

**JABALPUR MUNICIPAL CORPORATION
MADHYA PRADESH**

APPENDIX 2.10

TENDER DOCUMENT

For Percentage Rate only

Office of the : **JABALPUR SMART CITY LIMITED**

NIT Number and Date : _____

Agreement Number and Date : _____

Name of Work : **DEVELOPMENT OF AMENITIES AT GALLUA
TAAL, JABALPUR**

Name of the Contractor : _____

Probable Amount of Contract
(Rs. In Figure) : **22116000/-**

(Rs. In Words) : **Two Crore Twenty One Lakhs Sixteen Thousand /-**

Contract Amount
(Rs. In Figure) : _____

(Rs. In Words) : _____

Stipulated Period of Completion : **6 Months**

Appendix 2.10

Tender Document

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SECTION 1

Notice Inviting e-Tenders

Jabalpur Smart City Limited, Jabalpur
_____ Department

N.I.T. NO _____/e-tendering

Dated: _____

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

S.No./Pkg /Code	Work	District(s)	Probable Amount (Rs. In lacs)	Completion Period (months)
1.	<i>Development of Amenities at Gallua Taal Jabalpur</i>	<i>Jabalpur</i>	<i>221.16 Lacs</i>	<i>6 month</i>

1. Interested bidders can view the NIT on website <http://www.mpeproc.gov.in> www.jscljabalpur.org.
2. The Bid Document can be purchased only online from website <http://www.mpeproc.gov.in> from 17:30 Hours 30/05/2017 to 23:59 Hours 03/07/2017
3. Amendments to NIT, if any, would be published on website only, and not in Newspaper.

Chief Executive Officer
Jabalpur Smart City Limited

Notice Inviting Tenders

Jabalpur Smart City Limited, Jabalpur

Office of the **Jabalpur Smart City Limited, Jabalpur**

N.I.T.NO. _____/e-tendering

Dated _____

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

S.No.	Name of Work	District	Probable Amount of Contract (Rs. In lacs)	Earnest Money Deposit (EMD) (in Rupees)	Cost of Bid Document (in Rupees)	Category of Contractor	Period of completion (in Months)
	<i>Development of Amenities at Gallua Taal Jabalpur</i>	<i>Jabalpur</i>	<i>221.16</i>	<i>221200/-</i>	<i>15000/-</i>	<i>As per appropriate class</i>	<i>6 months</i>

- All details relating to the Bid Document(s) can be viewed and downloaded free of cost on the website.
- Bid Document can be purchased after making online payment of portal fees through Credit/Debit/Cash Card/ internet banking.
- 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.

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 in appropriate class; 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.

- 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.
- Pre-qualification** – Prequalification conditions, wherever applicable, are given in the Bid Data Sheet.
 - Special Eligibility-** Special Eligibility Conditions, if any, are given in the Bid data sheet.
 - The Bid Document can be purchased only online from website <http://www.mpeproc.gov.in> from **17:30 Hours 07/06/2017** to **23:59 Hours 03/07/2017**. Other key dates may be seen in bid data sheet.

8. ***SOR applicable is UADD Schedule of Rates 2012 Volume I, II, III and IV for Building Works & Electrical Works, Certain Items not mentioned in UADD SOR shall be taken from MP PWD SOR 2014*** and amendments upto the date of submission of tender.
9. Amendments to NIT, if any, would be published on website only, and not in newspaper.

Chief Executive Officer
Jabalpur Smart City Limited

**SECTION 2
INSTRUCTIONS TO BIDDERS (ITB)**

A. GENERAL

1. SCOPE OF BID

The detailed description of work, hereinafter referred as 'work' is given in the bid data sheet.

*** Cafeteria Building**

Cafeteria will be constructed as the food joint at Gallua. Cafeteria will have Open Dinning as well as closed dinning space to cater 180 – 200 People. It will be constructed as Single floor building with some part having concrete slab and other part with steel roof truss.

*** Toilet Blocks**

Toilet Blocks shall be constructed as amenities for Visitors. The toilet Block consists of toilet for Male female and physically disabled. The provision for Kids toilet has also been provided.

*** Pathway & Parking**

Cobble Stone Pathway shall be constructed around the Galaua Taal. The Pathway shall be used for walking and recreation activities around the taal. There is also the provision of Parking for vehicles. The parking facilities for four Wheelers and two wheelers shall be developed for the visitor to Galua taal.

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 high 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

4.1 The bidder can be an individual entity or a joint venture (if permitted as per Bid Data Sheet). In case the J.V. is permitted, the requirement of joint venture shall be as per the Bid Data Sheet.

4.2 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/JMC.

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 into 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 comprises of the following documents:

1. NIT with all amendments.
2. Instructions to Bidders, Bid Data Sheet with all Annexure
3. Conditions of Contract :
 - I. Part I General Conditions of contract and the Contract Data with all Annexure, and
 - II. Part II Special Condition of Contract.
4. Specifications
5. Drawings
6. Priced bill of quantities
7. Technical and Financial bid
8. Letter of Acceptance
9. Agreement, and
10. 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 (WHERE 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 gist 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 Documents, 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 document 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 have to prepare their bids online, encrypt their Bid Data in the Bid Forms and submit Bid Seals (Hashes) of all the envelopes and documents related to the bid required to be uploaded as per the time schedule mentioned in the key dates of the Notice Inviting e-tenders after signing of the same by the Digital Signature of their authorized representative.

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 online Envelop 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 the format given in the bid data sheet.
- ii) Payment of the cost of Bid Document.
- iii) Earnest Money : and

iv) An Affidavit Duly Notarized.

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

Part 3- This shall be known as online **Envelope C** and would apply to all bids. Envelop C shall contain financial offer in the 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 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 documents/ information enclosed with the Technical Proposal should be self-attested and certified by the 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 contract 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 (EMD)

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 favors 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 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 within ten working days of 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 .

D. SUBMISSION OF BID

18. The bidder is required to submit online bid duly signed digitally, and envelop “A” in physical form also at the place prescribed in the Bid Data Sheet.

E. OPENING AND EVALUATION OF BID

19. PROCEDURE:

19.1 Envelop “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 Envelop 'C' (Financial Bid) 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 his 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 event 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 taking any other action 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 of time, 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 fanatical or other benefit or to avoid an obligation:
- c. ‘coercive practice’ means impairing of 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	<i>Jabalpur Smart City Limited</i>
2	NIT No.	
3	Date of NIT	<i>07/06/2017</i>
4	Bid document download available for date & time	<i>23:59 Hrs 03/07/2017</i>
5	Website link	<i>http://www.mpeproc.gov.in</i>

SECTION 1 – NIT

CLAUSE REFERENCE	PARTICULARS	DATA
2	Portal fees	<i>As notified in e-tendering website</i>
3	Cost of bid document	<i>15000/-</i>
	Cost of bid document payable at	<i>As notified in e-tendering website</i>
	Cost of bid document in favor of	<i>As notified in e-tendering website</i>
4	Affidavit format	<i>As per ANNEXURE B</i>
5	Pre-Qualifications required	<input type="checkbox"/> Yes
	If yes, details	<i>As per ANNEXURE C</i>
6	Special Eligibility	<i>According to Bid Data sheet</i> <i>According to Bid Data sheet</i>
	If Yes, details	<i>As per ANNEXURE D</i>
7	Key dates	<i>As per ANNEXURE A</i>

SECTION 2 – ITB

CLAUSE REFERENCE	PARTICULARS	DATA
1	Name of 'work'	<i>DEVELOPMENT OF AMENITIES AT GALAUA TAAL, JABALPUR</i>
2	Specifications	<i>Annexure –E</i>
3	Procedure for participation in e-tendering	<i>Annexure-F</i>
4	Whether joint venture is allowed	<input type="checkbox"/> No
	If yes, requirement for joint venture	<i>Annexure – G</i>
9	Pre bid meeting to be held	<input type="checkbox"/> No
	If Yes, Date, Time & Place	<i>Date :..... Time form Place</i>

BID DATA SHEET

CLAUSE REFERENCE	PARTICULARS	DATA
12	Envelopment A containing : i. Registration number or proof of application for registration and organizational details as per Annexure H ii. Cost of Bid Document iii. EMD iv. An affidavit duly notarized as per Annexure – B Should reach in physical form	<i>At the Office of the Jabalpur Smart City Limited, Manas Bhavan</i> <i>15000/-</i> <i>221200/-</i> <i>Before 18:00 Hrs 13/07/2017</i>
14	Envelope-B Technical Proposal	<i>Annexure – I and Annexure –I (Format I-1 to I-5)</i>
15	Envelope-C Financial Bid	<i>Annexure – J</i>
	Materials to be issued by the department	<i>Annexure- K</i>
16	Period of Validity of Bid	<i>180 Days</i>
17	Earnest Money Deposit	<i>Rs. 221200/-</i>
	Forms of Earnest Money deposit	<i>i. FDR/e-FDR</i> <i>ii. Demand draft of scheduled commercial bank</i> <i>iii. Interest bearing securities of post office.</i>
	EMD valid for a period of	180 Days
	FDR must be drawn in favour of	<i>Executive Director Jabalpur Smart City Limited</i>
21	Letter of Acceptance (LoA)	<i>Annexure L</i>
22	Amount of Performance Security	<i>5% of contract amount</i>
	Additional Performance Security, if any	<i>As per rule</i>
	Performance security in the format	<i>Annexure M</i>
	Performance security in favour of	<i>Executive Director Jabalpur Smart City Limited</i>
	Performance security valid up to	<i>Valid contract period plus 3 months</i>

ANNEXURE – A
(See clause 1,7 of Section 1-NIT)

KEY DATES

s.no	Works department stage	Bidders stage	Start		Expiry		Envelopes
			Date	Time	Date	Time	
1		Purchase of Tender – Online	07/06/17	17:30	03/07/17	23:59	
2		Bid Submission – Online	07/06/17	17:30	07/07/17	23:59	
3	Mandatory submission Open (envelope-A)	-	10/07/17				Envelope A
4	Technical Proposal open (PQ Envelope-B)		10/07/17				Envelope B
5	Financial Bid open (envelope-C)		18/07/17				Envelope C

Original term deposit receipt of earnest money deposit, demand draft for the cost of bid document and affidavit shall be submitted by the bidder so as to reach the office as prescribed in bid data sheet, at least one calendar day before specified start time and date in key dates for opening of technical proposal as per key dates in Bid Data Sheet.

|| AFFIDAVIT ||
(To be Contained in Envelope A)
(On Non Judicial stamp of Rs. 100)

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 am/ 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 turnover 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.

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.

PRE- QUALIFICATIONS CRITERIA

The bidder should have:

A. Financial

- i. experience of having successfully executed: -
 - a) Three similar works, each costing not less than the amount equal to 20% of the probable amount of contract during the last 3 financial years; or
 - b) Two similar works, each costing not less than the amount equal to 30% of the probable amount of contract during the last 3 financial years; or
 - c) One similar work of aggregate cost not less than the amount equal to 50% of the probable amount of contract in any one financial year during the last 3 financial years;
- ii. Average annual construction turnover on the construction works not less than 50% of the probable amount of contract during the last 3 financial years.
- iii. Executed similar items of work in any one financial year during the last 3 financial years, which should not be less than the minimum, physical requirement, if any, fixed for the work.
- iv. Bid Capacity — Bidder shall be allotted work up to his available Bid Capacity, which shall be worked out as given in format 1-2 of Annexure I.

B. Physical

Physical qualifications for the work shall be as below

S.No.	Particulars	Quantity	Period
1	Physical qualification required		Yes/No
2	Earthwork		
3	Concrete work		

(The Employer shall specify all physical qualifications required).

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

SPECIAL ELIGIBILITY CRITERIA

NA

SPECIFICATIONS

- 1. MP UADD Specification**
- 2. MP PWD Department Specifications,**

(The soft copy of above specifications is available at departmental website www.mpeproc.gov.in)

The provisions of general / special conditions of contract, those specified elsewhere in the bid document, as well as execution drawings and notes, or other specifications issued in writing by the Employer shall form part of the technical specifications of this work.

PROCEDURE FOR PARTICIPATION IN E-TENDERING

1. REGISTRATION OF BIDDERS ON E-TENDERING SYSTEM:

All the PWD registered bidders are already registered on the new e-procurement portal <https://www.mpeproc.gov.in>. The user id will be the contractor ID provided to them from MP Online. The password for the new portal has been sent to the bidders registered email ID. for more details may contact M/s. _Tata Consultancy Services Corporate Block, 5th floor, DB City BHOPAL-462011 email id: eproc_helpdesk@mpsdc.gov.in. Helpdesk phone numbers are available on website.

2. DIGITAL CERTIFICATE:

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. The bidders may obtain Class III Digital Certificate issued by an approved Certifying Authority authorized by the Controller of Certifying Authorities, Government of India. A Class III Digital Certificate is issued upon receipt of mandatory identity proofs along with an application. Only upon the receipt of the required documents, a Digital Certificate can be issued. For details please visit cca.gov.in.

NOTE:

- I. It may take upto 7 working days for issuance of Class III Digital Certificate; hence the bidders are advised to obtain the Certificate at the earliest. Those bidders who already have valid Class III Digital Certificate need not obtain another Digital Certificate for the same. The bidders may obtain more information and the Application Form required to be submitted for the issuance of Digital Certificate from **cca.gov.in**
- II. Bids can be submitted till bid submission end date. Bidder will require digital signature while bid submission.

The digital certificate issued to the Authorized User of a Partnership firm / Private Limited Company / Public Limited Company and used for online bidding will be considered as equivalent to a no-objection certificate / power of attorney to that user.

In case of Partnership firm, majority of the partners have to authorize a specific individual through Authority Letter signed by majority of the partners of the firm

In case of Private Limited Company, Public Limited Company, the Managing Director has to authorize a specific individual through Authority Letter. Unless the certificate is revoked, it will be assumed to represent adequate authority of the specific individual to bid on behalf of the organization for online bids as per information Technology Act 2000. This Authorized User will be required to obtain a Digital Certificate. The Digital Signature executed through the use of Digital Certificate of this Authorized User will be binding on the firm. It shall be the responsibility of Management / Partners of the concerned firm to inform the Certifying Authority, if the Authorized User changes, and apply for a fresh Digital Certificate for the new Authorized User.

3. SET UP OF BIDDER'S COMPUTER SYSTEM:

In order for a bidder to operate on the e-tendering System, the Computer System of the bidder is required to be set up for Operating System, Internet Connectivity, Utilities, Fonts, etc. The details are available at <https://www.mpeproc.gov.in>

4. KEY DATES:

The bidders are strictly advised to follow the time schedule (Key Dates) of the bid on their side for tasks and responsibilities to participate in the bid, as all the stages of each bid are locked before the start time and date and after the end time and date for the relevant stage of the bid as set by the Department.

5. PREPARATION AND SUBMISSION OF BIDS

The bidders have to prepare their bids online, encrypt their bid Data in the Bid forms and submit Bid of all the envelopes and documents related to the Bid required to be uploaded as per the time schedule mentioned in the key dates of the Notice inviting e-Tenders after signing of the same by the Digital Signature of their authorized representative.

6. PURCHASE OF BID DOCUMENT

For purchasing of the bid document bidders have to pay Service Charge online ONLY which is Rs. [as per Bid Date Sheet]. Cost of bid document is separately mentioned in the Detailed NIT. The Bid Document shall be available for purchase to concerned eligible bidders immediately after online release of the bids and upto scheduled time and date as set in the key dates. The payment for the cost of bid document shall be made online through Debit/Credit card Net banking or NeFT Challan through the payment gateway provided on the portal.

7 WITHDRAWAL, SUBSTITUTION AND MODIFICATION OF BIDS

Bidder can withdraw and modify the bid till Bid submission end date

ANNEXURE — G

(See clause 4 of Section 2 -ITB)

JOINT VENTURE (J.V.)

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

1. Number of partners in a Joint Venture shall not exceed 3 (three). The 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] of above, as well as in the bid and in the Agreement tin case of a successful bid];
 - e. The joint venture agreement should indicate precisely the role of all members of IV 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 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 indicted in the Instructions to Bidders’.
6. Furnish details of participation proposed in the joint venture as below:

DETAILS OF PARTICIPATION IN THE IOINT VENTURE

PARTICIPATION DETAILS	. FIRM ‘A’ (Lead Partner)	FIRM ‘B’	FIRM ‘C’
Financial			
Name of the Banker(s)			
Planning			
construction Equipment			
Key Personnel			
Execution of Work (Give details on contribution of each)			

7. The partners of J.V. should satisfy the qualification criteria as below,
 - a. The Lead Partner must meet at least 50% requirement of Technical and Financial eligibility criteria required for the bid.
 - b. The other partner(s) must meet at least 25% requirement of Technical and financial eligibility criteria required for the bid.
 - c. The lead partner and the other partners should together meet 100% of all the eligibility criteria required for the bid.
8. For the meeting the minimum qualification criteria of experience of similar nature work. Every partner can have experience of different works as defined in similar nature works and together should have the experience of all type of works described in similar nature works.

ANNEXURE-H

(See clause 12 of Section 2 —ITB & clause 4 of GCC)

**ORGANIZATIONAL DETAILS
(To be Contained in Envelope- A)**

S.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

Date: _____

Envelope — B, Technical Proposal

Technical Proposal shall comprise the following documents:

S.No	Particulars	Details to be submitted
1	Experience — Financial & Physical	Annexure - I (Format: I-1)
2	Annual Turnover	Annexure - I (Format: I-2)
3	List of technical personnel for the key positions	Annexure - I (Format: I-3)
4	List of Key equipments/ machines for quality control labs	Annexure - I (Format: I-4)
5	List of Key equipments/ machines for construction work	Annexure - I (Format: I-5)

Note:

1. Technical Proposal should be uploaded duly page numbered and indexed.
2. Technical Proposal uploaded otherwise will not be considered.

ANNEXURE - I (FORMAT: I-1)
(See clause 14 of Section 2 -ITB)

FINANCIAL & PHYSICAL EXPERIENCE DETAILS

A. Financial Requirement:

The bidder should have completed either of the below:

- a) three similar works each costing not less than the amount equal to 20% of the probable amount of contract during the last 3 financial years; or
- b) two similar works each costing not less than the amount equal to 30% of probable amount of contract during the last 3 financial years; or
- c) one similar work of aggregate cost not less than the amount equal to 50% of the probable amount of contract in any one financial year during the last 3 financial years;

To be filled in by the contractor:

- I. Details of successfully completed similar works shall be furnished in the following format
- ii. Certificate duly signed by the employer shall also be enclosed for each completed similar work.

Agreement Number & Year	Name of Work	Date of Work Order	Date of Completion	Amount of Contract	Employer's Name and Address

Existing commitments— (Value of 'C' for Bid Capacity formula)

Agreement Number & Year	Name of Work	Date of Work Order	Date of Completion	Amount of Contract	Amount of balance work	Employer's Name and Address

B. Physical Requirement:

Execution of similar items of work in any one financial year during the last 3 financial years should not be less than the minimum physical requirement fixed for the work.

S.No	Particulars	Actual Quantity Executed (To be filled in by the contractor)		
		Year - 1	Year - 2	Year - 3
1	Physical qualification required	Yes/No		
2	Earthwork			
3	Concrete work			

Note:

- 1. 1 Certificate duly signed by the employer shall be enclosed for the actual quantity executed in any one year during the last 3 financial years,
- 2. Similar works: The similarity shall be based on the physical size, complexity, methods technology or other characteristics of main items of work viz, earth work, cement concrete, Reinforced cement concrete, brick masonry, stone masonry etc.

ANNEXURE-I (FORMAT: I-2)
(See clause 14 of Section 2 -ITB)

ANNUAL TURN OVER

Requirement:

Average annual construction turnover on the construction works not less than 50% of the probable amount of contract during the last 5 financial years;

To be filled in by the contractor:

Financial Year	Payments received for contracts in progress or completed
1	
2	
3	
4	
5	

Note:

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

Bid Capacity

Applicants who meet the minimum qualifying criteria in the evaluation as stated above are to be evaluated further for bid capacity as under:

$$\text{Bid Capacity} = (1.5A \times B) - C$$

Where

- A. = Maximum value of civil engineering works executed in any one year during the last five year (10% weightage per year shall be given to bring the value of work executed at present price level)
- B = Proposed contract period in years.
- C = Amount of work in hand at present.

ANNEXURE - I (FORMAT : I-3)
(See clause 14 of Section 2-ITB & Clause 6 of GCC)

List of Technical Personnel for the Key Positions

Minimum requirement							Available with the bidder						
S.No.	Key Position	Minimum requirement	Qualification	Age	Similar work experience	Total Work Experience	S.No.	Name of Personnel	Key Position	Qualification	Age	Similar work experience	Total Work Experience

ANNEXURE - I (FORMAT : I-4)
(See clause 14 of Section 2-ITB)

List of Key Equipments/ Machines for Quality Control Labs

Minimum requirement			Available with the bidder	
S. No.	Name of Equipment/ Machinery	Quantity	Name of Equipment/ Machinery	Quantity

ANNEXURE - I (FORMAT : I-5)
(See clause 14 of Section 2-ITB)

List of Key Equipments! Machines for Construction Work

Minimum requirement			Available with the bidder	
S. No.	Name of Equipment/ Machinery	Quantity	Name of Equipment/ Machinery	Quantity

FINANCIAL BID
(To Be Contained in Envelope-C)

NAME OF WORK _____

I/We hereby bid for the execution of the above work within the time specified at the rate (in figures) _____ (in words) _____ percent below/ above 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 am/are fully aware of all the difficulties and conditions likely to affect carrying out the work. I/We have fully acquainted myself/ourselves about 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 effecting 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 Municipal Corporation Jabalpur 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.
- 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 Municipal Corporation Jabalpur dated the _____ day of _____ 20_____

Signature of Officer
by whom accepted

ANNEXURE — K
(See clause 15 of Section 2 -ITB)

MATERIALS TO BE ISSUED BY THE DEPARTMENT

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

LETTER OF ACCEPTANCE (LOA)

No. _____
To,

Dated: _____

M/s. _____
(Name and address of the contractor)

Subject: _____
(Name of the work as appearing in the bid for the. work)

Dear Sir(s),

Your bid for the work mentioned above has been accepted on behalf of the Municipal Corporation Jabalpur 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 of the agreement, you are directed to contact the Engineer-in-charge for taking the possession of site and necessary instructions to start the work.

Yours Faithfully

Officer In Charge

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, an 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 term of the Contract of the Works to be performed there under or of any of the Contract documents which maybe 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 [GCC]
Table of Clauses of GCC

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 of work to be carried out.
2	Interpretations and Documents	23	No Interest Payable
3	Language and Law	24	Recovery from Contractors
4	Communications	25	Tax
5	Subcontracting	26	Check Measurements
6	Personnel	27	Termination by Engineer in Charge
7	Force Majeure	28	Payment upon Termination
8	Contractor's Risks	29	Performance Security
9	Liability For Accidents To Person	30	Security Deposit
10	Contractor to Construct the Works	31	Price Adjustment
11	Discoveries	32	Mobilization and Construction Machinery Advance
12	Dispute Resolution System	33	Secured Advance
B Time Control		34	Payments Certificates
13	Programme	E. Finishing the Contract	
14	Extension of Time	35	Completion Certificate
15	Compensation for Delay	36	final Account
16	Contractor's quoted percentage	F. Other Conditions of Contract :	
C. Quality Control		37	Currencies
17	Tests	38	Labour
18	Correction of Defects noticed during the Defect Liability Period	39	Compliance with Labour 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 Chief Engineer of the zone/ basin concerned:
- 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, Public Works Department, Public Health Engineering Department Rural Engineering Service and any other organization which adopts this document.
- 1.13. **Drawings:** means drawings 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, Tendered/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’s)
3. Conditions of Contract:
 - i. Part I General Conditions of Contract and the Contract Data; with all Annexures
 - 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 document(s), as specified.

3. Language and Law

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

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 Contractors 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 GOMP.

6. Personnel

6.1 The Contractor shall employ for the construction work and routine maintenance the technical personnel as provided in the Annexure I-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, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and
- v. 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.

8.2 All risks and consequences arising from the inaccuracies or falseness of the documents, drawing, designs, other documents and/or information submitted by the contractor shall be the responsibility of the Contractor alone, notwithstanding the fact that the design/ drawings or other documents have been approved by the department.

9. Liability for Accidents to Person

The contractor shall be deemed to have indemnified and saved harmless the Corporation 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 fulfillment 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. If the Contractor desires an extension of time for completion of the work on the ground of his having been unavoidably hindered in its execution or on any other grounds, he shall apply, in writing, to the Engineer-in-charge, on account of which he desires such extension. Engineer-in-Charge shall forward the aforesaid application to the Competent Authority as prescribed.
- 14.2. The competent authority shall grant such extension at each such occasion within a period of 30 days of receipt of application from contractor and shall not wait for finality of work. Such extensions shall be granted in accordance with provisions under clause 15 of this agreement.
- 14.3. In case the work is already in progress, the Contractor shall proceed with the execution of the works, including maintenance thereof, pending receipt of the decision of the competent authority as aforesaid with all due diligence.

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 time lines mentioned in the Contract Data the Engineer-in-charge shall retain from the bills of the Contractor amount equal to the liquidated damages leviable 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 equipments 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.
- 17.4 Ten percent of the mandatory test prescribed under the specification shall be got carried out through laboratories accredited by national Accreditation Board of laboratories (NABL) By the Engineer-in-charge and the cost of such testing shall be deducted form the payments due to contractor .

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 haying 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 adjusted in the proportion that the altered, additional or substituted work bears to the original contract work and the certificate of the Engineer-in-charge shall be conclusive as to such proportion.

20. Extra items

20.1 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

21.1 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 the irrespective order:

- a. The contractor is bound to carry out the additional (Extra quantity), work 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 the 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, cess, toll, taxes of Central and State Governments, local bodies and authorities,
- 25.2 The liability, if any, on account of quarry fees, royalties, octroi 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 measurement 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
- a) abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract;
 - b) the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;
 - c) without reasonable excuse fails to comply with the notice to correct a particular defect within a reasonable period of time;
 - d) the Contractor does not maintain a valid instrument of financial security as prescribed;
 - e) the Contractor has delayed the completion of the Works by such duration for which the maximum amount of liquidated damages is recoverable;
 - f) If the Contractor fails to deploy machinery and equipment or personnel or set up a field laboratory as specified in the Contract Data;
 - g) 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;

h) 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 sub-paragraph (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 value of the work accepted on final measurements, less Advance Payments and Penalty as indicated in the Contract Data. The amount so arrived at shall be determined by the Engineer-in-Charge and shall be final and binding on both the parties.

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 Delectability Period.

30.3 The Security Deposit shall be refunded on completion of Defect Liability Period.

31. Price Adjustment

31.1 Applicability

1. Price adjustment shall be applicable only if provided for in the Contract Data.
2. The price adjustment clause shall apply only for the works executed from the date of signing of the agreement until the end of the initial intended completion date or extensions granted for reasons attributed to the Employer by the Engineer.
3. The Contractor shall not be entitled to any benefit arising from the price adjustment clause for extension in the contract period for reasons attributed to the Contractor.
4. In the Force Majeure event the price escalation clause shall apply.

31.2 Procedure

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.
2. The price adjustable shall be determined during each quarter from the formula given in the contract data.
3. Following expression and meaning are assigned to the work done during each quarter:
R = Total value of work during the quarter. It would include the amount of secured advance granted, if any, during the quarter, less the amount of secured advance recovered, if any during the quarter, less value of material issued by the department, if any, during the quarter.
4. Weightages of various components of the work shall be as per the Contract Data.

31.3 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.

31.4 The index relevant to any quarter, for which such compensation is paid, shall be the arithmetical average of the indices relevant of the calendar month.

31.5 For the purpose of clarity it is pointed out that the price adjustment may be either positive or negative, i.e. if the price adjustment is in favour of the Employer, the same shall be recovered from the sums payable to the Contractor.

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 banks, 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

39.1 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 sun 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

Clause reference	Particulars	Data
1.14	Employer	Jabalpur Smart City Limited
1.15	Engineer	_____
1.16	Engineer in Charge	_____
1.12	Stipulated period of completion	Months
3	Language & Law of Contract	English & Indian Contract Act 1872
4	Address & contact details of the Contractor	As per Annexure H
	Address & contact details of the Employer/ Engineer- phone, Fax, email.	Office of the Jabalpur Smart City Limited, Manas Bhawan, Jabalpur
5	Subcontracting permitted for the Contract Value	More than Rs. _____ Lakhs
6	Technical Personnel to be provided the contractor— requirement, &	As per Annexure - I (Format I-3)
	Penalty, if required Technical Personnel not employed	Rs. _____
10	Specifications	As per Annexure E
	Drawings	As per Annexure N
12	Competent Authority for deciding dispute under Dispute Resolution System	Executive Director
	Appellate Authority for deciding dispute under Dispute Resolution System	_____
13	Period for submission of updated construction program	_____
	Amount to be withheld for hot submitting construction program in prescribed period	Rs. _____
14	Competent Authority for granting Time Extension.	_____
15	Milestones laid down for the contract	Yes No
	If Yes, details of Milestones	As per Annexure - O
	Liquidated damage	As per Annexure - P
17	List of equipment for lab	As per Annexure - Q
	Time to establish lab	_____
	Penalty for not establishing field Laboratory	Rs. _____ per month for the delay
18	Defect Liability Period	_____ months after physical completion of work
21	Competent Authority for determining the rate	_____
27	Any other condition for breach of contract	As per rules

Contract Data

Clause reference	Particulars	Data
28	Penalty	Penalty Shall include (a) Security deposit as per clause 30 of General Conditions of Contract 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
29	Performance guarantee (Security) shall be valid up to	Till issue of physical Completion Certificate as per Clause 35.1
30	Security Deposit to be deducted from each running bill	At the rate of 5%.
	Maximum limit of deduction of Security Deposit	Up to 5% of Final Contract Amount.
31	Price Adjustment formula and procedure to calculate	As per Annexure R The price Adjustment shall apply only in respect of Cement, Steel, Bitumen and POL components
31.1 (1)	Price adjustment shall be applicable	Price Adjustment shall be applicable only in case where the amount in NIT is more than Rs. 10 (Ten) Crores. This clause shall not have any bearing with the Contract Amount.
32	32:1 Mobilization and Construction Machinery Advance Applicable	No Mobilization and Construction Machinery Advance payable .
	32.2 If yes, Unconditional Bank Guarantee	In the format prescribed in Annexure - S
	32.3 If yes, Rate of interest chargeable on advances	10% annual simple interest
	32.4 If yes, Type & Amount of Advance payment that can be paid	1. Mobilization advance - Not more than ... % of contract amount 2. Construction Machinery Advance — Not more than ... % of contract amount
	32.5 If yes, Recovery of advance payment	Recovery of Mobilization and/or Construction Machinery advance shall commence when 10% of the Contract Amount is executed and recovery of total advance shall be done on pro-rata basis and shall be completed by the time work equivalent to 80% of the Contract Amount is executed. In addition to the recovery of principal amount, recovery of interest shall be carried out as calculated on the outstanding amount of principal at the close of each month. The interest shall be accrue from the day of payment of advance and the recovery of interest shall commence when 10% of the Contract Amount is executed and shall be completed by the time work equivalent to 80% of the Contract Amount is executed.

Contract Data

Clause reference	Particulars	Data
33	33.1 secured Advance Applicable	No Secured Advance payable.
	33.2 if yes, Unconditional Bank Guarantee	In the format prescribed in Annexure —T
	33.2 if yes, Amount of Secured Advance :	75% of value of material as determined by the Engineer in Charge
	33.3 if yes, Conditions for secured advance .	<p>a) The materials are in-accordance with the specification for Works;</p> <p>b) Such materials have been delivered to site, and are properly stored and protected against damage, or deterioration to the satisfaction of the Engineer. The contractor shall store the bulk material in measurable stacks.;</p> <p>c) The Contractor’s records of the requirements, orders, receipt and use of materials are kept in a form approved by the Engineer and such records shall be available for inspection by the Engineer;</p> <p>d) The contractor has submitted with his monthly statement the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of valuation of the materials and providing evidence of ownership and payment thereof;</p> <p>e) Ownership of such materials shall be deemed to vest in the Employer for which the Contractor has submitted an Indemnity Bond in an acceptable format; and</p> <p>f) The quantity of materials are not excessive and shall be used within a reasonable time as determined by the Engineer.</p>
	33.4 if yes, Recovery of Secured advance	The advance shall be repaid from each succeeding monthly payments to the extent materials [for which advance was previously paid) have been incorporated into the Works.
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	_____
39	Salient features of some of the major labour laws that are applicable	As per Annexure - W
41	Competent Authority	_____

Drawings

Attached In **ANNEXURE 1 A**

Details of Milestones

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.
- iii. 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,.
- iv. 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 the parties.

List of Equipment for Quality Control Lab

PRICE ADJUSTMENT

The formulas for adjustment of price are as follow:

R = Value of work as defined in Clause 31.2(3) of General Conditions of Contract

Weightages* of component in the work

S.No.	Component	Percentage of Component in the work
1.	Cement -P _c	
2.	Steel -P _s	
3.	Bitumen -P _b	
4.	POL P _f	

* Weightages of various components of the work shall be as determined by the competent Technical authority.

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:

$$V_c = 0.85 \times P_c / 100 \times R \times (C_1 - C_0) / C_0$$

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

C₀= The all India wholesale price index for Grey cement on the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi (www.eaindustry.nic.in)

C₁= The all India average wholesale price Index for grey cement for the month under consideration as published by Ministry Government of India, New Delhi. (www.eaindustry.nic.in)

P_c= Percentage of cement component of the work

Note: For the application of this clause, index of Grey Cement has been chosen to represent Cement group.

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 = The all India wholesale price index for steel (Bars and Rods) on the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi (www.eaindustry.nic.in)
- S_i = The all India average wholesale price index for steel (Bars and Rods) for the month under consideration as published by Ministry of Industrial Development, New Delhi (www.eaindustry.nic.in)
- P_s = Percentage of steel component of the Work.

Note : For the application of this clause, index of Bars and Rods has been chosen to represent steel group.

Adjustment bitumen component

- (iv) Price adjustment for increase or decrease is the cost of bitumen shall be paid in accordance with the following formula:
- $V_b = 0.85 \times P_b / 100 \times R \times (B_1 - B_0) / B_0$
- V_b = Increase or decrease the cost of work during the month under consideration due to changes in rates for bitumen.
- B_0 = The official retail price of bitumen at the IOC depot at nearest center on the date of opening of Bids.
- B_i = The official retail price of bitumen of IOC depot at nearest center for the 15th day of the month under consideration.
- P_b = Percentage of bitumen component of the work.

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:
- $V_f = 0.85 \times P_f / 100 \times R \times (F_i - F_0) / F_0$
- V_f = Increase or decrease in the cost of work during the month under consideration due to changes in rates for fuel and lubricant.
- F_0 = The official retail price of High speed Diesel (HSD) at the existing consumer pumps of IOC at nearest center on the date of opening of Bids.
- f_i = The official retail price of HSD at the existing consumer pumps of IOC at nearest center for the 15th day of month of the 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 has been chosen to represent fuel and lubricants group.

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.

Bank Guarantee Form for Secured Advance
INDENTURE FOR SECURED ADVANCES

This indenture made the _____ day of _____ 20__ BETWEEN _____ (hereinafter called the contractor which expression shall where the context so admits or implies be deemed to include his executors, administrators and assigns) 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 authority 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 a for said the Contractor doth 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 be 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 here after 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 there from 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 were 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 reply 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

repayable 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.

Physical Completion Certificate

Name of Work:

.....
.....
.....

Agreement NoDate

Amount of Contract Rs

Name of Agency

Used MB 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

.....
.....

Final Completion Certificate

Name of Work:

.....
.....
.....

Agreement no Date

Name of Agency:

Used MB 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).

Agreemented 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

.....

.....

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 a scheduled employment. Construction of buildings, roads, 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 it 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, 100, or 50). The Act provides for 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, Traveling 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 the 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 work place 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 [SCC]

**SECTION 4
BILL OF QUANTITIES (BOQ)**

General Description of work

Probable Amount of Contract:

(Rs. In Figure).....

(Rs.in Words)

DEVELOPMENT OF AMENITIES AT GALLUAA TAAL, JABALPUR

SUMMARY SHEET				
Sr No.	Item Description	Nos of Block	Cost per Block	Total Amount (In Rs.)
1	CAFETERIA	1	4534917.84	4534917.84
2	TOILET BLOCK	3	1770218.72	5310656.16
3	PATHWAY & PARKING	1	11532194.75	11532194.75
4	ELECTRICAL WORKS	1	738625.00	738625.00
	GRAND TOTAL			22116393.75

In Round Figure

22116000.00

In words two crore twenty one lakhs and sixteen thousand only

BOQ OF CAFETERIA

S.NO	ITEM NO	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	VOL II 16.3	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M 35 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
	16.3.1	300 mm dia piles	320.00	meters	1737.00	555840.00

	VOL II 16.4	Extra over item No. 16.3 for providing additional bulb in under reamed piles, under specified diameter (Only the quantity of extra bulbs are to be paid).				
	16.4.1	300 mm dia piles	128.00	each	1120.00	143360.00
3	VOL.II 4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				
	VOL.II 4.1.4	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate				
			20.78	cum	3595.00	74686.13
4	VOL. 5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level. Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
	VOL. 5.1.1	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
			66.89	cum	4728.00	316274.83
5	VOL.II 5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor two level excluding cost of centering, shuttering, finishing and reinforcement.				
	VOL.II 5.2.1	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate				
			14.63	cum	5050.00	73856.25

6	VOL.II 5.20	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.				
	VOL.II 5.20.1	Mild steel and Medium Tensile steel bars.(Taking average weight for estimate, payable as per actual design and weight calculation				
			7679.09	kilogram	60.00	460745.39
7	VOL.II 20.1	Centering and shutting including strutting , propping etc . And removal of form for wall .				
	VOL.II 20.1	Foundations, footings, bases of columns , etc. For mass concrete				
			112.00	sqm	138.00	15456.00
	VOL.II 20.1.6	Columns, Pillars, Piers, Abutments, Posts and Struts.				
			625.80	sqm	282.00	176475.60
	VOL.II 20.1.5	Lintels, Beam, Plinth beam, Girders, Brackets and Cantilevers.				
			154.20	sqm	203.00	31302.60
	VOL.II 20.1.3	Suspended floors, roofs,landings, balconies and access platform.				
			97.50	sqm	227.00	22132.50
8	VOL.II 2.27	Supplying and filling in plinth under floors including , watering , ramming consolidating and dressing complete.				
	VOL.II 2.27.3	Moorum/ Hard copra				
			113.40	cum	570.00	64638.00

9	VOL.II 2.27	Supplying and filling in plinth under floors including watering , ramming consolidating and dressing complete.				
	VOL.II 2.27.1	Crusher stone dust				
			23.40	cum	628.00	14695.20
10	VOL.II 6.39	Brick work will well burnt open bhata bricks crushing strength not less than 25kg/cm ² and water absorption not more than 20% in above plinth level upto floor two level In cm 1:4.				
			29.92	cum	3310.00	99035.20
11	VOL.II 10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:				
			8500.00	Kg.	62.00	527000.00
12	VOL.II 13.1.1	12 mm cement plaster of mix: 1:4 (1 cement : 4 fine sand)				
			491.34	sqm	108.00	53064.72
13	VOL.II 13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6mm thick cement plaster 1:3 (1 cement: 3 coarse sand) finished rough with sponge.				
			192.58	sqm	160.00	30812.00

14	VOL.II 13.17	6 mm cement plaster 1:3 (1 cement: 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.				
			98.00	sqm	112.00	10976.00
15	VOL. II 13.26.1	Providing and applying 1.5 mm thick (in two coat) white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.				
		Same As Plaster	589.34	sqm	82.00	48325.88
16	VOL.II 13.48	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
		Two or more coats applied @ 1.25 ltr/10 sqm. over and including one coat of Special primer applied @ 0.75 ltr/10 sqm.	589.34	sqm	75.00	44200.50
	VOL.II 13.45	Finishing walls with textured exterior paint of required shade :				
		New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/10 sqm.	192.58	sqm	125.00	24071.88
17	VOL.II 11.28	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush. (minimum size of kota stone 0.25 sqm)				
			63.75	sqm	423.00	26966.25

18	VOL.II 9.1	Providing wood work in frames of doors, window, clerestory , window and other frames, wrought framed and fixed in position :				
	VOL.II 9.1.1	Second class teak wood	0.31	cum	83137.00	26105.02
19	VOL.II 9.5	Providing and fixing panelled or panelled and glazed shutters for door , windows and clerestory windows including isi marked black enamelled M.S butt hinges with necessary screws , excluding, panelling which will be paid for separately .				
	VOL.II 9.5.1	second class teak wood				
	VOL.II 9.5.1.1	second class teak wood 35 mm thick shutters				
			5.04	sqm	2290.00	11541.60
21	VOL.II 13.48.2	Painting wood work with deluxe multi surface paint of required shade . Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/ 10 sqm of approved brand or manufacture				
			24.78	sqm	63.00	1561.14
22	VOL. II 13.48.3	Painting steel work with deluxe multi surface paint to give an even shade . Two or more coat applied @ 0.90 ltr / 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture				
		windows	11.52	sqm	65.00	748.80

23	VOL.II 17.1	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc.</p> <p>Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :</p>				
24	VOL.II 17.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)				
			450.00	kg	374.00	168300.00
25	VOL.II 17.2	<p>Providing and fixing 12mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc.</p> <p>complete as per architectural drawings and directions of Engineer-in-charge</p>				
	VOL.II 17.2.2	Pre-laminated particle board with decorative lamination on both sides.				
			50.40	sqm	941.00	47426.40

26	VOL.II 17.3	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side having 12 mm air gap including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specification drawings and direction of Engineer-in-charge complete.				
			105.00	sqm	3535.00	371175.00
27	VOL.II 12.8	Providing corrugated Galvanised sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint ooverlapping of sheets complete (up to any pitch in horizontal /vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
		1.00mm thick with zinc coating not less than 275gm/m ²	203.00	Sqm	808.00	164024.00

		Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.				
28	VOL.II 8.2.8	Granite of any colour and shade				
	VOL.II 8.2.8.2	Area of slab over 0.50 sqm.				
			21.60	sqm	2544.00	54950.40
29	VOL.II 8.8	Providing and fixing expansion hold fasteners on C.C / R.C.C surface backing including drilling necessary holes and the cost of bolt etc complete. Wedge expansion type				
	VOL.II 8.8.1.2	Fastener with threaded dia 10 mm.	50.00	each	25.00	1250.00
30	VOL.II 8.3	Extra for providing full edge moulding to 16 mm thick marble stone counter, vanities etc. Including machine polishing to edge to give high gloss finish etc. Compleet as per design approved by engineering - charge.				
	VOL.II 8.3.2	Granite work	18.00	meter	146.00	2628.00

	VOL.II 11.34	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (6 to 7mm thick) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.				
			90.00	sqm	686.00	61740.00
31	VOL.II 11.35	Providing and laying Ceramic glazed floor tiles 300x300 mm (9 to 10 mm thick) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete				
			10.00	sqm	804.00	8040.00
	VOL.II 11.39	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.				
	11.39.2	Size of Tile 60x60 cm x 10 mm	238.00	sqm	1109.00	263942.00

32	VOL.II 12.53	Providing and fixing and applying plaster of paris (POP) false ceiling consisting of frame work made with 50 mm sq. M.S tubes of 18 G thickness as main runners at 600 mm c/c both ways, suspended/supported with M.S flats 25 x 4 mm from existing R.C.C slab including providing and fixing expanded metal of size 5.25 mm x 1.25 mm thickness welded to main runner and applying POP (Calcium sulphate semihydrate variety) to the expanded metal of thickness not less than 10mm finished smooth to line and level including necessary supports scaffolding etc. as required and also including applying a coat of red oxide zinc chromate primer over the M.S frame work and suspenders complete.				
			204.00	Sqm	962.00	196248.00
	VOL.II 12.36	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-charge				
	12.36.2	With Type SE - Self Extinguishing type 50 mm thick	203.67	Sqm	325.00	66193.56
		WATER SUPPLY				

	23.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work including cutting chases and making good the wallsetc.				
		15 mm nominal outer dia .Pipes.	100.00	meter	139.00	13900.00
		20 mm nominal outer dia .Pipes.	50.00	meter	172.00	8600.00
		25 mm nominal outer dia .Pipes.	30.00	meter	232.00	6960.00
		32 mm nominal outer dia .Pipes.	30.00	meter	288.00	8640.00
		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work				
		25 mm nominal outer dia .Pipes.	50.00	meter	204.00	10200.00
		32 mm nominal outer dia .Pipes.	80.00	meter	247.00	19760.00
		SANITATION				

22	MP PWD SOR 25.3	Providing arid fixing white vitreous china extended Wall Mounted Anti germ Fluoro-Polymer Coated water closet Size 350 X 360 X 545 mm of approved shape (Wall hung W. C. pan size 350 X 360 X 545 mm) with soft closing seat cover, and 7.2 litre Low level slim dual flushing. PP (Poly Propeline) made 80 mm thick concealed flushing cistern, flushing capacity 3 litre)6 litre with all fittings and fixtures complete including cutting and making good the wall and floors wherever required				
	MP PWD SOR 25.3.1	Anti germ Fluoro-Polymer Coated (nano coating) Wall each 21hung water closet Size 350 X 360 X 545 mm with solid poly propylene made soft closing seat cover	3.00	each	21040.0 0	63120.00
23	MP PWD SOR 25.11	Providing and fixing white vitreous china Flat Back Anti germFluoro-Polymer Coated urinal (Inbuilt spreaders, Inbuilt Bottle trap) and inbuilt ceramic Waste coupling) Size 670 X 330 X325 mm with 15 mm Brass made presmatic auto closing concealed urinal flush valve with wall flange (Decol technology, 400000 operation warranted) complete including painting of fittings and brackets, cutting and making good the wall and floors wherever required				
	MP PWD SOR 25.11.1	White Vitreous China Anti germ Fluoro-Polymer CoatedUrinal Size 670 X 330 X 325 mm with 15 mm Brass made presmatic auto closing concealed urinal flush valve with wall flange (Decol technology, 400000 operation warranted)	1.00	each	13335.0 0	13335.00

24	MP PWD SOR25.9	Providing and fixing white vitreous china type Anti germ Fluoro Polymer Coated Wash Basin size 190 x 600 x 435 mm with C. I.Brackets, 15 mm C. P. wall mounted single lever consiled basin mixure. (cortrage size 32 mm) 32 mm C. P. brass made waste coupling length 130 mm and 32 mm C. P. Brass Made Bottle Trapsize 200 x 300 mm fittings and fixtures complete including Painting of fittings and cutting and making good the wall and floors wherever required:				
	25.9.1	White Vetrious China Anti germ Fluoro-Polymer Coated each	3.00	each	13335.00	40005.00
26	MP PWD SOR 19.4	Providing and laying below ground unplasticised pvc pipe to with stand working pressure of 4 kg/cm2 soild waste pipe confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10 mm gap for thermal expansion all necessary fitting etc . complete . Excavation to be paid seperataly .				
	19.4.1	110 mm diameter OD	20.00	RM	234.00	4680.00
	19.4.2	160 mm diameter OD	10.00	RM	477.00	4770.00
27	MP PWD SOR 19.5	Providing and laying cement concrete 1:3:6 (1 cement: 3 sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design:				
	19.5.1	110mm diameter PVC. pipe	20.00	RM	576.00	11520.00
	19.5.2	160 mm diameter PVC. pipe	10.00	RM	704.00	7040.00

28	MP PWD SOR 19.7	Providing and fixing square-mouth SW. gully trap class SP1 complete with C.I. grating brick masonry chamber with water tight CI. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	19.7.1	100x100 mm size P Type				
	19.7.1.1	With well burnt bricks	3.00	each	1764.00	5292.00
29	MP PWD SOR 19.32	Providing and fixing S.W, intercepting trap in manholes with stiff mixture of cement mortar 1:1(1 cement : 1 sand) including testing of joints etc. complete:				
	19.32.1	100 mm dia	2.00	each	298.00	596.00
	19.32.2	150 mm dia	1.00	each	411.00	411.00
30	MP PWD SOR 25.37	Providing and fixing in position best indian Health Faucet with 8mm dia 1 meter long Flaxibic Tube and wall bracket with N. R. V. (non return wall).	3.00	each	1920.00	5760.00
32	MP PWD SOR 25.42	Providing and fixing in position best indian Auto Closing wall mounted Pillar Cock (with DECOL cartredge) for wash basin use only.	7.00	each	3720.00	26040.00
33	MP PWD SOR 25.48	Providing and fixing in position best indian Sensotronic Sensor Faucet For Urinal use only.	1.00	each	10500.00	10500.00
34	UADD SOR 23.28	Providing and placing on at all floor levels high design HDPE (polyethylene) water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base	2000.00	Ltr	7.00	14000.00

		support for tank.				
						4534917.84

DETAIL ESTIMATE OF TOILET

S.NO	ITEM NO	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
1	VOL II 16.3	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M 35 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
	16.3.1	300 mm dia piles	110.00	meters	1737.00	191070.00
2	VOL II 16.4	Extra over item No. 16.3 for providing additional bulb in under reamed piles, under specified diameter (Only the quantity of extra bulbs are to be paid).				
	16.4.1	300 mm dia piles	44.00	each	1120.00	49280.00
3	VOL.II 4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				

	VOL.II 4.1.4	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate				
			10.76	cum	3595.00	38682.20
4	VOL. 5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level. Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
	VOL. 5.1.1	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
			26.43	cum	4728.00	124973.81
5	VOL.II 5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor two level excluding cost of centering, shuttering, finishing and reinfor cement.				
	VOL.II 5.2.1	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate				
			9.38	cum	5050.00	47343.75
6	VOL.II 5.20	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.				
	VOL.II 5.20.1	Mild steel and Medium Tensile steel bars.(Taking average weight for estimate, payable as per actual design and weight calculation				
			3226.9	kilogra	60.00	193615.10

			2	m		
7	VOL.II 20.1	Centering and shutting including strutting , propping etc . And removal of form for wall .				
	VOL.II 20.1.1	Foundations, footings, bases of columns , etc. For mass concrete				
			28.60	sqm	138.00	3946.80
	VOL.II 20.1.6	Columns, Pillars, Piers, Abutments, Posts and Struts.				
			84.98	sqm	282.00	23962.95
	VOL.II 20.1.5	Lintels, Beam, Plinth beam, Girders, Bressumers and Cantilevers.				
			132.73	sqm	203.00	26944.60
	VOL.II 20.1.3	Suspended floors, roofs,landings, balconies and access platform.				
			53.00			
			9.50			
			62.50	sqm	227.00	14187.50
8	VOL.II 2.27	Supplying and filling in plinth under floors including , watering , ramming consolidating and dressing complete.				
	VOL.II 2.27.3	Moorum/ Hard copra				
			24.50	cum	570.00	13965.00
9	VOL.II 2.27	Supplying and filling in plinth under floors including watering , ramming consolidating and dressing complete.				
	VOL.II 2.27.1	Crusher stone dust				
			7.00	cum	628.00	4396.00
10	VOL.II 6.39	Brick work will well burnt open bhatta bricks crushing strength not less than 25kg/cm ² and water absorption not more than 20% in above plinth level				

		upto floor two level In cm 1:4.				
			35.17	cum	3310.00	116419.32
11	VOL.II 13.1.1	12 mm cement plaster of mix: 1:4 (1 cement : 4 fine sand)				
			178.20	sqm	108.00	19245.60
12	VOL.II 13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6mm thick cement plaster 1:3 (1 cement: 3 coarse sand) finished rough with sponge.				
			158.74	sqm	160.00	25398.40
13	VOL.II 13.17	6 mm cement plaster 1:3 (1 cement: 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.				
			62.50	sqm	112.00	7000.00
14	VOL. II 13.26.1	Providing and applying 1.5 mm thick (in two coat) white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.				
		Same As Plaster	178.20	sqm	82.00	14612.40
15	VOL.II 13.48	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
		Two or more coats applied @ 1.25 ltr/10 sqm. over and including one coat of Special primer applied @ 0.75 ltr/10 sqm.	178.20	sqm	75.00	13365.00

16	VOL.II 13.45	Finishing walls with textured exterior paint of required shade :				
		New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/10 sqm.				
			158.74	sqm	125.00	19842.50
		Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.				
17	VOL.II 8.2.8	Granite of any colour and shade				
	VOL.II 8.2.8.2	Area of slab over 0.50 sqm.				
			16.00	sqm	2544.00	40704.00

18	VOL.II 9.118.3	25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of 1mm ± 0.3mm. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25MM X 11MM. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places	15.12	sqm	2831.00	42804.72
	VOL.II 6.33	Providing and laying Gypsum panel partitions 100mm thick with water proof Gypsum panels of size 666x500x100mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturers specifications in superstructure above plinth level up to floor 2 level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm ²	33.00	sqm	824.00	27192.00

19	VOL.II 11.35	Providing and laying Ceramic glazed floor tiles 300x300 mm (9 to 10 mm thick) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete				
			123.00	sqm	804.00	98892.00
20	VOL.II 11.39	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.				
	11.39.2	Size of Tile 60x60 cm x 10 mm	70.00	sqm	1109.00	77630.00
		WATER SUPPLY				
	23.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work including cutting chases and making good the walls				

		etc.				
		15 mm nominal outer dia .Pipes.	100.00	meter	139.00	13900.00
		20 mm nominal outer dia .Pipes.	50.00	meter	172.00	8600.00
		25 mm nominal outer dia .Pipes.	30.00	meter	232.00	6960.00
		32 mm nominal outer dia .Pipes.	30.00	meter	288.00	8640.00
		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with onestep CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work				
		25 mm nominal outer dia .Pipes.	50.00	meter	204.00	10200.00
		32 mm nominal outer dia .Pipes.	80.00	meter	247.00	19760.00
		SANITATION				

21	MP PWD SOR 25.1	Providing and fixing Anti germ Fluoro-Poly mer Coated Water closetsquatting pan (indian type W. C. 260x440x580 pan) with 100 mm sand cast Iron P and S- trap, and 7.2 litre Low level, dual flush, PP (Pol Propclinc) made open slim wall hung cistern capcity 3 litrc/6 litre flushing, with all fittings and fixures complete including cutting and making good the wall and floors wherever required:				
	MP PWD SOR 25.1.1	White Vitreous china Anti germ Orissa Pattern W. C. Pan of Size 'With intergral foot rests. Fluoro-Polymer Coated 260 X 440 X 580 mm	2.00	each	5510.00	11020.00
22	MP PWD SOR 25.3	Providing arid fixing white vitreous china extended Wall Mounted Anti germ Fluoro-Polymer Coated water closet Size 350 X 360 X 545 mm of approved shape (Wall hung W. C. pan size 350 X 360 X 545 mm) with soft closing seat cover, and 7.2 litre Low level slim dual flushing. PP (Poly Propeline) made 80 mm thick concealed flushing cistern, flushing capacity 3 litre)6 litre with all fittings and fixtures complete including cutting and making good the wall and floors wherever required				
	MP PWD SOR 25.3.1	Anti germ Fluoro-Polymer Coated (nano coating) Wall each 21hung water closet Size 350 X 360 X 545 mm with solid poly propylene made soft closing seat cover	4.00	each	21040.00	84160.00

23	MP PWD SOR 25.11	Providing and fixing white vitreous china Flat Back Anti germ Fluoro-Polymer Coated urinal (Inbuilt spreaders, Inbuilt Bottle trap) and inbuilt ceramic Waste coupling) Size 670 X 330 X 325 mm with 15 mm Brass made presmatic auto closing concealed urinal flush valve with wall flange (Decol technology, 400000 operation warranted) complete including painting of fittings and brackets, cutting and making good the wall and floors wherever required				
	MP PWD SOR 25.11.1	White Vitreous China Anti germ Fluoro-Polymer Coated Urinal Size 670 X 330 X 325 mm with 15 mm Brass made presmatic auto closing concealed urinal flush valve with wall flange (Decol technology, 400000 operation warranted)	5.00	each	13335.00	66675.00
24	MP PWD SOR 25.9	Providing and fixing white vitreous china type Anti germ Fluoro Polymer Coated Wash Basin size 190 x 600 x 435 mm with C. I.Brakets, 15 mm C. P. wall mounted single lever consiled basin mixture. (cortrage size 32 mm) 32 mm C. P. brass made waste coupling length 130 mm and 32 mm C. P. Brass Made Bottle Trapsize 200 x 300 mm fittings and fixtures complete including Painting of fittings and cutting and making good the wall and floors wherever required:				
	25.9.1	White Vetrious China Anti germ Fluoro-Polymer Coated each	5.00	each	13335.00	66675.00

25	MP PWD SOR 8.10	Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-incharge and finished smooth.				
		Granite Stone of approved shade.				
			1.92			
			1.92	each	2824.00	5422.08
26	MP PWD SOR 19.4	Providing and laying below ground unplasticised pvc pipe to with stand working pressure of 4 kg/cm ² soil waste pipe confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10 mm gap for thermal expansion all necessary fitting etc . complete . Excavation to be paid seperately .				
	19.4.1	110 mm diameter OD	50.00	RM	234.00	11700.00
	19.4.2	160 mm diameter OD	25.00	RM	477.00	11925.00
27	MP PWD SOR 19.5	Providing and laying cement concrete 1:3:6 (1 cement: 3 sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design:				
	19.5.1	110mm diameter PVC. pipe	50.00	RM	576.00	28800.00
	19.5.2	160 mm diameter PVC. pipe	25.00	RM	704.00	17600.00

28	MP PWD SOR 19.7	Providing and fixing square-mouth SW. gully trap class SP1 complete with C.I. grating brick masonry chamber with water tight CI. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	19.7.1	100x100 mm size P Type				
	19.7.1.1	With well burnt bricks	8.00	each	1764.00	14112.00
29	MP PWD SOR 19.32	Providing and fixing S.W, intercepting trap in manholes with stiff mixture of cement mortar 1:1(1 cement : 1 sand) including testing of joints etc. complete:				
	19.32.1	100 mm dia	4.00	each	298.00	1192.00
	19.32.2	150 mm dia	4.00	each	411.00	1644.00
30	MP PWD SOR 25.37	Providing and fixing in position best indian Health Faucet with 8mm dia 1 meter long Flaxibic Tube and wall bracket with N. R. V. (non return wall).	8.00	each	1920.00	15360.00
32	MP PWD SOR 25.42	Providing and fixing in position best indian Auto Closing wall mounted Pillar Cock (with DECOL cartredge) for wash basin use only.	20.00	each	3720.00	74400.00
33	MP PWD SOR 25.48	Providing and fixing in position best indian Sensotronic Sensor Faucet For Urinal use only.	4.00	each	10500.00	42000.00

34	UADD SOR 23.28	Providing and placing on at all floor levels high design HDPE (polyethylene) water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	2000.0 0	Ltr	7.00	14000.00
TOTAL						1770218.7 2

BoQ OF PATHWAY & PARKING AREA WITH COBBLE STONE

S.NO	ITEMS NO. SOR VOL. II	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
			1861.98	cum	127.00	236470.83

2	2.27	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete				
	2.27.3	Moorum/Hard copra	528.00	cum	570.00	300960.00
3	2.27	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.				
	2.27.1	Crusher Stone Dust				
			645.55	cum	628.00	405405.40
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.				
	4.1.4	Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregat				
			352.00	cum	3595.00	1265440.00
	4.1.6	Cement concrete grade M- 10 (Nominal Mix) with 40 mm maximum size of stone aggregate				
			293.55	cum	3528.00	1035644.40
5	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.1	Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
			138.69	cum	4728.00	655726.32

6	SOR	Providing and laying 100 mm thick natural cobble stone block size 200mm x 200mm . Complete as per the direction of engineer incharge including locking edges and top surface use as runway for pedestrain whearever required with cement mortar 1:3 and pigment of required shade of stone block including cost of labour material etc . All complete (NON SOR)				
			5580.00	sqm	1250.00	6975000.00
7	5.20	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.				
	5.20.1	Mild steel and Medium Tensile steel bars.(Taking average weight for estimate, payable as per actual design and weight calculation)				
			8709.73	kgs	60.00	522583.80
8	20.1	Centering and shuttering including strutting, propping etc.and removal of form for :				
	20.1.1	Foundations, footings, bases of columns, etc. For mass concrete.				
			978.00	sqm	138.00	134964.00
TOTAL						11532194.75

ESTIMATE OF ELECTRICAL WORKS

S.No.	ITEM NO / UADD	Description of Items	Qty	Unit	Rate	Amount
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	SOR					
1	1.4	WIRING IN CONCEALED RIGID PVC CONDUIT (HEAVY DUTY) SYSTEM WITH MODULER ACCESSORIES				
		Point wiring including metallic switch box, sheet, switch, socket, lamp holders/ceiling roses etc with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting etc. as required as per specification for :-				
	1.4.1	Light Point/Fan Points.				
		a) Short point	60.00	Each	458.00	27480.00
		b) Medium point	70.00	Each	806.00	56420.00
		c) Long point	60.00	Each	1204.00	72240.00
	1.4.2	3 Pin 6 Amp socket outlet on Separate Board				
		a) Short point	10.00	Each	507.00	5070.00
		b) Medium point	10.00	Each	856.00	8560.00
		c) Long point	15.00	Each	1254.00	18810.00
	1.4.5	Point wiring including metallic switch box, sheet, switch, socket for 3 pin Amp. Socket outlet point with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board .	20.00	Each	257.00	5140.00
2	1.3.6	Circuit Wiring				

3		Wiring for circuit wiring with PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) of ISI marked suitable size including painting etc. as required as per specification				
		a) 2x2.5 Sq.mm.	150.00	meter	116.00	17400.00
		b) 4x2.5 Sq.mm.	100.00	meter	162.00	16200.00
		c) 6x2.5 Sq.mm.	50.00	meter	206.00	10300.00
		d) 8x2.5 Sq.mm.	50.00	meter	249.00	12450.00
4	1.5.3	POWER WIRING IN SURFACE RIGID P.V.C. CONDUIT (HEAVY DUTY) SYSTEM WITH MODULAR ACCESSORIES				
5		Point wiring including metallic switch box, sheet, for 3 Pin 16 Amp. Socket Outlet Point With 4 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. Conduit (MMS) ISI Marked of suitable size including painting etc. with 16 Amp. F.T. Switch & Socket / S.S. Combined 16 Amp. of ISI Marked and 4 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit as per specification for :-				
		On Separate Board				
		C. Long Point	10.00	Each	1721.00	17210.00
		D. Extra Long I	5.00	Each	2027.00	10135.00
		E- Extra Long II	5.00	Each	2748.00	13740.00
	1.5.4	Same board socket 16 Amp	5.00	Each	613.00	3065.00
6	5.1	SUB MAINS IN SURFACE RIGID STEEL CONDUIT IN COPPER CONDUCTOR				
		Wiring for sub-mains with PVC insulated cable FR with copper multi strand conductor ISI marked in surface rigid steel ISI marked conduit of suitable size (conduit included) including connection painting etc, as required as per specification				
7	5.1.4	4 WIRE SUB MAIN				

	3	6 sq mm cable in 25 mm conduit	60.00	meter	365.00	21900.00
	4	10 sq mm cable in 25 mm conduit	50.00	meter	528.00	26400.00
8	9.15	Supplying, fixing,testing & commissioning wall / floor mounted LT Panel primer coated with two coat of enamel paint & provided with required gasket for dust/ vermin proof with degree of protection IP42 suitable for 415V 3 phase ,50 Hz ,4 wire system fabricated out of CRCA sheet upto 2 mm thick(1.6 mm for doors) with frame work of angle iron/ channel/ bolted type construction duly compartmentalised for incomer,bus section , outgoing,cable alleys & CT,PT Ampere Meter ,Volt Meter , selector switches,Frequency Meter ,phase indicating lamps , energy Meter complete including cost of busbar supports,detachable cable gland plates,2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs,panel mounted Changeover switch/SFUs, etc. as required but excluding cost of busbar strips,Ampere Meter, Volt Meter, Selector switch as per approved design & specification	70.00	KG	116.00	8120.00
9	9.16	Supplying and fixing of LT Panel accessories of approved make in existing LT Panel including connections etc.as required as per specefication				
10	5	Aluminium bus bar strips with PVC sleeves	3.00	KG	209.00	627.00
11	6	LED lamps	3.00	Each	242.00	726.00
12	8	Supplying of ISI Marked and approved make of Moulded Case Circuit Breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS - 8828				
13	8.1	MCCB with Breaking Capacity 25 KA at 415 V				
14	2	Current Rating 125 Amps & 70% -100% adjustable	1.00	Each	6241.00	6241.00

15	8.13	FIXING OF SFUs, DBs, BUSBAR, MCCBs, MCBs, ISOLATORS & RCBOs Fixing of metal clad enclosure on 25 X 5 mm flat iron clamps including supplying and fixing of clamps as required duly embedded in masonry including cable connection and other required material as per specification :-				
16	3	32 Amps TP or TPN switch/ 32 Amps 415 V I Amps TPN DB up to 6 way per pole /32 Amp busbar 4 way	1.00	Each	108.00	108.00
17	14.1	Supply of XLPE Insulated power cable (conf 7098) 1100 Volt grade/Heavy duty power cable to IS 1554-1100 Volts grade , 2 core /3/2 cor MARKED with Alu. Stranded /solid conductor				
	14.1.6	ARMOURED 3 ^{1/2} CORE				
	1	25 Sq.mm(XLPE)	250.00	Meter	289.00	72250.00
	2	35 Sq.mm(XLPE)	200.00	Meter	345.00	69000.00
	3	50 Sq.mm(XLPE)	125.00	Meter	452.00	56500.00
18	14.1.2	Laying of underground cable armoured./ unarmoured as per specification in air with approved type of iron clamps complete.				
	2	3 / 3/2 / 4 Core cable 25 Sq.mm to 120 Sq.mm	450.00	Meter	28.00	12600.00
19	8.6	Supplying of approved make TPN MCB D B Metal Double Door with provision for FP MCB /Isolator /RCCB /RCBO as incomer and SP MCBs as outgoing inclusive of Busbar, Neutral bar, Earth bar & two earth terminals etc. complete as per IS:13032 (exclusive of MCB & isolator):				
	2	6 way (4+18)	3.00	Each	2849.00	8547.00
	3	8 way (4+24)	1.00	Each	3289.00	3289.00

20	8.5	Supplying of ISI Marked and accepted standard of Miniature Circuit Breaker (MCB) of 'C' series suitable for 240/415 Volts, 50 Cycle , 10 kA Value AC supply confirming to IS : 8828 : 1996, IEC : 60898 :2002 but without enclosures :-				
	8.5.1	SINGLE POLE (SP)				
	2	6 Amp to 32 Amp Rating	60.00	Each	166.00	9960.00
	8.5.5	FOR TRIPLE POLE & NEUTRAL(TPN)				
	3	For 40 Amps. Rating only.	4.00	Each	1428.00	5712.00
21	9.31	Supplying and fixing of approved make step type Modular electronic, Fan regulator single/double module including connection etc. as required on existing board				
	1	upto 120 watt	25.00	Each	600.00	15000.00
22	9.32	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete as required confirming to IS :374/1979 with upto date ammendments.				
	1	Ceiling Fan (Energy Saver 50 W)- 1200 mm Sweep	25.00	Each	1888.00	47200.00
23	9.35	Supplying, erection and testing of approved make 'Fresh Air Fan' AC 230-250 volts with connection and including frame bolt/Anchor hole fasteners etc. complete finished and as required.				
	2	300mm sweep	20.00	Each	1347.00	26940.00

24	17.3	Supply and laying rigid PVC single socket end, non-metallic pipe ISI Marked (IS-4985-2000)class 5 for protection of underground cable/or for water pump delivery side, for water supply complete with necessary clamp coupler, band, Tee, Elbow etc. in an approved manner excluding cost of excavation etc.				
	2	75.00mm O.D	100.00	Meter	221.00	22100.00
25	9.33	Supplying, erection and testing of approved make Wall Mounting fan complete with Wall Bracket, canopy, blades, speed Regulator etc. A.C 230-250 volts with connections and including raw bolt/Anchor hole fastener etc. complete finished and as required.				
		400 sweep	15.00	Each	2079.00	31185.00
		Total				738625.00

Total Amount (Rs In Words) _____

Engineer

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**SECTION 5
AGREEMENT FORM**

AGREEMENT

This agreement, made on the _____ day of _____ between: _____ (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 Contractor execute _____(name and identification number of Contract) (hereinafter called “the Works”) and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein, at a cost of Rs.....

NOW THIS AGREEMENT WITNESSED as follows:

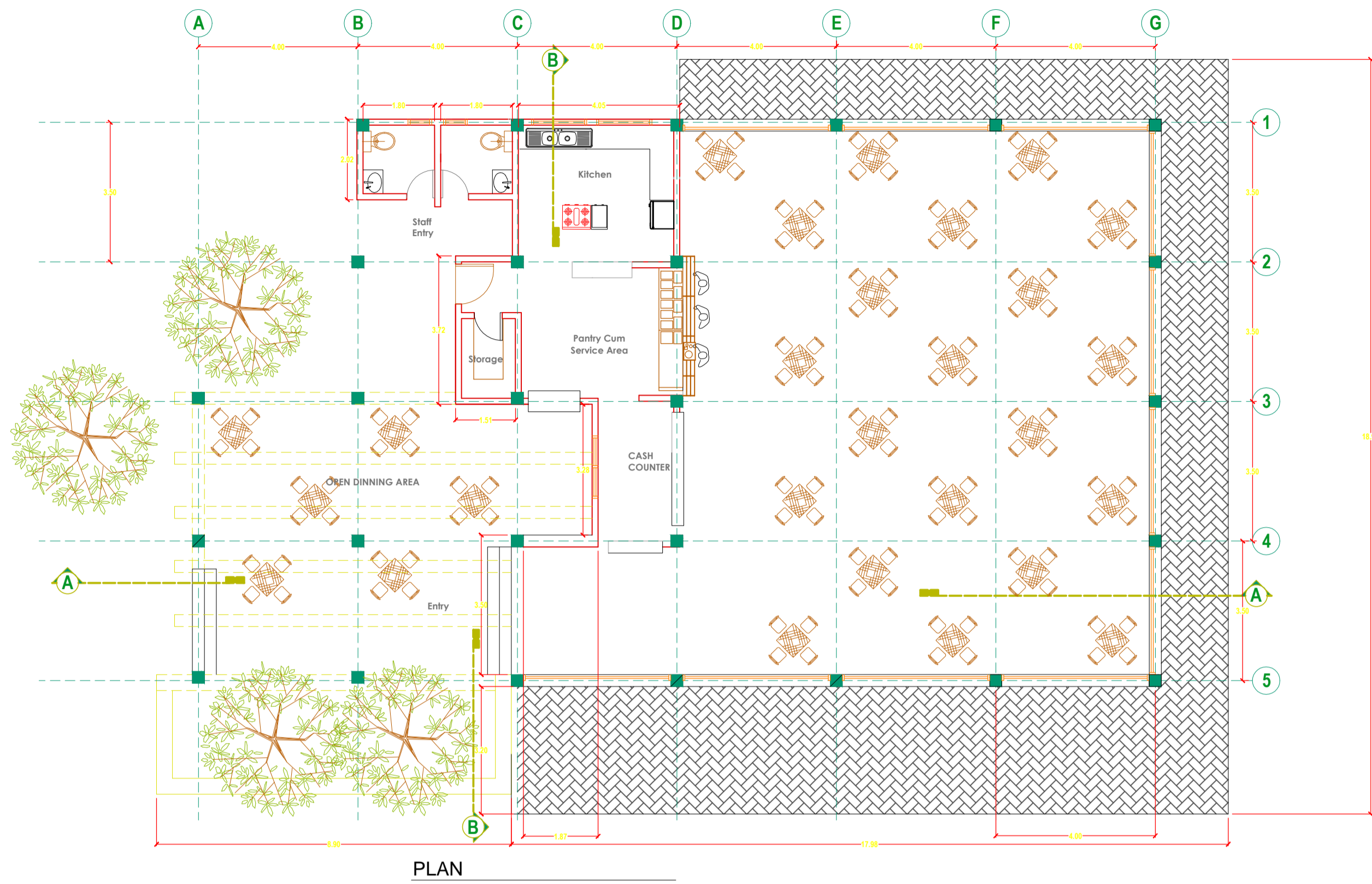
1. In this Agreement, words and expression shall have the same meaning as are respectively assigned to them in the conditions of contract hereinafter referred to and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the 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.

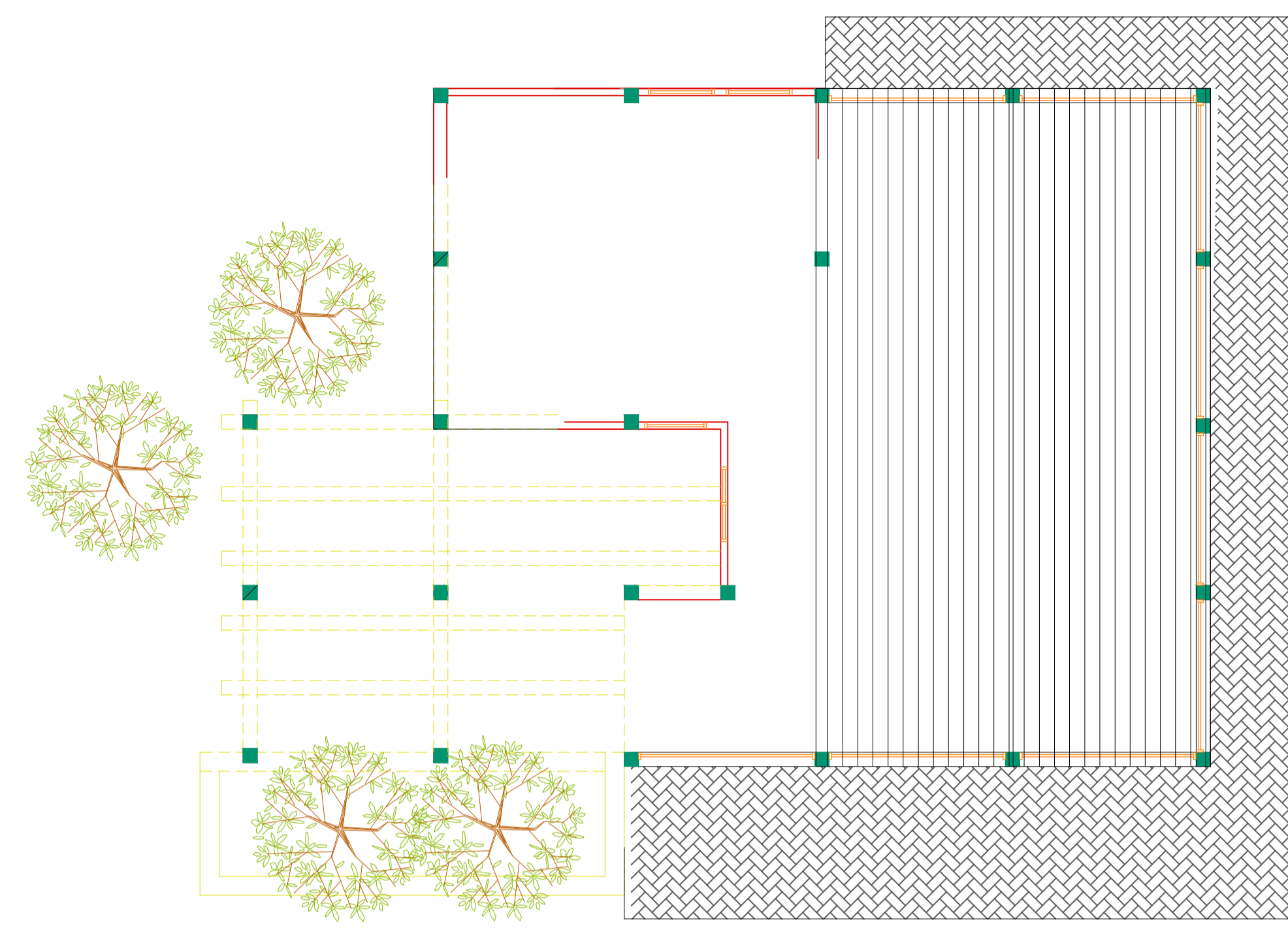
The Common Seal of _____ was hereunto affixed in the presence of:

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

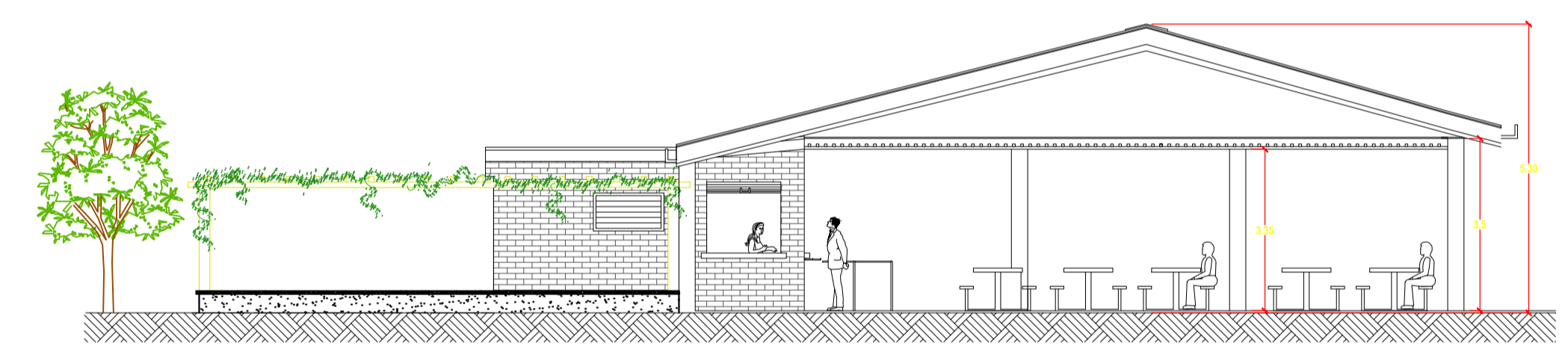
Binding Signature of Employer _____
Binding Signature of Contractor _____



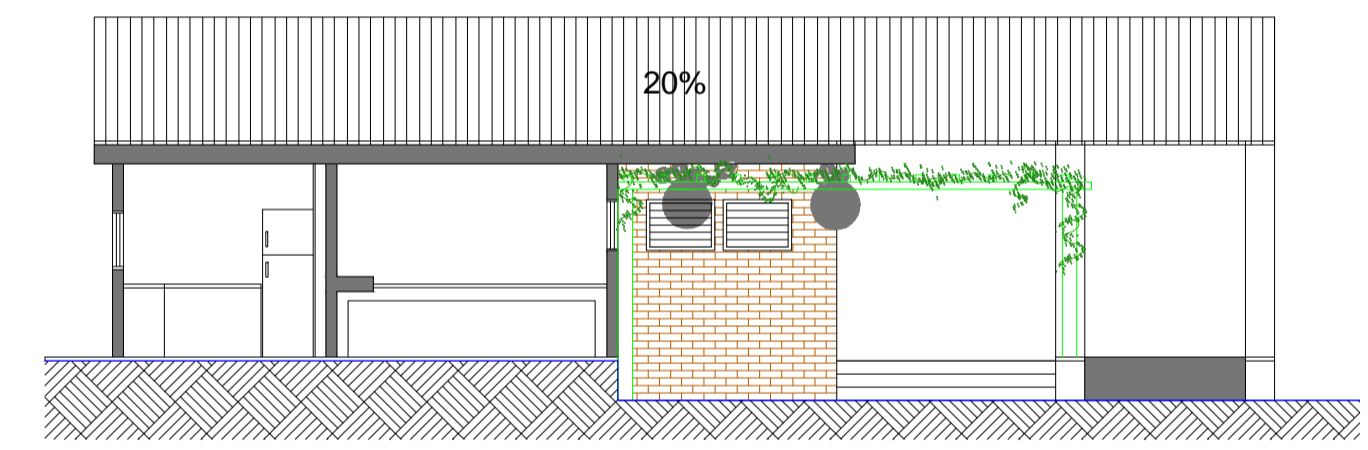
PLAN



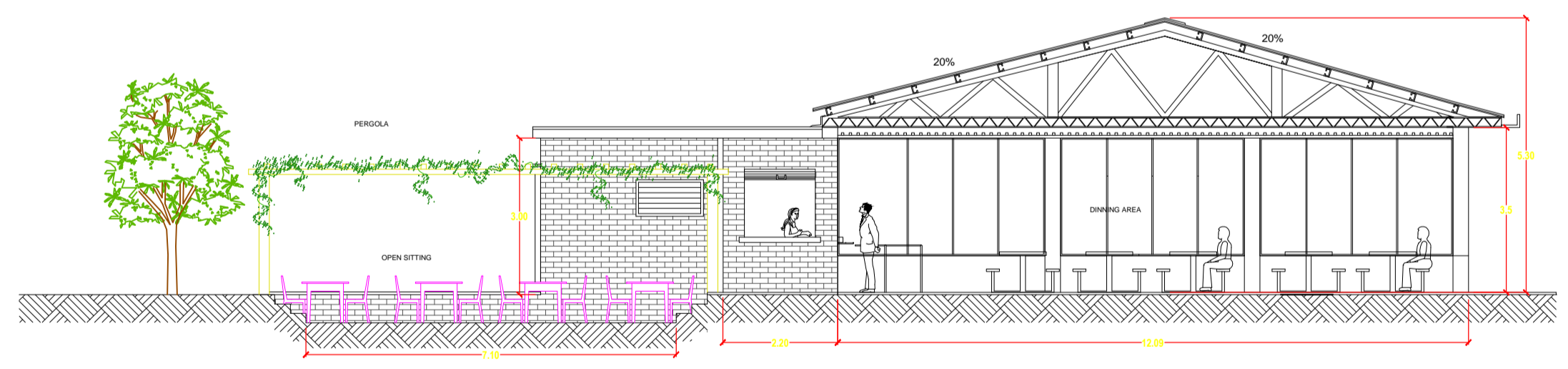
SITE PLAN



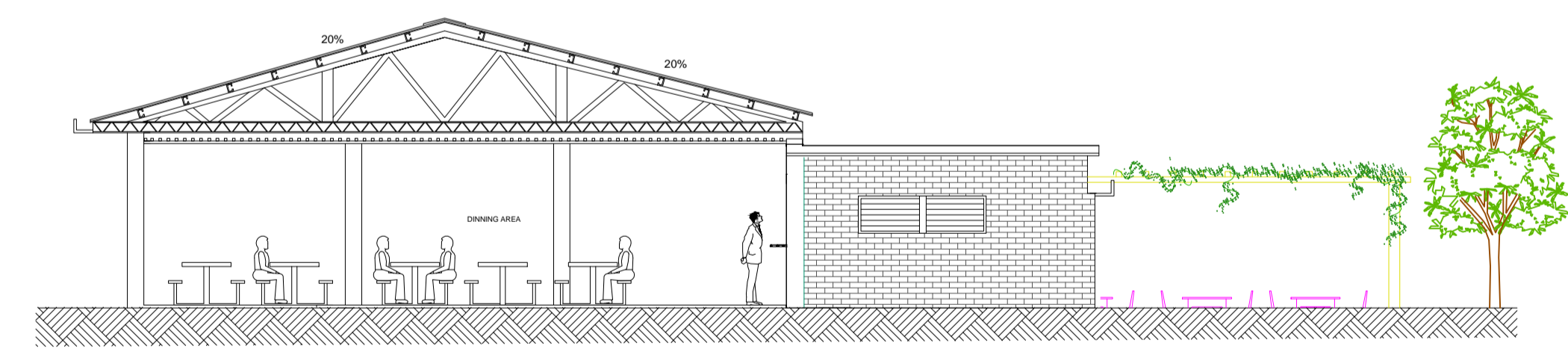
ELEVATION



SECTION B-B



SECTION A-A



ELEVATION REAR

PROJECT NAME :-

DEVELOPMENT OF GALLUA TAAL, JABALPUR

CLIENT NAME :-

JABALPUR SMART
CITY LIMITED

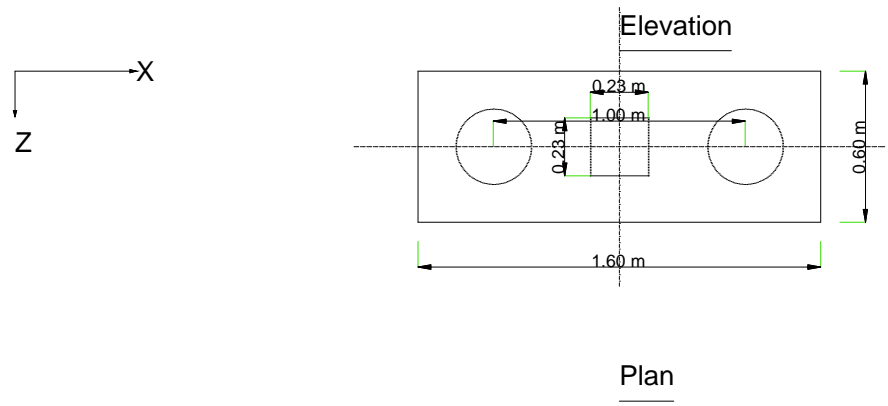
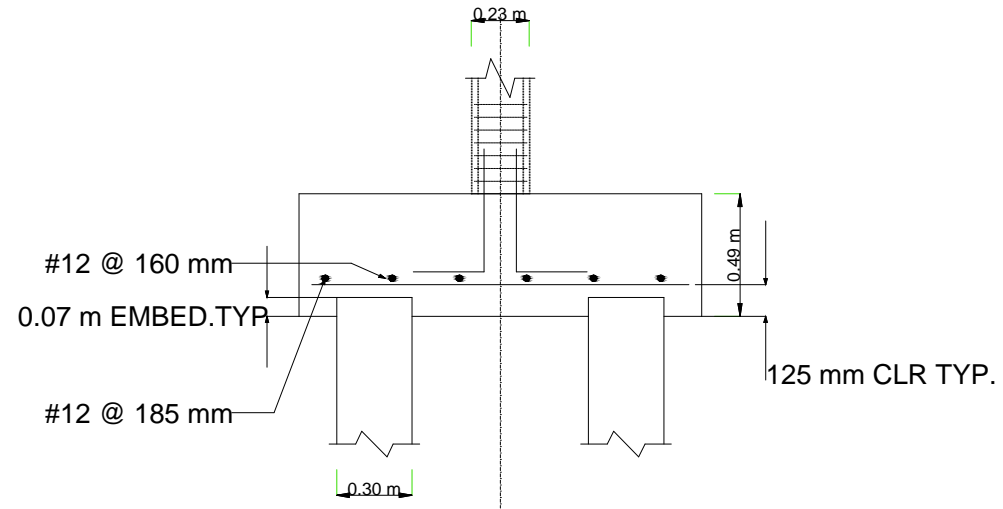
SHEET NO:-

DATE:-

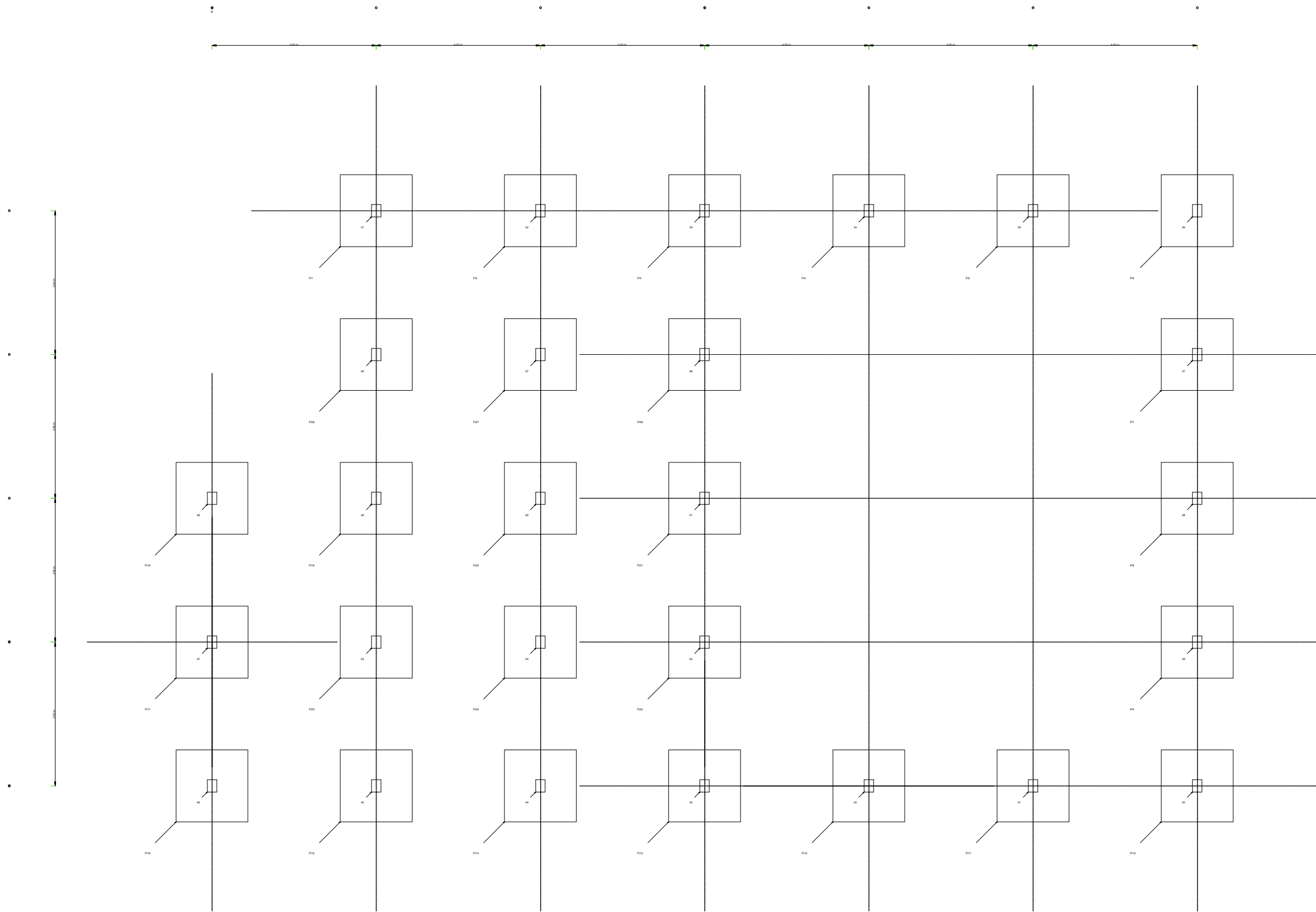
SHEET NAME:-

PROPOSED DESIGN CAFETERIA

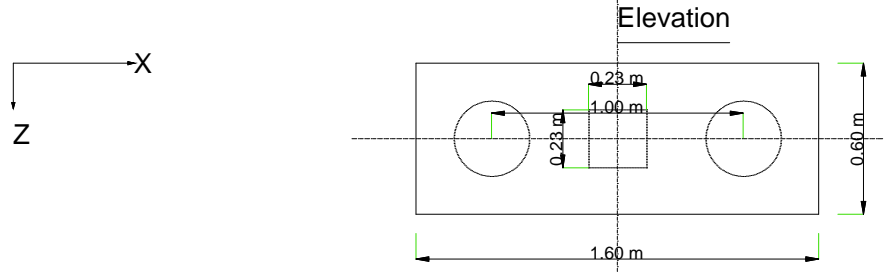
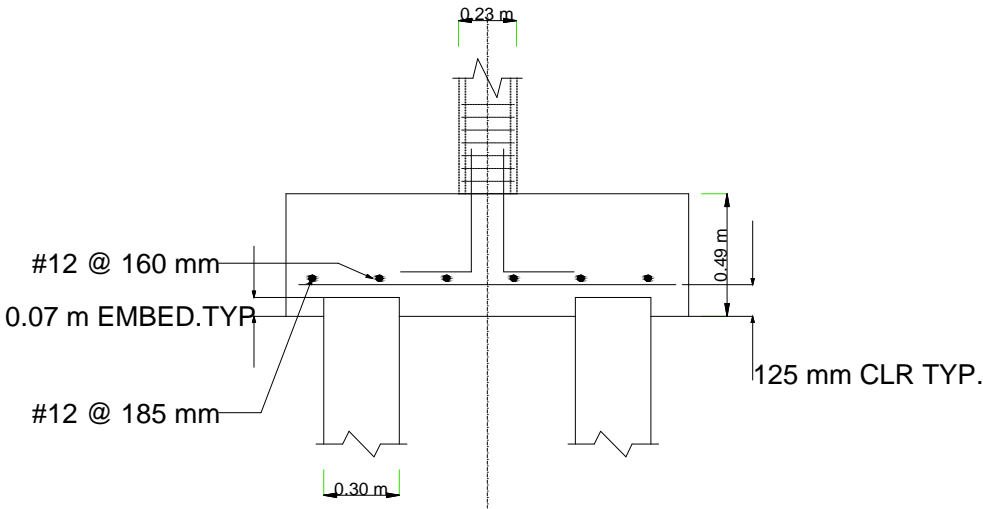
Pile Cap Section detail of Cafeteria



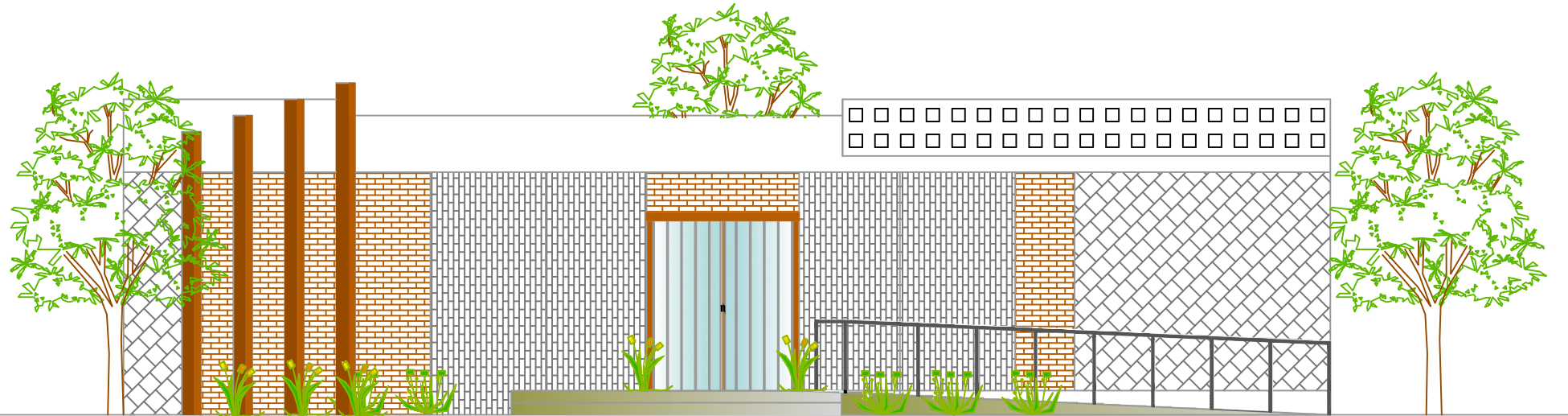
Column Layout Plan of Cafeteria



Pile Cap Section detail of Toilet



Plan



ELEVATION

PROJECT NAME :-

**DEVELOPMENT OF AMENITIES AT
GULLAUA TAAL**

CLIENT NAME :-

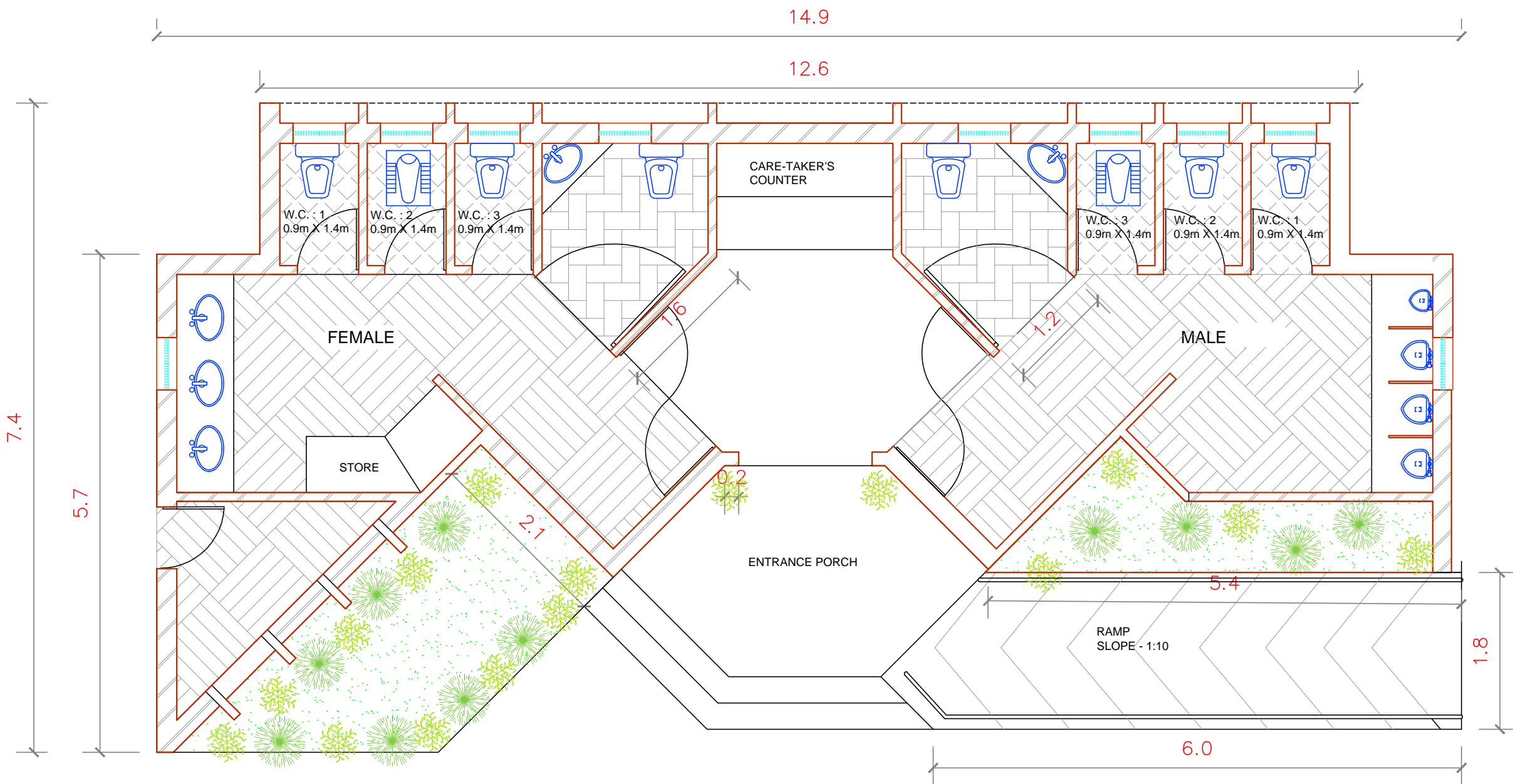
**JABALPUR SMART
CITY LIMITED**

SHEET NO:-

DATE:-

SHEET NAME:-

**PROPOSED ELEVATION OF
TOILET BLOCK**



PLAN

PROJECT NAME :-

**DEVELOPMENT OF AMENITIES AT
GULLAUA TAAL**

CLIENT NAME :-

**JABALPUR SMART
CITY LIMITED**

SHEET NO:-

DATE:-

SHEET NAME:-

**PROPOSED PLAN OF
TOILET BLOCK**