has to be hammered electrically or hydraulically.

The number of Earth rods can be added one over the other to get the required length.

Fill the dug up area with Earth enhancing compound mixed with water & soil to get slurry form in such a way that the earth inspection pit is in flush with the earth surface.

Connect the connectors with fasteners & connect the down conductors.

Close the lid of earth inspection pit.

Inspection & maintenance:

Maintenance of the earthing system has to be done at least once in 6 months, preferably before the monsoon period and a record should be maintained to verify earthing system conductors and components, electrical continuity, earth resistance value, re-fastening of components viz-nuts, bolts etc.

22.11 Test

The entire earthing installation shall be tested as per requirements of Indian Standard Specification IS: 3043.

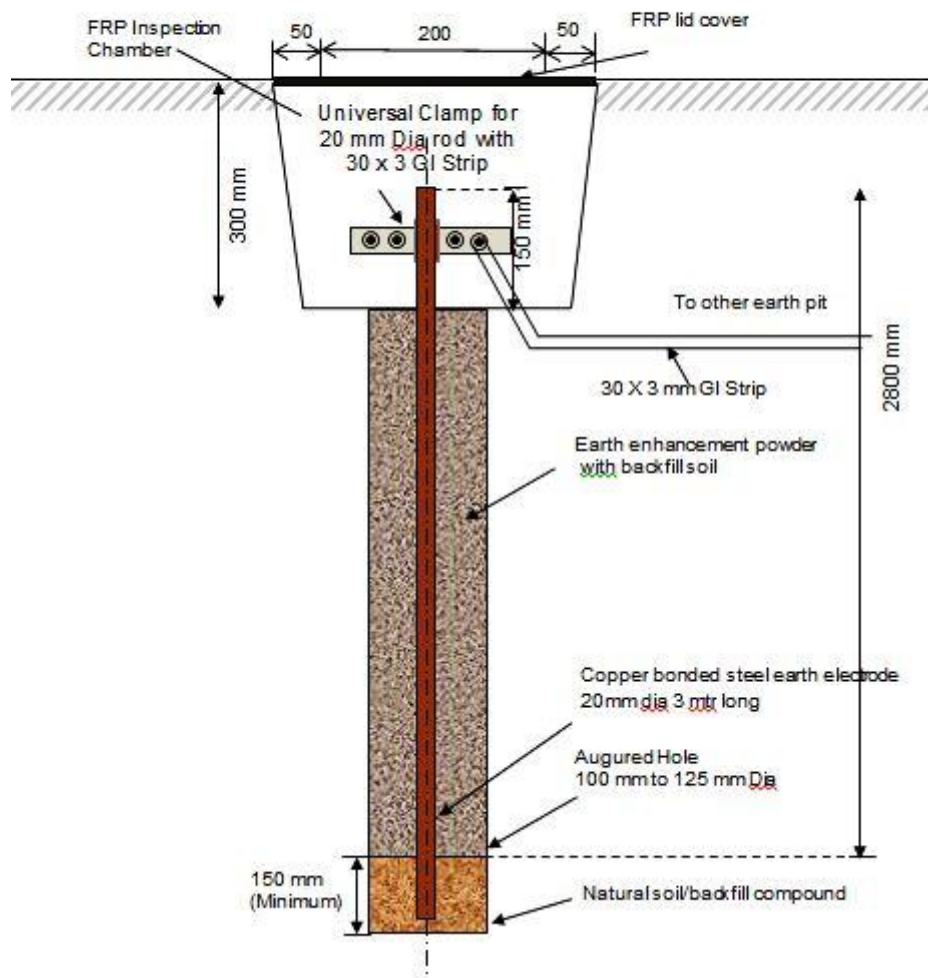
The following earth resistance values shall be measured with an approved earth megger and recorded.

- 1) Each earthing station
- 2) earthing system as a whole
- 3) Earth continuity conductors
- 4) Earth conductor resistance for each earthed equipment shall be measured which shall not exceed 5 ohm in each case.

Measurements of earth resistance shall be carried out before earth connections are made between the earth and the object to be earthed.

All tests shall be carried out in presence of the client's representative/ PMC / Consultant.

Earthing Auguring Method





Installation:

8 ERECTION, TESTING & COMMISSIONING OF ELECTRICAL INSTALLATIONS

8.1 SCOPE

The intent of this specification is to define the requirements for the installation, testing and commissioning of the electrical system like M.V panels, Cables, earthing network and External lighting, Light fixtures etc. Requirement of this project shall be as specified in bill of quantities / approved drawings / general specifications or as per the battery limits fixed by the owner / consultant.

9 STANDARDS

9.1 The work shall be carried out in the best workman like manner in conformity with this specification, the relevant specification / codes of practice of the Indian Standards Institution, approved drawings and the instructions issued by the authorised representative, from time to time. Some of the relevant Indian Standards are listed elsewhere in this tender document.

The following standards and rules shall be applicable:

STANDARD NO.	PARTICULAR
IS 1913	General and safety requirements for light fittings.
IS 1944	Code of practice for lighting public thoroughfares.
IS 3528	Water proof electric lighting fittings.
IS 3553	Water tight electric lighting fittings
IS 1239.	M.S. tubular and other wrought steel pipe fittings.
IS 10322 (Parts / Sec. 3)	Luminaire for street lighting

Indian Electricity Act and rules.

All codes and standards mean the latest. Where not specified otherwise the installation shall generally follow the Indian Standard Code of Practice or the British Standard Code of Practice in the absence of Indian Standard.

9.2 In addition to the standards mentioned in above, all works shall also conform to the requirement of the following:



- Indian Electricity Act and Rules framed thereunder.
- Fire Insurance Regulations.
- Regulations laid down by the Chief Electrical Inspector of the State / State Electricity Board / Union Territory.
- Regulations laid down by the Factory Inspector of the State / Union Territory.
- Any other regulations laid down by the local authorities.
- Installation & operation manuals of original manufacturers of equipment.

10 EQUIPMENT AND ACCESSORIES SPECIFICATIONS:

This defines specifications and requirements mainly for the equipment and accessories, which are generally supplied by the erection agency.

All materials, accessories, consumable to be supplied by the contractor shall be selected from the list of specified make in consultation with the Client/Architect/Consultant without any extra cost and shall conform to the specification given here under. The equipment shall be manufactured in accordance with current Indian Standard specifications wherever they exist or with the BS or NEC specifications, if no such IS standards are available. In the absence of any specification & if any item not mentioned in the make of the material & anywhere else, the materials shall be as approved by the owner / consultant in writing manner.

All similar materials and removable parts shall be uniform and interchangeable with one another. Makes of bought out items selected by the contractor must be furnished by him as per the pro forma given in elsewhere in this tender document. Tenderer should have to specify the list of makes considered in the tender while quoting the rates in the tender, in covering letter of separate letter enclosure. However, the final decision for accepting make specified by tenderer would be of client/Architect/Consultants.

Within a week of work order, the contractor shall submit the sample of each item / component of above mentioned approved make for the approval of the Client/Architect/Consultant.

Bidder to submit authorization letter for supply of light fixtures and lamps only from regional sales manager/director-sales of lighting company with duly signed and stamped with mentioning the name of project, total quantity, type of light fitting etc. The letter should be submitted with valid proof and original documents to consultant. These authorizations are to be obtained prior to supply of material and should be approved by electrical consultant/architect/Client.

11 ERECTION

The contractor shall make his own arrangement for safe transportation of all the items to the erection site and also carry out complete loading / unloading during



transportation. Equipment shall not be removed from packing cases unless the floor has been made ready for installing them. The cases shall be opened in presence of the client / consultant or his authorised representative. The empty packing cases shall be returned to the stores and any document if found with the equipment shall be handed over to the client's representative. Any damage or shortage noticed shall be reported to the client / consultant in writing immediately after opening of packing cases.

11.1 Section feeder Pillar:

TESTING:

Before electrical panel is energized, the insulation resistance of each bus shall be measured from phase to ground. Measurement shall be repeated with circuit breakers in operating positions and contacts open.

Before switchgear is energized, the insulation resistance of all control circuits shall be measured from line to ground.

The following tests shall be performed on all circuit breakers during erection.

- Contact alignment and wipe shall be checked and adjustment where necessary in accordance with the breaker manufacturer's instructions.
- Each circuit breaker shall be drawn out of its cubicles, closed manually and its insulation resistance measured from phase to phase and phase to ground.
- All adjustable direct acting trip devices shall be set using values given by the consultant/ manufacturer.
- The dielectric strength of insulating oil wherever applicable, shall be checked.

Before switchgear is energized, the following tests shall be performed on each circuit breaker in its test position.

- Close and trip the circuit breaker from its local control switch push button or operating handle. Switchgear control bus may be energized to permit test operation of circuit breaker with A.C. closing with prior permission of the client / consultant.
- Test tripping of the electrically operated circuit breaker by operating mechanical trip device.
- Test proper operation of circuit breakers latch, check carriage limit switch if provided. Test proper operation of lockout device in the closing circuit. Wherever provided by simulating conditions which would cause a lockout to occur.
- Trip breaker either manually or by applying current or voltage to each of its associated protective release.
- Before switchgear is energized, the tests covered above shall be repeated with each breaker in its normal operating position.



- Capacitor banks shall be tested as per manufacturer's instructions. In addition, test for output and/or capacitance, insulation resistance test and test for efficiency of discharge device shall be carried out.
- All electrical equipment alarms shall be tested for proper operation by causing alarms to sound under simulated abnormal conditions.

(c) PROFORMA FOR PCC, MCC, DB, CONTROL PANEL TEST:

- Circuit breaker or contactor module designation / bus no.
- Insulation resistance test (contacts open, breaker racked in position)
 - a) between each phase of bus : Mega ohm
 - b) between each phase and earth : Mega ohm
 - c) DC and AC control and auxiliary circuits : Mega ohm
 - d) between each phase of CT / PT and between CT & PT circuit if any : Mega ohm
- CT checks:
 - a) CT ratio
 - b) CT secondary resistance
 - c) CT polarity check
- Check for contact alignment and wipe.
- Check / test all releases / relays.
- Check mechanical interlocks.
- Check electrical interlocks.
- Check switchgear / control panel wiring.
- Check breaker / contactor circuit for:
 - a) Closing - local & remote (wherever applicable)
 - b) Tripping - local & remote (wherever applicable)
- Opening time of breaker / contactor.
- Closing time of breaker / contactor.

[This proforma shall be jointly signed by the CLIENT / PMC and the contractor in duplicate].

11.2 INSTALLATION OF CABLE NETWORK:



Cable network shall include power, control and lighting cables which shall be laid in underground trenches, cable trays, G.I. pipes, or on building structures as detailed in the relevant drawings, cable schedules or as per the client / consultant's instructions. Supply & installation of cable trays, G.I. pipes / conduits, cable glands and sockets of both end isolators, junction boxes, remote push button stations, etc. shall be under the scope of the contractor.

(a) General requirements for handling cables:

Near Each pole 1mtr. Extra Cable length should be provided at both the end.

Before laying cables, this shall be tested for physical damage, continuity, absence of cross phasing, insulation resistance to earth and between conductors. Insulation resistance tests shall be carried out with 500 / 1000 V megger.

The cables shall be supplied at site, wound on wooden drums as far as possible. For smaller length and sizes, cables in properly coiled form can be accepted. The cables shall be laid by mounting the drum of the cable on drum carriage. Where the carriage is not available, the drum shall be mounted on a properly supported axle, and the cable laid out from the top of the drum. In no case the cable will be rolled on as it produces kinks which may damage the conductor.

Sharp bending of cable shall be avoided. The bending radius for PVC insulated and sheathed, armored cable shall not be less than 10 D, where "D" is overall diameter of the cable.

While drawing cables through DWC / G.I. pipes, conduits, RCC pipes, ensure that size of pipe is such that, after drawing cables, 40% area is free. After drawing cables, the end of pipe shall be sealed with cotton / bituminous compound.

High voltage (11 kV and above), medium voltage (240 V and above) and other control cables shall be separated from each other by adequate spacing or running through independent pipes / trays.

Armored cables shall never be concealed in floors / roads without DWC Pipe or RCC pipes.

Joints in the cable throughout its length of laying shall be avoided as far as possible and if unavoidable, prior approval of site engineer shall be taken. If allowed, proper straight through epoxy resin tight joint shall be made, without any additional cost.

minimum loop of 3 mtr. shall be provided on both ends of the cable near SFP, and on both ends of straight through cable joint. This additional length shall be used for fresh termination in future. Cable for this loop shall be paid for supply and laying.

Cable shall be neatly arranged in the trenches / trays in such manner so that crisscrossing is avoided and final take off to the motor / switchgear is facilitated. Arrangement of cable within the trenches / trays shall be the responsibility of the contractor.



All cable routes shall be carefully measured and cable cut to the required lengths and undue wastage of cables to be avoided. The routes indicated in the drawings is indicative only and the same may be rechecked with the PMC before cutting of cables. While selecting cable routes interference with structures, foundations, pipelines, future expansion of buildings etc. should be avoided.

All temporary ends of cables must be protected against dirt and moisture to prevent damage to the insulation. For this purpose, ends of all XLPE insulated cables shall be taped with an approved PVC or rubber insulating tapes. Use of friction type or other fabric type tape is not permitted. Lead sheathed cables shall be plumbed with lead alloy.

Wherever cable rises from underground / concrete / masonry trenches to motors / switchgears / push buttons, these shall be taken in DWC / G.I. pipes of suitable size, for mechanical protection up to 300 mm. distance of concerned cable gland or as instructed by the client / consultant / PMC.

The cable pass through foundation / walls of other underground structures, the necessary ducts for opening will be provided in advance for the same. However, should it become necessary to cut holes in existing foundation of structures the electrical contractor shall determine the location and obtain approval of the client / consultant before cutting is done.

(b) LAYING OF CABLES (UNDERGROUND SYSTEM)

- Electric cable for the street lighting installation shall follow specification under the heading “MEDIUM VOLTAGE ALUMINUM XLPE CABLES” . The cable color shall be yellow color for 4 core $\times$ 10 sq. mm. & Green color for 4 core $\times$ 16 sq. mm. cable & size and AMC shall be embossed / Printed on outer surface of cable at every mtr. Length.
- Cables shall be so laid in trench that this will not interfere with other underground structure. All water pipes, sewage lines or other structures which become exposed by excavation shall be properly supported and protected from injury until the filling has been rammed solidly in places under and around them. Any telephone or other cables coming in the way are to be properly shielded / diverted as directed by the owner / consultant.
- Cable shall be laid at minimum depth of 900 mm. in case of L.T. and 1200 mm. in case of H.T. from ground level. Excavation will be generally in ordinary soil. The width of the trench shall be sufficient for laying of required no. of cables.
- Sand bedding 75 mm. thick shall be made below and above the cables. Layer of bricks (full size) shall be laid above sand bedding on the sides and above the cables to cover cables completely. More than one cable can be laid in the same trench. However, the relative location of cables in trench shall be maintained till



termination. The surface of the ground after back filling the earth shall be made good so as to conform in all respects to the surrounded ground and to the entire satisfaction of the client / consultant.

➤ **For all underground cables, route markers should be used:**

- a) Separate route markers should be used for LT, HT and telephone cables.
 - b) Route markers should be grounded in ground with 1:2:4 cement concrete pedestal size 230 x 230 x 300 mm.
 - c) Cable markers should be installed at an interval not exceeding 30 mtr. along the straight routes of cables at a distance of 0.5 mtr. away from center of cable with the arrow marked on the cable marker plate indicating the location of cable. Cable markers should also be used to identify change in direction of cable route and for location of every joint in underground cable.
- RCC Hume pipe for crossing road in cable laying shall be provided by employer. No deduction shall be made for cable laying in Hume pipe for not providing bricks, sand and excavation. RCC hump pipe at the ends shall be sealed by bituminous compound after laying and testing of cables by electrical contractor without any extra charge.

(D) TESTING OF CABLES:

- i. Before energizing, the insulation resistance of every circuit shall be measured from phase to ground. This requires 3 measurements if one side is grounded and 6 measurements for 3 phase circuits.
- ii. Where splices or terminations are required in circuits rated above 650 volts, measure insulation resistance of each length of cable before splicing and/or terminating. Repeat measurements after splices and/or terminations are complete.
- iii. DC high voltage test shall be made after installation on the following:
 - a) All 1100 volts' grade cables in which straight through joints have been made.
 - b) All cables above 1100 V grade.

For record purpose test data shall include the measured values of leakage current versus time.

The DC high voltage test shall be performed as detailed below:

Cables shall be installed in final position with all the straight through joints complete. Terminations shall be kept unfinished so that motors, switchgear, transformer etc. are not subjected to test voltage.



The test voltage and duration shall be as per relevant codes and practices of Indian Standards Institution.

iv. PROFORMA FOR TESTING CABLES:

DATE OF TEST

- a) Drum No. from which cable taken.
- b) Cable from to
- c) Length of run of this cable meter
- d) Insulation resistance test
 - i) between core-1 to earth mega-ohm
 - ii) between core-2 to earth mega-ohm
 - iii) between core-3 to earth mega-ohm
 - iv) between core-1 to core-2 mega-ohm
 - v) between core-2 to core-3 mega-ohm
 - vi) between core-3 to core-1 mega-ohm
 - vii) duration used : 1 kV
- e) High Voltage test Voltage Duration
 - i) between core-1 to earth
 - ii) between individual cores

[This proforma shall be jointly signed by the CLIENT / PMC and the contractor in duplicate].

12 COMPLETION TESTS:

After supply and installation of complete project or a particular building / area, as per I.E. rules tests shall be carried out by the contractor before switching on the power to installation and the results shall be recorded and submitted to the Site-Engineer. If results are not satisfactory / as per standards set herewith, the contractor shall identify the defects / short coming and shall rectify the same. Nothing extra shall be paid for carrying out these tests and contractor has to arrange all necessary instruments.

13 HANDING OVER / TAKING OVER: (Including all Electrical work...)

After completion of works and tests specified above, the various installations of the project can be taken over by the employer as and when these are ready in all respects after issuance of certificate from Engineer in charge with in fifteen days. The Defect Liability Period cum Maintenance Period of 60 months shall start from the date, when



all the installations of the project have been executed, tested as described above, successfully commissioned and handed over.

The Contractor has to produce the Final as – Built drawings duly signed by Engineer In charge, Consultant, Architect & Client before finalizing the Final bill.

Completion certificate will not be considered if as built drawings not provided by contractor as following.

Final as built documents

- As built drawings with RTP (Reproducible Tracing Paper): 1 Set
- As - built drawings with Colored Print out: 4 Sets
- Soft Copy of the same: 6 Copies
- Instruction and maintenance manual - Six copies.
- Test certificates - Six copies.

14 Defect Liability Period: (Including all Civil, Electrical work)

Defect Liability Period for Electrical work as per following (DLP will start after Final handover to client):

- | | | |
|----|---|-------------------|
| 1) | Section Feeder Pillar & Energy Saver Unit /CCMS
With all internal Circuit breakers & Accessories | : 1 Years. |
| 2) | Poles with galvanizing or Paint | : 1 Years. |
| 3) | Light Fixtures | : 5 Years |
| 4) | All other items except above | : 1 Years |

Any other item not mentioned above for electrical work shall be covered under DLP as per DLP clause mentioned in General specifications.

Security deposit will be released after completion of defect liability period of one year from the date of work completion. Prior to release of this SD, contractor shall have to submit a new SD worth 5% of the value of total LED fixture / any Light Fixtures. (BG will not be allowed for the same)

Turnaround time for Contractor in Defect Liability period for any of the damage & Instruction of Engineer in charge must be less than 2 days & Work should be completed in next 2 days (For Electrical work) or 7 days (for Civil Work). If the contractor fails to comply the same the penalty of Rs. 10,000 / Day (Delay) will be deducted.



LIST OF APPROVED MAKE / MANUFACTURER FOR ELECTRICAL WORK MATERIALS

Sr. No.	Item	Approved Make
1)	Rigid PVC Conduit (FRLS only)	ISI & FIA approved & manufactured from virgin material. Precision Plastic Industries, Nihir, Finolex
2)	Accessories for conduit	Same make as of pipe.
3)	Flexible Copper Wires (FRLS)	Finolex, RR Kable, KEI, Gloster, Polycab, Havells
4)	Switches Use different colour switch & Accessories for Raw & UPS Power IP66 Box and Switches	Legrand (Myrius), MK (Blenze), Norisys Legrand, Scame
5)	MCBs/ELCBs/ELMCBs / Contactor Time Switch (Timer)	Schneider ,Siemens, ABB, L&T,C&S,Crompton
6)	Distribution boards- TPN & SPN DB (IP 65), VTPN DB (IK 43)	Hensel, Spelsberg, Legrand (Plexo 3) Legrand, Schneider MG, ABB, L&T Factory fabricated. double door type, PPI only
		with additional JB on both side
7)	PVC tape	Steel grip, Anchor
8)	Main Cables down Stream	XLPE armoured cable for 1.1 KV as per ISI 1554. Finolex, RR Kable, KEI, Polycab, Havells
9)	Glands	Compression type, Heavy duty and deep threading with rubber ring and double washers. Dowells, HMI (ISI Marked), Commet, Alcon



10)	Cable Lugs	Dowells, HMI (ISI Marked), Commet, Alcon
11)	Metal Clad Plugs	Indoor –Legrand, Scame, Hensel.
		Outdoor - Legrand, Scame, Hensel.
12)	Connectors	ABB, Siemens, Crompton, L&T, C&S, Schneider
13)	Button holder, Angle holder, ceiling rose	Anchor, CPL
14)	M.S. Boxes	Fabricated out of 16 gauge continuously welded
		(sample to be approved) with Powder coating.
15)	MCCB With all kind of communication accessories	Schneider MG (NSX) , Legrand, L&T (Dsine MTX 3.0) , ABB (TMAX)
16)	Meter (Analog Only)	Rushabh, L &T, Conzerv, Schneider
17)	Digital Meter	Schneider, Conserve, Secure Meter, L&T
18)	Steel Wire Rain Forced PVC Flexible Hose	Flaxi - Hose
19)	Changeover Switch	On load type – HPL, C &S, Havell's (Euroload)
20)	DIGITAL meters, Load Manager	Schneider, Conserve, Secure Meter, L&T
21)	Street Light Fixture Decorative	Philips / Kesselec / LT / Neri / Reytek
22)	Post Top & Decorative Light Fixture	Philips / Kesselec / LT / Neri / Reytek
23)	LED Chip	As per specification
24)	LED Driver	Philips, Fulham, Meanwell, Inventronics
25)	Chemical Type Earthing (Copper Road only)	LPI, Ashlok, OBO Betterman.
26)	Energy Meter	L &T, Conserve, Schneider, Secure Meter



27)	CT	AE, Ashok, Kappa, C&S
28)	DWC / HDPE Pipe(Anti Rodent Type Only)	Gemini, Duraline, Astor, Astral

Sr. No.	Item	Approved Make
29)	Outdoor Section Feeder Pillar	Schneider, Siemens. Peaton, SPC, Ecom, Rhine energy, Legrand
30)	Contactor	ABB, Siemens, Crompton, L&T, C&S, Schneider
31)	Panel Accessories	ABB, Siemens, Crompton, L&T, C&S, Schneider
32)	Watertight Plugs enclosure	Gewiss, Hensel, Spelsberg, Scame, Legrand
33)	Timer Switch (Astronomical)	L&T / INDO ASIAN / THEBEN / C & S / Asian
34)	Decorative street light poles	Philips / Keselec / Neri / Reytek / LT
36)	Pole Bracket	Same make as per the Decorative Pole.
35)	B Class ERW GI Pipe	Tata/ Surya / Jindal / Zenith / Asian
36)	Compact Sub Station	Kirloskar, Siemens, Voltamp, Peaton, RHINE Energy, SPC, Crompton
37)	Transformer	Schneider, Voltamp, Crompton, Peaton, Accord, G-son, Siemens, Kirloskar, Mega Volt
38)	H T VCB Breaker / RMU / SF6	Schneider, Siemens, Crompton, Lucy, Jyoti, Areva, L&T, Peaton
39)	Capacitor (MPPH Gas-Filled Type) Thyristors, Reactors	L & T, Epcos, Neptune, Electronicon, Ducati, Siemens, ABB, Schneider, Crompton
40)	Relay	Alstom, Siemens, Schneider, ABB, L&T.
41)	IPFC Relay	Conserve, Secure, Schneider, Ducati, Electronicon, Epcos, Trinity, Bluk., ABB
42)	PLC	Schneider, Siemens, ABB, Allen Bradley



43)	Surge Protector	Obo Betterman, ASCO
44)	H. T. Cable 11 / 11 KV	Finolex, Avocab, KEI, R.R Kabel, Hawells, Polycab
45)	HT Cable Jointing KIT	Raychem, 3M
46)	CCMS Controller and Software	Ecolant/ Olectr/ Memighty /Thorn/ Zumtobel/ Trilux /Tvilight
47)	Integrated Outdoor Lamp Controller (Z-OLC)	Ecolant/ Olectr/ Memighty /Thorn/ Zumtobel/ Trilux /Tvilight
48)	pole-mounted Outdoor Lamp Controller (P-OLC) with NEMA	Ecolant/ Olectr/ Memighty /Thorn/ Zumtobel/ Trilux /Tvilight
49)	HT Cable Jointing KIT	Raychem, 3M

**Annexure – F**

(See Clause 3 of Section 2 – ITB)

PROCEDURE FOR PARTICIPATION IN E-TENDERING**1. Registration of Bidders on E-Tendering Portal:**

All the Contractors registered under Centralized Registration System (CRS) of UDA or the Contractors having applied under CRS shall be eligible for tendering in the designated portal (<https://mptenders.gov.in>). However, the Bidders registered under CRS shall also be required to register themselves on this portal as per guidelines shown on the portal.

Digital Certificates: The Bids submitted online should be signed electronically with a Class III Digital Certificate to establish the identity of the Bidder submitting the Bid online.

2. Preparation and Submission of Bids:

The Bidders must prepare their Bids and submit the Bids online as per procedure given in the portal.

3. Purchase of bid Documents:

For purchasing the bid document, bidders are to pay online as per details given in the portal.

4. Withdrawal Substitution and Modification of Bids:

Bidder can withdraw and modify the bid before the bid submission end date.

**Annexure – G**

(See Clause 4 of Section 2 – ITB)

JOINT VENTURE (JV)

~~If J.V. is allowed following conditions and requirements must be fulfilled:~~

- ~~1. Bids submitted by a joint venture of two or more firms as partners shall comply with the following requirements:~~
 - ~~a. one of the partners shall be nominated as being Lead Partner, and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the partners.~~
 - ~~b. the bid and, in case of a successful bid, the Agreement, shall be signed so as to be legally binding on all partners.~~
 - ~~c. the partner in charge shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the joint venture and the entire execution of the contract, including payment, shall be done exclusively with the partner in charge.~~
 - ~~d. all partners of the joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms, and a statement to this effect shall be included in the authorization mentioned under [c] above, as well as in the bid and in the Agreement [in case of a successful bid].~~
 - ~~e. The joint venture agreement should precisely indicate the role of all members of JV in respect of planning, design, construction equipment, key personnel, work execution, and financing of the project. All members of JV should have active participation in execution during the currency of the contract. This should not be varied/modified subsequently without the prior approval of the employer.~~
 - ~~f. The joint venture agreement should be registered, so as to be legally valid and binding on all partners; and~~
 - ~~g. a copy of the Joint Venture Agreement entered into by the partners shall be submitted with the bid.~~
- ~~2. The figures for each of the partners of a joint venture shall be added together to determine the Bidder's compliance with the minimum qualifying criteria required for the bid. All the partners collectively must meet the criteria specified in full. Failure to comply with this requirement will result in rejection of the joint venture's bid.~~
- ~~3. The performance security of a Joint Venture shall be in the name of the partner Lead Partner/joint venture.~~
- ~~4. Attach the power of attorney of the partners authorizing the Bid signatory(ies) on behalf of the joint venture~~



5. ~~Attach the agreement among all partners of the joint venture [and which is legally binding on all partners], which shows the requirements as indicated in the Instructions to Bidders.~~
6. ~~Furnish details of participation proposed in the joint venture as below:~~

Participation Details	Firm 'A' (Lead Partner)	Firm 'B'	Firm 'C'
Financial			
Planning			
Construction Equipment			
Key Personnel			
Execution of Work (Provide details of contribution on each)			

CLARIFICATION ON JV:

1. ~~Annexure-G (Page 24) of the bid document describes the conditions and requirements to be applied/fulfilled in case of bidding by the joint venture (J.V.). For the purpose of evaluating technical bids, it is hereby clarified that in addition to the conditions contained in Annexure-G of the bid document, the partners of J.V. should satisfy the qualification criteria as below:—~~
 - a. ~~The lead partner must have a share of minimum 51% in the J.V.~~
 - b. ~~The other partner(s) must have a share of minimum 26% in the J.V.~~
 - c. ~~The lead partner and the other partner must also meet 51% and 26% of the all qualification criteria respectively except for the requirement of work experience described in Annexure-I 1(A) (Page 27). However, both the partners must satisfy the full (100%) qualification criteria jointly. For this purpose, the qualification of individual partners shall be added (for Annual Average Turn Over and for Bid Capacity only).~~
 - d. ~~Following clarification / amendment is hereby done in requirement contained in Annexure-I 1(A) for J.V:~~
 - i. ~~Out of three similar works of value more than 20% of PAC, at least two works must be done by lead partner and one work to be done by other partner,~~
 - ~~OR~~
 - ii. ~~Out of two similar works of value more than 30% of PAC, at least 1 (One) work must be done by lead partner and 1 (One) work to be done by other partner,~~



OR

- iii. ~~In case of one similar work of value more than 50% of PAC the lead partner must satisfy the criteria. However, the other partner must satisfy the criteria in (i) above i.e., at least one work of 20% of PAC.~~

**Annexure – H**

(See Clause 12 of Section 2 – ITB and Clause 4 of GCC)

ORGANIZATIONAL DETAILS
(To be contained in **Envelope – A**)

Sr. No.	Particulars	Details
1	Registration number issued by Centralized Registration System of Govt. of M.P. or Proof of application for registration.	(if applicable scanned copy of proof of application for registration to be uploaded)
2	Valid Registration of bidder in appropriate class through Centralized Registration of Govt. of MP	Registration No. - Date – (Scanned copy of Registration to be uploaded)
3	Name of Organization / Individual/ Proprietary Firm / Partnership Firm	
4	Entity of Organization - Individual / Proprietary Firm / Partnership Firm (Registered under Partnership Act) / Limited Company, (Registered under the Companies Act-1956) / Corporation / Joint Venture	
5	Address of Communication	
6	Telephone Number with STD Code	
7	Fax Number with STD Code	
8	Mobile Number	
9	E-mail Address for all communications	
	Details of Authorized Representative	
10	Name	
11	Designation	
12	Postal Address	
13	Telephone Number with STD Code	
14	Fax Number with STD Code	
15	Mobile Number	
16	E-mail Address	

Note: In case of partnership firm and limited company certified copy of partnership deed / Articles of Association and Memorandum of Association along with registration certificate of the company shall have to be enclosed.

Signature of Bidder with Seal and Date:

**Annexure – I**

(See Clause 14 of Section 2 – ITB)

IMPORTANT INFORMATION TO BE PROVIDED BY BIDDER(To be contained in **Envelope – B**)

The technical proposal shall comprise the following documents:

Sr. No.	Particulars	Details to be submitted
1	Declaration / Undertaking	Annexure – I (Format: I-1)
2	Company / Firm Related information	Annexure – I (Format: I-2)
3	Information about Bid Capacity	Annexure – I (Format: I-3)
4	Summary of Similar Completed Projects during last 5 years	Annexure – I (Format: I-4)
5	Detailed information about Similar completed projects by Bidder	Annexure – I (Format: I-4.a)
6	Information about Information about the key personnel	Annexure – I (Format: I-5)
7	Information about litigation history	Annexure – I (Format: I-6)
8	Information about Construction Plant and Equipment	Annexure – I (Format: I-7)
9	Format for MoU with Specialized Agency	Annexure – I (Format: I-8)
10	List of key equipment for Quality Control Lab	Annexure – I (Format: I-9)

Note:

- i. Technical proposal should be uploaded duly page numbered and indexed otherwise*
- ii. Technical proposal uploaded otherwise will not be considered.*



Annexure – I (Format: I-1)
(See Clause 14 of Section 2 – ITB)

DECLARATION / UNDERTAKING

[Letter head of the Bidder firm including full postal address, telephone nos., fax no., telex no., E mail address & website]

[Location _____, Dt. __/__/____]

To:	
Chief Executive Officer	
Ujjain Development Authority	
Ujjain	

Dear Sir,

Being duly authorized to represent and act on behalf of

_____ (hereinafter “the Bidder”), and having reviewed and fully understood all the prequalification information provided, the undersigned hereby apply to be prequalified by yourselves as a tenderer for the following contract under the **[Name of Project]**

Contact Name	Contact Number

Attached to this letter are copies of original documents (attested true copies) defining:

- The Bidder's legal status.
- Its principal place of business; and
- Its place of incorporation (for Applicants which are corporations); or its place of registration (for applicants which are partnerships or individually owned firms).

You and your authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects.

This Letter of Application will also serve as authorization for any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and as requested by you to verify



statements and information provided in this application, such as the resources, experience, and competence of the Bidder.

This application is made in the full understanding that:

- a) PQ Bids by Bidder/s will be subject to verification of all information submitted for prequalification at the time of bidding.
- b) "Client" reserves the right to:
 - i. Amend the scope and value of any contracts tendered under this project, in such event, tenders will only be invited from pre-qualified applicants who meet the revised requirements.
 - ii. Reject or accept any application, cancel the prequalification process, and reject all application; and
- c) "Client" shall not be liable for any such actions and shall be under no obligation to inform the Bidder of the grounds for such actions.

The undersigned declare that the statements made, and the information provided in the duly completed application are complete, true and correct in every detail.

I/We agree that the decision of "Client" in selection of Bidder, phasing of works and in any other project related matter, will be final and binding to me / us.

Yours Sincerely,

For and on behalf of	
Authorized Signature with stamp	
Name and title of Signatory	
Name of the firm:	
Address	



Annexure – I (Format: I-2)
(See Clause 14 of Section 2 – ITB)

COMPANY / FIRM RELATED INFORMATION

a)	Name of the organization/firm:	
b)	Address of the organization/firm:	
	Phone nos.:	
	Fax no.:	
	E-mail:	
c)	Name & Particulars of the Authorized Representative for the details furnished hereinafter:	
d)	Annual Turnover of the Bidder for the last 5 financial years (in Rs. Crores):	
	1) 2024-2025	
	2) 2023-2024	
	3) 2022-2023	
	4) 2021-2022	
	5) 2020-2021	
	Average:	
e)	Type of the Organization including particulars of Proprietor / Partners / Directors:	
	(Sole Proprietorship, Partnership, Private Ltd., Co-operative Body etc.)	
	(Attested copy of Deeds or Memorandum of Association to be enclosed)	
	1)	
	2)	
	3)	
4)		



f)	Certificates:	
	1) Employees Insurance Schemes Registration Certificates:	
	2) P.F. Registration Certificates.	
g)	Name of bankers and full address:	
	1)	
	2)	
h)	Financial Resources of Company:	
	(Rest. in Crores.)	
	1) Bank Facilities Available (Please attach copies wherever applicable)	
	Overdraft:	
	Guarantees:	
	Letters of Credit:	
	Others:	
i)	Information about Registered office, Head office and Branch office	

Note: The bidder / applicant should have to fill this information on their company letter head and enclosed separately.

**Annexure – I (Format: I-3)**

(See Clause 14 of Section 2 – ITB)

INFORMATION ABOUT BID CAPACITY

The bid capacity shall be worked out using the formula: -

Bid capacity = $[1.5 \times A \times B] - C$ = _____ (to be filled by Applicant)

Sr. No.	Nomenclature	Description	Details
01	A	Maximum annual financial turnover of civil construction works of last 5 years (as per table – 1 below) 10% weightage per year shall be given to bring the value of work executed at present price level.	
02	B	Number of years (1 years) prescribed for completion of work for which bid has been invited.	
03	C	Value of existing commitments against ongoing works that is scheduled to be completed simultaneously with this work i.e., for which bid has been invited (as per table – 2 below)	

Table – 1: For Calculation of A

	2020 - 21	2021 - 22	2022 - 23	2023- 24	2024- 25	Maximum Value
Annual financial turnover of civil construction works (Rs. in Crores)						

Table – 2: For Calculation of C:

Sr. No.	Name of work	Contract Amount (Rs. in Crores)	Value of works completed as on date of bid opening	Value of existing commitments against ongoing works that is



			(Rs. in Crores)	scheduled to be completed simultaneously with this work i.e., for which bid has been invited (Rs. in Crores)
1				
2				
3				
			Total Value	

Note: Bidder may add rows in the above table (format) as per their list of ongoing projects.

- The value of completed works shall be brought to current costing level by following enhancement factor. Enhancement factor shall be applicable from the year of completion of project as per completion certificate.

Year	Financial Year	Enhancement Factor
B -1	2024-2025	1.00
B -2	2023-2024	1.10
B -3	2022-2023	1.21
B -4	2021-2022	1.33
B -5	2020-2021	1.46

Note: Above criteria are indicative, subject to suitable stipulations by the departments and specific Bid.

- Annual turnover of construction should be certified by the Chartered Accountant.
- Audited balance sheet including all related notes, and income statements for the above financial year to be enclosed.

**Annexure – I (Format: I-4)**

(See Clause 14 of Section 2 – ITB)

SUMMARY OF COMPLETED SIMILAR PROJECTS BY BIDDER DURING LAST 5 YEARS

Sr. No.	Year	Project Name	Client	Actual Project Cost (Rs. Crores)	Scope of Work which is similar to the project	Project duration (as per contract) (in months)	Actual duration (in Months)
Similar Project No. – 1							
Similar Project No. – 2							
Similar Project No. – 3							
Similar Project No. – 4							

**** Bidder may add rows as per their list of executed projects.**

Note: Copy of Original or attested copies of work order, final completion certificate from client has to be attached.



Annexure – I (Format: I-4.a)
(See Clause 14 of Section 2 – ITB)

**DETAILED INFORMATION ABOUT SIMILAR COMPLETED PROJECT BY
BIDDER**

1	Project name:	
2	Client:	Name:
		Address:
		Contact number:
3	Principal Architect:	Name:
		Address:
		Contact number:
4	Structural Consultant:	Name:
		Address:
		Contact number:
5	Service Consultants:	Name:
		Address:
		Contact number:
<u>Project Data:</u>		
1	Type of Project	
	Scope of work which is similar to the project such as exposed concrete work.	
	Tendered Project cost (in Rs. Crores):	
	Actual project Cost (in Rs. Crores):	
2	Technical Data of Project	
	Total Roadwork of various ROW with breakup of sub-base and cement concrete pavement (RMT/SQMT/CUM)	



3	Project Timeline	
	Project duration (as per contract): (in months)	
	Work done per month (in Rs. Crores) – Certificate from Client to be submitted.	
	Start date as per LOI (dd/mm/yyyy):	
	Actual Completion date as per final completion certificate issued by client (dd/mm/yyyy):	
	Actual duration (Months):	
	Reasons for delay (if any):	
	4	Colored Project Photographs showing below:
	a) Overall view	
	b) CC Road Works	
	c) Additional photographs that demonstrate the workmanship of work	
	Additional Data	
	Any penalty/ Bonus:	
	Litigation History, If any	
	Any claim/Dispute pending (with details of claim and award if any):	
	Amount of claim / penalty	
	Client Certificates attached:	Yes / No

Note: Copy of Original or attested copies of work order, final completion certificate from client has to be attached.



Annexure – I (Format: I-5)
(See Clause 14 of Section 2 – ITB)

QUANTITIES EXECUTED BY BIDDER DURING LAST 5 YEARS

Sr. No.	Year	Project Name	Client	Actual Project Cost (Rs. Crores)	Scope of Work	Quantity	
						Road length (KM)	CC Road Work (CUM)
	2026						
1							
2							
	2025						
1							
2							
	2024						
1							
2							
	2023						
1							
2							
	2022						
1							
2							
	2021						
1							
2							
	2020						
1							
2							

Note: Copy of Original or attested copies of work order, final completion certificate from client has to be attached.



Annexure – I (Format: I-6)
(See Clause 14 of Section 2 – ITB)

INFORMATION ABOUT THE KEY PERSONNEL

The bidder shall ensure the availability for this work minimum key personnel as given in the following table. Detailed biodata of Project Manager and Materials & Quality Control engineer shall be submitted as per the below given forms.

Sr. No.	Personnel	Qualification	No. of Person
1	Project Manager	B.E. Civil + 15 Years Experience (10 Years as Manager)	1
2	Senior Site Engineer	B.E. Civil + 8 Years Experience or Dip. Civil + 10 Years Experience	2
3	Planning Engineer	M.E. in Construction Management + 5 Years Experience or B.E. Civil + 10 Years Experience	1
4	Senior Quantity Surveyor	B.E. Civil + 8 Years Experience or Dip. Civil + 10 Years Experience (4 Years in Similar Work)	1
5	Contracts Manager	B.E. Civil + 8 Years Experience or Dip. Civil + 10 Years Experience (4 Years in Similar Work)	1
6	Plant Engineer	B.E. Civil + 5 Years Experience or Dip. Civil + 8 Years Experience	1
7	Senior Surveyor	B.E. Civil + 5 Years Experience or Dip. Civil + 8 Years Experience	1
8	Junior Surveyor	B.E. Civil + 5 Years Experience or Dip. Civil + 8 Years Experience	2
9	Material & Quality Control Engineer	B.E. Civil + 2 Years Experience or Dip. Civil + 3 Years Experience	1



10	Junior Site Engineer	B.E. Civil + 5 Years Experience or Dip. Civil + 8 Years Experience	3
11	Environment & Occupational Health and Safety Officer	B.E. Civil/Environmental Engineering + 5 Years Experience or PG Dip. Occupational Health and Safety + 5 Years Experience	1
Total			15

Form A – Information of Director/owner of company

1	Name	
2	Date of Birth	
3	Qualification with Year	
4	Years of Experience	

Form B - Information of the technical personnel proposed for this Project.

Sr. No.	Proposed position for this project	Name of Candidates
1.		
2.		
3.		
4.		
5.		
6.		
7.		

Note: Bidder will have to submit detailed CV for each person specified in each category as per the prescribed Form- B, below.

**Form C – Curriculum Vitae**

1	Proposed position for this project	
2	Name of candidate	
3	Date of Birth	
4	Qualification with Year	
5	Total Experience (in Years)	
6	Years with the present Employer	
7	Details of similar projects executed by applicant **	
7.1	Name of Project	
7.2	Name of Client	

Summarize professional experience over the last 10 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project:

From	To	Company / Project / Position / Relevant technical and management experience / Type of Project
**		

**** Bidder may add rows as per their list of executed projects.**



Annexure – I (Format: I-7)
(See Clause 14 of Section 2 – ITB)

INFORMATION ABOUT LITIGATION HISTORY

Bidder should provide information on any history or arbitration resulting from contracts in last five year or currently under execution.

Year	Award for / or Against Bidder	Name of Client cause of litigation and matter of dispute	Disputed amount in Rupees

Note: *If the information to be furnished in this schedule will not be given and comes to notice, it will subsequently result in disqualification of the bidder.*



Annexure – I (Format: I-8)
(See Clause 14 of Section 2 – ITB)

INFORMATION ABOUT CONSTRUCTION PLANT AND EQUIPMENT

Sr. No.	Type of Equipment	Capacity	Max. Age as on 31st March 2026	No. of Working Equipment
1	Cranes	50 tonnes	5 Years	1
2	Cranes	75 tonnes	5 Years	1
3	D G set	75/125 KVA	2 Years	3 working + 2 standbys
4	Concrete batching and mixing plant	60 Cum/Hr	3 Years	1 set
5	Concrete pumps		3 Years	1 set
6	Concrete Vibrators (Needle, Surface vibrators)	As per requirement	1 Year	
7	Reinforcement cutting and bending Machine		1 Year	3 sets
8	Transit mixer	4.5 / 6 Cum	5 Years	6 Nos.
9	Dewatering Pumps	As per requirement	2 Years	
10	Tippers/ Dumpers	5 / 10 Cum	5 Years	9 Nos
11	Hydraulic Motor Grader		5 Years	1 No
12	Water tanker/sprinkler	10 cum	2 Years	3 Nos
13	Surveying Equipment		2 Years	3 Nos
14	Total Station		2 Years	2 Nos
15	Plate compactor		2 Years	3 Nos
16	Air compressor		2 Years	3 Nos
17	Concrete breaker		2 Years	3 Nos
18	Welding machine		2 Years	9 Nos
19	Shuttering Plates/System	Full height shuttering made from 4 mm thick plate	Only New one as per requirement	200 Sqm
20	JCB		3 Years	3 Nos
21	Concrete mixer machine with batching	2 Bag	1 Year	1 Nos
22	Hydra Crane	8 Tonne	3 Years	3 Nos



23	Tandem Vibratory Roller	Minimum 8 tonne	3 Years	3 Nos
24	Tandem Vibratory Roller for compaction of edges (self-propelling)	Minimum operating weight 1 tonne	2 Years	3 Nos
25	Boom Placer		3 Years	1 Nos

- The documents regarding ownership of machinery / equipment etc and **self-attested** copies of hire purchase agreement if it must be enclosed and for to be procured the copy of work order placed shall be furnished.
- If leased indicate the date when the current lease expires.
- Describe the fabrication and workshop facilities (a) to be set up at site (b) to be subcontracted locally (c) to be set up any other place with relevant details.
- The above information shall be supported with necessary documents otherwise, the same shall be treated as null & void.
- For equipment on lease/rent, bidder shall submit lease/rental agreement on notarized stamp paper of Rs. 100 for total duration of the project.
- Contractor shall deploy other necessary machinery/equipment not listed here required for construction of the project.

DETAILS OF EQUIPMENTS WHICH WILL BE USED BY THE BIDDER FOR THE PROPOSED WORKS:

Description (Type, Model Make etc.)	Manufacturer with year of manufacture	Capacity	Nos. proposed to be used for the work.

The Bidder hereby confirms that the quality and type of equipment he will deploy for construction will not be less than listed above, and he agrees to provide more equipment, if so, wanted in the opinion of the engineer, at no extra cost to the UDA.



Annexure – I (Format: I-9)
(See Clause 14 of Section 2 – ITB)

List Of Key Equipment/ Machines For Quality Control Labs

Minimum requirement			Available with the bidder		
Sr. No.	Name of Equipment/ Machinery	Quantity	Sr. No.	Name of Equipment/ Machinery	Quantity
Machinery and Equipment Required for Conducting Test as per MORTH Specification Latest Revision					

Note: It is clarified that the minimum requirement is a mandatory requirement and part of technical bid, but the pre-qualification is not to be done on the basis of these criteria.



Annexure – I (Format: I-10)
(See Clause 14 of Section 2 – ITB)

MoU WITH SPECIALIZED AGENCY

MEMORANDUM OF UNDERSTANDING (MOU) FOR _____ (Name of Specialized Work).

This MEMORANDUM OF UNDERSTANDING herewith referred to as MOU made on this day of _____ at _____ (Location) by and between:

Name of Bidder with address

AND

Name of Specialized Agency with address for **(name of Specialized Work)**

And assigns hereinafter referred to as “Parties” in the collective sense and each of which is referred to as

Name of Bidder & Name of Specialized Agency in the individual sense.

WHEREAS Ujjain Development Authority (UDA) (herein referred to as Employer) has invited tender (hereinafter referred to as the (“project”) for the following work:

Name of the work

WHEREAS if the said project is awarded to “_____ (Name of the bidder)” to execute the said project and it would also need items of “_____ (Name of Specialized Work) Work” and we the “_____ (Name of the bidder)” hereby enter into this MoU with “_____ (Name of Specialized Agency) “ for timely execution of various items of _____ (Name of Specialized work) Works as per the tender conditions and schedules there-in and further we mutually agree to execute the said project jointly but “_____ (Name of the bidder)” will be solely responsible for the execution of the said projects as per the Bidding Documents.

IN WITNESS WHEREOF all the parties mentioned herein above have signed this MoU on the day, month and year first above mentioned.



No change shall be made in this agreement without prior consent of Employer and other party.

However, if the employer directs the parties to make changes in MoU agreement so as to fulfil the tender condition/requirement, the parties shall discuss with the employer and shall mutually agree for such changes as may be required to be made in the agreement.

In the interest of timely completion of the project, after discussion and getting all the details from the Employer, “_____ (Name of Specialized Agency)” assures to meet the milestones and desired target of the projects.

We are aware that, in case the above schedule is not met with by us, we shall be liable for paying the Liquidated damages as prescribed in the tender documents for non-fulfilment of assured scope of work.

Bidder shall fill this CHECK LIST and ensure that all details / documents as mentioned in the tender documents are submitted along with their Bid. Please tick the box and ensure compliance and specify the Page no. of pre-qualification bid submitted.

Sr. No.	Details / Documents	Compliance	Page No.
		(Yes / No)	
Documents required for Mandatory Criteria			
1.	Copy of certificate from CA for turnover data along with copy of audited Balance sheets for last three financial years, submitted		
2.	Calculation of Bid Capacity (Form I-3), submitted		
3.	Copy of work order and final completion certificate issued by client to the contractor for similar projects along with quantities.		
4.	Summary of similar completed projects (Form I-4)		
5.	Details of similar completed projects (Form I-4a)		
6.	Quantities Executed in similar projects during last 5 years (Form I- 5)		
7.	Client's Certificate for Work Start and Completion		



8.	Information about the key personnel (Form I-5)		
9.	Information about Litigation History (Form I-7)		
10.	Information about Construction Plant and Equipment (Form I-8)		
Other Documents			
11.	Notarized affidavit for not having blacklisting history with Government, Semi-Government, Boards or Corporation and etc.		
12.	Copy of P.F. Registration Certificates, submitted		
13.	If name of the firm changed since establishment, details (certificate) for the same, submitted		
14.	Declaration / Undertaking (Form I-1), Submitted		
15.	Power of Attorney / Authorization letter in favour of signatory of Bid, submitted		
16.	Company / Firm related information (Form I-2), submitted		
17.	Attested copy of Deeds or Memorandum of Association, submitted		
18.	Copy of Employees Insurance Schemes Registration Certificates, submitted		
19.	Copies of Financial resources / Bank facilities, whichever applicable, submitted		
20.	Profile of Owner / Director along with Passport size Photographs and Qualification certificate submitted		
21.	Curriculum vitae of all key personnel (Form I-6: Form A, Form B & Form C), submitted		
Documents for complete submission			
22.	Similar Project – along with below mentioned details, submitted		
23.	Evidence of Client / 3rd party audits for Quality assurance system.		
24.	Progress Monitoring Reports for monitoring system signed by client.		



25.	Photographs for quality of construction (Form I-4a)		
26.	MoU with Specialised Agency (Form I-9)		

**Annexure – J**

(See Clause 14 of Section 2 – ITB)

FINANCIAL BID(To be contained in **Envelope – C**)**Name of Work:** Construction of Proposed Road of Block 1A & 2 (Package 1) at Ujjain

I/We hereby bid for the execution of the above work within the time specified at the rate @.....or at par based on the Bill of Quantities and item wise rates given therein in all respects and in accordance with the specifications, designs, drawings and instructions in writing in all respects in accordance with such conditions so far as applicable. I/We have visited the site of work and are fully aware of all the difficulties and conditions likely to affect carrying out the work. I/We have fully acquainted ourselves with the conditions in regard to accessibility of site and quarries/kilns, nature, and the extent of ground, working conditions including stacking of materials, installation of tools and plant conditions affecting accommodation and movement of labour etc. required for the satisfactory execution of contract.

Should this bid be accepted, I/We hereby agree to abide by and fulfill all the terms and provisions of the said conditions of contract annexed hereto so far as applicable, or in default thereof to forfeit and pay to the Governor of Madhya Pradesh or his successors in office the sums of money mentioned in the said conditions.

Note:

- i. *Only one rate of percentage above or below or at par based on the Bill of Quantities and item-wise rates given therein shall be quoted.*
- ii. *Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found lower of the two shall be taken as valid and correct rate. If the bidder is not ready to accept such valid and correct rate and declines to furnish performance security and sign the agreement his earnest money deposit shall be forfeited.*
- iii. *In case the percentage "above" or "below" is not given by a bidder, his bid shall be treated as non-responsive. 1*
- iv. *All duties, taxes, and other levies payable by the bidder shall be included in the percentage quoted by the bidder.*

Signature of Bidder**Name of Bidder**

The above bid is hereby accepted by me on behalf of the Governor of Madhya Pradesh dated the..... day of 2026.

Signature of Officer (by whom accepted)

**Annexure – K**

(See Clause 15 of Section 2 – ITB)

MATERIALS TO BE ISSUED BY THE DEPARTMENT

Sr. No.	Name of material	Rate (Issue rate)	Unit	Remarks
NIL				

**Annexure – L**

(See Clause 21 of Section 2 – ITB)

LETTER OF ACCEPTANCE**No.** _____**Dated** _____**To,**M/s _____
(Name and address of the contractor)**Subject –** _____
(Name of the work as appearing in the bid for the work)

-X-X-

Dear Sir (s),

Your bid for the work mentioned above has been accepted on behalf of the Governor of Madhya Pradesh at your bided percentage _____ below / above or at par the Bill of Quantities and item wise rates given therein.

You are requested to submit within 15 (Fifteen) days from the date of issue of this letter:

- a. The performance security/ performance guarantee of Rs _____ (in figures) (Rupees _____ in words only). The performance security shall be in the shape of term deposit receipt bank guarantee of any nationalized / schedule commercial bank valid up to three months after the expiry of defects liability period.
- b. Sign the contract agreement.

Please note that the time allowed for carrying out the work as entered in the bid is _____ months including/ excluding rainy season, shall be reckoned from the date of signing the contract agreement.

Signing the contract agreement shall be reckoned as intimation to commencement of work and no separate letter for commencement of work is required. Therefore, after signing the agreement, you are directed to contact the Engineer-in-charge for taking possession of site and necessary instructions to start the work.

Yours Faithfully**Executive Engineer,
UDA Ujjain**

**Annexure – M**

(See Clause 21 of Section 2 – ITB)

BID SECURITY (BANK GUARANTEE)

WHEREAS _____ (name of Bidder) (hereinafter called 'the Bidder') has submitted his Bid dated: _____ (date) for the construction of _____ (name of Contract hereinafter called 'the Bid')

KNOW ALL PEOPLE by these presents that we _____ (name of Bank) of _____ (name of country) having our registered office at _____ (hereinafter called 'the Bank') are bound unto _____ (name of the Executive Engineer) in the sum of _____ * for which payment well and truly to be made to the said _____ (name of the Executive Engineer) the Bank itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 20__.

THE CONDITIONS of this obligation are:

- (1) If after Bid opening the Bidder withdraws his bid during the period of Bid validity specified in the Form of Bid.

OR

- (2) If the Bidder has been notified to the acceptance of his bid by the name of the Executive Engineer during the period of Bid validity
- (a) fails to execute the Form of Agreement in accordance with the Instructions to Bidders, if required.

OR

- (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders.

We undertake to pay to the (name of the Executive Engineer) up to the above amount upon receipt of his first written demand, without the (name of the Executive Engineer) having to substantiate his demand, provided that in his demand of (name of the



Executive Engineer) will note that the amount claimed by him is due to him owing to the occurrence of one or any of the two conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 180 ** days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the (name of the Executive Engineer), notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank no later than the above date.

DATE _____

SIGNATURE _____

WITNESS _____

SEAL _____

(Signature, name, and address)

** The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Bid Data Sheet at reference 17.*

*** EMD should be valid for a period of Six Months of more.*

**Annexure – M-1**

(See Clause 21 of Section 2 – ITB)

PERFORMANCE SECURITY

To

..... (name of Employer)
..... (address of Employer)

WHEREAS [name and address of Contractor]
(Hereinafter called "the Contractor") has undertaken, in pursuance of Letter of
Acceptance No. dated to execute
..... [name of Contract and brief description of Works] (hereinafter
called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the
Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum
specified therein as security for compliance with his obligation in accordance with the
Contract.

AND WHEREAS we have agreed to give the Contractor such a Bank
Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and
responsible to you on behalf of the Contractor, up to a total of (Amount
of guarantee)* (in words), such sum being payable in the types and
proportions of currencies in which the Contract Price is payable, and we undertake to
pay you, upon your first written demand and without cavil or argument, any sum or
sums within the limits of (Amount of guarantee) as
aforesaid without your needing to prove or to show grounds or reasons for your
demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the
contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms
of the Contract of the Works to be performed there under or of any of the Contract



documents which may be made between you, and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until 3 (three) months from the date of expiry of the Defect Liability Period.

Signature, Name and Seal of the guarantor

Name of Bank

Address

Phone No., Fax No., E-mail Address, of Signing Authority

Date

** An amount shall be inserted by the Guarantor, representing the percentage the Contract Price specified in the Contract including additional security for unbalanced Bids, if any and denominated in Indian Rupees.*



SECTION – 3
Conditions of Contract
Part I – General Conditions of Contract

Table of Clauses

Clause No.	Particulars	Clause No.	Particulars
A. General		21	Payments for Variations and / or Extra Quantities
1	Definitions	22	No compensation for alterations in or restriction
2	Interpretations and Documents		
3	Language and Law	23	No Interest Payable
4	Communications	24	Recovery from Contractors
5	Subcontracting	25	Tax
6	Personnel	26	Check Measurements
7	Force Majeure	27	Termination by Engineer in Charge
8	Contractor's Risks	28	Payment upon Termination
9	Liability For Accidents to Person	29	Performance Security
10	Contractor to Construct the Works	30	Security Deposit
11	Discoveries	31	Price Adjustment
12	Dispute Resolution System	32	Mobilization and Construction Machinery Advance
B. Time Control		33	Secured Advance
13	Programme	34	Payments Certificates
14	Extension of Time	E. Finishing the Contract	
15	Compensation for Delay	35	Completion Certificate
16	Contractor's quoted percentage	36	Final Account
		F. Other Conditions of Contract	
C. Quality Control		37	Currencies
17	Tests	38	Labor
18	Correction of Defects noticed during the Defect Liability Period	39	Compliance with Labor Regulations
D. Cost Control		40	Audit and Technical Examination
19	Variations - Change in original Specifications, Designs, Drawings, etc.	41	Death or Permanent Invalidity of Contractor
20	Extra Items	42	Jurisdiction



A. GENERAL

1. DEFINITIONS

- 1.1 Bill of Quantities means the priced and completed Bill of Quantities forming part of the Bid.
- 1.2 Chief Engineer: means senior most engineer of UDA, Ujjain.
- 1.3 Completion: means completion of the work as certified by the Engineer-in- Charge in accordance with provisions of agreement.
- 1.4 Contract: means the Contract between the Employer and the Contractor to execute, complete and/or maintain the work. Agreement is synonym of Contract and carries the same meaning wherever used.
- 1.5 Contract Data means the documents and other information which comprise of the Contract.
- 1.6 Contractor: means a person or legal entity whose bid to carry out the work has been accepted by the Employer.
- 1.7 Contractor's bid: means the completed bid document submitted by the Contractor to the Employer.
- 1.8 Contract amount: means the amount of contract worked out on the basis of accepted bid.
- 1.9 Completion of work: means completion of the entire contracted work. Exhaustion of quantity of any particular item mentioned in the bid document shall not imply completion of work or any component thereof.
- 1.10 Day: means the calendar day.
- 1.11 Defect: means any part of the work not completed in accordance with the specifications included in the contract.
- 1.12 Department: means Department of the State Government viz. Water Resources Department, Ujjain Development Authority, Public Health Engineering Department, Rural Engineering Service and any other organization which adopts this document.
- 1.13 Drawings: means drawing including calculations and other information provided or approved by the Engineer-in-Charge.
- 1.14 Employer: means the party as defined in the Contract Data, who employs the Contractor to carry out the work. The Employer may delegate any or all functions to a person or body nominated by him for specified functions. The word Employer / Government / Department wherever used denote the Employer.
- 1.15 Engineer: means the person named in the Contract Data.
- 1.16 Engineer in charge: means the person named in the Contract Data.
- 1.17 Equipment: means the Contractor's machinery and vehicles brought temporarily to the Site for execution of work.
- 1.18 Government: means Government of Madhya Pradesh.



- 1.19 In Writing: means communicated in written form and delivered against receipt.
- 1.20 Material: means all supplies, including consumables, used by the Contractor for incorporation in the work.
- 1.21 Superintending Engineer: means Superintending Engineer-in-Charge of the Circle concerned.
- 1.22 Stipulated period of completion: means the period in which the Contractor is required to complete the work. The stipulated period is specified in the Contract Data.
- 1.23 Specification: means the specification of the work included in the Contract and any modification or addition made or approved by the Engineer-in-Charge.
- 1.24 Start Date: means the date of signing of agreement for the work.
- 1.25 Sub-Contractor: means a person or corporate body who has a Contract with the Contractor, duly authorized to carry out a part of the construction work under the Contract.
- 1.26 Temporary Work: means work designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the work.
- 1.27 Tender/Bid, Tender/Bidder: are the synonyms and carry the same meaning where ever used.
- 1.28 Variation: means any change in the work which is instructed or approved as variation under this contract.
- 1.29 Work: The expression "work" or "works" where used in these conditions shall unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the work by virtue of contract, contracted to be executed, whether temporary or permanent and whether original, altered, substituted or additional.

2. Interpretations And Documents

- 2.1 Interpretations - In the contract, except where the context requires otherwise:
 - a. words indicating one gender include all genders;
 - b. Words indicating the singular also include the plural and vice versa.
 - c. provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing;
 - d. "written" or "in writing" means hand-written, type-written, printed or electronically made, and-resulting in a permanent record;
- 2.2 Documents Forming Part of Contract:
 - 1. NIT with all amendments.
 - 2. Instructions to Bidders (ITB, Bid Data Sheet with all Annexure)



3. Conditions of Contract:
 - i. Part I General Conditions of Contract and the Contract Data; with all Annexure
 - ii. Part II Special Conditions of Contract.
4. Specifications
5. Drawings
6. Bill of Quantities
7. Technical and Financial Bid
8. Agreement, and
9. Any other documents, as specified.

3. Language and Law

The language of the Contract and the law governing the Contract are stated in the Contract Data Sheet.

4. Communications

All certificates, notice or instruction to be given to the Contractor by Employer/Engineer shall be sent to the address or contact details given by the Contractor in [Annexure H of ITB]. The address and contact details for communication with the Employer/Engineer shall be as per the details given in the Contract Data. Communication between parties that are referred to in the conditions shall be in writing. The notice sent by facsimile (fax) or other electronic means (email) shall also be effective on confirmation of the transmission. The notice sent by registered post or speed post shall be effective on delivery or at the expiry of the normal delivery period as undertaken by the postal service. In case of any change in address for communication, the same shall be immediately notified to Engineer- in- Charge.

5. Subcontracting

Subcontracting shall be permitted for contracts of value more than amount specified in the Contract Data with following conditions:

- a. The Contractor may subcontract up to 25 percent of the contract price with the approval of the Employer in writing, but will not assign the Contract. Subcontracting shall not alter the Contractor's obligations.
- b. Following shall not form part of subcontracting:
 - i. Hiring of labour through a labour contractor.
 - ii. The purchase of Materials to be incorporated in the works.
 - iii. Hiring of plant & machinery



- c. The sub-contractor will have to be registered in the appropriate category in the centralized registration system for contractors of the Govt. of MP.

6. Personnel

- 6.1 The Contractor shall employ for the construction work and routine maintenance the technical personnel as provided in the Annexure 1-3 of Bid Data Sheet, if applicable. If the Contractor fails to deploy required number of technical staff, recovery as specified in the Contract Data will be made from the Contractor.
- 6.2 If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within three days and has no further connection with the Works in the Contract.

7. Force Majeure

- 7.1 The term "Force Majeure" means an exceptional event or circumstance:
 - (a) Which is beyond a Party's control,
 - (b) Which such Party could not reasonably have provided against before entering into the Contract,
 - (c) Which, having arisen, such Party could not reasonably have avoided or overcome, and
 - (d) Which is not substantially attributable to the other Party.Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:
 - (i) War, hostilities (whether war be declared or not), invasion, act of foreign enemies,
 - (ii) Rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,
 - (iii) Riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel,
 - (iv) Munitions of war, explosive materials, ionizing radiation or contamination by radioactivity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radioactivity, and
 - (iv) Natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.



- 7.2. In the event of either party being rendered unable by force majeure to perform any duty or discharge any responsibility arising out of the contract, the relative obligation of the party affected by such force majeure shall upon notification to the other party be suspended for the period during which force majeure event lasts. The cost and loss sustained by either party shall be borne by respective parties.
- 7.3 For the period of extension granted to the Contractor due to Force Majeure the price adjustment clause shall apply but the penalty clause shall not apply. It is clarified that this sub clause shall not give eligibility for price adjustment to contracts which are otherwise not subject to the benefit of price adjustment clause.
- 7.4 The time for performance of the relative obligation suspended by the force majeure shall stand extended by the period for which such cause lasts. Should the delay caused by force majeure exceed twelve months, the parties to the contract shall be at liberty to foreclose the contract after holding mutual discussions.

8. Contractor's Risks

- 8.1 All risks of loss or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract are the responsibility of the Contractor.
- 1.2 All risks and consequences arising from the inaccuracies or falseness of the documents and/or information submitted by the contractor shall be the responsibility of the Contractor alone.

9. Liability for Accidents to Person

The contractor shall be deemed to have indemnified and saved harmless the Government against all action, suits, claims, demands, costs etc. arising in connection with injuries suffered by any persons employed by the contractor or his subcontractor for the works whether under the General law or under workman's compensation Act, or any other statute in force at the time of dealing with the question of the liability of employees for the injuries suffered by employees and to have taken steps properly to ensure against any claim there under.

10. Contractor to Construct the Works

- 10.1 The Contractor shall construct, install and maintain the Works in accordance with the Specifications and Drawings as specified in the Contract Data.



- 10.2 In the case of any class of work for which there is no such specification as is mentioned in Contract Data, such work shall be carried out in accordance with the instructions and requirement of the Engineer-in-charge.
- 10.3 The contractor shall supply and take upon himself the entire responsibility of the sufficiency of the scaffolding, timbering, machinery, tools and implements, and generally of all means used for the fulfilment of this contract whether such means may or may not be approved or recommended by the Engineer.

11. Discoveries

Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

12. Dispute Resolution System

- 12.1 No dispute can be raised except before the Competent Authority as defined in Contract Data in writing giving full description and grounds of dispute. It is clarified that merely recording protest while accepting measurement and/or payment shall not be taken as raising a dispute.
- 12.2 No dispute can be raised after 45 days of its first occurrence. Any dispute raised after expiry of 45 days of its first occurrence shall not be entertained and the Employer shall not be liable for claims arising out of such dispute.
- 12.3 The Competent Authority shall decide the matter within 45 days.
- 12.4 Appeal against the order of the Competent Authority can be preferred within 30 days to the Appellate Authority as defined in the Contract Data. The Appellate Authority shall decide the dispute within 45 days.
- 12.5 Appeal against the order of the Appellate Authority can be preferred before the Madhya Pradesh Arbitration Tribunal constituted under Madhya Pradesh Madhyastham Adhikaran Adhiniyam, 1983.
- 12.6 The Contractor shall have to continue execution of the Works with due diligence notwithstanding pendency of a dispute before any authority or forum.



B. Time Control

13. Programme

- 13.1 Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Programme showing the general methods, arrangements,' order and timing for all the activities for the construction of works.
- 13.2 The program shall be supported with all the details regarding key personnel, equipment and machinery proposed to be deployed on the works for its execution. The contractor shall submit the list of equipment and machinery being brought to site, the list of key personnel being deployed, the list of machinery/equipment being placed in field laboratory and the location of field laboratory along with the Programme.
- 13.3 An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.
- 13.4 The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue programme has been submitted.
- 13.5 The Engineer's approval of the Programme shall not alter the Contractor's obligations.

14. Extension of Time

- 14.1 The contract is for completion of works and therefore non approval of EOT shall not in any way invalidate the contract. The contractor will have to complete the works.
- 14.2 In the event of delays attributable to the contractor, the EOT shall not be given by the Engineer-in-Charge, and the Liquidated Damages shall be levied from the contractor in accordance with the provisions of the contract.
- 14.3 In the event, the delays are not attributable to the contractor the EOT may be issued by the Engineer-in-Charge without imposition of Liquidated Damages either Suo-motto or on a written request of the contractor.



It is clarified that out of the total delays in completion of works, the EOT shall be issued only for the part, which is not attributable to the contractor. (Amended as per Govt. Order No. F-53-55-2018-19-Yo-1154 Ujjain, dated 23- 03-2018)

15. Compensation for delay

- 15.1 The time allowed for carrying out the work, as entered in the agreement, shall be strictly observed by the Contractor.
- 15.2 The time allowed for execution of the contract shall commence from the date of signing of the agreement. It is clarified that the need for issue of work order is dispensed with.
- 15.3 In the event milestones are laid down in the Contract Data for execution of the works, the contractor shall have to ensure strict adherence to the same.
- 15.4 Failure of the Contractor to adhere to the timelines and/or milestones shall attract such liquidated damages as is laid down in the Contract Data.
- 15.5 In the event of delay in execution of the Works as per the timelines mentioned in the Contract Data the Engineer-in-charge shall retain from the bills of the Contractor amount equal to the liquidated damages liveable until the Contractor makes such delays good. However, the Engineer-in-charge shall accept bankable security in lieu of retaining such amount.
- 15.6 If the Contractor is given extension of time after liquidated damages have been paid, the Engineer in Charge shall correct any over payment of liquidated damages by the Contractor in the next payment certificate.
- 15.7 In the event the Contractor fails to make good the delay until completion of the stipulated contract period (including extension of time) the sum so retained shall be adjusted against the liquidated damages levied.

16. Contractor's quoted percentage

The Contractor's quoted percentage rate referred to in the "Bid for works" will be deducted/ added from/to the net amount of the bill after deducting the cost of material-supplied by the department.

C. QUALITY CONTROL

17. Tests

- 17.1 The Contractor shall be responsible for:
 - a. Carrying out the tests prescribed in specifications, and



- b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.
- 17.2 The contractor shall have to establish field laboratory within the time specified and having such equipment as are specified in the Contract Data.
- 17.3 Failure of the Contractor to establish laboratory shall attract such penalty as is specified in the Contract Data.

18. Correction of Defects noticed during the Defect Liability Period

- 18.1 The Defect Liability Period of work in the contract shall be as per the Contract Data.
- 18.2 The Contractor shall promptly rectify all defects pointed out by the Engineer well before the end of the Defect Liability Period. The Defect Liability Period shall automatically stand extended until the defect is rectified.
- 18.3 If the Contractor has not corrected a Defect pertaining to the Defect Liability Period to the satisfaction of the Engineer, within the time specified by the Engineer, the Engineer will assess the cost of having the Defect corrected, and the cost of correction of the Defect shall be recovered from the Performance Security or any amount due or that may become due to the contractor and other available securities.

D. Cost Control

19. Variations –Change in original Specifications, Designs, and Drawings etc.

- 19.1 The Engineer-in-charge shall have power to make any alterations, omissions or additions to or substitutions in the original specifications, drawings, designs and instructions, that may appear to him to be necessary during the progress of the work and the contractor shall carry out the work in accordance with any instructions which may be given to him in writing signed by the Engineer-in-charge, and such alterations, omission, additions or substitutions shall not invalidate the contract and any altered, additional or substituted work, which the contractor may be directed to do in the manner above specified, as part of the work, shall be carried out by the contractor on the same conditions in all respects on which he agrees to do the main work.
- 19.2 The time for the completion of the work shall be extended in the proportion that the altered, additional or substituted work bears to the original contract work and the certificate of the Employer shall be conclusive as to such proportion.

**20. Extra items**

All such items which are not included in the priced BOQ shall be treated as extra items.

21. Payments for Variations and / or Extra Quantities

The rates for such additional (Extra quantity), altered or substituted work / extra items under this clause shall be worked out in accordance with the following provisions in their respective order:-

- a. The contractor is bound to carry out the additional (Extra quantity) work beyond or within estimated quantity in BOQ, at the same rates as are specified in the contract for the work.
- b. If the item is not in the priced BOQ and is included in the SOR of the department, the rate shall be arrived at by applying the quoted tender percentage on the SOR rate.
- c. If the rates for the altered or substituted work are not provided in applicable SOR - such rates will be derived from the rates for a similar class (type) of work as is provided in the contract (priced BOQ) for the work.
- d. If the rates for the altered, substituted work cannot be determined in the manner specified in the sub clause (c) above - then the rates for such composite work item shall be worked out on the basis of the concerned Schedule of Rates minus/plus the percentage quoted by the contractor.
- e. If rates for a particular part or parts of the item is not in the Schedule of Rates and the rates for the altered, or substituted work item cannot be determined in the manner specified in sub clause (b) to (d) above, the rate for such part or parts will be determined by the Competent Authority as defined in the Contract Data on the basis of the rate analysis derived out of prevailing market rates when the work was done.
- f. But under no circumstances, the contractor shall suspend the work on the plea of non-acceptability of rates on items falling under sub clause (a) to (d).

In case the contractor does not accept the rate approved by the Engineer in Charge for a particular item, the contractor shall continue to carry out the item at the rates determined by the Competent Authority. The decision on the final rates payable shall be arrived at through the dispute settlement procedure.

**22. No compensation for alterations in or restriction of work to be carried out**

- 22.1 If at any time after the commencement of the work, the Engineer-in-charge, for any reason whatsoever, not require the whole or any part of the work as specified in the bid to be carried out; the Engineer-in-charge shall give notice in writing of the fact to the Contractor and withdraw that whole or any part of the work.
- 22.2 The Contractor shall have no claim to any payments or compensation whatsoever, on account of any profit or advantage which he might have derived from the execution of work in full or on account of any loss incurred for idle men and machinery due to any alteration or restriction of work for whatsoever reason.
- 22.3 The Engineer-in-charge may supplement the work by engaging another agency to execute such portion of the work, without prejudice to his rights.

23. No Interest Payable

No interest shall be payable to the Contractor on any payment due or awarded by any authority.

24. Recovery from Contractors

Whenever any claim against the Contractor for the payment arises under the contract, the Department may be entitled to recover such sum by:

- (a) Appropriating, in part or whole of the Performance Security and Additional Performance Security, if any; and/or Security Deposit and / or any sums payable under the contract to the contractor.
- (b) If the amount recovered in accordance with (a) above is not sufficient, the balance sum may be recovered from any payment due to the contractor under any other contract of the department, including the securities which become due for release.
- (c) The department shall, further have an additional right to effect recoveries as arrears of land revenue under the M.P. Land Revenue Code.

25. Tax

- 25.1 The rates quoted by the Contractor shall be deemed to be inclusive of the commercial tax and other levies, duties, cases, toll, taxes of Central and State Governments, local bodies and authorities but excluding the GST applicable at the time.



- 25.2 The liability, if any, on account of quarry fees, royalties, octopi and any other taxes and duties in respect of materials actually consumed on public work, shall be borne by the Contractor.
- 25.3 Any changes in the taxes due to change in legislation or for any other reason shall not be payable to the contractor.

26. Check Measurements

- 26.1 The department reserves to itself the right to prescribe a scale of check measurement of work in general or specific scale for specific works or by other special orders.
- 26.2 Checking of measurements by superior officer shall supersede measurements by subordinate officer(s), and the former will become the basis of the payment.
- 26.3 Any over/excess payments detected, as a result of such check measurement or 'otherwise at any stage up to the date of completion of the defect liability period specified in this contract, shall be recoverable from the Contractor, as per clause 24 above.

27. Termination by Engineer in Charge

- 27.1 If the Contractor fails to carry out any obligation under the Contract, the Engineer in Charge may by notice require the Contractor to make good the failure and to remedy it within a specified reasonable time.
- 27.2 The Engineer in Charge shall be entitled to terminate the Contract if the Contractor -
- abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract;
 - the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;
 - without reasonable excuse fails to comply with the notice to correct a particular defect within a reasonable period of time;
 - the Contractor does not maintain a valid instrument of financial security as prescribed;
 - the Contractor has delayed the completion of the Works by such duration for which the maximum amount of liquidated damages is recoverable;
 - If the Contractor fails to deploy machinery and equipment or personnel or set up a field laboratory as specified in the Contract Data;
 - If the contractor, in the judgment of the Engineer in charge has engaged in corrupt or fraudulent practices in competing for or in executing the contract;
 - Any other fundamental breaches as specified in the Contract Data.



- 27.3 In any of these events or circumstances, the Engineer in Charge may, upon giving 14 days' notice to the Contractor, terminate the Contract and expel the Contractor from the Site. However, in the case of subparagraph (b) or (g) of clause 27.2, the Engineer in Charge may terminate the Contract immediately.
- 27.4 Notwithstanding the above, the Engineer-in-Charge may terminate the Contract for convenience by giving notice to the Contractor

28. Payment upon Termination

- 28.1 If the contract is terminated under clause 27.3, the Engineer shall issue a certificate for The value of the work done less Advance Payments received up to the date of issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the contract Data. (As per Amended vide Govt. memo No.F-53/ 16/2012/19/Y/6842 dt. 2.11.15).
- 28.2 Payment on termination under clause 27.4 above -
If the Contract is terminated under clause 27.4 above, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.
- 28.3 If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered as per clause 24 above.

29. Performance Security

The Contractor shall have to submit performance security and additional performance security, if any, as specified in the Bid Data Sheet at the time of signing of the contract. The contractor shall have to ensure that such performance security and additional performance security, if any, remains valid for the period as specified in the Contract Data.

30. Security Deposit

- 30.1 Security Deposit shall be deducted from each running bill at the rate as specified in the Contract Data. The total amount of Security Deposit so deducted shall not exceed the percentage of Contract Price specified in the Contract Data.



- 30.2 The security deposit may be replaced by equivalent amount of bank guarantee or fixed deposit receipt assigned to the Employer, with validity up to 3 (three) months beyond the completion of Defect Liability Period/ extended Defect Liability Period.
- 30.3 The Security deposits shall be refunded of completion of defect liability period. The additional performance security shall be refunded on satisfactory completion of the work. (As per Amended vide Govt. memo No.F-53/ 16/2012/19/Yo/1317 dt. 28.02.15)

31. Price Adjustment

- 31.1 Contract price shall be adjusted for increase or decrease in rates and price of labour, materials, fuels and lubricants in accordance with following principles and procedures and as per formula given in the contract data.
- (a) The price adjustment shall apply for the work done from the start date given in the contract data up to the end of the initial intended completion date or extensions granted by the Engineer and shall not apply to the work carried out beyond the stipulated time for reasons attributable to the contractor.
- (b) The price adjustable shall be determined during each month from the formula given in the contract data.
- (c) Following expression and meaning are assigned to the work done during each month:
 $R = \text{Total value of work during the month. It would include the amount of secured advance granted, if any, during the month, less the amount of secured advance recovered, if any during the month. It will exclude value of works executed under variations for which no price adjustment shall be payable. (Amended as per Govt. Order No. F-53-55-2018-19-Yo-1154 Ujjain, dated 23-03-2018)}$
- 31.2 To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provisions of this or other clauses in the contract, the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs. (Amended as per Govt. Order No. F-53-55-2018-19-Yo-1154 Ujjain, dated 23-03-2018)

32. Mobilization and Construction Machinery Advance

- 32.1 Payment of advances shall be applicable if provided in the Contract Data.
- 32.2 If applicable, the Engineer in Charge shall make interest bearing advance payment to the contractor of the amounts stated in the Contract



Data, against provision by the contractor of an unconditional Bank Guarantee in a form and by a nationalized / scheduled bank, in the name as stated in the Contract Data, in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the contractor.

- 32.3 The rate of interest chargeable shall be as per Contract Data.
- 32.4 The construction machinery advance, if applicable, shall be limited to 80% of the cost of construction machinery and admissible only for new construction machinery.
- 32.5 The advance payment shall be recovered as stated in the Contract Data by deducting proportionate amounts from payment otherwise due to the Contractor. No account shall be taken of the advance payment or its recovery in assessing valuations of work done, variations, price adjustments, compensation events, or liquidated damages.

33. Secured Advance

- 33.1 Payment of Secured Advance shall be applicable if provided in the Contract Data.
- 33.2 If applicable, the Engineer shall make advance payment against materials intended for but not yet incorporated in the Works and against provision by the contractor of an unconditional Bank Guarantee in a form and by a nationalized/ scheduled bank, in the name as stated in the Contract Data, in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been adjusted, but the amount of the guarantee shall be progressively reduced by the amounts adjusted by the contractor.
- 33.3 The amount of secured advance and conditions to be fulfilled shall be as stipulated in the Contract Data.
- 33.4 The Secured Advance paid shall be recovered as stated in the Contract Data.

34. Payment Certificates

The payment to the contractor will be as follows for construction work:

- (a) The Contractor shall submit to the Engineer monthly statements of the value of the work executed less the cumulative amount certified previously, supported with detailed measurement of the items of work executed.
- (b) The Engineer shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.



- (c) The value of work executed shall be determined, based on the measurements approved by the Engineer/ Engineer-in-charge.
- (d) The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- (e) The value of work executed shall also include the valuation of Variations and Compensation Events.
- (f) All payments shall be adjusted for deductions for advance payment, security deposit, other recoveries in terms of contract and taxes at source as applicable under the law.
- (g) The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
- (h) Payment of intermediate certificate shall be regarded as payments by way of advance against the final payment and not as payments for work actually done and completed.
- (i) Intermediate payment shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or be considered as an admission of the due performance of the contractor any part thereof, in any respect or the occurring of any claim.
- (j) The payment of final bill shall be governed by the provisions of clause 36 of GCC.

E. Finishing the Contract

35. Completion Certificate

- 35.1 A Completion Certificate in the prescribed format in Contract Data shall be issued by the Engineer-in-Charge after physical completion of the Work.
- 35.2 After final payment to the Contractor, a Final Completion Certificate in the prescribed format in the Contract Data shall be issued by the Engineer-in- Charge.

36. Final Account

- 36.1 The Contractor shall supply the Engineer with a detailed account of the total amount that the Contractor considers payable for works under the Contract within 21 days of issue of certificate of physical completion of works. The Engineer shall issue a Defects Liability Certificate and certify any payment that is due to the Contractor within 45 days of receiving the Contractor's account if it is correct and complete. If the account is not correct or complete, the Engineer shall issue within 45 days a schedule



that states the scope of the corrections or additions that are necessary. If the Account is still unsatisfactory after it has been resubmitted, the matter shall be referred to the Competent Authority as defined in the Contract Data, who shall decide on the amount payable to the Contractor after hearing the Contractor and the Engineer in Charge.

- 36.2 In case the account is not received within 21 days of issue of Certificate of Completion as provided in clause 32.1 above, the Engineer shall proceed to finalize the account and issue a payment certificate within 28 days.

F. Other Conditions of Contract

37. Currencies

All payments will be made in Indian Rupees.

38. Labour

- 38.1 The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.
- 38.2 The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

39. Compliance with Labour Regulations

During continuance of the Contract, the Contractor and his sub-Contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given in the Contract Data. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made their under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications / byelaws / Acts /



Rules / regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct from any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

40. Audit and Technical Examination

Government shall have the right to cause an audit and technical examination of the works and the final bill of the contract 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 by him to have been done under the contract and found not to, have been executed, the Contractor shall be liable to refund the amount of overpayment and it shall be lawful for Government to recover the same from him in the manner prescribed in clause 24 above 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 Government to the Contractor.

41. Death or Permanent Invalidity of Contractor

If the Contractor is an individual or a proprietary concern, partnership concern, dies during the currency of the contract or becomes permanently incapacitated, where the surviving partners are only minors, the contract shall be closed without levying any damages/ compensation as provided for in clause 28.2 of the contract agreement. However, if the competent authority is satisfied about the competence of the survivors, then the competent authority shall enter into a fresh agreement for the remaining work strictly on the same terms and conditions under which the contract was awarded.

42. Jurisdiction

This contract has been entered into the State of Madhya Pradesh, and its validity, construction, interpretation and legal effect shall be subjected to the courts at the place where this agreement is entered into. No other jurisdiction shall be applicable.

[END OF GCC]



CONTRACT DATA SHEET

GCC Clause	Particulars		Data
1.14	Employer		Ujjain Development Authority, Ujjain
1.15	Engineer		Assistant Engineer & Sub-engineer of UDA
1.16	Engineer in Charge		Executive Engineer, Ujjain Development Authority, Ujjain
1.22	Stipulated Period of Completion		12 months including monsoon
3	Language & Law of Contract		English & Indian Contracts Act, 1872
4	Address & contact details of the Contractor		As per 'Annexure-H'
	Address & contact details of the Employer/ Engineer – phone, Fax, e-mail.		Executive Engineer, UDA, Ujjain
5	Subcontracting permitted for the Contract Value		Not applicable
6	Technical Personnel to be provided by the contractor		As per 'Annexure-I' (Format I-3)
	Penalty, if required Technical Personnel not employed		Rs 30,000 / month for each Graduate Engineer and Rs 18,000 / month for each Diploma Engineer/ITI Surveyor
10	Specifications		As per 'Annexure - E'
	Drawings		As per 'Annexure - N'
12	Competent Authority for deciding dispute under Dispute Resolution System		Superintending Engineer, UDA, Ujjain
	Appellate Authority for deciding dispute under Dispute Resolution System		Chief Executive Officer, Ujjain Development Authority, Ujjain
13	Period for submission of updated construction program		(a) Every 3 months OR (b) at the end of every milestone, whichever is less
	Amount to be withheld for not submitting construction program in the prescribed period		@ 1 % (one) percent of contract amount, subject to a maximum of Rs. 50,000/-.
14	Competent Authority for granting Time Extension		Engineer-in-Charge (Amended as per Govt. Order No. F-53-55-2018-19-Yo-1154 Ujjain, dated 23-03-2018)



15	Milestones laid down for the contract		Yes
	If yes, details of Milestones		As per 'Annexure - O' or as below, if not mentioned in Annexure -O: Milestone 1:- 1/8 th of the whole work before 1/4 th of the whole time allowed has elapsed, Milestone 2:- 3/8 th of the whole work before 1/2 th of the whole time allowed has elapsed Milestone 3:- 3/4 th of the whole work before 3/4 th of the whole time allowed has elapsed Milestone 4:- Complete work within the stipulated time
	Liquidated damage		As per 'Annexure - P'
17	List of equipment for lab		As per 'Annexure - Q'
	Time to establish lab		30 days from date of signing of the Agreement
	Penalty for not establishing field Laboratory		1% of Contract Amount per month, subject to a maximum of Rs. 50,000/- per month of delay.
18	Defect Liability Period		As below: For Road work:- For New Road (Concrete) Construction (including strengthening) : 5 years.



			Note: In accordance with clause 18 the defect observed in the works during the Defect Liability Period shall be intimated by the Engineer-in- Charge to the contractor and the contractor shall rectify the defects promptly. In case the defects are not removed in reasonable time, the same can be done by the Engineer-in-Charge by way of – (a) deploying departmental labour and material OR (b) engaging a contractor by issuing a work order at contract rate/SOR rate OR (c) sanctioning supplementary work in an existing agreement to a contractor for zonal works or other similar work OR (d) Inviting open tender OR (e) combination of above The Engineer-in-Charge shall assess the cost of such rectification which shall be recoverable from the contractor from his Performance Security or any amount due or that may become due to him and from other available securities. If this amount is not sufficient to meet the expenses incurred on rectification, the balance amount may be recovered as Land Revenue Arrears as per MPLRC. (Amended vide Govt. memo No. 1400/1246/2018/19/Yo Ujjaindt.06-04-18)
21	Competent Authority for determining the rate		Superintending Engineer of UDA, Ujjain
27	Any other condition for breach of contract		Yes, as below: If the contractor fails to achieve 50% financial progress in any milestone and / or fails to achieve 75% financial progress in two consecutive milestones
28	Penalty		(a) Penalty shall include forfeiture of Security deposit as per clause 30 of General Conditions of Contract and the percentage to apply to the value of work not completed representing the Employers additional cost for completing the works which shall be 20 percent and (b) Liquidated Damages imposed as per clause 15 or Performance Security (Guarantee) including Additional Performance Security (Guarantee), if any, as per clause 29 of General Conditions of



			Contract, whichever is higher (Amended vide Govt. memo No.F-53/ 16/2012/19/KS/6842 dt. 2.11.15)
29	Performance Guarantee (Security) shall be valid up to		The upfront Bank Guarantee against Performance Security shall be taken for a period as mentioned below – (a) Works having Performance Guarantee of 5 Years- Construction Period + 3 Years + 3 Months. (b) Works having Performance Guarantee of 3 Years- Construction Period + 2 Years + 3 Months. (c) Works having Performance Guarantee of 1 Years- Construction Period + 1 Years + 3 Months. It is clarified that in case the construction period of the work is extended beyond the stipulated completion period, the Bank Guarantee against PG shall have to be extended by the contractor for the relevant period so as to satisfy the validity criteria mentioned above. (Amended vide Govt. memo No. 1400/1246/2018/19/Yo Ujjain dt. 06-04-18)
30	Security Deposit to be deducted from each running bill		At the rate of 5% of Amount of Running Bill
	Maximum Limit of deduction of Security Deposit		Up to 5% of the Final Contract Amount.
	Refund of Security Deposit		The total Security Deposit deducted from the running bills shall be refunded (equivalent BG released) only after the completion of the Performance Guarantee Period / Extended Performance Guarantee period, if any (Amended vide Govt. Memo No. 1400/1246/2018/19/Yo Ujjain dt. 06-04-18)
31	Price adjustment shall be applicable		As per Annexure R and as below: (a) The price Adjustment shall apply only in respect of Labour, Cement, Steel, Plant & Machinery Spares, POL and Other Materials components. (b) Price Adjustment shall be applicable only in case of Probable Amount of Contract (PAC) in NIT is more than Rs 10 Cr. This clause shall not have any bearing with the Contract Amount.
	Weightages of Components of work	Component	Percentage of Component in the work
			Rigid Pavement Construction
		Labour Component – P ₁	10%



		Cement Component – P_C	23%
		Steel Component – P_S	12%
		POL Component – P_F	10%
		Plant & Machinery Spares Component – P_P	5%
		Other Materials Component – P_M	40%
32	Mobilization and Construction Machinery Advance Applicable		No Mobilization and Construction Machinery Advance Payable
	If yes, Unconditional Bank Guarantee		Not Applicable
	If yes, Rate of interest chargeable on advances		Not Applicable
	If yes, Type & Amount of Advance payment that can be paid		Not Applicable
	If yes, Recovery of advance payment		Not Applicable
33	Secured Advance Applicable		Not Applicable
	If yes, Unconditional Bank Guarantee		Not Applicable
	If yes, Amount of Secured Advance		Not Applicable
	If yes, Conditions for secured advance		Not Applicable
	If yes, Recovery of Secured advance		Not Applicable
35	Completion Certificate – after physical completion of the Work		As per 'Annexure - U'
	Final Completion Certificate – after final payment on completion of the Work		As per 'Annexure - V'



36	Competent Authority		Superintending Engineer, UDA, Ujjain
39	Salient Features of some of the major labour laws that are applicable		As per 'Annexure - W'
41	Competent Authority		Chief Executive Officer, UDA, Ujjain



Annexure – N
(See Clause 10 of Section 3 – GCC)

DRAWINGS

List of Drawings:

“Attached separately.”



Annexure – O

(See Clause 15 of Section 3 – GCC)

DETAILS OF MILESTONES

As per BID DATA SHEET and CONTRACT DATA SHEET

**Annexure – P**

(See Clause 15 of Section 3 – GCC)

COMPENSATION FOR DELAY

If the contractor fails to achieve the milestones, and the delay in execution of work is attributable to the contractor/the Employer shall retain an amount from the sums payable and due to the contractor as per following scale –

- i. Slippage up to 25% in financial target during the milestone under consideration - 2.5% of the work remained unexecuted in the related time span.
- ii. Slippage exceeding 25% but up to 50% in financial target during the milestone under consideration 5% of the work remained unexecuted in the related time span.
- i. Slippage exceeding 50% but up to 75% in financial target during the milestone under consideration -7.5% of the work remained unexecuted in the related time span.
- ii. Slippage exceeding 75% in financial target during the milestone under consideration -10% of the work remained unexecuted in the related time span.

Note: *For arriving at the dates of completion of time span related to different milestones, delays which are not attributable to the Contractor shall be considered. The slippage on any milestone is if made good in subsequent milestones or at the time of stipulated period of completion, the amount retained as above shall be refunded. In case the work is not completed within the stipulated period of completion along with all such extensions which are granted to the Contractor for either Employer's default or Force Majeure, the compensation shall be levied on the contractor at the rate of 0.05% per day of delay limited to a maximum of 10% of contract price. The decision of Superintending Engineer shall be final and binding upon both parties.*



Annexure – Q

(See Clause 17 of Section 3 – GCC)

LIST OF EQUIPMENT FOR QUALITY CONTROL LAB

As per 'Format I-9'

**Annexure – R**

(See Clause 31 of Section 3 – GCC)

PRICE ADJUSTMENT

The formula for adjustment of prices are –

R = Value of work (as defined in Clause 31.1 of Conditions of Contract)

Adjustment for Labour Component –

- (i) Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with the following formula.

$$V_L = 0.85 \times P_1/100 \times R(L_i - L_o) / L_o$$

V_L = increase or decrease in the cost of work during the month under consideration due to changes in rates for local Labour.

L_o = the consumer price index for industrial workers for the State on 28 days preceding the date of opening of Technical Bids as published by Labour Bureau, Ministry of Labour, Government of India.

L_i = the consumer price index for industrial workers for the State for the month under consideration as published by Labour Bureau, Ministry of Labour component of the work.

P_1 = Percentage of Labour component of the work.

Adjustment for Cement Component –

- (ii) Price adjustment for increase or decrease in the cost of cement procured by the contractor shall be paid in accordance with the following formula:

$$V_c = 0.85 \times P_c/100 \times R \times (C_1 - C_o)/C_o$$

V_c = increase or decrease in the cost of work during the month under Consideration due to changes in rates for cement.

C_o = All India wholesale price index for Pozzolana Cement on 28 days preceding the date of opening of Technical Bids, as published by the Economic Advisor, DIPP, Ministry of Commerce & Industry Government of India, New Delhi.

C_1 = All India average wholesale price index for cement for the month under consideration as published by the Economic Advisor, DIPP, Ministry of Commerce & Industry Government of India, New Delhi.

P_c = Percentage of cement component of the work



Adjustment of Steel Component –

- (iii) Price adjustment for increase or decrease in the cost of steel procured by the Contractor shall be paid in accordance with the following formula:

$$V_s = 0.85 \times P_s \times /100 \times R \times (S_1 - S_0) / S_0$$

V_s = Increase or decrease in the cost of work during the month under consideration due to changes in the rates for steel.

S_0 = All India wholesale price index for mild steel long products / flats on 28 days preceding the date of opening of Technical Bids, as published by the Economic Advisor, DIPP, Ministry of Commerce & Industry Government of India, New Delhi.

S_i = All India average wholesale price index for mild steel long products / flats for the month under consideration as published by the Economic Advisor, DIPP, Ministry of Commerce & Industry Government of India, New Delhi.

P_s = Percentage of steel component of the work.

Note: For the application of this clause, index of mild steel long products / flats has been Chosen to represent steel group. In any work only one of the indices i.e. Either for long products or for flats shall be used as decided by the Employer/ Executing Agency.

Adjustment of POL (Fuel and Lubricant) Component –

- (v) Price adjustment for increase or decrease in cost of POL (Fuel and Lubricant) shall be paid in accordance with the following formula:

$$V_f = 0.85 \times P_f / 100 \times R \times (F_i - F_o) / F_o$$

V_f = Increase or decrease in the cost of work during the month under consideration due to changes in rates for fuel and lubricants.

F_o = The official retail price of High-Speed Diesel (HSD) at the existing consumer pumps of IOC nearest to the work site on the day 28 days prior to the date of opening of Technical Bids.

F_i = The official retail price of HSD at the existing consumer pumps of IOC nearest to the work site for the 15th day of month under consideration.

P_f = Percentage of fuel and lubricants component of the work.

Note : For the application of this clause, the price of High-Speed Diesel oil has been chosen to represent fuel and lubricants group.



Adjustment for Plant and Machinery Spares component –

- (vi) Price adjustment for increase or decrease in the cost of plant and machinery spares procured by the Contractor shall be paid in accordance with the following formula:

$$V_p = 0.85 \times P_p / 100 \times R \times (P_i - P_o) / P_o$$

V_p = Increase or decrease in the cost of work during the month under consideration due to changes in rates for plant and machinery spares.

P_o = All India wholesale price index for manufacturer of machines for mining / quarrying and construction on 28 days preceding the date of opening of Technical Bids, as published by the Economic Advisor, DIPP, Ministry of Commerce & Industry Government of India, New Delhi.

P_i = All India wholesale price index for manufacturer of machines for mining / quarrying and construction for the month under consideration as published by the Economic Advisor, DIPP, Ministry of Commerce & Industry Government of India, New Delhi.

P_p = Percentage of plant and machinery spares component of the work.

Note: *For the application of this clause, index of manufacturer of machines for mining / quarrying and construction has been chosen to represent the Plant and Machinery Spares group.*

Adjustment of Other Material Component –

- (vii) Price adjustment for increase or decrease in cost of local materials other than cement, Steel and POL procured by the contractor shall be paid in accordance with the following formula:

$$V_m = 0.85 \times P_m / 100 \times R \times (M_i - M_o) / M_o$$

V_m = Increase or decrease in the cost of work during the month under consideration due to changes in rates for local materials other than cement, Steel and POL.

M_o = All India wholesale price index (all commodities) on 28 days preceding the date of opening of Technical Bids, as published by the Economic Advisor, DIPP, Ministry of Commerce & Industry Government of India, New Delhi.

M_i = All India wholesale price index (all commodities) for the month under consideration as published by the Economic Advisor, DIPP, Ministry of Commerce & Industry Government of India, New Delhi.

P_m = Percentage of local material component (other than Cement, Steel and POL) of the work. Plant and Machinery spares component of the work.

(Amended As per vide Govt. Order No. F-53-55-2018-19-Yo-1154 Ujjain dated 23-3-2018)



The following percentages will govern the price adjustment for the entire contract:

Sr. No.	Component	Nature of Work
		Rigid Pavement Construction
1	2	5
1	Labour component - P_1	10%
2	Cement component - P_c	23%
3	Steel component - P_s	12%
4	POL component - P_f	10%
5	Plant & Machinery Spares component - P_p	5%
6	Other Materials Component - P_m	40%

Wholesale price index (WPI) (Feb 2026)-2.13%

Consumer price index (CPI) (Feb 2026)-3.21%

Basic rate of Cement/OPC-Rs. 5,300/- per MT (as per MPPWD SOR 2025)

Basic rate of Steel-Rs. 44,500/- per MT (as per MPPWD SOR 2025)

Note: Ordinarily the 7 components shown above are components of civil works. However, for specific works in which some components not included in the aforementioned 7 components, form a substantial part of the works the same can be provided using similar formula and related indices. In all cases the sum total of percentage of different components shall be 100%.

(Amended As per vide Govt. Order No. F-53-55-2018-19-Yo-1314 Ujjain dated 28-3-2018)

**Annexure – S**

(See Clause 32 of Section 3 – GCC)

**BANK GUARANTEE FORM FOR MOBILIZATION AND CONSTRUCTION
MACHINERY ADVANCE**

To,

_____ [name of Employer]
 _____ [address of Employer]
 _____ [name of Contractor]

In accordance with the provisions of the General Conditions of Contract, clause 31 ("Mobilization and Construction Machinery Advance") of the above-mentioned Contract _____ [name and address of Contractor] (hereinafter called "the Contractor") shall deposit with _____ [name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of _____ [amount of Guarantee] [in words].

We, the _____ [bank of financial institution], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to _____ [name of Employer] on his first demand without whatsoever right of obligation on our part and without his first claim to the Contractor, in the amount not exceeding _____ [amount of guarantee] [in words].

We further agree that no change or addition to or other modification of the terms of the Contractor or Works to be performed thereunder or of any of the Contract documents which may be made between _____ [name of Employer] and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until _____ [name of Employer] receives full repayment of the same amount from the Contractor.

Yours truly,

Signature and Seal:

Name of Bank/Financial Institution:

Address:

Date:

An amount shall be inserted by the Bank or Financial Institution representing the amount of the Advance Payment and denominated in Indian Rupees.

**Annexure – T**

(See Clause 33 of Section 3 – GCC)

BANK GUARANTEE FORM FOR SECURED ADVANCE**INDENTURE FOR SECURED ADVANCES**

This indenture made on the _____ day of ____ 20 BETWEEN _____ (hereinafter called the contractor which expression shall where the context so admits or implies be deemed to include his executors, administrators and assigns) or the one part and the Employer 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 Employer that he may be allowed advanced 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 executive at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges)

AND WHEREAS the Employer 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 Advance attached to the Running account Bill for the said works signed by the Contractor on _____ and the Employer has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees _____ on or before the execution of these presents paid to the Contractor by the Employer (the receipt where of the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the Contractor both hereby covenant and agree with the President and declare as follows: That the said sum of Rupees _____ so advanced by the Employer to

- (1) the Contractor as aforesaid and all or any further sum of sums advanced as aforesaid shall be employed by the Contractor in or towards expending the execution of the said works and for no other purpose whatsoever.
- (2) That the materials details in the said Account of Secured Advances which have been offered to and accepted by the Employer as security are absolutely the Contractor's own propriety 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 indemnified the Employer 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 (hereafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Engineer.
 - (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Engineer 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 required by the Engineer.
 - (5) That the said materials shall not be removed from the site of the said works except with the written permission of the Engineer or an officer authorized by him on that behalf.
 - (6) That the advances shall be repayable in full when or before the Contract receives payment from the Employer 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 Employer will- be at liberty to make a recovery from the Contractor's bill for such payment by deducting therefrom the value of the said materials than 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 of the Employer shall immediately on the happening of such default be re-payable by the Contractor to be the Employer together with interest thereon at twelve percent 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 Employer 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 Employer 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 Employer of the said sum of Rupees and any further sum of 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 power contained therein if and whenever the covenant for payment and repayment here-in-before contained shall become enforceable and the money owing shall not be paid in accordance there with the Employer 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 provision in that behalf contained in the said agreement debiting the contractor with the actual cost of effecting such completion and the amount due to 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 Employer 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 Employer 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 here-in-before expressly provided for the same shall be referred to the Employer 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.



Annexure – U
(See Clause 35 of Section 3 – GCC)

PHYSICAL COMPLETION CERTIFICATE

Name of Work: _____

Agreement No. : _____ Date: _____

Amount of Contract: Rs. _____

Name of Agency: _____

Used M B No.: _____

Last measurement recorded

a. Page No.& MB No.: _____

b. Date: _____

Certified that the above-mentioned work was physically completed on _____
(date) and taken over on _____ (date) and that I have satisfied
myself to best of my ability that the work has been done properly.

Date of issue: _____

**Executive Engineer,
Ujjain Development Authority
Ujjain**



Annexure – V
(See Clause 35 of Section 3 – GCC)

FINAL COMPLETION CERTIFICATE

Name of Work: _____

Agreement No. : _____ Date: _____

Amount of Contract: Rs. _____

Name of Agency: _____

Used M B No.: _____

Last measurement recorded

a. Page No.& MB No.: _____

b. Date: _____

Certified that the above-mentioned work was physically completed on _____
(date) and taken over on _____ (date).

Agreement amount Rs. _____

Final amount paid to contractor Rs. _____

Incumbency of officers for the work

I have satisfied myself to best of my ability that the work has been done properly.

Date of issue: _____

**Executive Engineer,
Ujjain Development Authority
Ujjain**

**Annexure – W**

(See Clause 39 of Section 3 – GCC)

SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE

- a) **Workmen Compensation Act, 1923:** - The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- b) **Payment of Gratuity Act, 1972:** - Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed the prescribed minimum years (say, five years) of service or more or on death the rate of prescribed minimum days'(say, 15 days} wages for every completed year of service. The Act is applicable to all establishments employing the prescribed minimum number (say, 10) or more employees.
- c) **Employees P.F. and Miscellaneous Provision Act, 1952:** - The Act Provides for monthly contributions by the Employer plus workers at the rate prescribed (say, 10% or 8.33%). The benefits payable under the Act are:
 - i. Pension or family pension on retirement or death as the case may be.
 - ii. Deposit linked insurance on the death in harness of the worker.
 - iii. Payment of P.F. accumulation on retirement/death etc.
- d) **Maternity Benefit Act, 1951:** - The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- e) **Contract labour (Regulation & Abolition) Act, 1970:** - The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ prescribed minimum (say 20) or more contract labour.
- f) **Minimum Wages Act, 1948:** - The Employer is to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is scheduled employment. Construction of buildings, roads, and runways is scheduled employment.
- g) **Payment of Wages Act, 1936:** - It lays down as to by what date the wages are to be paid, when they will be paid and what deductions can be made from the wages of the workers.
- h) **Equal Remuneration Act, 1979:** - The Act provides for payment of equal wages for work of equal nature to male and female workers and for not making discrimination against female employees in the matters of transfers, training and promotions etc.
- i) **Payment of Bonus Act, 1965:** - The Act is applicable to all establishments employing prescribed minimum (say, 20) or more workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of



wages to employees drawing up to the prescribed amount of wages calculated in the prescribed manner. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.

- j) **Industrial Disputes Act, 1947:** - The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or Closing down the establishment.
- k) **Industrial Employment (Standing Orders) Act, 1946:** - It is applicable to all establishments employing prescribed minimum (say, LOA, or 50). The Act provides laying down rules governing the conditions of employment by the Employer on matters provided in the Act and gets these certified by the designated Authority.
- l) **Trade Unions Act, 1926:** - The Act lays down the procedure for registration of trade unions of workmen and Employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- m) **Child labour (Prohibition & Regulation) Act, 1986:** - The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labour is prohibited in building and construction industry.
- n) **Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act, 1979:** - The Act is applicable to an establishment which employs prescribed minimum (say, five) or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as Housing, Medical-Aid, Travelling expenses from home up to the establishment and back etc.
- o) **The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act, 1996 and the Cess Act of 1996:** - All the establishments who carry on any building or other construction work and employs the prescribed minimum (say, 10) or more workers are covered under this Act. All such establishments are required to pay Cess at a rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, first-aid facilities, ambulance, housing accommodations for workers near the workplace etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.



- p) **Factories Act 1948:** - The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say, 10) persons or more with aid of power or another prescribed minimum (say, 20) or more persons without the aid of power engaged in manufacturing process.



SECTION – 3

Conditions of Contract

Part II – Special Conditions of Contract

1. Tax, Duties on Materials

All charge on account of Octroi, excise duties, terminal tax, GST/sales tax, and Govt. duties / tax etc. on material procured for the works from any source shall be borne by the contractor. No separate form shall be supplied by UDA for this purpose. GST will be paid extra by Authority at prevailing rate to the Contractor.

2. Submission of project schedule:

Contractor has to submit his work plan, methodology and Quality assurance plan to complete the work within the timeline with the tender documents and also as and when demanded by the UDA during the running project to monitoring the progress of the Project only.

3. Reserved Rights

UDA, Ujjain reserves the right to –

- a) Waive any qualifying criteria or information in any tender as a special case and to reject any or all tenders without assigning any reason thereof.
- b) Increase / decrease the scope of work & also split the tender in two or more contracts without assigning any reason even after the work is awarded.
- c) Collect any required documents after bid opening and also reserves the right for rejection/acceptance of any tender.
- d) As tender packages 1, 2 & 3 of Road works are uploaded simultaneously, opening of the tender shall be done in sequential manner of Package 1, Package 2 & Package 3, for assessment of BID capacity of each bidder for each package

4. Testing charge

0.5% testing charges shall be deducted from each R.A. Bill and the amount of actual testing charges shall be adjusted in the final bill.

- a) 10% test will be carried out at Government Laboratory.
- b) 10% test will be carried out at the Government approved Laboratory.
- c) 80% test will be carried out at the Plant/Field Laboratory of this work.

5. Laboratory at Plant

The Contractor shall setup a laboratory along with all the calibrated equipment for testing of all materials used for the said work with a Material Engineer in the Laboratory having experience of not less than 3 years in Laboratory testing. The Contractor has to prepare Quality Assurance Plan (QAP) as per tender document and it should be get approved by UDA as well as he has to do all testing as per approved QAP and all reports to be submitted along with



Running Bills duly verified by Engineer-in-Charge and/or his authorized representative.

6. Liquidated Damages

- 6.1. If the Contractor fails to complete the works within the original or extended Timeline, the Contractor shall pay penalty of 10% of amount of actual remaining work. The amount of work for which the scope of contractor is reduced shall not be considered for the calculation of Liquidated Damages.
- 6.2. The stipulated Timeline for the tender is 12 months (including monsoon period).

7. Liability of Contractor towards conducting geotechnical investigation, CBR test for roads, Total Station / DGPS Survey of Streets, different utilities, encroachment etc

The contractor shall initially / primarily carry out geotechnical investigation, CBR test for roads, demarcation with a DGPS / TSS survey (item included in tender) of the proposed street / road included in the tender marking the proposed centreline of the street, location of existing utilities over ground if any such as manholes, catchpits, trees, religious places and other landmarks, power distribution poles/boards, encroachments etc. before starting the work on site. Contractor shall have to submit such survey report and Auto CAD drawing to UDA as well as the Principal Architect. Attributes of the TS/DGPS Survey and Geotechnical investigation shall be provided by UDA and Principal Architect.

8. Performance of Bidder

If works carried out by the bidder in last three years are found to be of inferior quality or if the bidder is alleged for malpractice in the tenders allotted to him in last three year, then to accept or reject his tender, shall be sole discretion of Chief Executive Officer, UDA i.e. Chief Executive Officer, UDA at his sole discretion may accept or reject the tender and this decision shall be bound to the bidder.

The contractor must execute the work by maintaining all Quality aspects/parameters mentioned in the tender terms and conditions. Contractor is also bound to submit all supporting Genuine Original documents and if any discrepancy found in such documents as well as in the executed Work with respect to Quality/Quantity at any stage of work or even after completion of work, it will solely be the contractor's responsibility. The Contractor is bound to prove originality of all documents submitted by them and if any of the documents are found to be false/fake then Chief Executive Officer, UDA has right to take any action / penalty / punishment against contractor.



- 8.1. If the Contractor indulged into any malpractice and/or used any inferior quality and/or the construction of street is found to be of an inferior quality under this contract than in such case Chief Executive Officer, UDA has the right to debar/blacklist them for three years.
- 8.2. It is contractor liability to communicate with other Government Authorities / Private Agencies / Person for carry out all type of necessary approval that which will be required for the work and liaison with UDA. The cost of utility shifting, felling of trees etc. shall be borne by UDA or by the entity owning such utility, if UDA so directs, and in the event of any delay in shifting thereof, the Contractor shall be given a corresponding extension of time for the completion of works.
- 8.3. Contractor must submit KMZ file of basemap and proposed design which can be overlayed on Google Earth software for individual streets at the time of completion of each street in all respect. The Kmz file overlaid on google earth software shall be submitted in drawing form in 2 copies in scale and size as decided by UDA.

9. Co-Certification of Contractor's Bills by the Principal Architect

- 9.1. Co-certification of the Contractor's bills is to ensure that executed works meet the design intent from the point of view of Architectural workmanship & finishes.
- 9.2. Co-certification by Principal Architect shall not absolve the Client's PMC Team or Site Supervision Team from their overall responsibility of bill certification and release of payment. The Client's PMC Team / Site Supervision Team shall forward the Contractor's bill to Principal Architect for co-certification only after carrying out detailed measurement checks, ascertaining that works claimed in the bill are constructed in accordance with issued drawings / specifications and that they meet the Quality Assurance Plan.

10. Shop Drawing

- 10.1. Contractor has to prepare the shop drawings based on the intent drawings and wherever specified in the overall tender document.
- 10.2. The Contractor shall prepare and submit a detailed program for the preparation and submission of the shop drawings along with integrated program chart immediately upon receipt of the Engineer's order to commence the works. The Programme, which will be subject to the scrutiny of the Engineer-in-charge, shall be compatible with the Programme for the construction works.
- 10.3. After Approval of the shop drawings by Engineer in charge & Principal Architect; sampling and mock-up shall be carried out at site.
- 10.4. After preparation of the mock-up and its approval from Engineer in charge & Principal Architect, the item shall be taken up for full fledged execution.
- 10.5. When a shop drawing is revised, the particulars of the current revision shall be clearly marked or circled to facilitate checking. All prior revision numbers and references of drawings superseded by the current issue shall also be clearly shown.



- 10.6. Cost of all shop drawings, or form work drawings and details to be furnished by the Contractor shall be deemed to be included in his tendered rates for the work. Accordingly, approval to shop drawings or other fabrication drawings shall not be construed as authorizing award of additional work.
- 10.7. All the drawings supplied by the consultant/Client to the contractor shall be carefully studied by the contractor before implementation and any discrepancy /changes /suggestions shall be brought to the notice of consultant within 15 days of issuance for clearance.

11. Sample Approval and Mock-up at site

- 11.1. The concept of sample & mock-ups is to assess the performance parameters/ quality standards for any specified item in the project. The main objective of the section is to address most issues prior to construction, and to minimize disruption in the critical path of the construction program. It is elaborated as follows;
- (a) Determine whether the Contractor possesses required skill level necessary to construct the activity, assemblies or systems such that the built construction will satisfy specified requirements
 - (b) To understand the sequence of operations and discuss alternative sequencing options if any
 - (c) To assess the standard of workmanship and aesthetics that are to be replicated throughout the project
 - (d) To recognize and resolve potential areas of conflict prior to the commencement of construction
- 11.2. Sample
- Contractor shall submit samples of an item/material from preferred make-list for approval by Engineer-In-Charge & Principal Architect. Before proposing any make from the make list, contractor has to ensure that the product of same is confirming to the specifications/parameters mentioned in BOQ item, technical specifications and other applicable relevant codes. Submitted samples shall be approved by Principal Architect & Engineer in charge and their decision shall be final and binding to contractor. Contractor shall submit photograph of approved sample having sign/stamp of Engineer in charge & Principal Architect to all relevant authorities.
 - Contractor shall plan for placing a yard room which can be used for storing indoor and outdoor samples. The samples kept in this room shall be marked, labelled and stored in an orderly manner to enable easy access at any time during the entire course of construction, up to completion.
 - No deviation from the approved list of makes shall be permitted. In case certain items of equivalent is mentioned, the same shall be got approved from Engineer in charge & Principal Architect before ordering.



11.3. Mock-up

- After sample approval, Contractor shall prepare a mock-up as per drawing.
- Payment shall be made for approved sample/mock-up only.
- Payment for any additional items during the Mock-up shall be considered only if such items have received formal approval by UDA.
- The space for mock-up shall be arranged by UDA free of cost.
- Contractor to prepare complete mock-up within one month from the date of start of work, to the satisfaction of the Engineer-in-charge and the Principal Architect.
- Approval shall be given by the Engineer-in-charge and the Principal Architect. It shall not absolve the Contractor from the responsibility of replacing defective material brought on site or materials used in the work in case they are found defective at a later date. The Contractor shall have no claim to any payment or compensation whatsoever on account of any such materials being rejected by the Engineer-in-charge or Principal Architect.

12. Workmanship and Quality Control

- 12.1. The Principal Architect shall have the authority to conduct inspections of the works at site at any stage of execution, as deemed necessary, to assess compliance with the approved drawings, specifications, and quality standards.
- 12.2. Based on such inspections, the Principal Architect may issue written Inspection Reports highlighting observations, deficiencies, or non-conformities in workmanship and quality.
- 12.3. The Contractor shall be obligated to promptly review and address all observations raised in the Inspection Reports and undertake necessary corrective actions within a maximum period of fourteen (14) days from the date of issuance of such report, or earlier where the nature of the observation so warrants.
- 12.4. The Contractor shall submit a detailed Compliance Report for each Inspection Report, clearly outlining the corrective measures undertaken, along with supporting documentation, for review and acceptance by the Principal Architect.
- 12.5. Failure to comply with the above within the stipulated time may be treated as a breach of contractual obligations and may attract appropriate action as per the conditions of contract.

13. Design Change Request Protocol

- 13.1. Any requirement for deviation, modification, or change from the approved design, arising due to site conditions, technical constraints, or any other reason, shall be formally initiated as a Design Change Request by the Contractor.
- 13.2. All such Design Change Requests shall be routed strictly through the designated Site Representative and shall adhere to the established project



hierarchy and communication protocol to ensure proper documentation, traceability, and accountability.

- 13.3. No change in design shall be executed at site without prior written approval from the competent authority as defined in the project hierarchy.
- 13.4. The Contractor shall provide all necessary supporting details, including justification, along with the Design Change Request to facilitate timely review and decision-making.
- 13.5. Any work carried out without following the above procedure shall be deemed unauthorized and shall be liable for rejection or rectification at the Contractor's own cost.

14. Indemnity

- 14.1. The Contractor shall indemnify the Employer of the Contract and also its Engineer-in-charge, Consultants, Project Management Consultant, as a security or protection against all financial burden accruing/ arising out of any loss, expense, cost, damage or any other legal consequences caused due to an act or omission by the conduct of the Contractor (Indemnifier) or any third party on an event.
- 14.2. All legal implications need to be handled by contractor, and no extra claim shall be made for same.

15. Copyrights, Patent rights and Intellectual Property Rights

- 15.1. The Contractor shall indemnify and hold the Employer & Principal Architect harmless against and from any other claim which arises out of or in relation to (i) the Contractor's design, manufacture, construction or execution of the Works, (ii) the use of Contractor's Equipment, or (iii) the proper use of the Works.
- 15.2. The Contractor shall also indemnify and keep the Employer, Engineer-in-charge, Principal Architect, Consultants, Project Management Consultant, harmless against any action, claims, proceedings relating to the infringement or use of any patent or design of any alleged patent or design rights or design trademarks and shall pay any royalties or other charges which may be payable in respect of any article or material, or part thereof included in the Contract. In the event of any claims made under or action brought against the Engineer in charge, Consultants and UDA 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.
- 15.3. In this Clause, "infringement" means an infringement (or alleged infringement) of any patent, registered design, copyright, trademark, trade name, trade secret or other Rights intellectual or industrial property right relating to the Works; and "claim" means a claim (or proceedings pursuing a claim) alleging an infringement.
- 15.4. This clause shall be governed by the following statutes



- a) The Patents Act, 1970;
- b) The Trademarks Act, 1999;
- c) The Copyright Act, 1957;
- d) The Designs Act, 2000;

16. Declaration by the Contractor

All the products and accessories shown in the shop drawing/s or data sheet/s submitted by contractor/ Specialist Agency have been checked for their copyright and patent compliance by the Contractor/ Specialist Agency. Any violation of the said compliance will be the sole responsibility of the Contractor/ Specialist Agency who has prepared this drawing. If the product or accessories installed on site deviates from the ones shown in the drawing, the Contractor/ Specialist Agency will have to take prior approval for the same with the Engineer in charge & Principal Architect. In case of any dispute arising from copyright or patent violation by the products installed on site, the Contractor/ Specialist Agency shall be solely responsible for all legal compliance that arises from the said violation. Engineer in charge, Principal Architect, Consultants and UDA are not liable and shall not be made party to any consequences arising out of such violation.

17. Other Special Conditions

- Interested bidder shall go through all the drawings and designs of each street before quoting the tender and may also ask clarification in Pre-Bid meeting for better understanding of Street Design and items of tenders included for execution to avoid conflicts at the time of execution.
- Interest bidder shall visit the streets as mentioned above at his / her own cost before quoting the tender. No Cost shall be paid to interested bidder by Client (UDA) for such site visits.
- Timely Procurement of all type of material shall be bidder's responsibility.
- Interested bidder shall note that the project requires coordination with multiple departments of the Ujjain Administration such as Ujjain Municipal Corporation, local departments for electricity, gas, other infrastructure services, smart city, and other relevant stakeholders & service providing agencies like Torrent, Adani Gas, BSNL, and other communication cable agencies like Reliance Jio, TATA, Air-Tel etc. Bidder shall coordinate with all such departments / agencies for smooth execution of the work as & when required.
- Utmost safety precautions like signages of "work in progress" / safety barricades / reflective signage / traffic diversion etc must be successful bidder's responsibility. Any fatal accident or any type of incident occurring due to negligence during entire execution and due to which, if any legal issues or any issues created Suo moto by anyone or any relevant authorities, then it shall be completely Successful Bidder's Responsibility. The decision of any such authorities / court shall be binding to Successful Bidder.



- IRC SP-55 provides safety guidelines for traffic management and protective measures during road construction and maintenance to ensure worker and road user safety.
- Bidder shall get clearance from City Traffic Police Department for Traffic Diversion and vehicle permit and for any other activities if required.
- Successful bidder shall start the work simultaneously at all locations as per available stretch.
- Bidder shall stack the material on site in such a way that it should not obstruct traffic movement, and no accident occurs.
- The Scope of Work may change i.e. either one or more than one street / road mentioned in the tender may be either dropped or one or more than one street / road may be added. Thus, there are possibilities of reduction in scope of work or increase in scope of work. Bidder shall quote tender accordingly. In such case bidder shall not be paid any type of compensation for reduction in scope of work at the same time bidder is bound to execute the work if scope is increased at his approved tender rate.
- The contractor shall separately provide transportation facility for UDA staff appointed on his Batch mix plant. Vehicle provided for this purpose shall be a Four-Wheeler in good operational condition with Driver. The contractor shall not be paid any extra for the same.
- Contractor to prepare and submit the As-built drawings in 4 Sets of Hard Copy as well as in soft copy.
- Contractor can work for 24 hours a day, 7 days a week.
- The Contractor shall provide suitable barricading as per safety norms.
- Stability of barricades shall be the full responsibility of the contractor.
- The barricading provided shall be retained in position at site continuously and shall be shifted from one location to another location as many times as required during the execution as instructed by Engineer-In-Charge till its completion. The barricading shall not be removed without prior approval of Engineer-In-Charge.
- Installation of barricading and Maintenance of barricading for damages, painting, all incidents, labour, materials, equipment's is deemed to be part of rates quoted by contractor and no-extra claim be entertained for the same.
- **Project Vehicle:-** For site, Minimum 2 vehicles (7-seater) brand new fully loaded four-wheeler with A.C. shall be provided to the employee of UDA for site supervision of the work. The Cost of running, maintenance, fuel / vehicle charging unit cost per month, driver salary as per UDA norms, insurance with sole responsibility, etc. complete will be borne by contractor. The vehicle shall be required anywhere and at site of road work for the use of UDA. The vehicle will run through out the period of contract incl. Sunday/holidays. The vehicle must be handed over to UDA within the 15 days after the work order is issued. Vehicle will be handed over to contractor after 90 days of final bill sanction of



tender. Penalty of Rs. 45,000 per vehicle per month shall be levied and deducted in Running Bill / Deposit of contractor for not providing vehicle as stipulated.

Engineer In Charge's Decisions:

- Except where otherwise specifically stated, the Engineer in charge will decide contractual matters between the Employer and the Contractor as specified in the contract.
- Except as expressly stated in the contract, the Engineer shall have no authority to relieve the contractor of any of his obligations under the contract.
- Engineer shall act impartially while dealing with the contractual matters arising between the Contractor and the Employer while
 - Giving decisions, opinion or consent,
 - Expressing his satisfaction or approval,
 - Determining value, or
 - Otherwise taking decisions which may affect the rights and obligations of the Employer or the Contractor

Other Contractors

The Contractor shall cooperate and share the site with other contractors, public authorities, utilities, and the Employer as and when required without prejudice to any of his contractual obligations. The Contractor shall as referred to in the Contract Data, also provide facilities and services for them as mentioned by the Engineer. The employer may modify the schedule of other contractors and shall notify the contractor of any such modification.

Insurance

- The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Commencement Date to the end of the Defects Liability Period, in the amounts and deductibles as stated below and the contract data, for the following:
 - (a) Loss of or damage to the Works, Plant and Materials. (Minimum full replacement costs and additional 15% costs),
 - (b) Loss of or damage to Contractors Equipment and other things at site (minimum full replacement costs),
 - (c) Loss of or damage of property and personnel (other than the Works, Plant, Materials and Equipment in connection with the Contract), i.e. Third-Party Insurance; and
 - (d) Personal injury or death. (i.e. Workmen compensation policy)
- Policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Commencement Date. All such insurance policies shall provide for compensation to be payable in the



types and proportions of currencies required to rectify the loss or damage incurred.

- No work (Temporary or Permanent) shall be permitted at site in absence of proper insurance policies and up to date payment of premium.
- The responsibility of any amounts not insured or not recovered from the insurer shall be borne by the Contractor in accordance with their responsibilities as defined in these clauses.
- The insurance policy shall include a cross-liability clause such that the insurance shall apply to the Contractor and the Employer as separate insured.
- The minimum amount of insurance shall be as specified in these clauses and the Contract data. In the event of mismatch insurance shall be for higher amount.
- The Contractor shall keep notified the insurer of changes in the nature, extent or programme for the execution of the works and ensure the adequacy of the insurances at all the times in accordance with the terms of the contract.

Site Investigation Reports

The bidder is advised to inspect and examine the site and its surroundings and satisfy himself with the nature and extent of site and work, the hydrological and climatic conditions the means of access to the site, the constraints of space for stacking material/machinery, labour etc. he requires, if any, weather conditions at site, general ground/subsoil conditions etc. or any other circumstances which may affect or influence their bid. No claim, whatsoever, shall be entertained from the bidder, on the plea that the information supplied by the Owner is insufficient or is at variance to the actual site conditions.

Safety

The Contractor shall have full regard throughout execution, completion and defects liability period to following safety aspects and shall take all necessary steps to ensure that danger to safety is avoided all the time in respect of –

- a. Safety of the works
 - b. Safety of the Contractors employees and all the persons directly or indirectly engaged by him for the works
 - c. Safety of all the employees including persons working on other contracts of Employer at the same site of the Employer and Engineers employees engaged at work site.
 - d. Any authorised third-party persons on the site.
 - e. Contractor's plant and equipment
- Contractor shall provide and maintain at his costs all lights, guards, fencing, warning signs, watching when and where necessary or required by Engineer or by any duly constituted authority for the protection of the works or for the safety and convenience of the public or others.



- Safety officers & stewards must be deployed in adequate numbers as per the instructions of Client / Engineer in Charge, by the Contractor during the execution stage as work is near to the river banks. Necessary Fine & penalties up to maximum of Rs 20 Lacs per Incident can be imposed by Client if the contractor doesn't maintain adequate safety staff & practises.
- Contractor shall take all reasonable steps to protect the environment on and off the site and avoid damage or nuisance to persons or property of the public and others arising as a consequence of his method of operation.
- The contractor shall maintain in good condition all work throughout execution, completion and defects liability period. The contractor shall be responsible for and to make good all injuries, damages and repairs, rendered necessary by fire, rain, traffic, floods or other causes.
- All the scaffolding work, wherever required for the execution of work, shall be provided by the contractor. Nothing extra shall be payable on this account. It shall be provided strictly with double scaffolding system with all the accessories etc. with adjustable suitable working platforms to access the areas, with ease for working and inspection. It shall be designed to take all incidental loads. It should cater to the safety features for workmen. It shall be ensured that no damage is caused to any structure due to scaffolding.
- All temporary warning/ caution boards display such as "Construction Work in progress", "keep away", "No parking" etc. shall be provided and displayed during day as well as night time by the contractor, wherever required and as directed by the Engineer.
- Arrangement of temporary water and electricity and telephone connection required, by him, shall be made by the contractor at his own cost and also necessary permissions directly from relevant Owners shall be obtained by him under intimation to the Owner. Also, all initial and running charges and security deposit, if any in this regard shall be borne by him. The contractor shall abide by all the rules/ bye laws applicable in this regard and he shall be solely responsible for any penalty on account of violation of any of the rules I byelaws in this regard.
- The contractor shall be responsible for maintenance and watch and ward of the complete installation and shall also be responsible for any pilferage, theft, damage, penalty etc. in this regard. The contractor shall indemnify the Owner against any claim arising out of pilferage / theft, damage, penalty etc. whatsoever on this account. Security deposit for the work shall be released only after the clearance is obtained from the local authorities from whom temporary electric/ water I telephone connection have been obtained by the contractor.
- The contractor shall depute Site Engineers & skilled workers as required for the work. Necessary protective and safety equipment's shall be provided to them by the contractor at his own cost and used at site. Safety Officers shall be deputed by Contractor in reasonable numbers.

**Security & Traffic Arrangements**

- In event of any restriction being imposed by the UDA, Traffic Department or any other local governing body associated with the project, on the working or movement of labour, materials, the contractor shall strictly follow all such restrictions or instructions issued regarding the same and nothing extra shall be payable to the contractor on account of such restrictions or instructions.
- In case of loss of time on this account if any, shall have to be made up by generating additional resources etc.
- General security restrictions are given as under:
 - i. The movement of trucks and vehicles shall be regulated in accordance with rules and regulations as approved by competent authorities.
 - ii. The contractor shall inform in advance, if required, the truck registration numbers ownership of the trucks, names and addresses of the drivers for necessary action by the security agency.
 - iii. As and when there will be security requirements, certain additional restrictions can be imposed as per the requirement of the situation.
 - iv. No claim whatsoever will be entertained by the Owner on account of any restriction that can be imposed as per the requirement of the situation.
- No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. However, reasonable quantity may be permitted for storage, subject to the compliance of all rules/instructions issued by the relevant authorities and as per the direction of Engineer -in- Charge in this regard.
- The contractor shall save harmless and indemnify the Employer in respect of all claims, proceedings, damages, costs, charges and expenses whatsoever arising out of, or in relation to, any such matters in so far as the Contractor is responsible thereof.

Possession of the Site

- The Contractor shall commence the work as soon as is reasonably possible on receipt of the “issue of work order” from the Engineer.
- The Employer shall give possession of parts of the Site to the Contractor from time to time as agreed in the contract in the order in which such portions will be made available to the Contractor. This shall be based on the contractor’s construction programme and method of construction.
- The site of work shall be always kept clean. The excavated material shall be disposed off as directed by the Engineer, from the premises and all necessary permissions in this regard from the local bodies shall be obtained by the contractor. The water / slush / bentonite slurry etc. shall not be allowed to be collected at site or to be discharged into public drainage system. The work shall be carried out in such a way that the area is kept clean and tidy without causing any nuisance due to overflowing or spilling of bentonite slurry or any



other material all over the place. Nothing extra shall be payable on this account.

- If the Contractor suffers delays and /or incurs costs on account of delays in giving possession of site from the Employer in accordance with sub clause 20.2 and 20.4, the Engineer shall then decide if any extension of time after taking necessary approvals.

Avoidance to damage of roads

The Contractor shall ensure that no damage to roads and bridges on the route to the sites occurs due to his or his subcontractor's traffic. He shall ensure minimum possible hindrance to the traffic movements on public roads and bridges due to his materials, plant, temporary works etc. No materials shall be stacked on public roads and thoroughfares. Contractor shall get the approval of "Traffic Management Plan". Employer shall assist the contractor in getting the necessary approval from the concerned departments. The Cost incurred shall be borne by the Contractor.

Transport of Contractor's equipment

The Contractor shall specifically notify the Employer and the Engineer in case he plans to transport materials, equipment, plant etc. which might induce damages to the roads, in that case all the repair & rehabilitation will be done by contractor at his own cost.

Contractor to keep site clean

During the execution of the work, the Contractor shall keep the site clean. All wreckage rubbish, excess materials, temporary works no longer required will be removed from site.

Clearance of site on completion

The Contractor shall clear away and remove all Contractors equipment, surplus materials, rubbish, temporary works & Sheds of every kind, except those Contractors equipment, surplus materials, rubbish, temporary works that may be required by him during the Defects Liability period and leave the site clean and in a workmanlike condition to the satisfaction of the Engineer on issue of the Taking Over Certificate.

Management Meetings

- Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.
- The Engineer shall record the business of management meetings and is to provide copies of his record to those attending the meeting and to the



Employer. The responsibility of the parties for actions to be taken is to be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

- A meeting shall be conducted by the Employer/Joint Committee to review the complete status of work once every month.

Early Intimation

- The Contractor is to intimate the Engineer at the earliest opportunity of specific likely future events or circumstances that may affect the quantity of the work, increase the Contract Price, or delay the execution of works. The Engineer may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate is to be provided by the Contractor as soon as reasonably possible.
- The Contractor shall cooperate with the Engineer in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Engineer.

Payments

- Payments shall be adjusted for deductions for other recoveries in terms of the contract and taxes at source, as applicable under the law. The employer shall pay the contractor the amounts certified by the Engineer.
- No payment of interest shall be made to the contractor for delayed payment if any. If an amount certified is increased or decreased in a later date certificate due to corrections in previous certificates or as a result of an award from Arbitration, Contractor shall be paid or recovered, such amount only. The Contractor shall not be paid any interest upon such delayed payment.

Cost of Repairs

Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Liability periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

Taking Over

When the whole of the Works has been substantially completed and have satisfactorily passed any Tests on Completion prescribed by the contract, the Contractor may give a notice to that effect to the Engineer, with a copy to the Employer, accompanied by a written undertaking to finish with due expedition any outstanding work during the Defects Liability Period. Such notice and undertaking shall be deemed to be a request by the Contractor for the Engineer to issue a Taking over Certificate in respect of the works. The Engineer shall, within 21 days of the delivery of such a notice, either issue to the Contractor



with a copy to the Employer, a Taking over Certificate, stating the date on which, in his opinion, the Works were substantially completed in accordance with the Contract, or give instructions in writing to the Contractor, specifying all the work which, in the Engineer's opinion, is required to be done by the Contractor before the issue of such certificate. The Engineer shall also notify the Contractor of any defects in the works affecting substantial completion that may appear after the instruction and before completion of the works specified therein. The Contractor shall be entitled to receive such taking over certificate within 21 days of completion, to the satisfaction of the Engineer, of the Works so specified and remedying any defects so notified.

The Contractor shall be deemed to have undertaken to complete with due expedition any outstanding work in that part of Permanent Works during the Defects Liability Period.

Default of Contractor

If the Contractor enters into voluntary or involuntary bankruptcy, liquidation or dissolution or becomes insolvent, or makes an arrangement with, or assignment in favour of, his creditors, or agrees to execute the contract under a committee of inspection of his creditors, or if a receiver, administrator, trustee or liquidator appointed over any substantial part of his assets, or if, under any law or regulations relating to reorganisation, arrangement or readjustment of debts, proceedings are commenced against the Contractor or resolution passed in connection with dissolution or liquidation or if any steps are taken to enforce any security interest over a substantial part of the Contractor's assets, or if any act is done, or event occurs with respect to the Contractor or his assets which, under any applicable law has a substantially similar effect to any of the foregoing acts or events, or if the Contractor has contravened the sub clause regarding assignment and subletting or has an execution levied on his goods, or if the Engineer certifies to the Employer with a copy to the Contractor, that, in his opinion, the Contractor:

- a. Has repudiated the Contract,
 - b. without reasonable excuse has failed
 - i. to commence the Works in accordance with sub clause 17.1 or
 - ii. to proceed with the Works, or any section thereof, within 28 days after receiving notice pursuant to sub clause 29.3 and 29.4,
 - iii. to comply with a notice issued pursuant to sub clause 37 within 28 days after having received it, or an instruction issued pursuant to sub clause 38 despite previous warning from the Engineer, in writing, is otherwise persistently or flagrantly neglecting to comply with any of his obligations under the contract or,
 - iv. has contravened sub clause regarding sub-contracting,
- then the Employer may, after giving 14 days' notice to the Contractor, enter upon the site and the Works, and terminate the employment of the Contractor without thereby releasing the Contractor from any of his obligations or liabilities



under the Contract, or affecting the rights and authorities conferred on the Employer or the Engineer by the Contract, and may complete the works, or employ any other contractor to complete the Works. The Employer or such other contractor may use the Contractor's equipment, Temporary Works or material as he or they may think proper.

Relation with Public Authorities

The contractor shall comply with all obligations arising out of legal orders and directions that may be given to him from time to time, by any local or public authorities and shall pay out of his own money, all charges becoming payable to such authorities. He shall co-ordinate his activities during execution, with all agencies including UDA, Design Consultants, Project Management consultants, agencies like Irrigation Department, land & Revenue Department, Railways Department, Local Pollution Control Board, State Electricity Distribution Company, Local Telephone Exchange and their representatives as and when required without any dispute. UDA will assist in getting all necessary approval, but final responsibility will be of the Contractor.

Royalties

- The Contractor shall pay all royalties, rent and other payments or compensation if any for getting construction materials other than embankment material required for the Works, however same will not be reimbursed. The Royalty for Embankment material procured directly by contractor shall be paid by Employer. The Royalty for Embankment material procured directly from projects within UDA limit, shall not be contractor's responsibility.
- No GST on Royalty will be paid by UDA.

Changes in Cost and Legislation

There shall be no addition or deduction from the Contract Price due to changes to any National or State Statute, Ordinance, Decree, Law, Regulation or byelaw. The adjustment to Contract Price affected under various sub clauses detailed in clause 41 shall be deemed to cover such costs.



SECTION – 4
Bill of Quantities

“Attached separately.”



SECTION – 5

Agreement Form

AGREEMENT

This agreement, made on the _____ between the Executive Engineer Ujjain Development Authority, Ujjain (name and address of Employer) hereinafter called "the Employer" and _____ (name and address of contractor) hereinafter called "the Contractor" of the other part.

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

NOW THIS AGREEMENT WITNESSED as follows:

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

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

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

Signed, Sealed and Delivered by the said _____ in the presence of:

Executive Engineer
UDA Maints. Dn. No. 2 Ujjain

Binding Signature of Contractor



मध्यप्रदेश शासन
लोक निर्माण विभाग
मंत्रालय, भोपाल

क्रमांक एफ-53/2/2011/यो/19/

भोपाल, दिनांक.....

विषय:- लोक निर्माण विभाग में अव्यवहारिक (unworkable rates) निविदा प्राप्त होने पर की जाने वाली कार्यवाही ।

संदर्भ:- शासन का आदेश क्रमांक एफ-53/2/2011/यो/19/5788, दिनांक 25.10.2011

:: आदेश ::

राज्य शासन एतद् द्वारा लोक निर्माण विभाग में अव्यवहारिक (unworkable) निविदा प्राप्त होने पर की जाने वाली कार्यवाही के संबंध में उपरोक्त संदर्भित आदेश की कंडिका (iv) में निम्नानुसार संशोधन जारी करता है :

(iv) उपरोक्तानुसार अव्यवहारिक दरों (unworkable rates) के लिए ली गई अतिरिक्त परफार्मेंस गारन्टी (additional performance guarantee) की राशि ठेकेदार द्वारा मापदण्डानुसार सम्पादित कराये गये कार्य की मात्रा के अनुपात में समय समय पर विमुक्त (Release) की जाये ।

उपरोक्त आदेश तत्काल प्रभाव से लागू किया जाता है एवं इसके जारी दिनांक के पश्चात् आमंत्रित सभी निविदाओं में अतिरिक्त विशेष शर्त के रूप में जोड़ा जाये ।

मध्यप्रदेश के राज्यपाल के नाम से
तथा आदेशानुसार

(आर.के. मेहरा)
सचिव, म.प्र.शासन
लोक निर्माण विभाग

पू० क्रमांक : एफ-53/2/2011/यो/19/ 2807

भोपाल, दिनांक 11-7-18

- प्रतिलिपि :-
1. प्रधान संचालक, म.प्र. सड़क विकास निगम, भोपाल
 2. प्रमुख अभियंता, लोक निर्माण विभाग, भोपाल
 3. परियोजना संचालक, पी.आई.यू. लोक निर्माण विभाग, भोपाल
 4. समस्त मुख्य अभियंता, लोक निर्माण विभाग, म.प्र.
 5. समस्त अतिरिक्त परियोजना संचालक, पी.आई.यू. लो.नि.वि. म.प्र.
 6. समस्त अधीक्षण यंत्री, मण्डल कार्यालय, लोक निर्माण विभाग, म.प्र.
 7. समस्त कार्यपालन यंत्री, लोक निर्माण विभाग संभाग, म.प्र.
 8. समस्त सहायी परियोजना यंत्री, पी.आई.यू. लो.नि.वि. म.प्र.
 9. निज सचिव मा० मंत्रीजी, म.प्र.शासन, लोक निर्माण विभाग, भोपाल.
- की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित ।

सचिव, 11-7-18
मध्यप्रदेश शासन
लोक निर्माण विभाग



कार्यालय प्रमुख अभियंता,

म.प्र. लोक निर्माण विभाग, निर्माण भवन, अरेरा हिल्स, भोपाल (म.प्र.)

Website : www.mp.gov.in/pwdmp

Email : pwdbhop@mp.nic.in

Phone No.- 0755-2551485, Fax - 2556527

क्रमांक/संचार/लोनिवि/2016/1302

भोपाल, दिनांक 28-04-2016

प्रति,

समस्त मुख्य अभियंता/
समस्त अधीक्षण यंत्री/
समस्त कार्यपालन यंत्री
लोक निर्माण विभाग मध्यप्रदेश।

विषय:- कांकीट के कार्यों में मैन्युफैक्चर्ड सैंड के उपयोग के संबंध में।

—00—

यह पाया गया है कि कतिपय रिजिड पेवमेंट्स के कार्यों में जिनमें मैन्युफैक्चर्ड सैंड का उपयोग किया गया है की ऊपरी सतह खराब हो गई है। प्रारंभिक अनुमान के आधार पर मैन्युफैक्चर्ड सैंड का एब्रेशन रेजिस्टेंस अपेक्षाकृत कम होने के कारण ऐसी स्थिति निर्मित हो सकती है। इस विषय पर विस्तृत विचार-विमर्श/परामर्श किया जा रहा है। इस बीच यह निर्देशित किया जाता है कि कांकीट के कार्यों में मैन्युफैक्चर्ड सैंड तथा नैचुरल सैंड को मिलाकर उपयोग किया जाये। जिसमें मैन्युफैक्चर्ड सैंड का उपयोग 50 प्रतिशत से अधिक न किया जाये।

उपरोक्त निर्देशों का समावेश अनुबंध में भी किया जाये।

(अखिलेश अग्रवाल)
प्रमुख अभियंता

लोक निर्माण विभाग, मध्यप्रदेश

भोपाल, दिनांक 28-04-2016

पृ. क्रमांक/संचार/लोनिवि/2016/1303

प्रतिलिपि:-

1. निज सहायक, माननीय मंत्री जी लोक निर्माण विभाग मध्यप्रदेश।
2. प्रमुख सचिव, म.प्र. शासन लोक निर्माण विभाग, मंत्रालय भोपाल। मुख्य अभियंताओं की बैठक दिनांक 28-4-2016 में दिये गये निर्देशों के क्रम में सूचनार्थ।
3. मुख्य अभियंता, यो/ब, कार्यालय प्रमुख अभियंता लोक निर्माण विभाग भोपाल।
4. मुख्य अभियंता एमडीआर, कार्यालय प्रमुख अभियंता लोक निर्माण विभाग भोपाल।
5. सामान्य शाखा/संचार, कार्यालय प्रमुख अभियंता लोक निर्माण विभाग भोपाल।

Dr. Mothe
11/10/16

(अखिलेश अग्रवाल)
प्रमुख अभियंता

लोक निर्माण विभाग, मध्यप्रदेश



मध्यप्रदेश शासन
लोक निर्माण विभाग मंत्रालय
वल्लभ भवन, भोपाल

क्रमांक एक - 58/ 24/15/19/यो

भोपाल दिनांक ...8-2015

प्रति,

प्रमुख अभियंता
लोक निर्माण विभाग
27-28, निर्माण भवन, अरेरा हिल्स,
भोपाल।

विषय:- विभाग में किये जा रहे डामरीकरण कार्यों में प्रयुक्त की जाने वाली मशीनरी के संबंध में।

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विभाग में चल रहे डामरीकरण कार्यों के संबंध में कार्यों की गुणवत्ता सुनिश्चित करने के लिये प्रयुक्त की जाने वाली मशीनरी के संबंध में निम्नानुसार निर्देश जारी किये जाते हैं:-

1. सड़कों के ऐसे समस्त कार्य जिनमें डामरीकरण के कार्य में डीबीएम तथा बीसी का प्रावधान रखा गया है, वहां पर न्युमेटिक टायर रोलर का उपयोग का प्रावधान निविदा प्रपत्र में किया जाये। ऐसे समस्त कार्य जिनमें डामरीकरण कार्य की लागत रु. 5 करोड़ से अधिक की है तथा जिनमें डीबीएम तथा बीसी का प्रावधान रखा गया है में आवश्यक रूप से न्युमेटिक रोलर के अतिरिक्त कम्प्यूटराईज्ड बैच मिक्स प्लांटका भी प्रावधान निविदा प्रपत्र में किया जाये।
2. जहां भी मार्ग का कार्य डब्ल्यू एम एम लेयर अथवा उसके नीचे की लेयर्स से किया जाना है तथा डामरीकृत कार्य में डीबीएम एवं बीसी का प्रावधान है वहां डामरीकरण कार्य सेंसर पेवर से ही किया जाये। इस संबंध में डब्ल्यू एम एम की द्वितीय परत भी सेंसर पेवर से ही की जाये। जिससे डामरीकृत लेयर्स की मोटाई एक जैसी प्रावधानानुसार सुनिश्चित की जाकर डिजाईन्ड प्रोफाईल प्राप्त की जा सके।
3. डामरीकरण के कार्यों हेतु जो भी लोड प्लांट से साईट पर जायेंगे उनके संबंध में टेकेदार कम्प्यूटराईज्ड स्लिप विभाग को प्रस्तुत करेंगे किंतु यह स्पष्ट किया जाता है कि कम्प्यूटराईज्ड स्लिप गुणवत्ता का आधार नहीं मानी जायेगी तथा किये गये कार्य की गुणवत्ता संबंधित टेस्ट रिजल्ट्स के आधार पर ही आंकी जायेगी। कम्प्यूटराईज्ड स्लिप की जानकारी विभाग द्वारा क्रॉस चेकिंग हेतु उपयोग में ली जा सकती है।

(सी. पी. अग्रवाल)

सचिव

म.प. शासन, लोक निर्माण विभाग



पृ.क्रमांक एफ.- 58/ 24/15/19/यो 4342

भोपाल दिनांक 6-8-2015

प्रतिलिपि:-

1. निज सहायक, मानवीय मंत्री जी लोक निर्माण विभाग भोपाल।
2. समस्त मुख्य अभियंता, लोक निर्माण विभाग, मध्यप्रदेश। मध्य परियोजनापुर
3. समस्त अधीक्षण यंत्री, लोक निर्माण विभाग, मध्यप्रदेश।
4. समस्त कार्यपालन यंत्री लोक निर्माण विभाग, मध्यप्रदेश।

(सी. पी. अखपाल)

सचिव

म.प. शासन, लोक निर्माण विभाग



इसे वेबसाईट www.govtpressmp.nic.in से भी डाउन लोड किया जा सकता है.



मध्यप्रदेश राजपत्र

(असाधारण)

प्राधिकार से प्रकाशित

क्रमांक 148]

भोपाल, शनिवार, दिनांक 28 मार्च 2020—वैत्र 8, शक 1942

विधि और विधायी कार्य विभाग

भोपाल, दिनांक 28 मार्च 2020

क्र. 237-67-इक्कोस-अ(प्र.).—भारत के संविधान के अनुच्छेद 213 के अधीन मध्यप्रदेश के राज्यपाल द्वारा प्रख्यापित किया गया निम्नलिखित अध्यादेश सर्वसाधारण की जानकारी हेतु प्रकाशित किया जाता है.

मध्यप्रदेश के राज्यपाल के नाम से तथा आदेशानुसार,
आर. पी. गुप्ता, अवर सचिव.



“(4) उपधारा (2) में अन्तर्विष्ट किसी सीमा या लक्ष्य के होते हुए भी, 31 मार्च, 2020 को समाप्त होने वाले वित्तीय वर्ष के लिए, राज्य सरकार रूपए 4443.00 करोड़ का अतिरिक्त ऋण प्राप्त कर सकेगी, जो कि उपधारा (2) में उल्लिखित किसी सीमा या लक्ष्य के विरुद्ध संगणित नहीं किया जाएगा।”।

4. इस अध्यादेश के प्रवर्तन की कालावधि के दौरान भारतीय स्टाम्प अधिनियम, 1899 केन्द्रीय अधिनियम क्रमांक दो सन (1899 का दो) धारा 5 में विनिर्दिष्ट संशोधनों 1899 का अस्थाई रूप से संशोधित के अध्याधीन प्रभावी होगा।
किया जाना

5. मध्यप्रदेश राज्य को लागू हुए रूप में भारतीय स्टाम्प अधिनियम, 1899 (1899 का 2) को, मध्यप्रदेश राज्य को लागू इसमें इसके पश्चात् उपबंधित रीति में संशोधित हुए रूप में केन्द्रीय किया जाए—
अधिनियम, 1899 का
संख्यांक 2 की अनुसूची
1-क का संशोधन.

अनुसूची 1-क में,— (1) अनुच्छेद 6 में, खण्ड (छ ख) के स्थान पर, निम्नलिखित खण्ड स्थापित किया जाए, अर्थात् :—

“(छ ख) कोई संकर्म संविदा, जिसमें संविदा के सम्यक् अनुपालन अथवा किसी दायित्व के सम्यक् निर्वहन को प्रतिभूत करने वाला कोई करार अंतर्विष्ट हो और जो कोई विकास अथवा निर्माण करार अथवा प्रतिभूति बंध पत्र न हो—

(एक) यदि संविदा मूल्य पचास लाख रूपए तक है	पांच सौ रूपए
(दो) यदि संविदा मूल्य पचास लाख रूपए से अधिक है	पांच लाख रूपए की अधिकतम सीमा के अध्याधीन रहते हुए संविदा मूल्य का 0.1 प्रतिशत”।



कार्यालय प्रमुख अभियंता
लोक निर्माण विभाग मध्यप्रदेश

27-28, निर्माण भवन, प्रथम तल, अरेरा हिल्स, भोपाल (म. प्र.)
Website: www.mppwd.gov.in Email: pwdbhop@mp.nic.in
Tel. No. -0755-2551485 Fax No.- 0755-2556527

क्रमांक/लौनिवि/2015/संचार/
प्रति,

1069

भोपाल दिनांक 02-05-2015

समस्त मुख्य अभियंता/
समस्त अधीक्षण यंत्री/
समस्त कार्यपालन यंत्री
लोक निर्माण विभाग, मध्यप्रदेश।

विषय:- कांक्रिट मार्ग (रीजिड पेवमेंट) निर्माण के कार्यों में गुणवत्ता सुनिश्चित करने के संबंध में निर्देश।

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कतिपय प्रकरणों में यह देखने में आया है कि विभाग में कांक्रिट पेवमेंट के जो कार्य कराये जा रहे हैं वे निर्धारित मानक स्तर के नहीं हैं। ऐसी स्थिति में कांक्रिट पेवमेंट में या तो गहरे केक्स परिलक्षित होते हैं अथवा मार्ग की सतह अत्यंत खराब हो जाती है। इस प्रकार की परिस्थिति पीक्चूरी कार्य में प्रयुक्त की जा रही कांक्रिट की अल्प गुणवत्ता के कारण ही मुख्यतः होती है।

उपरोक्त परिस्थितियों को ध्यान में रखते हुये कांक्रिट पेवमेंट की गुणवत्ता सुनिश्चित करने के मान से निम्नानुसार निर्देश प्रसारित किये जाते हैं:-

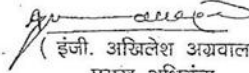
- अ. कांक्रिट मार्ग के निर्माण हेतु एमओआरटी एण्ड एच, आई आर सी एवं आई एस के संबंधित निर्देशों / मापदण्डों का पालन किया जाये।
- ब. गुणवत्ता की दृष्टि से इन कार्यों के संबंध में निम्नानुसार मुख्य बिन्दुओं का पालन आवश्यक रूप से सुनिश्चित किया जाये -
 1. ड्रायलीन कांक्रिट के कार्य पर प्रत्येक 1000 वर्गमीटर के कार्य हेतु काम्प्रेसिव स्ट्रेंथ की टेस्टिंग के लिये कम से कम 3 सेम्पल्स लिये जायें (संदर्भ आई एस 516 एवं एम ओ आर टी एण्ड एच क्लाज 903.5.1.1)।
 2. पेवमेंट कांक्रिट के कार्य पर प्रत्येक 150 क्यूबिक मीटर कार्य के लिये कम से कम 3 बीम एवं 3 क्यूब स्पेसिमेन लिये जायें। 1 स्पेसिमेन में 6 क्यूब तथा 6 बीम होंगे जिनमें से तीन 7 दिवस के पश्चात तथा तीन 28 दिवस के पश्चात टेस्ट किये जायेंगे। यदि एक कार्य दिवस में 150 क्यूबिक मीटर से कम कार्य किया जाता है तो भी कम से कम उपरोक्तानुसार 3-3 स्पेसिमेन लिये जाने होंगे (संदर्भ आई एस 516 एवं एम ओ आर टी एण्ड एच क्लाज 903.5.2.1)।

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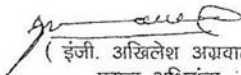
3. पेवमेंट कांक्रीट का कार्य किये जाने के पश्चात बीम एवं कांक्रीट क्यूब्स की 7 दिवस स्ट्रेंथ टेक पाये जाने पर टेकेदार को संबंधित कार्य का 50 प्रतिशत भुगतान किया जा सकेगा। कारिंटिंग के 28 दिवस पश्चात पेवमेंट से कोर कटर के माध्यम से सेम्पल्स लिये जाकर तथा उनकी टेस्टिंग विभागीय एवं एनएबीएल प्रयोगशालाओं में पूर्व निर्देशों के अनुसार किये जाने तथा किया गया कार्य मापदण्ड के अनुसार पाये जाने पर ही शेष 50 प्रतिशत राशि का भुगतान किया जावे। यह स्पष्ट किया जाता है कि यदि कार्य 28 दिवस की टेस्टिंग में मानक अनुसार (मोटाई एवं कम्प्रेसिव स्ट्रेंथ के मान से) नहीं पाया जाता है तो संबंधित कार्य अमान्य करते हुये, इसके विरुद्ध पूर्व में किये गये 50 प्रतिशत भुगतान की रिकवरी तत्काल संबंधित बिल से की जाये।
4. यह स्पष्ट किया जाता है कि सामान्यतः कोर हेतु 1 कि.मी. लंबाई के कार्य में 3 कोर सेम्पल लिये जायें। 1 कि.मी. से कम लंबाई के कार्य में 2 सेम्पल भी लिये जा सकते हैं। सेम्पल ऐसे स्थानों से लिये जायें जहां विजुअल इंस्पेक्शन से कांक्रीट की गुणवत्ता संदेहास्पद है। जहां से भी सेम्पल लिये जायें उस होल को तत्काल एम40 कांक्रीट से भरवाया जाना भी सुनिश्चित किया जाये।
5. भविष्य में जिन कार्यों पर कांक्रीट पेवमेंट का पूर्ण अथवा आंशिक कार्य किया जाना है उनमें निविदा बुलाते समय इस परिपत्र को निविदा प्रारूप का भाग बनाया जाये।


(इंजी. अखिलेश अग्रवाल)
प्रमुख अभियंता
लोक निर्माण विभाग मध्यप्रदेश

पृ. क्रमांक/लोनवि/संचार/2015/ 1070
प्रतिलिपि:-

भोपाल, दिनांक 02-05-2015

1. विशेष सहायक, माननीय मंत्री जी, म.प्र. शासन लोक निर्माण विभाग भोपाल।
2. प्रमुख सचिव, म.प्र. शासन, लोक निर्माण विभाग, मंत्रालय, भोपाल।
3. वरिष्ठ निज सहायक, प्रमुख अभियंता लोक निर्माण विभाग भोपाल।


(इंजी. अखिलेश अग्रवाल)
प्रमुख अभियंता
लोक निर्माण विभाग मध्यप्रदेश



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कार्यालय प्रमुख अभियंता

लोक निर्माण विभाग मध्यप्रदेश

27-28, निर्माण भवन, प्रथम तल, अरेरा हिल्स, भोपाल (म. प्र.)

Website : www.mppwd.gov.in

Email : pwwbhop@mp.nic.in

Telephone No.-0755-2551485 Fax No.- 0755-2556527

क्र संचार/लोनिवि/सर्कुलर /2016/ 2629

भोपाल दिनांक 09-8-2016

प्रति,

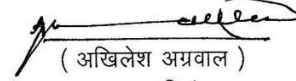
समस्त मुख्य अभियंता,
म.प्र. लोक निर्माण विभाग,
..... परिक्षेत्र

विषय:- मार्ग निर्माण कार्यों में फ्लाई ऐश उपयोग करने बाबत।

विभाग में फ्लाई ऐश से अर्थ वर्क के कार्य हेतु पूर्व जारी किये गये निर्देशों को अधिक्रमित करते हुये निम्नानुसार निर्देश जारी किये जाते हैं:-

1. सड़कों के इम्बेकमेंट का कार्य आई.आर.सी. स्पेशल पब्लिकेशन 58-2001 के अनुसार किया जाये।
2. ऐसे सड़क कार्य तथा आर.ओ.बी. के कार्य जिसमें इम्बेकमेंट की ऊँचाई 3 मीटर से अधिक हो में फ्लाई ऐश का उपयोग अनिवार्य रूप से किया जाये। यहां पर यह स्पष्ट किया जाता है जिसमें आर.ई.वाल का निर्माण किया जाना है उसमें फ्लाई ऐश का उपयोग न किया जाये।

यह निर्देश केवल उन्हीं प्रकरणों में प्रभावशील होंगे जिसमें निर्माण कार्य थर्मल स्टेशन से 300 किलोमीटर की दूरी की परिधि में हों। उपरोक्तानुसार निर्देशों का कड़ाई से पालन किया जाये तथा इसे अनुबंध का हिस्सा भी बनाया जाये।

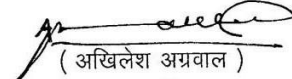

(अखिलेश अग्रवाल)

प्रमुख अभियंता
लोक निर्माण विभाग, मध्यप्रदेश

पृ. क्र. संचार/लोनिवि/सर्कुलर /2016/ 2630
प्रतिलिपि -

भोपाल दिनांक 09-8-2016

1. निज सहायक, माननीय मंत्रीजी लोक निर्माण विभाग।
2. प्रमुख सचिव, म.प्र. शासन, लोक निर्माण विभाग, भोपाल।
3. समस्त अधीक्षण यंत्री, म.प्र. लोक निर्माण विभाग
4. समस्त कार्यपालन यंत्री, म.प्र. लोक निर्माण विभाग
5. आई.टी.सेल, कार्यालय प्रमुख अभियंता, लोक निर्माण विभाग, भोपाल की ओर। परिपत्र मेल से समस्त संबंधित को प्रेषित किये जाने एवं विभाग की वेबसाइट पर अपलोड किये जाने हेतु अग्रेषित।


(अखिलेश अग्रवाल)

प्रमुख अभियंता
लोक निर्माण विभाग, मध्यप्रदेश



कार्यालय प्रमुख अभियंता,

म.प्र. लोक निर्माण विभाग, 27-28, निर्माण भवन, प्रथम तल, अरेरा हिल्स, भोपाल

Website : www.mppwd.gov.in

Phone No. - 0755-2551485, Fax - 2556527

Email : pwdbhop@mp.nic.in

क्रमांक/लोनिवि/2016/सर्कुलर/संचार/3625

भोपाल, दिनांक 25/10/2016

प्रति,

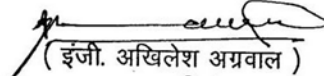
समस्त मुख्य अभियंता,
समस्त अधीक्षण यंत्री,
समस्त कार्यपालन यंत्री,
लोक निर्माण विभाग, मध्यप्रदेश ।

विषय :- कांक्रीट मार्ग (रीजिड पेवमेंट) निर्माण के कार्यों में गुणवत्ता सुनिश्चित करने के संबंध में निर्देश।
संदर्भ:- इस कार्यालय का परिपत्र क्रमांक लोनिवि/2015/संचार/1069 भोपाल दिनांक 2-5-2016

उपरोक्त संदर्भित परिपत्र के बिन्दु क्रमांक-3 में निम्नानुसार आंशिक संशोधन किया जाता है।

पेवमेंट कांक्रीट का कार्य किये जाने के पश्चात बीम एवं कांक्रीट की 7 दिवस की स्ट्रेंथ ठीक पाये जाने पर ठेकेदार को संबंधित कार्य का 50 प्रतिशत भुगतान किये जाने के प्रावधान के स्थान पर 75 प्रतिशत का भुगतान किया जाये। शेष 25 प्रतिशत भुगतान 28 दिवस के पश्चात कार्य मापदण्डानुसार पाये जाने पर किया जाये। शेष निर्देश पूर्वानुसार ही रहेंगे।

उपरोक्त निर्देशों का कड़ाई से पालन किया जाना सुनिश्चित किया जाये।


(इंजी. अखिलेश अग्रवाल)
प्रमुख अभियंता
लोक निर्माण विभाग मध्यप्रदेश

पृ. क्रमांक/लोनिवि/2016/सर्कुलर/संचार/
प्रतिलिपि -

भोपाल, दिनांक 23/10/2016

1. विशेष सहायक, माननीय मंत्री जी, म.प्र. शासन, लोक निर्माण विभाग भोपाल।
2. प्रमुख सचिव, म.प्र. शासन, लोक निर्माण विभाग, मंत्रालय, भोपाल।
3. वरिष्ठ निज सहायक, प्रमुख अभियंता लोक निर्माण विभाग निर्माण भवन अरेरा हिल्स, भोपाल।

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(इंजी. अखिलेश अग्रवाल)
प्रमुख अभियंता
लोक निर्माण विभाग मध्यप्रदेश



SECTION 3 (Conditions of Contract)
Part - II Special Conditions of Contract [SCC]
Additional Special Conditions of Contract

BIDDERS ARE REQUIRED TO OFFER THEIR BIDS
EXCLUSIVE OF APPLICABLE GST. THE GST SHALL BE PAID BY
THE GOVT. TO THE CONTRACTOR SEPARATELY.

letter MDR 07-04-17

Page 137



मध्यप्रदेश शासन
लोक निर्माण विभाग
मंत्रालय

क्रमांक 4977/6871/2017/19/यो
प्रति,

भोपाल, दिनांक 23/09/2017

✓ प्रमुख अभियंता,
लोक निर्माण विभाग,
भोपाल।

2 प्रबंध संचालक,
म.प्र. रोड डेवलपमेंट कार्पो. लि.,
भोपाल।

3 समस्त मुख्य अभियंता (रा.रा. सहित),
लोक निर्माण विभाग,
म.प्र.

विषय: सड़क मार्गों में वर्तमान अनुबंधों के अंतर्गत परफारमेंस गारंटी को समाप्त किया जाना।
संदर्भ: प्रमुख अभियंता लोक निर्माण विभाग भोपाल का पत्र क्र. 401/सा/विविध/
103/2016/1080 दिनांक 17.11.2016

म.प्र. शासन लोक निर्माण विभाग के पत्र क्र. एफ-41/1/9/यो/0 दिनांक 31.10.2005 से सड़क मार्गों में वर्तमान अनुबंधों के अंतर्गत परफारमेंस गारंटी को समाप्त किये जाने के आदेश जारी किये गये थे, के सम्बन्ध में राज्य शासन एतद् द्वारा इस आदेश के तारतम्य में निम्न निर्देश जारी किये जाते हैं।

उन सड़कों पर जहाँ राज्य शासन अथवा सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार द्वारा पुनः किसी अन्य योजना में मार्ग का उन्नयन करने की स्वीकृति जारी की जाती है, वहाँ निम्न तालिकाओं के अनुसार राशि वसूल कर परफारमेंस गारंटी की शेष राशि ठेकेदार द्वारा विमुक्त की जाये।

तालिका क्रमांक-1

(3 वर्ष की पी.जी. हेतु)

पूर्ण किये गये वर्ष (वास्तविक पूर्णता की तिथि)		वसूली जाने वाली राशि (कुल परफारमेंस गारंटी राशि का प्रतिशत)	विमुक्त की जाने वाली राशि (कुल परफारमेंस गारंटी राशि का प्रतिशत)
प्रथम वर्ष तक	प्रथम तिमाही	60 प्रतिशत	40 प्रतिशत
	द्वितीय तिमाही	55 प्रतिशत	45 प्रतिशत
	तृतीय तिमाही	50 प्रतिशत	50 प्रतिशत
	चतुर्थ तिमाही	45 प्रतिशत	55 प्रतिशत
1 से 2 वर्ष तक	प्रथम तिमाही	40 प्रतिशत	60 प्रतिशत
	द्वितीय तिमाही	35 प्रतिशत	65 प्रतिशत
	तृतीय तिमाही	30 प्रतिशत	70 प्रतिशत
	चतुर्थ तिमाही	25 प्रतिशत	75 प्रतिशत
2 से 3 वर्ष तक	प्रथम तिमाही	20 प्रतिशत	80 प्रतिशत
	द्वितीय तिमाही	15 प्रतिशत	85 प्रतिशत
	तृतीय तिमाही	10 प्रतिशत	90 प्रतिशत
	चतुर्थ तिमाही	05 प्रतिशत	95 प्रतिशत
3 से 4 वर्ष तक		00 प्रतिशत	100 प्रतिशत

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प्रकरण क्र.-2 : वे सड़के जिनकी परफारमेंस गारंटी अवधि (4 वर्ष) हो।

जहाँ 4 वर्ष की परफारमेंस गारंटी हो वहाँ परफारमेंस गारंटी में से वसूली एवं विमुक्त की जाने वाली राशि तालिका क्रमांक-2 के अनुसार होगी।

तालिका क्रमांक-2

(4 वर्ष की पी.जी. हेतु)

पूर्ण किये गये वर्ष (वास्तविक पूर्णता की तिथि)	वसूली जाने वाली राशि (कुल परफारमेंस गारंटी राशि का प्रतिशत)	विमुक्त की जाने वाली राशि (कुल परफारमेंस गारंटी राशि का प्रतिशत)
प्रथम वर्ष तक	60 प्रतिशत	40 प्रतिशत
प्रथम तिमाही	56.25 प्रतिशत	43.75 प्रतिशत
द्वितीय तिमाही	52.50 प्रतिशत	47.50 प्रतिशत
तृतीय तिमाही	48.75 प्रतिशत	51.25 प्रतिशत
चतुर्थ तिमाही	45.00 प्रतिशत	55.00 प्रतिशत
1 से 2 वर्ष (द्वितीय वर्ष)	41.25 प्रतिशत	58.75 प्रतिशत
प्रथम तिमाही	37.50 प्रतिशत	62.50 प्रतिशत
द्वितीय तिमाही	33.75 प्रतिशत	66.25 प्रतिशत
तृतीय तिमाही	30 प्रतिशत	70 प्रतिशत
चतुर्थ तिमाही	26.25 प्रतिशत	73.75 प्रतिशत
शेष (तृतीय वर्ष)	22.50 प्रतिशत	77.50 प्रतिशत
प्रथम तिमाही	18.75 प्रतिशत	81.25 प्रतिशत
द्वितीय तिमाही	15.00 प्रतिशत	85.00 प्रतिशत
तृतीय तिमाही	11.25 प्रतिशत	88.75 प्रतिशत
चतुर्थ तिमाही	7.50 प्रतिशत	92.50 प्रतिशत
शेष (तृतीय वर्ष)	3.75 प्रतिशत	96.25 प्रतिशत
4 से अधिक	0 प्रतिशत	100 प्रतिशत

तालिका क्रमांक-3

(5 वर्ष की पी.जी. हेतु)

पूर्ण किये गये वर्ष (वास्तविक पूर्णता की तिथि)	वसूली जाने वाली राशि (कुल परफारमेंस गारंटी राशि का प्रतिशत)	विमुक्त की जाने वाली राशि (कुल परफारमेंस गारंटी राशि का प्रतिशत)
प्रथम वर्ष तक	60 प्रतिशत	40 प्रतिशत
प्रथम तिमाही	57.5 प्रतिशत	42.5 प्रतिशत
द्वितीय तिमाही	55.00 प्रतिशत	45.00 प्रतिशत
तृतीय तिमाही	52.5 प्रतिशत	47.5 प्रतिशत
चतुर्थ तिमाही	50.00 प्रतिशत	50.00 प्रतिशत
1 से 2 वर्ष (द्वितीय वर्ष)	47.50 प्रतिशत	52.50 प्रतिशत
प्रथम तिमाही	45.00 प्रतिशत	55.00 प्रतिशत
द्वितीय तिमाही	42.50 प्रतिशत	57.50 प्रतिशत
तृतीय तिमाही	40.00 प्रतिशत	60.00 प्रतिशत
चतुर्थ तिमाही	37.50 प्रतिशत	62.50 प्रतिशत

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प्रकरण क्र.-2 : वे सड़के जिनकी परफारमेंस गारंटी अवधि (4 वर्ष) हो।

जहाँ 4 वर्ष की परफारमेंस गारंटी हो वहाँ परफारमेंस गारंटी में से वसूली एवं विमुक्त की जाने वाली राशि तालिका क्रमांक-2 के अनुसार होगी।

तालिका क्रमांक-2

(4 वर्ष की पी.जी. हेतु)

पूर्ण किये गये वर्ष (वास्तविक पूर्णता की तिथि)	वसूली जाने वाली राशि (कुल परफारमेंस गारंटी राशि का प्रतिशत)	विमुक्त की जाने वाली राशि (कुल परफारमेंस गारंटी राशि का प्रतिशत)
प्रथम वर्ष तक	60 प्रतिशत	40 प्रतिशत
प्रथम तिमाही	56.25 प्रतिशत	43.75 प्रतिशत
द्वितीय तिमाही	52.50 प्रतिशत	47.50 प्रतिशत
तृतीय तिमाही	48.75 प्रतिशत	51.25 प्रतिशत
चतुर्थ तिमाही	45.00 प्रतिशत	55.00 प्रतिशत
1 से 2 वर्ष (द्वितीय वर्ष)	41.25 प्रतिशत	58.75 प्रतिशत
प्रथम तिमाही	37.50 प्रतिशत	62.50 प्रतिशत
द्वितीय तिमाही	33.75 प्रतिशत	66.25 प्रतिशत
तृतीय तिमाही	30 प्रतिशत	70 प्रतिशत
चतुर्थ तिमाही	26.25 प्रतिशत	73.75 प्रतिशत
शेष (तृतीय वर्ष)	22.50 प्रतिशत	77.50 प्रतिशत
प्रथम तिमाही	18.75 प्रतिशत	81.25 प्रतिशत
द्वितीय तिमाही	15.00 प्रतिशत	85.00 प्रतिशत
तृतीय तिमाही	11.25 प्रतिशत	88.75 प्रतिशत
चतुर्थ तिमाही	7.50 प्रतिशत	92.50 प्रतिशत
शेष (तृतीय वर्ष)	3.75 प्रतिशत	96.25 प्रतिशत
4 से अधिक	0 प्रतिशत	100 प्रतिशत

तालिका क्रमांक-3

(5 वर्ष की पी.जी. हेतु)

पूर्ण किये गये वर्ष (वास्तविक पूर्णता की तिथि)	वसूली जाने वाली राशि (कुल परफारमेंस गारंटी राशि का प्रतिशत)	विमुक्त की जाने वाली राशि (कुल परफारमेंस गारंटी राशि का प्रतिशत)
प्रथम वर्ष तक	60 प्रतिशत	40 प्रतिशत
प्रथम तिमाही	57.5 प्रतिशत	42.5 प्रतिशत
द्वितीय तिमाही	55.00 प्रतिशत	45.00 प्रतिशत
तृतीय तिमाही	52.5 प्रतिशत	47.5 प्रतिशत
चतुर्थ तिमाही	50.00 प्रतिशत	50.00 प्रतिशत
1 से 2 वर्ष (द्वितीय वर्ष)	47.50 प्रतिशत	52.50 प्रतिशत
प्रथम तिमाही	45.00 प्रतिशत	55.00 प्रतिशत
द्वितीय तिमाही	42.50 प्रतिशत	57.50 प्रतिशत
तृतीय तिमाही	40.00 प्रतिशत	60.00 प्रतिशत
चतुर्थ तिमाही	37.50 प्रतिशत	62.50 प्रतिशत

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2 से 3 वर्ष (तृतीय वर्ष)	प्रथम तिमाही	40.00 प्रतिशत	60.00 प्रतिशत
	द्वितीय तिमाही	37.5 प्रतिशत	62.5 प्रतिशत
	तृतीय तिमाही	35.00 प्रतिशत	65.00 प्रतिशत
	चतुर्थ तिमाही	32.5 प्रतिशत	67.5 प्रतिशत
3 से 4 वर्ष (चतुर्थ वर्ष)	प्रथम तिमाही	30.00 प्रतिशत	70.00 प्रतिशत
	द्वितीय तिमाही	27.5 प्रतिशत	72.5 प्रतिशत
	तृतीय तिमाही	25.00 प्रतिशत	75.00 प्रतिशत
	चतुर्थ तिमाही	22.5 प्रतिशत	77.5 प्रतिशत
4 से 5 वर्ष (पंचम वर्ष)	प्रथम तिमाही	20.00 प्रतिशत	80.00 प्रतिशत
	द्वितीय तिमाही	15.00 प्रतिशत	85.00 प्रतिशत
	तृतीय तिमाही	10.00 प्रतिशत	90.00 प्रतिशत
	चतुर्थ तिमाही	05.00 प्रतिशत	95.00 प्रतिशत
5 वर्ष से अधिक	—	0 प्रतिशत	100 प्रतिशत

इस संबंध में कार्यवाही करते समय निम्न बिन्दुओं का विशेष ध्यान रखा जावे :-

- 1- उक्त निर्देश प्रदेश के अधीन सभी राष्ट्रीय राजमार्गों, राज्य राजमार्गों, मुख्य जिला मार्गों, अन्य जिला मार्गों एवं ग्रामीण मार्गों पर लागू होंगे।
- 2- उपरोक्त निर्देशों को भविष्य में बुलाई जाने वाली निविदाओं में विशेष शर्त के रूप में सम्मिलित किया जाये।
- 3- मण्डी निधि तथा सी.आर.एफ. योजना में निर्मित सड़कों पर यह कार्यवाही केवल अति-आवश्यक स्थिति निर्मित होने पर ही की जाये।
- 4- यह पुनः स्पष्ट किया जाता है कि निर्धारित अवधि से पूर्व परफारमेंस गारन्टी आंशिक रूप से विमुक्त करने की कार्यवाही उन्हीं मार्गों के लिए की जाये, जिन पर राज्य शासन द्वारा अथवा सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार द्वारा किसी अन्य योजना में मार्ग के उन्नयन/पुनर्निर्माण के लिए स्वीकृति जारी की गई हो।

सहपत्र:- शून्य

म0प्र0 के राज्यपाल के नाम से
तथा अमदेशानुसार

(चन्द्रप्रकाश अग्रवाल)
सचिव

म0प्र0 शासन, लोक निर्माण विभाग

भोपाल, दिनांक 23/09/2017

पू0क्रमांक 4578/6871/2017/19/यो
प्रतिलिपि:-

- 1- समस्त अधीक्षण यंत्री, लोक निर्माण विभाग, म.प्र.।
- 2- समस्त कार्यपालन यंत्री, लोक निर्माण विभाग, म.प्र. (राष्ट्रीय राजमार्ग संभाग सहित)
- 3- निज सचिव, माननीय मंत्री जी लोक निर्माण विभाग, भोपाल।

की ओर सूचनार्थ (केवल स.क्र. 3 हेतु) एवं आवश्यक कार्यवाही हेतु अग्रेषित।

सहपत्र:- शून्य

सचिव

म0प्र0 शासन, लोक निर्माण विभाग

21-Sep-2017 17:00:18/Order 69



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मध्यप्रदेश शासन
लोक निर्माण विभाग
मंत्रालय

P

क्रमांक एफ-58/5/2012/19/यो/138
प्रति,

भोपाल, दिनांक 08/01/2018

प्रमुख अभियंता,
लोक निर्माण विभाग,
निर्माण भवन, भोपाल।

2 परियोजना संचालक,
लोक निर्माण विभाग,
परियोजना क्रियान्वयन ईकाई,
भोपाल।

विषय: लोक निर्माण विभाग के कार्यों की गुणवत्ता सुनिश्चित करने के सम्बन्ध में।
संदर्भ: 1. म.प्र. शासन, लो.नि.वि. के ज्ञाप क्रमांक एफ-58/5/2012/19/यो/5718 दिनांक 16.09.2013
2. म.प्र. शासन, लो.नि.वि. के ज्ञाप क्रमांक एफ-58/5/2012/19/यो/5718 दिनांक 29.01.2016
3. म.प्र. शासन, लो.नि.वि. के ज्ञाप क्रमांक एफ-58/5/2012/19/यो/3567 दिनांक 27.06.2016

लोक निर्माण विभाग के कार्यों की गुणवत्ता सुनिश्चित करने के सम्बन्ध में शासन के समसंख्यक ज्ञाप दिनांक 27.06.2016 में निम्नानुसार संशोधन किया जाता है :-

लोक निर्माण विभाग भवन/पथ एवं पी.आई.यू. के अधीनस्थ चल रहे सभी मूल निर्माण कार्यों एवं मजबूतीकरण/नवीनीकरण कार्यों में प्रयुक्त होने वाली सामग्री एवं सम्पादित किये गये कार्यों का परीक्षण केवल लोक निर्माण विभाग की विभागीय प्रयोगशालाओं से ही कराये जाये। अधीक्षण यंत्री या उनसे वरिष्ठ अधिकारी ISO/IEC 17011 के अनुसार कार्य करने वाली संस्था यथा NABL या अन्य कोई ऐक्रीडेटिंग संस्था जो कि प्रयोगशालाओं को ISO/IEC 17025 के अनुसार ऐक्रीडिट करती है, से टेस्ट कराने हेतु अनुमति प्रदान कर सकते हैं।

उपरोक्त निर्देश तत्काल प्रभाव से लागू किये जाते हैं।

CE (AP)
CE (P)
11/01/18

12/01/18

क्रमांक एफ-58/5/2012/19/यो
प्रतिलिपि :-

1. समस्त मुख्य अभियंता, लोक निर्माण विभाग, ... परिक्षेत्र
2. समस्त अतिरिक्त परियोजना संचालक, लो.नि.वि., पी.आई.यू.
3. समस्त अधीक्षण यंत्री, लोक निर्माण विभाग, ... मण्डल
4. समस्त कार्यपालन यंत्री, लोक निर्माण विभाग, ... संभाग
5. समस्त संगामीय परियोजना यंत्री, लोक निर्माण विभाग, पी.आई.यू.

8.1.2018
(चन्द्रप्रकाश अग्रवाल)
सचिव

म0प्र0 शासन, लोक निर्माण विभाग
भोपाल, दिनांक

259630
12/01/18

अग्रवाल
CE अग्रवाल
12/01/18

सचिव
म0प्र0 शासन, लोक निर्माण विभाग

08 Jan 2018 09:00:00



कार्यालय प्रमुख अभियंता,
लोक निर्माण विभाग, निर्माण भवन प्लॉट नं. 27-28 अरेरा हिल्स, भोपाल
web site : www.mp.gov.in/pwdmp e-mpwdbhop@mp.nic.in
Phone : 0755-2551372 Fax : 2556527

क्रमांक 05/प्र.अ./गुणवत्ता/2020/191

भोपाल दिनांक 14/10/2020

प्रति,

समस्त मुख्य अभियंता,
लोक निर्माण विभाग,
.....

विषय:-लोक निर्माण विभाग में कार्यों की गुणवत्ता सुनिश्चित करने हेतु निर्माण सामग्री का परीक्षण लोक निर्माण विभाग की प्रयोगशाला अथवा आई.एस.ओ./आई.ई.सी. 17025 के तहत मान्यता प्राप्त प्रयोगशाला के माध्यम से कराने बाबत।

संदर्भ:-म.प्र.शासन, लोक निर्माण विभाग, मंत्रालय भोपाल का परिपत्र क्र. एफ-58/5/2012/19/यो /2564 भोपाल दिनांक 06.09.2019 (छायाप्रति संलग्न)।

कृपया म.प्र.शासन, लो.नि.वि., मंत्रालय भोपाल के संदर्भित परिपत्र दिनांक 06.09.2019 का अवलोकन करने का कष्ट करें, जिसके द्वारा लोक निर्माण विभाग के अंतर्गत चल रहे सभी मूल निर्माण कार्य एवं रुपये 50.00 लाख से अधिक के कार्यों में प्रयुक्त होने वाली सामग्री एवं संपादित कार्यों के परीक्षण के सम्बंध में निर्देश जारी किये गये हैं (छायाप्रति संलग्न)।

तदनुसार शासन निर्देशों के परिपेक्ष्य में इनका कड़ाई से पालन करने एवं सभी निविदाओं में उक्त निर्देशों को विशेष शर्तों के रूप में जोड़ने हेतु समुचित कार्यवाही की जाना सुनिश्चित करें।

सहपत्र:-उपरोक्तानुसार।

(सी.पी. अग्रवाल)
प्रमुख अभियंता

लोक निर्माण विभाग, भोपाल
भोपाल दिनांक 14/10/2020

पृ.क्रमांक 05/प्र.अ./गुणवत्ता/2020/192
प्रतिलिपि

1. समस्त अधीक्षण यंत्री, लोक निर्माण विभाग, ... की ओर पालनार्थ।
2. समस्त कार्यपालन यंत्री, लोक निर्माण विभाग, ... की ओर पालनार्थ।

सहपत्र:-उपरोक्तानुसार।

कार्यालय कार्यपालन यंत्री
लो. नि. वि. संधारण संख्या क्र. 2020
3690 भोपाल
क्र. 10 दि. 10/10/20
संबंधित
कार्यपालन यंत्री सभागीय लेखाधिकारी

प्रमुख अभियंता
लोक निर्माण विभाग, भोपाल



बिन्दु क्र-11 (33)

मध्यप्रदेश शासन
लोक निर्माण विभाग
मंत्रालय

क्रमांक एफ-58/5/2012/19/यो 2574 भोपाल दिनांक 06/09/2019
प्रति,

- | | |
|--|---|
| 1. प्रमुख अभियंता
लोक निर्माण विभाग
भोपाल। | 2. परियोजना संचालक
लोक निर्माण विभाग
पी0आई0यू0 भोपाल। |
|--|---|

विषय:- लोक निर्माण विभाग में कार्यों की गुणवत्ता सुनिश्चित करने हेतु निर्माण सामग्री का परीक्षण लो0नि0वि0 की प्रयोगशाला अथवा आई0एस0ओ0/आई0ई0सी0 17025 के तहत मान्यता प्राप्त प्रयोगशाला के माध्यम से कराने बाबत।

संदर्भ:- सरकार का वचन पत्र बिन्दु क्रमांक 15.1 के पालन के संदर्भ में।

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लोक निर्माण विभाग में कार्यों की गुणवत्ता सुनिश्चित करने के सम्बंध में सरकार के वचन पत्र बिन्दु क्रमांक-15.1 के परिप्रेक्ष्य में लोक निर्माण विभाग में निर्माण कार्यों की गुणवत्ता सुनिश्चित करने के सम्बंध में शासन द्वारा पूर्व में जारी किये गये निर्देश दिनांक 03.09.2012, 16.09.2013, 29.01.2016, 27.06.2016 एवं 8.01.2018 को तत्काल प्रभाव से निरस्त करते हुए निम्न दिशा निर्देश जारी किये जाते हैं:-

1. लोक निर्माण विभाग भवन/पथ, सेतु एवं परियोजना क्रियान्वयन इकाई के अधीन चल रहे सभी मूल निर्माण कार्य एवं रुपये 50 लाख से अधिक के सड़क मजबूतीकरण/नवीनीकरण कार्यों में प्रयुक्त होने वाली सामग्री एवं सम्पादित कार्यों का परीक्षण ठेकेदार द्वारा सम्बंधित स्पेसिफिकेशन/आई0आर0सी0 कोड/बी0आई0एस0 कोड में प्रावधानित फिक्सेसी में कराना सुनिश्चित किया जावे। उक्त परीक्षण ठेकेदार द्वारा कार्य स्थल पर स्थापित प्रयोगशाला, लोक निर्माण विभाग की केन्द्रीय/क्षेत्रीय प्रयोगशाला में विभागीय अधिकारी, सुपरविजन कन्सलटेन्ट (यदि कोई नियुक्त हो) एवं ठेकेदार के प्रतिनिधि की उपस्थिति में कराने के साथ ही, परीक्षण हेतु मान्यता प्राप्त अशासकीय संस्थाओं से भी कराये जा सकेंगे।
2. सम्बंधित कार्यपालन यंत्री/संभागीय परियोजना यंत्री प्रत्येक उक्त सरल क्रमांक-1 के निर्धारित परीक्षणों में से कम से कम 10 प्रतिशत परीक्षण लोक निर्माण विभाग की सम्बंधित केन्द्रीय अथवा क्षेत्रीय प्रयोगशाला के माध्यम से कराना सुनिश्चित करेंगे।
3. निर्धारित फिक्सेसी अनुसार सम्पादित होने वाले प्रत्येक उक्त सरल क्रमांक-1 के निर्धारित परीक्षणों में से कम से कम 10 प्रतिशत परीक्षण आई0एस0ओ0/आई0ई0सी0 17025 के तहत मान्यता प्राप्त प्रयोगशालाओं से कराया जावे।
4. विभागीय अथवा उपरोक्तानुसार अन्य प्रयोगशालाओं में परीक्षण पर आने वाले व्यय का अग्रिम भुगतान सम्बंधित ठेकेदार द्वारा किया जावेगा। ठेकेदार द्वारा भुगतान न करने की स्थिति में सम्बंधित विभागीय अधिकारी द्वारा प्रयोगशाला को भुगतान कर ठेकेदार के देयकों से भुगतान की राशि समायोजित की जावेगी।

PATIL/SACIV-P.C.B.-2019 LATTER-22



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- 5 विभागीय अथवा उपरोक्तानुसार अन्य प्रयोगशालाओं में सामग्रियों के नमूने विभागीय अधिकारी (सहायक यंत्री/उपयंत्री), कन्सलटेन्ट के क्वालिटी हेतु जिम्मेदार प्रतिनिधि (आर०ई०/मटेरियल इंजीनियर) व ठेकेदार के प्रतिनिधि की उपस्थिति में लिये जाकर व सील करके ही भेजे जावेंगे। उपरोक्तानुसार अन्य प्रयोगशालाओं में संयुक्त परीक्षण विभागीय अधिकारी, कन्सलटेन्ट (यदि कोई हो) व ठेकेदार के प्रतिनिधियों की उपस्थिति में किये जाकर परिणाम हस्ताक्षरित भी किये जावे।
- 6 कार्यपालन यंत्री/कन्सलटेन्ट यह सुनिश्चित करें कि सम्बंधित कार्य में स्पर्मग्री एवं कार्य का परीक्षण निर्धारित फ्रिक्वेंसी अनुसार किया गया है, तथा परीक्षण की प्रमाणित सारांश पत्रक प्रत्येक देयक के साथ अनिवार्यतः संलग्न की जावे।
- 7 मध्यप्रदेश शासन, सामान्य प्रशासन विभाग के पत्र क्रमांक एफ-10-3/2016/1-16/1-10 दिनांक 20.02.2018 के अनुसार मुख्य तकनीकी परीक्षक (सतर्कता) संगठन द्वारा किये जाने वाले निर्माण कार्यों के स्थल निरीक्षण एवं जांच के दौरान एकत्रित सामग्री का परीक्षण एन०ए०बी०एल० अथवा आई०एस०ओ०/आई०ई०सी० 17025 के तहत मान्यता प्राप्त प्रयोगशालाओं से ही कराया जावे।

उपरोक्त निर्देश तत्काल प्रभाव से लागू किये जाते हैं। भविष्य में आमंत्रित सभी निविदाओं में उक्त निर्देशों को विशेष शर्तों के रूप में जोड़ा जावे।

(पी०सी० बारस्कर)

सचिव

मध्यप्रदेश शासन

लोक निर्माण विभाग

भोपाल दिनांक 06/09/2019

पु.क्रमांक एफ-58/5/2012/19/यो 2365
प्रतिलिपि:-

- 1 प्रमुख अभियंता मध्यप्रदेश रोड डेवलपमेंट कार्पोरेशन लिमिटेड अरेरा हिल्स भोपाल।
- 2 समस्त मुख्य अभियंता लोक निर्माण विभाग परिक्षेत्र..... मध्यप्रदेश।
- 3 समस्त अतिरिक्त परियोजना संचालक लो०नि०वि० पी०आई०यू०.....।
- 4 समस्त अधीक्षण यंत्री लोक निर्माण विभाग..... मण्डल.....।
- 5 समस्त कार्यपालन यंत्री लोक निर्माण विभाग..... संभाग.....।
- 6 समस्त संभागीय परियोजना यंत्री, लोक निर्माण विभाग पी०आई०यू०.....।

सचिव

मध्यप्रदेश शासन

लोक निर्माण विभाग



मध्यप्रदेश शासन
लोक निर्माण विभाग
मंत्रालय

क्रमांक-एफ-53/02/2011/यो/19/524

भोपाल, दिनांक 14/02/2025

//आदेश//

मध्यप्रदेश शासन, लोक निर्माण विभाग द्वारा जारी आदेश क्रमांक-एफ-53/02/2011/यो/19/2022 भोपाल दिनांक 10 अगस्त 2022 में अतिरिक्त परफॉरमेंस गारंटी की राशि की गणना के लिए उल्लेखित गणितीय विधा के बिन्दु क्रमांक 3(अ) एवं 3(ब) में निम्नानुसार संशोधन उपरान्त प्रतिस्थापित किया जाता है:-

- 3.1 निविदा में 10 प्रतिशत कम दर प्राप्त होने पर कोई अतिरिक्त परफॉरमेंस गारंटी की राशि नहीं लिया जाना है।
- 3.2 निविदा में 10 से 20 प्रतिशत तक कम दर आने पर निविदा दर 10 प्रतिशत से बढ़कर जितने प्रतिशत कम होगी PAC राशि का उतना प्रतिशत अतिरिक्त परफॉरमेंस गारंटी की राशि निम्नानुसार होगी:-

उदाहरण- यदि निविदा की अनुमानित लागत (PAC) Rs. 100.00 लाख है, तथा सफलतम निविदाकार की दर 14 प्रतिशत Below SOR हो तो अतिरिक्त परफॉरमेंस गारंटी की गणना निम्नानुसार होगी:-

एफ.डी.आर. के रूप में प्रस्तुत की जाने वाली अतिरिक्त परफॉरमेंस गारंटी की राशि:-

Probable Amount of Contract (PAC) X Rates Below SOR Beyond 10% = 100 (14%-10%) = Rs. 4.00 लाख

- 3.3 निविदा में 20 प्रतिशत से अधिक कम दर (RATES BELOW SOR BEYOND 20%) आने पर निविदा दर आने पर गणना निम्नानुसार होगी:-

उदाहरण- यदि निविदा की अनुमानित लागत (PAC) Rs. 100.00 लाख है तथा, सफलतम निविदाकार की दर 24 प्रतिशत Below SOR हो तो अतिरिक्त परफॉरमेंस गारंटी की गणना निम्नानुसार होगी:-

एफ.डी.आर. के रूप में प्रस्तुत की जाने वाली अतिरिक्त परफॉरमेंस गारंटी की राशि:- A+B

A. Probable Amount of Contract X 1 x Rates Below SOR Beyond 10% upto 20% = 100 x 1 x (10%) = Rs. 10.00 लाख

B. Probable Amount of Contract X Rates Below SOR Beyond 20% = 100 x 2 x (4%) = Rs. 8.00 लाख

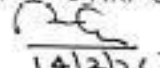
अर्थात् कुल अतिरिक्त परफॉरमेंस गारंटी की राशि- (A+B) = Rs. 18.00 लाख

परिपत्र -Letter-2025-1



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- 3.4 ऐसे अनुबंध में जिनमें 10 प्रतिशत कम दर की सीमा से अधिक कम दरों पर अनुबंध निष्पादित किये जाने उन अनुबंधित कार्यों के पूर्ण होने के उपरांत उनके अंतिम देयको का भुगतान संबंधित अधीक्षण यंत्री के निरीक्षण उपरांत संतोषजनक पाये जाने पर तदनुसार अधीक्षण यंत्री द्वारा अनुमति प्रदान किये जाने के पश्चात ही किए जावे।
- 3.5 उपरोक्त के अतिरिक्त कार्य स्थल पर स्थापित बैच मिक्स प्लांट, रेडीमिक्स कांकीट (RMC) प्लांट का अधीक्षण यंत्री के द्वारा निरीक्षण किये जाने के उपरांत ही कार्य प्रारंभ किया जावे।
- 3.6 राशि रुपये 2.00 से 10.00 करोड़ तक के कार्यों के लिये स्थल पर स्थापित लेबोरेट्री का निरीक्षण अधीक्षण यंत्री के द्वारा तथा राशि रुपये 10.00 करोड़ से अधिक के कार्यों के लिये स्थापित लेबोरेट्री का निरीक्षण मुख्य अभियंता द्वारा किये जाने के उपरांत ही कार्य प्रारंभ किया जावे।
- अतिरिक्त परफॉरमेंस गारंटी की एफ.डी.आर. कार्यपूर्णता के उपरांत ही विमुक्त की जा सकेगी।


14/2/25
(ए. आर. सिंह)
उप सचिव

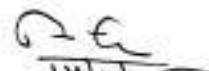
म0प्र0 शासन, लोक निर्माण विभाग

भोपाल, दिनांक 14/02/2025

पृ. क्रमांक-एफ-53/02/2011/यो/19/525
प्रतिलिपि:-

1. प्रमुख अभियंता, (सड़क/पुल) लोक निर्माण विभाग भोपाल।
2. प्रबंध संचालक, म.प्र. सड़क विकास निगम भोपाल।
3. प्रमुख अभियंता (भवन) लोक निर्माण विभाग भोपाल।
4. प्रबंध संचालक, म.प्र. भवन विकास निगम भोपाल।
5. विशेष सहायक, माननीय मंत्री जी लोक निर्माण विभाग भोपाल।
6. समस्त मुख्य अभियंता, (सड़क/पुल) लोक निर्माण विभाग।
7. समस्त मुख्य अभियंता, (भवन) लोक निर्माण विभाग।
8. समस्त अधीक्षण यंत्री, लोक निर्माण विभाग मध्य प्रदेश।
9. समस्त कार्यपालन यंत्री लोक निर्माण विभाग मध्य प्रदेश।
10. कार्यपालन यंत्री, (भवन) लोक निर्माण विभाग मध्य प्रदेश।

की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।


14/2/25
उप सचिव

म0प्र0 शासन, लोक निर्माण विभाग



मध्यप्रदेश शासन
लोक निर्माण विभाग
मंत्रालय

क्रमांक - 2582479/2025/19/यो-8/3

भोपाल दिनांक 25.03.2025

प्रति,

प्रमुख अभियंता
लोक निर्माण विभाग
भोपाल

विषय:- लोक निर्माण विभाग के अंतर्गत सड़क एवं पुल कार्यों के निविदाओं में प्रतिस्पर्धा बढ़ाने तथा गुणवत्ता सुनिश्चित करने के लिये प्री-क्वालीफिकेशन के संबंध में।

संदर्भ:- मध्यप्रदेश शासन लोक निर्माण विभाग द्वारा जारी आदेश क्र.- एफ-58/7/2015/19/यो भोपाल दिनांक 17.04.2015

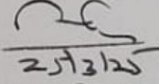
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उपरोक्त विषयांतर्गत निर्माण कार्यों की निविदाओं में प्री-क्वालीफिकेशन के संबंध में मध्यप्रदेश शासन लोक निर्माण विभाग द्वारा पूर्व में जारी आदेश दिनांक 17.04.2015 के बिन्दु क्रमांक-1(ii) में राज्य शासन एतद द्वारा निम्नानुसार संशोधन जारी करता है:-

“भवन निर्माण कार्य के अतिरिक्त अन्य निर्माण कार्यों में रु. 5 करोड से अधिक की निविदा, के स्थान पर रु. 2.00 करोड से अधिक की निविदाओं में निविदा पूर्व अर्हता (Pre-Qualification) की शर्त लगाई जावे।”

उपरोक्तानुसार जारी संशोधन आदेश तत्काल प्रभाव से लागू होंगे।

म0प्र0 के राज्यपाल के नाम से
तथा आदेशानुसार



(ए.आर.सिंह)

उप सचिव

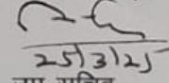
मध्यप्रदेश शासन
लोक निर्माण विभाग

पृ0क्रमांक 2582479/2025/19/यो 8/4

भोपाल दिनांक 25.03.2025

प्रतिलिपि:-

1. प्रमुख सचिव, मध्यप्रदेश शासन, जल संसाधन/लोक स्वास्थ्य यांत्रिकी/नगरीय विकास एवं आवास विभाग मंत्रालय भोपाल।
2. प्रमुख अभियंता, जल संसाधन/लोक स्वास्थ्य यांत्रिकी/नगरीय विकास एवं आवास विभाग भोपाल की ओर सूचनार्थ एवं पालनार्थ।



उप सचिव

मध्यप्रदेश शासन