



RE-DEVELOPMENT OF **KATORA TAL, GWALIOR**

Ref Number: [GSCDCL/024/2017]

Date: [13th December 2017]

EXECUTIVE DIRECTOR
GWALIOR SMART CITY DEVELOPMENT CORPORATION LTD (GSCDCL)

NAGAR NIGAM MUKHYALAY, CITY CENTER, GWALIOR

Disclaimer

Gwalior Smart City Proposal (**SCP**) has been selected to implement the Area Based Development (**ABD**) and pan-city proposals by Government of India (GoI) under Smart City Mission (**SCM**). Gwalior SCP proposes smart solutions in ABD area and across pan city with various smart features and infrastructure.

To implement smart city projects in Gwalior, Gwalior Municipal Corporation (**GMC**) and Madhya Pradesh Urban Development Corporation has formed a special purpose vehicle called Gwalior Smart City Development Corporation Limited (**GSCDCL**).

GSCDCL has prepared this Tender Document (TD) for the “Re-Development of Katora Tal, Gwalior”. This TD is a detailed document with specific terms and conditions on which the Bidder is expected to work. GSCDCL has taken due care in preparation of information contained herein and believes it to be accurate. However, neither GSCDCL or any of its authorities or agencies nor any of their respective officers, employees, agents, or advisors give any warranty or make any representations, express or implied as to the completeness or accuracy of the information contained in this document or any information which may be provided in connection or arising out of it.

The information provided in this document is to assist the Bidder(s) preparing their proposals. However, this information is not intended to be exhaustive and interested parties are expected to make their own inquiries to supplement and verify information in this document. The information is provided on the basis that it is non-binding on GSCDCL or any of its authorities or agencies, or any of their respective officers, employees, agents, or advisors. Each Bidder is advised to consider the TD as per its understanding and capacity. The Bidders are also advised to do appropriate examination, enquiry and scrutiny of all aspects mentioned in the TD before bidding. The Bidders are encouraged to take professional help of experts on financial, legal, technical, taxation, and any other matters/ sectors appearing in the document or specified work. The Bidders should go through the TD in detail and bring to notice of GSCDCL any kind of error, misprint, inaccuracy or omission.

GSCDCL reserves the right not to proceed with the project, to alter the timeline reflected in this document, or to change the process or procedure to be applied. It also reserves the right to decline to discuss the project further with any party submitting a proposal. No reimbursement of cost of any type will be paid to persons, entities submitting a proposal under or pursuant to this TD.

[To be provided on a non-judicial stamp papers of appropriate amount, duly notarized]

{Location, Date}

To:

The Executive Director,
Gwalior Smart City Development Corporation Limited (GSCDCL)
Nagar Nigam Mukhyalay, City Center, Gwalior, Madhya Pradesh

Reference: GSCDCL TD No. dated ("TD")

Dear Sir/Madam,

Over and above all our earlier confirmations and submissions as per the requirements of the TD, I/ we hereby declare, confirm and undertake that:

- 1 I/ We have quoted for all items as requested by GSCDCL in the TD and stand committed to deliver to the highest standards and quality as required by GSCDCL to meet the timelines of the project. My/ Our bid submission is in line with the requirements of GSCDCL as stated in the TD.
- 2 I/ We confirm that we have factored in all costs and expenses for meeting the complete scope and deliverables of the TD.
- 3 I/ We are completely aware of the service level requirements and timelines specified by GSCDCL and are committed to adhering to the same. I/ We have also clearly taken note of the service level requirements of GSCDCL and expectations from us and wish to confirm that we have taken care of every aspect to meet the same.
- 4 I/We have gone through the bid documents and its terms and conditions and fully understood it. All the terms and conditions are acceptable to me / us.
- 5 I/ We have clearly understood GSCDCL's requirements and wish to confirm that I/ we shall abide by the terms and conditions of the TD.
- 6 I/ We confirm and understand that all arithmetical totaling errors will be corrected for the purpose of evaluation only and the consideration of that error for payment would be completely according to GSCDCL's discretion. I/ We also confirm and understand that for all other errors which we have made in the bid, GSCDCL, for the purpose of evaluation will take the corrected amount based on the price quoted by me/ us in the price sheets but the payment of such amounts would be completed according to GSCDCL's discretion.
- 7 I/ We confirm that I/ we will provide the best of my/ our resources and the people proposed by me/ us will be dedicated to GSCDCL for the sake of resource continuity. Further, I/ We also confirm that GSCDCL may interview the key resources proposed by me/ us and confirm its acceptability. In any event if a resource is found unfit by GSCDCL I/ we agree to change the same and provide GSCDCL with a replacement within reasonable time so as not to affect the services/ project timelines.
- 8 I/ We confirm and understand that GSCDCL has an aggressive rollout schedule and I/ we will adhere to the rollout schedule at no additional cost/burden to GSCDCL.
- 9 I/ We confirm that all the proposed solution components are compatible and interoperable with each other and the solution will meet the functional and technical requirements of GSCDCL.
- 10 I/ We confirm that the prices and values quoted by me/ us encompass the complete scope of the project and I/ we will ensure that the quality of deliverables for the project is not affected due to any pricing pressures.
- 11 There has been no conviction by a Court of Law or indictment / adverse order by a regulatory authority for a grave offence against me/ us. It is further certified that there is no investigation pending against me/us or the CEO, Directors/ Manager/ key employees of my/ our concern.
- 12 That the decision of GSCDCL will be final and undisputable in accepting or rejection of my / our offer.
- 13 That the self-certified information given in the bid document is fully true and authentic.
- 14 That:
 - a) Term deposit receipt deposited as earnest money, demand draft for cost of bid document and other relevant documents provided by the Bank are authentic.
 - b) Information regarding financial qualification and annual turn-over is correct.
 - c) Information regarding various physical qualifications is correct.
- 15 No close relative of the undersigned and our organization is working in GSCDCL.

Dated this.....by20

Authorised Signatory

(Name: Contact Person, Phone No., Fax, E-mail)

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Section – 1

Gwalior Smart City Development Corporation Limited

NOTICE INVITING TENDER (NIT)

NIT No. GSCDCL/024/2017

Date: 13-12-2017

Gwalior Smart City Development Corporation Limited (GSCDCL) invites online item rate bids for the following works (estimated on UADD SOR w.e.f. 10/05/2012) from registered contractors and firms of repute fulfilling eligibility criteria from eligible Bidders through www.mpeproc.gov.in for “RE-DEVELOPMENT OF KATORA TAL, GWALIOR”.

The details are as under:

Key Schedule		
Sr. No.	Event's Name	Information
1.	Probable Amount of Contract	Rs. 2,66,33,320/- (Rupees Two Crore, sixty-six lakhs, thirty-three thousand, three hundred & twenty only)
2.	Tender document Fee	Rs.15,000/- (Rupees Fifteen Thousand only) to be paid only through Online e-Tendering Payment Gateway
3.	Earnest Money Deposit (EMD)	Rs. 2,66,333/- (Rupees two lakhs sixty-six thousand, three hundred & thirty-three Only)
4.	Last date for sending pre-bid queries	20/12/2017 till 17:30 hours. at gscdcltender@gmail.com
5.	Date, Time & Place of Pre-bid Meeting	21/12/2017 at 14:00 hours. Venue: Gwalior Smart City Development Corporation Limited, Nagar Nigam Mukhyalay, City Center, Gwalior, Madhya Pradesh
6.	Last date for Online Purchase of Tender Document	10/01/2018 till 1730 hours.
7.	Last date of Online Submission of Bids	11/01/2018 till 1730 hours.
8.	Last date of EMD + Hard Copy (Pre-Qualification and Technical Proposal) Submission of Bids	15/01/2018 till 1730 hours. Two printed copies of the entire proposal, one marked ORIGINAL and the second one as DUPLICATE and a soft copy on non-rewriteable electronic storage media with all the contents of your proposal.
9.	Date and Time for Opening of Pre-Qualification and Technical Proposal	16/01/2018 at 1400 hours.
10.	Date and Time for Opening of Financial Proposals	Will be intimated later to the technically qualified Bidders
11.	Project Award Criteria	Lowest evaluated bid

Note: The Bidders shall have to submit their bids online and upload the relevant documents as per key schedule.

1. The Bidders intending to participate in this tender are required to get enrolled/ registered on the e-procurement web site <https://www.mpeproc.gov.in/>. Enrolment /registration on the above portal is mandatory.
2. Tender documents can be purchased only online from <https://www.mpeproc.gov.in/> by making online payment as specified above in the key schedule. The Bidders shall have to submit their Bids online and upload the relevant documents as per key schedule.
3. At the time of submission of the Bid, the eligible Bidder shall be required to:
 - a. Pay the cost of Bid Document;
 - b. Deposit the Earnest Money;
 - c. Submit a check list; (As required in Clause 12 of Bid Data Sheet)
 - d. Submit an affidavit duly Notarized as per Annexure- B
4. Details can be seen in the Bid Data Sheet
5. Amendment to NIT, if any, would be published only on the website: <https://www.mpeproc.gov.in/> .
6. Conditional tender will not be accepted and liable to be rejected. GSCDCL reserves the right to accept or reject any or all tender without assigning any reasons thereof.
7. Since the Bidders are required to sign their online bids via Digital Certificates. The Bidders are advised to obtain the same at the earliest.
8. All details relating to the Bid Document(s) can be viewed and downloaded free of cost from the website mentioned in NIT.
9. Bid document can be purchased after making online payment of portal fees through Credit/ Debit/ Cash Card or via internet banking.
10. ELIGIBILITY FOR BIDDERS:
 - (a) At the time of submission of the bid, the Bidder should have valid registration with the Public Works Department, ("PWD"), CPWD or any other Government Department. However, such Bidders who are not registered with PWD and are eligible for registration can also submit their bids after having applied for registration with PWD, CPWD or any other Government Department.
 - (b) The Bidder would be required to have valid registration with PWD in appropriate class at the time of signing of the Contract.
 - (c) Failure to sign the contract by the selected Bidder, for whatsoever reason, shall result in forfeiture of the Earnest Money Deposit (EMD) of such selected Bidder.
11. Pre-qualification: Prequalification conditions, wherever applicable, are given in the Bid Data Sheet

EXECUTIVE DIRECTOR
Gwalior Smart City Development Corporation Limited, Gwalior

SECTION 2
INSTRUCTIONS TO BIDDERS (ITB)

A. GENERAL

1. SCOPE OF BID

This tender is for “**Redevelopment of Katora Tal, Gwalior**”, the detailed scope of work has been provided in this section. The initial period of 5 (five) years after physical completion of work shall be treated as Defect Liability Period (DLP). The operation and maintenance of the Pond for 5 (five) years after completion of work is included in the scope of work.

Background

Gwalior has been selected under Smart City Challenge proposal. Various projects have been identified in this proposal to improve the city and somewhere meet international standards. One of those projects is Heritage and Culture Module. Many heritage sites have been identified in this module for conservation and restoration. One of the site among them is Katora Tal.

Katora Tal can is a key heritage site of Gwalior. This pond functions as important community space, and provides opportunity for physical and recreational activity. There is, therefore an urgent need for upgrading this Pond in the town.

Project

GSCDCL is desirous of executing Pond re-development project for the Katora Tal. The project report prepared by GSCDCL proposes following works in the project area,

- i) Horticulture works,
- ii) Paving works,
- iii) Cladding and painting of boundary wall,,
- iv) Play Area
- v) Lighting and electrical works,
- vi) Control Room,
- vii) Water Fountain and Light and Music Show, etc.

The tender hereby is being invited for the redevelopment of Katora Tal. The essence of the project is:

- a. To upgrade the available pond into a spot of tourist attraction.
- b. To provide the Pond area as a leisure outdoor space for the residents, play area for the children.

The work of re-development of Pond should be as per the drawing and direction of the engineer-in-charge in strict adherence to the timelines as provided under the Contract Data.

2. GENERAL QUALITY OF WORK:

The work of re-development of Pond as per approved drawings and direction of Engineer-in-charge is to be completed in all respects including labour, tools-tackles and materials, technical specifications specified in the Bid Data Sheet/ Contract Data. The work shall have to meet high standards of workmanship, safety and security of workmen.

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 firm or company
- 4.2 No Bidder shall be entitled to submit more than one bid. 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 its bid, and no claim whatsoever for the same shall lie on GSCDCL.

6. Site Visit and Examination of Site of Works

The Bidder is advised to visit and examine 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 shall have to be borne by the Bidder and no claim whatsoever for the same shall lie on GSCDCL.

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 the Annexures.
3. Conditions of Contract:
 - i. Part I General Conditions of Contract (GCC) and Contract Data; and
 - ii. Part II Special Conditions of Contract (SCC)
4. Specifications
5. Drawings
6. 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, Bid Data, 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

- 9.1 Details of venue, date and time shall be as mentioned in the Bid Data Sheet. Any change in the schedule of pre-bid meeting would be communicated only on the website: www.mpeproc.gov.in
- 9.2 Bidder may raise its 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. GSCDCL may, at its option, give such clarifications as are felt necessary.
- 9.3 Minutes of the pre-bid meeting including the list of the questions raised and the responses given together with any response prepared after the meeting will be hosted on the website.
- 9.4 Pursuant to the pre-bid meeting, if GSCDCL deems it necessary to amend the Bid Document, it shall be done by issuing amendment to the online NIT.

10. Amendment of Bid Documents

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

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 key schedule after signing of the same digitally by its 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 **Envelope A** and would apply for all bids. **Envelope A** shall contain the following as per details given in the Bid Data Sheet:

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

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

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

13. LANGUAGE

The bid as well as all correspondences and documents relating to the bid exchanged by the Bidder and GSCDCL shall be in English. 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 proposals should be self-attested and certified by the Bidder. The Bidder shall be liable for forfeiture of the Earnest Money Deposit, if any of the document/ information is found false/ fake/ untrue before and after acceptance of Bid. GSCDCL may at its sole discretion forfeit Earnest Money Deposit, the performance security/ guarantee, security deposit, and take any other suitable action, as applicable.

15. FINANCIAL BID

- i. The Bidder shall have to quote rate for each item of Bill of Quantities as described in Annexure H-1 based.
- ii. The Bidder shall fill in rates and prices and line item total (both in figures and words) for all items described in the Bill of Quantities along with total bid price (both in figures and words). Items for which no rate or price is entered by the Bidder will not be paid for by GSCDCL when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.
- iii. All duties, taxes (excluding GST), and other levels payable by the Bidder under the contract, or for any other cause shall be included in the rates, prices and total Bid Price submitted by the Bidder.
- iv. The rates and prices quoted by the Bidder shall be fixed for the entire duration of the Contract and shall not be subject to adjustment on any account.

16. PERIOD OF VALIDITY OF BIDS

The bids shall remain valid for a period specified in Bid Data Sheet after the date of “close for bidding” as prescribed by GSCDCL. 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), of 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, Interest bearing securities of post office, Demand Draft issued in favor of the name given in the Bid Data Sheet. The Fixed Deposit Receipt and Interest bearing securities of post office shall be valid for six months or more after the last date of receipt of bids.
- 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 10 (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 Contract and has also furnished the Bank Guarantee of required value as Performance Security.
- 17.6 Failure to sign the Contract by the selected Bidder, for whatsoever reason, shall result in forfeiture of its EMD.

D. SUBMISSION OF BID

- 18. The Bidder is required to submit bid online under the digital signature of authorized signatory, and also the physical copy of the bid as stated in key schedule.

E. OPENING AND EVALUATION OF BID

19 PROCEDURE

- 19.1 **Envelope ‘A’** shall be opened first online at the time and date notified and its contents shall be checked. In cases where Envelope ‘A’ does not contain all requisite documents, such bid shall be treated as non-responsive, and **Envelope B and C** of such bid shall not be opened.
- 19.2 Wherever Envelope ‘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 Envelope ‘B’. Envelope ‘C’ (Financial Bid) of Bidders who are not qualified in Technical Bid (Envelope ‘B’) shall not be opened.
- 19.3 Envelope ‘C’ (Financial Bid) of the qualified Bidders shall be opened online at the time and date notified. The Bidder shall have freedom to witness opening of the Envelope ‘C’.
- 19.4 After opening Envelope ‘C’ all responsive bids shall be compared to determine the lowest evaluated bid.
- 19.5 GSCDCL 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 the award of the contract, without incurring any liability. In all such cases/ reasons shall be recorded.
- 19.6 GSCDCL reserves the right of accepting the bid for the whole work or for a distinct part of it.
- 19.7 Clarification of Technical & Financial Bids

To assist in the examination, evaluation, and comparison of Bids, GSCDCL may, at its discretion, ask any Bidder for clarification of its Technical & Financial Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing, but no change in the price of substance of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by GSCDCL in the evaluation of the Bids.

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 GSCDCL/ Bid Evaluation Committee/ concerned officials in the evaluation of the bids or contract award decisions may result in the rejection of its bid.

F. AWARD OF CONTRACT

21. Award of Contract

GSCDCL shall notify the Successful Bidder by issuing a 'Letter of Acceptance' (LOA) that its 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 and Additional Performance Security (if applicable) of the amount, form and duration, etc. as specified in the Bid Data Sheet.

22.2 If the Bid, which results in the lowest evaluated Bid price, is seriously unbalanced or front loaded the opinion of GSCDCL, GSCDCL after evaluation, taking in to consideration the schedule of the estimated contract price may require Additional Performance Security from the Successful Bidder for such unbalanced Bid price.

22.3 If the lowest evaluated Bid price is lower by 15% or more of the SOR amount, such Bid will be deemed as unbalanced Bid price and classified as unworkable rate. For such unbalanced bids which classify as unworkable rate, the bidder to whom LOA has been issued, shall furnish, in addition to the performance security, an Additional Performance Security of an amount, which will be equal to the difference between the unworkable rate calculated with reference to the SOR amount and agreement amount. By way of illustration, if the lowest evaluated Bid price is lower by 22% of the SOR amount, the Additional Performance Security for the unworkable rate that shall be required from the successful bidder shall be calculated as 7% of the SOR amount, being the difference between 22% of the SOR amount and 15% as the benchmark for classification as unworkable rate.

23. Signing of Contract Agreement

23.1 The Successful Bidder shall have to furnish Performance Security and Additional Performance Security and sign the contract within 15 (fifteen) days of issue of LOA.

23.2 The signing of contract shall be reckoned as intimation to commencement of work. No separate work order shall be issued by GSCDCL to the Contractor/ Successful Bidder 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 failure to sign the Contract Agreement, its EMD shall stand forfeited without prejudice to the right of GSCDCL for taking action against the Bidder.

24. CORRUPT PRACTICES

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

- 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.
- ii. may debar the Bidder if he is being blacklisted by any Department of State Government or Government of India for non-performance/ sub- standard execution or any other reason whatsoever in similar type of works.
- iii. 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 financial or other benefit or to avoid an obligation;
- c. **“coercive practice”** means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- d. **“Collusive practice”** means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.

[End of ITB]

Bid Data Sheet

General

S. No.	Particulars	Data	
1	Office inviting Tender	EXECUTIVE DIRECTOR, GWALIOR SMART CITY DEVELOPMENT CORPORATION LIMITED	
2	NIT No	GSCDCL/024/2017	
3	Date of NIT	13/12/2017	
4	Bid document download available from date and time	From 13/12/2017 1030 Hours	To 10/01/2018 1730 Hours
5	Website link	http://www.mpeproc.gov.in	

For Section 1 - NIT

Clause reference	Particulars	Data
2	Portal fees	Rs. _____ (shall be reflected on the portal)
3	Cost of bid document (to be paid online through e-procurement payment gateway)	Rs.15,000/- (Rupees fifteen Thousand only) <i>Bidders shall be directed to the payment gateway through the portal</i>
3	Affidavit	Annexure B
11	Pre-qualifications required	Yes
	If Yes, details	As per Annexure C
2	Key Dates	Annexure A

For Section 2 - ITB

Clause reference	Particulars	Data
1	Name of work	Re-development of Katora Tal at Gwalior
2	Specifications	Annexure D
3	Procedure for participation in e-tendering	Annexure E
4	Whether Joint-venture is allowed	No
9	Pre bid meeting to be held	Yes
	If Yes, Date, Time & Place	Date – 21/12/2017, Time – 1400 Hours Place – Office of the Executive Director, Gwalior Smart City Development Corporation Ltd., Nagar Nigam Mukhyalaya, City Centre, Gwalior
12 (Part 1)	Envelope –A containing : i. Copy of Registration or proof of application for registration and organizational details as per Annexure 'F' ii. Cost of Bid Document iii. EMD iv. An affidavit duly notarized as per Annexure –B Should reach in physical form	At Office of the Executive Director, Gwalior Smart City Development Corporation Ltd., Nagar Nigam Mukhyalaya, City Centre, Gwalior Before -1730 Hours, Date: - 15/01/2018
12(Part 2)	Envelope-B Technical Proposal	Annexure – G (Format G -1 to G -3)

12 (Part 3)	Envelope-C Financial Bid	Annexure – H
16	Period of Validity of Bid	180 Days from the last date of submission of bids
17	Earnest Money Deposit	Rs. 2,66,333/- (Rupees two lakhs sixty-six thousand, three hundred & thirty-three Only)
	Forms of Earnest Money Deposit	i. Fixed Deposit Receipts (FDR)/ e-FDR ii. Demand draft of National/Scheduled Commercial Bank iii. Interest bearing securities of post office
	EMD valid for a period of	Not less than 180 days from the last date of submission of bids
	FDR (Fixed Deposit Receipt) / Demand Draft and Interest bearing securities of post office must be in favour of	Executive Director, Gwalior Smart City Development Corporation Limited
21	Letter of Acceptance (LoA)	Annexure I
22	Amount of Performance Security	5% of contract amount
	Additional Performance Security, if any	As per provision of clause 22.2 of ITB
	Performance Security and Additional Performance Security in the format	Annexure J
	Performance Security and Additional Performance Security in favour of	Executive Director, Gwalior Smart City Development Corporation Limited
	Performance security and Additional Performance Security shall be valid up to	180 Days from the date of expiry of the Contract Period (Annexure J)

(See clause 7 of Section 1 NIT)

Key Dates

S. No.	Works Department Stage	Bidder's Stage	Start		Expiry		Envelopes
			Date	Time	Date	Time	
1		Purchase of Tender (Online)	13/12/2017	1030 Hours	10/01/2018	1730 Hours	
2	Pre-Bid Meeting		21/12/2017	1400 Hours			
3		Bid Submission (Online)			11/01/2018	1730 Hours	
4		Bid Submission (Hard Copy)			15/01/2018	1100 Hours	
5	Technical Proposal Opening		16/01/2018	1400 Hours			Envelope A + B
6	Financial Bid Opening		To be Intimated Later to Technically Qualified Bidder				Envelope C

|| AFFIDAVIT ||**(To be contained in Envelope A)***(On Rs. 100/- Non Judicial Stamp Paper)*

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 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 Gwalior Smart City Development Corporation Limited.

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

1. That the self-certified information given in the bid document is fully true and authentic.
2. That M/s _____ is not debarred/ black-listed by the Central Government/ any State Government/ any public sector undertaking in India or similar agencies globally for unsatisfactory past performance, corrupt, fraudulent or any other unethical business practices or for any other reason as on last date of submission of the Bid. In the event of any deviation from the factual information/ declaration, GSCDCL reserves the right to reject the Bid or terminate the Contract without any compensation to the Bidder.
3. That:
 - a. Term deposit receipt deposited as earnest money, demand draft for cost of bid document and other relevant documents provided by the Bank are authentic.
 - b. Information regarding financial qualification and annual turn-over is correct.
 - c. Information regarding various physical qualifications is correct.
4. 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 3 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 working day before opening of the bid, by 15.00 hours.*

PRE-QUALIFICATIONS CRITERIA

The Bidder should have:

Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:

(Successfully completed would mean successful completion and commissioning of a project),

- a) Three similar completed works costing not less than the amount equal to 20% of the estimated cost.; or
- b) Two similar completed works costing not less than the amount equal to 30% of the estimated cost.; or
- c) One similar completed work costing not less than the amount equal to 50% of the estimated cost.

The term 'similar works' means work related to:

- i. Construction of buildings costing not less than Probable Amount of Contract ; or
 - ii. Construction of boundary wall with gate, landscaping and grassing; or
 - iii. Construction of walkway, exercise area, children's play area;
- d) Average annual turnover should not be less than 50% of the probable amount of contract during the last 3 Financial Years

The bidders are required to submit the corresponding copies of the work order and execution/ completion certificates issued by the respective clients. The certificates should be issued by the respective authority (Not below the rank of Executive Engineer) of client. GSCDCL may call for original certificates for verification and has the right to verify directly from the Bidder's client.

Note: Work execution/ completion certificate shall include detailed scope of work, actual cost of work completed with date of commencement and date of completion of the work.

Specifications

Specifications in four parts namely (1) Water Supply, Sewerage and Tube Well Works (2) Building Water Supply, Drainage and Sanitary Installation (3) Roads & Bridge (4) Electrical Works shall form part of the technical specifications of this work and shall follow MPUADD Specifications & is available at MPUADD Website(www.mpurban.gov.in)

The provisions of General/ Special Conditions of Contract, those specified elsewhere in the bid document, as well as execution drawings and notes, details mentioned in the Bill of Quantities, or other specifications issued in writing by GSCDCL shall form part of the technical specification of this work.

For items not covered under MP-UADD specifications with correction slips or those specifications are not given in the technical specifications appended or not incorporated in the nomenclature of the individual item, the work shall be done as per latest relevant BIS Codes of Practice or as per approval of Engineer-in-charge.

GENERAL SPECIFICATION FOR IRRIGATION SYSTEM

1. HDPE Fittings

- a) All Compression fittings shall be rated for 10kg/cm² suitable for HDPE pipes specified above. Fittings shall be of approved make.
- b) All butt welded fittings shall be of 10kg/cm² rating and shall be of same make as pipes.
- c) Wherever a branch or outlet of 50% or less diameter is required, clamp saddles shall be used instead of Tee. Saddles shall be non-metallic and shall be of same make as compression fittings. Nuts and bolts if used shall be SS 314.
- d) Union and valves wherever used shall be PVC Sch 80 or DIN 16 kg/cm² rating.

2. UPVC Pipes

All pipes for laterals shall be un-plasticized polyvinyl chloride (UPVC). UPVC pipes shall conform to IS 4985: 1988 and shall be rated for 10 kg/cm² working pressure.

Pipes shall be of uniform thickness, smooth finish inside and outside and shall show no evidence of interior scratches, extrusion marks, blisters, grooves or any manufacturing or transit damage.

Pipes shall be supplied in lengths of six meters with integral socket end for solvent welding and each length shall bear following permanent marking at regular interval.

Manufacturer's Name

Standards

Size and Pressure rating

3. PVC Fittings

All PVC fittings shall have a minimum pressure rating of 10kg/cm² working pressure, conform to standards and shall be of same material as UPVC Pipes.

All fittings including the threaded ones shall be of Injection Molded type.

Joint Cement and Primer Solvent Cement and Primer for UPVC Pipes shall be as per Pipe manufacturer's recommendations.

4. LDPE Drip Pipe

In-line drip tubing shall be pressure-compensating type, manufactured using virgin Liner Low Density Polyethylene containing carbon black to resist UV radiation. In line tubing shall have 13mm OD and

minimum thickness of wall 1.2 mm. Tubing shall contain cylindrical PC drippers with in-built silicon diaphragm or similar anti clogging feature. Pressure compensation range shall be up-to 4kg/cm².

5. Quick Releasing Coupling

The quick release coupling (QRC) shall be of heavy duty brass or bronze construction. It shall have 3/4" female threaded inlet and stainless steel internal spring. The QRC shall have a hinged Rubber cover. QRC shall be opened and closed using a coupler key manufactured by some manufacturer. Matching Hose Swivels shall also be available.

6. Pop-up Sprays

Body, cover and flow tube shall be high impact ABS. A stainless steel spring shall provide retraction force. Outside entry of sand and dirt shall be prevented with a pressure activated wiper seal. Pop-up height shall be 4". Inlet threads shall be 1/2". Pop-up spray bodies shall be equipped with plastic variable arc nozzle.

7. Valve Boxes

All valve boxes shall be HDPE of suitable size and shall have green body and cover with locking bolt. Valve boxes shall be available in both round and rectangular models. Where larger size is required a combination of round and rectangular valve boxes may be used.

8. PVC Ball Valves

All thermoplastic ball valves shall be true union design with two-way blocking capability. Valves shall be PVC with Teflon seats and shall be rated for 10 kg/cm² bar working pressure. Valves shall be threaded at both ends.

9. Disc Filters

Disc filters shall be T-type having polyacetal housing with polyamide and glassfibre lid, nitrile rubber seals and heavy duty plastic discs capable of providing 130 micron filtration. Inside Discs shall be made of polypropylene. All clamps and nuts etc. shall be stainless steel. The filtration unit inlet and outlet headers shall conform to the disc filter size suitable for 160 lpm flow. Maximum working pressure shall be 10 bars. Filtration unit shall be Azud, Amiad or approved equal.

10. Pumping Unit

Irrigation pumping unit shall consist one number of submersible pump having capacity of 160 lpm at 4.5 bar pressure. Pumping unit shall be equipped VFD control to enable efficient operation at variable flow. Pumping unit shall be complete with isolation valve on inlet and outlet, check valves and suitably sized headers and pump control panel. The control panel shall have a pump start facility with 24V contractor. Complete pumping unit shall from the manufacturer's representative and pump manufacturer shall provide guarantee on complete unit. Pumping unit shall be Grundfos, DP or approved equal.

11. Irrigation Auto Controller

Irrigation Auto Controller shall be microprocessor based, solid state electronic in operation and shall not employ electric motors. Operational panel shall be removable the housing with quick disconnect pins and ribbon cable.

Irrigation controller shall be compatible with same make Weather Station suitable for wireless programming based on ET on daily basis (if used).

Controller shall be enclosed in a high impact, molded NEMA 3, U. L. outdoor and C.S.A. listed housing with an integral, continuous hinging system with a stainless steel cam actuated padlock latch and neoprene gasket. Housing shall have external brackets for wall or pedestal mounting without openings through the housing.

Number of stations shall be as indicated on drawings and controllers shall have a minimum of 2 independent programs. At least one program shall have long timing option. Each program shall have minimum two start times per day. Controller shall allow stack timing and shall be capable of fully automatic, semiautomatic and manual operation. Controllers shall have water budgeting feature from 10 to 200% (min). Timing adjustment percentage shall be assignable by program and will be applied to all station duration times within that program.

Controller shall provide microprocessor programming for day, date, station start times, and duration of watering times. Program shall provide a weekly and interval calendar option to allow watering on specific days of the week or specific intervals of one to seven days. Two day interval schedule shall be suitable for odd/even day watering requirement by omitting operation on the 31st day of the month.

Clock and calendar shall be solid state and shall not require reprogramming except during leap year or a power failure exceeding back-up battery life. Back -up power shall be provided by a standard 9V alkaline battery and shall retain correct time and program for a minimum of one week. Controller shall also provide a built-in back-up program, with override switch, to initiate minimum watering in the event a power failure should exceed life of back-up battery.

Manual operation mode shall allow input of desired watering time without disturbing the pre-set program.

12. Drip Emitters

The emitters shall be fully pressure compensating, self-flushing, on line type with a outlet barb for attachment of 3mm spaghetti tube. Pressure compensation range shall be 15 to 40 PSI.

The emitter body shall be constructed of heat and ultraviolet resistant materials. The emitter shall have a silicon diaphragm, which shall allow automatic purging at low pressure.

The emitters shall be available in 2, 4 and 8 LPH and shall be colour-coded. Emitters shall be Micro Flapper or equal.

13. Low Voltage wires (Solenoid Cables)

Low voltage wires shall be single solid conductor suitable for direct burial (600V) without use of conduit and shall be UL listed, underground feeder type. The size shall be 14 gauge /12 gauge as required by design.

LV wires shall be joined using Snap Tite Wire Connectors and Cement recommended by connector supplier.

14. Air Vacuum Relief Valves

Air/Vacuum relief valves shall be of non-corrosive plastic construction. Valves shall be dual acting combining Kinetic air release, continuous air release and vacuum release.

15. Pressure Release Valves

Pressure relief valves shall be of Aluminum construction.

SPECIFICATION/SCOPE FOR FILTRATION SYSTEM

Filtration System will be able to filter all water impurities.

It will be effective in removing algae, debris etc. to the satisfaction of the Authority

The System will be effective in disinfection to the satisfaction of the Owner.

The system will be effective in removing all the foul smell of water.

The system will be effective in such a way that installed water fountain, or any laser show proposed in future by the Owner shall be working properly with the filtered water. No chocking of nozzle, pump, or abrasion of nozzle system of fountain and impeller of pump shall be ensured by the filtration system.

The Scope includes Cartage, preparation of working drawings, commissioning, hydraulic testing of all pipes at doubles the working pressure etc.

SPECIFICATION/SCOPE FOR FLOATING FOUNTAIN

Height of Jet shall be 20 m.

All items including lighting fixtures shall be as per item description and shall be to the satisfaction of Engineer In-Charge.

Fountains shall be installed on floating FRP base to the satisfaction of Engineer In-charge. It shall be firmly anchored and all such works will be in bidder's scope. No separate payment shall be done for any such works which are necessary for successfully installation of the fountain.

All accessories shall be included in the item; no separate payment shall be given for any such item.

The Scope includes Cartage, preparation of working drawings, commissioning, testing etc.

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 by MP Online. The password for the new portal has been sent to the Bidders on registered email ID. For more details may contact M/s Tata consultancy Services Corporate Block, 5th floor, DB city Bhopal-462011, email id: eprochelpdesk@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 the required proofs along with an application. Only upon the receipt of the required documents, a digital certificate can be issued. For details, please visit <http://cca.gov.in>.

Note:

- i. It may take up to 7 (seven) 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 <http://cca.gov.in>.
- ii. Bids can be submitted till bid submission end date. Bidder will require digital signature for the bid submission. The digital certificate issued to the authorized user of a partnership firm/ private limited company/ public limited company and user 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 partners of the firm.

In case of private limited company, public limited company, the Managing Director may authorize a specific individual through an Authority Letter. Alternatively, a Board resolution may be passed authorizing such individual. Unless the authority letter or Board resolution 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 The Information Technology Act, 2008.

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 Key Dates as mentioned in **Annexure - A**.

5. Preparation and Submission of Bids

The Bidders have to prepare the proposal 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 key schedule in adherence to the key dates of the NIT under the digital signature of the authorized representative.

6. Purchase of Bid Document

For purchasing of the bid document, Bidders have to pay applicable bid amount only through online mode as per Bid Data Sheet. The 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 up to scheduled time and date as set in the key dates. The payment for the cost of bid document shall be made online through Credit/ Debit/ Cash Card or via internet banking.

7. Withdrawal, Substitution and Modification of Bids

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

Note:

- Bidders are requested to visit our e-tendering website regularly for any clarifications and/or due date extension or corrigendum.
- Bidder must positively complete online e-tendering procedure at www.mpeproc.gov.in.
- GSCDCL shall not be responsible in any way for delay/ difficulties/ inaccessibility of the downloading facility from the website for any reason whatsoever.
- In case, due date for submission and opening of bids happens to be a holiday, the due date shall be shifted to the next working day for which no prior intimation will be given.
- GSCDCL reserves the right for extension of due date of opening of technical bid.

ORGANIZATIONAL DETAILS
(To be contained in Envelope - A)

S. No.	Particulars	Details
1.	Registration No. issued by centralized registration system of Govt. of Madhya Pradesh 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 PWD, Govt. of Madhya Pradesh	(Scanned copy of Registration to be uploaded)
3.	Name of the Bidder	
4.	Legal status of the Bidder Organization/ Individual/ / Partnership Firm Registered under Partnership Act/ Limited Company (Registered under the Companies Act-1956/ 2013)	Attach: — the registered partnership deed or — certificate of incorporation and Memorandum of Association and Articles of Association
5.	Address of Communication	
6.	Telephone Number with STD Code	
7.	Fax Number with STD Code	
8.	PAN	
9.	GST No.	
10.	TAN	
11.	EPF Registration	
12.	Mobile Number	
13.	E-mail Address for all communications	
	Details of Authorized Representative	
14.	Name	
15.	Designation	
16.	Postal Address with pin code	
17.	Telephone Number with STD Code	
18.	Fax Number with STD Code	
19.	Mobile Number	
20.	E-mail Address	

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 and Physical	Annexure – G (Format : G - 1)
2	List of technical personnel for the key positions	Annexure – G (Format : G - 2)
3	List of Key equipment/ machines for construction work	Annexure – G (Format : G - 3)

Note:

1. *Technical Proposal should be uploaded duly page numbered and indexed.*
2. *Technical Proposal uploaded without page numbering and indexing will not be considered.*

(See clause 14 of Section 2 of ITB

FINANCIAL AND PHYSICAL EXPERIENCE DETAILS

Bidders to furnish details as sought in pre-qualification criteria

LIST OF TECHNICAL PERSONNEL FOR THE KEY POSITIONS

Contractor/ Successful Bidder will have to appoint at least the following key personnel during the execution and entire contract period.

S. No.	Discipline	Minimum Qualification	Required Nos.
1	Site Engineer	Degree/ Diploma in Civil Engineering having minimum 5 years (7 years for Diploma holder) of relevant experience	One
2	Engineer (Horticulture & Landscape, Pathways)	Domain Experts with requisite ability to follow the designs and drawings to execute the work, ability to manage complex situations and to effectively coordinate the work – minimum 5 years' experience	One
3	Electrical Engineer	Degree/ Diploma in Electrical Engineering having minimum 3 years (5 years for Diploma holder) of relevant experience	One

Penalty for Non-deployment of above staff are as follows:

S .No.	Discipline	Penalty to be computed on Per Head Per Day basis
1	Site Engineer	Rupees 40,000/- Per Month
2	Engineer (Horticulture & Landscape, Pathways) at least for a period of three months in the contract period	Rupees 30,000/- Per Month
3	Electrical Engineer at least for a period of three months in the contract period	Rupees 30,000/- Per Month

Note: In case the staff is unavailable for a part of the month, the penalty shall be pro-rated

Annexure – G (Format: G - 3)

(See clause 14 of Section 2 of ITB)

The Contractor shall carryout the all construction and installation work in such a way that the requirements of the specifications of each item of work under the project are fully satisfied. For achieving the quality parameters as per the specifications, the Contractor shall be required to deploy appropriate machinery and equipment for carrying out the work. In this section, the Bidder is required to demonstrate his capacity with respect to Key equipment and machinery that are required to carry out this work successfully.

LIST OF EQUIPMENTS / MACHINES FOR CONSTRUCTION WORK

Minimum Requirement			Available with the Bidder	
S. No.	Name of Equipment/ Machinery	Quantity	Name of Equipment/ Machinery	Quantity
1	All machines and equipment's required to furnish the job efficiently in stipulated time	As required in project		

**FINANCIAL BID
(TO BE CONTAINED IN ENVELOPE C)**

TENDER FOR ITEM RATE CONTRACT:

NAME OF WORK: (NAME OF THE WORK AS APPEARING IN THE BID FOR THE WORK)

We do hereby bid for the execution of the above work within the time specified at total rate (in figures) (in words)..... excluding GST based on the rates of each item quoted in Annexure H-1 bill of quantities. The item wise rates given therein in all respects are in accordance with the specifications, designs, drawings and instructions in writing in all respects in accordance with such conditions so far as applicable.

We have visited the site of work and are fully aware of all the difficulties and conditions likely to affect carrying out the work. We have fully acquainted 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, 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 EXECUTIVE DIRECTOR, GWALIOR SMART CITY DEVELOPMENT CORPORATION LIMITED, GWALIOR; Madhya Pradesh or his/her successors in office the sums of money mentioned in the said conditions.

Note:

- i. Only one rate above or below or at par against quantity of each item given in the Bill of Quantities shall be quoted.
- ii. Rate 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/or fails to sign the contract its earnest money deposit shall be forfeited.
- iii. In case of items for which no rate or price is entered, will not be paid for by GSCDCL when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.
- iv. Bidder is required to submit financial bid exclusive of applicable GST, but inclusive of all duties, taxes, royalties and other levies; and the GSCDCL shall not be liable for the same. The GST shall be paid separately as per applicable Government rules.

Signature of Bidder

Name of Bidder

Annexure – H -1

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
A	CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS					
A-1	Boundary Wall and Front Gate work					
1	Finishing walls with textured exterior paint of required shade : (off white colour)					
1.1	On old/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.	1300.24	sqm			
2	Stone work (machine cut edges) for wall lining etc.(vener work) backing filled with grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade. (To be secured to the backing by means of cramps) 30mm thick Gang saw cut Gwalior Mint sand stone -Exposed face machine cut and table rubbed with rough backing including cost of cramps.	850.12	Sqm			
3	Providing and laying cement concrete in cooping upto floor two level, excluding the cost of centering, Shuttering and finishing. Concrete grade M-15 (nominal mix) with 20mm maximum size of stone aggregates.	18.68	Cum			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
4	Cleaning the Sand Stone(or other stone) surface and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc. including providing, applying and washing the surface with liquid amonia chemical of 5% solution and other chemical cleaning agent as approved by Archaeological Survey of India/Engineer-in-Charge, of approved brand and manufacturer, with the help of required scrubbers and also cleaning with machine operated water jet mixed with desired quantity of fine silica wherever required, without causing any scratching/ damage to the stone surface and finally washing the surface with clean water with the help of pressure jet machine, complete in all respect, including taking all precautions to safeguard ventilators, windows, doors etc. by suitable covering so as to avoid any damage to the structure, all as per direction of Engineer-in-Charge(the rate is inclusive of all materials and labours).	429.83	sqm			
5	12mm thick cement plaster in cement mortar 1:6 (C/S)	650.12	Sqm			
6	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	341.00	kg			
7	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.	5.57	sqm			
8	Stone work in plain ashlar (matching to existing front wall) in super structure upto floor two level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade both face dressed.	27.29	cum			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
9	Centering and shuttering including strutting, propping etc. and removal of form for: Walls (any thickness) including attached pilasters, blutteresses, plinth and string courses etc.	156.42	sqm			
	Sub Total					
A-2	Paved Pathway, Pedestrian and Handrail					
1	Earth work in excavation by mechanical means (hydraulic excavator) / manual means including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed. All kinds of soil in cum.	187.82	cum			
2	Filling of available (selected) excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50m and lift upto 1.5m.	70.43	cum			
3	Providing and laying of brick bat in sub base/ plinth under floors with approved binding material (sand) including screening, sorting, spreading, packing and consolidation with half tonne roller to template etc. complete.	23.60	cum			
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.	57.18	cum			
5	Brick work with chimney brick of class designation 40, including the cost of scaffolding in Cement mortar 1:4(1 cement : 4 coarse sand)	64.80	cum			
6	Stone Flooring.					

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
6.1	Providing and laying Gang saw cut Gwalior beige sand stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all completed as per the architectural drawings with 30mm thick stone slab over 20mm thick base of cement mortar 1:4 (1 cement : 4 Coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-charge.	916.30	sqm			
6.2	Providing and laying Gang saw cut Katani brown sand stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all completed as per the architectural drawings with 30mm thick stone slab over 20mm thick base of cement mortar 1:4 (1 cement : 4 Coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-charge.	188.10	sqm			
7	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.5mm having water absorption less than 0.5% and conforming to IS: 15622, of approved make in all colours and shades in outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement :4 Sand) in all shape & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-charge.	174.90	sqm			
8	Stainless steel Dustbin, 16inch dia, height 2 feet 6 inch, pole height 4 feet, material grade 304, material thickness 1.56mm, material finish matt.	12.00	nos			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
9	Providing and fixing 3 seater park bench made of Dholpur badge Sand Stone. Fixing in cement concrete etc. complete as per approved design and drawing. Size of bench 550mmx550mmx1800mm. Thickness of seating slab 75mm	12.00	nos			
10	50mm downsize washed river pebbles 100 mm thick of whitish / grey colour embedded in cement mortar 1:4.	18.28	Cum			
11	Cement mortar 1:4 25mm thick for above item 10	0.46	Cum			
12	Supplying and filling of sand in plinth under floors and in for play areas including, watering, ramming consolidating and dressing completed.	188.10	Cum			
13	Providing and laying of Kota stone slab 25mm thick flooring over 50 mm (average) thick sand base laid over.	31.90	sqm			
14	Dismantling steel work in single sections including dismembering and stacking within 50 meters lead in: Channels, angles, tees and flats.	3300.00	kg			
15	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	7145.60	kg			
16	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	418.00	sqm			
	Sub Total					
A-3	Modification of statue area					
1	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 meters lead.	514.80	sqm			
2	Dismantling steel work in single sections including dismembering and stacking within 50 meters lead in: Channels, angles, tees and flats.	866.25	kg			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
3	Supply and fixing of White sandstone Baluster of size approx. 500mmx500mm and 1300mm high in railing, having groves (50mm wide and 40mm deep) both the side to fix railing panel all complete as per drawings and direction of Engineer in charge.	4.00	nos.			
4	Cleaning the Sand Stone(or other stone) surface and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc. including providing, applying and washing the surface with liquid amonia chemical of 5% solution and other chemical cleaning agent as approved by Archaeological Survey of India/Engineer-in-Charge, of approved brand and manufacturer, with the help of required scrubbers and also cleaning with machine operated water jet mixed with desired quantity of fine silica wherever required, without causing any scratching/ damage to the stone surface and finally washing the surface with clean water with the help of pressure jet machine, complete in all respect, including taking all precautions to safeguard ventilators, windows, doors etc. by suitable covering so as to avoid any damage to the structure, all as per direction of Engineer-in-Charge(the rate is inclusive of all materials and labours).	58.08	sqm			
5	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.5mm having water absorption less than 0.5% and confirming to IS: 15622, of approved make in all colours and shades in outdoor floors such as footpath, court yard, multi modals location etc., lain on 20mm thick base of cement mortar 1:4 (1 cement :4 Sand) in all shape & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-charge.	19.80	sqm			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
6	Stone work (machine cut edges) for wall lining etc.(vener work) backing filled with grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade. (To be secured to the backing by means of cramps) 30mm thick Gang saw cut Gwalior Mint sand stone -Exposed face machine cut and table rubbed with rough backing including cost of cramps.	135.30	Sqm			
7	Provide and fixing of white Sand Stone Planter of size 1200x450x450mm . All around the statue and statue area, all completed as per drawings and instruction of Engineer in charge.	30.00	Nos.			
8	Flooring					
8.1	Providing and laying Gang saw cut Katani brown sand stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all completed as per the architectural drawings with 30mm thick stone slab over 20mm thick base of cement mortar 1:4 (1 cement : 4 Coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-charge.	144.10	sqm			
8.2	Providing and laying Gang saw cut Gwalior beige sand stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all completed as per the architectural drawings with 30mm thick stone slab over 20mm thick base of cement mortar 1:4 (1 cement : 4 Coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-charge.	295.90	sqm			
9	Extra for pre finished nosing in treads of steps of sand stone slab	115.50	meter			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
10	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	3751.44	kg			
11	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	109.73	sqm			
	Sub Total					
A-4	Bara dari works					
1	Providing and fixing of pavilion (Baradri) designed to allow free flow of air.The structure will have three doorways on every side of rectangular shaped structure made of White Sand Ston like Dholpur stone of approximate size 7m in length and 2.5m wide, height of column 2.5 m. No. of columns 10 and size of column 250mmx250mmx2500. As per approved design and drawing.The reference photograph shall be attached in the drawing. All civil and architectural works shall include in the item.	1.00	Nos.			
2	Supply and fixing of White sandstone Baluster of size approx. 500mmx500mm and 1300mm high in railing, having groves (50mm wide and 40mm deep) both the side to fix railing panel all complete as per drawings and direction of Engineer in charge.	2.00	nos.			
3	Providing and fixing ornamental raibow teak magic stone flower pot or planter of round shape of top diameter minimum 600mm and 600mm height. Fixing to be done on wall stone posts. Complete work. Reference photograph shall be attached with the document. Approval shall be given by Engineer In-Charge before installation.	14.00	Nos.			
	Sub Total					
A-5	Bell Pavilion works					

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
1	Earth work in excavation by mechanical means (hydraulic excavator) / manual means including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed. All kinds of soil in cum.	27.68	cum			
2	Filling of available (selected) excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50m and lift upto 1.5m.	16.82	cum			
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate.	4.66	cum			
4	Providing and laying of brick bat in sub base/ plinth under floors with approved binding material (sand) including screening, sorting, spreading, packing and consolidation with half tonne roller to template etc. complete.	3.52	cum			
5	Providing and laying Gang saw cut Gwalior beige sand stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all completed as per the architectural drawings with 30mm thick stone slab over 20mm thick base of cement mortar 1:4 (1 cement : 4 Coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-charge.	35.91	sqm			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
6	Stone work (machine cut edges) for wall lining etc.(vener work) backing filled with grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade. (To be secured to the backing by means of cramps) 30mm thick Gang saw cut Gwalior Mint sand stone -Exposed face machine cut and table rubbed with rough backing including cost of cramps.	86.09	Sqm			
7	Extra for pre finished nosing in treads of steps of sand stone slab	25.37	meter			
8	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.	8.27	cum			
9	Reinforcement for R.C.C. work including straightening cutting, bending, placing in position and binding including cost of binding wire up to floor top level including all wastages etc. complete , hot rolled deformed bars HYSD500	661.48	kg			
10	Centering and shuttering including strutting, propping etc. and removal of form for					
10.1	Foundations, footings, bases of columns, etc. For mass concrete.	15.21	Sqm			
10.2	Lintels, beams, plinth beams, girders, slabs ,cantilevers etc.	34.19	sqm			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
11	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	1503.18	kg			
12	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.	19.04	sqm			
13	Providing and fixing specified Hollowk wood frame work consisting of battens as per design for use in paving, cladding and seating, fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat , chemically and thermally treated suitable for external use complete as per drawings and approved by Engineer-In - Charge.	1.45	cum			
14	Providing and laying damp-proof course 50mm thick with Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate	1.62	Sqm			
15	Brick work with chimney brick of class designation 40, including the cost of scaffolding in Cement mortar 1:4(1 cement : 4 coarse sand)	9.36	cum			
16	Half brick masonry with of class designation 40 in foundation and plinth in. Cement mortar 1:4 (1 cement : 4 coarse sand)	5.19	Sqm			
17	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.	1.98	cum			
18	Providing and fixing of bells	6.00	nos.			
	Sub Total					
A-6	Kiosk (4nos.)					
1	Earth work in excavation by mechanical means (hydraulic excavator) / manual means including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed. All kinds of soil in cum.	56.93	cum			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
2	Filling of available (selected) excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50m and lift upto 1.5m.	38.89	cum			
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate.	4.44	cum			
4	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete M-5 stone aggregate 20mm nominal size at plinth level with cement mortar 1:6(1 cement:6 coarse Sand)	19.53	cum			
5	Providing and laying of brick bat in sub base/ plinth under floors with approved binding material (sand) including screening, sorting, spreading, packing and consolidation with half tonne roller to template etc. complete.	5.50	cum			
6	Kota stone slab 25mm thick flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing complete with base of cement mortar (1Cement:4 Coarse sand).	36.65	sqm			
7	Stone work (machine cut edges) for wall lining etc.(vener work) backing filled with grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade. (To be secured to the backing by means of cramps) 30mm thick Gang saw cut Gwalior Mint sand stone -Exposed face machine cut and table rubbed with rough backing including cost of cramps.	31.55	Sqm			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
8	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.	22.11	cum			
9	Reinforcement for R.C.C. work including straightening cutting, bending, placing in position and binding including cost of binding wire up to floor top level including all wastages etc. complete , hot rolled deformed bars HYSD500	2103.69	kg			
10	Centering and shuttering including strutting, propping etc. and removal of form for					
10.1	Foundations, footings, bases of columns, etc. For mass concrete.	51.00	Sqm			
10.2	Lintels, beams, plinth beams, girders, slabs ,cantilevers etc.	142.21	sqm			
11	Providing and laying damp-proof course 50mm thick with Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate	17.75	Sqm			
12	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.	2.75	cum			
13	Stone work in plain ashlar in super structure upto floor two level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade both face dressed red sand stone	23.97	cum			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
14	Providing and fixing 16mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facial and similar locations of required size, approved shade, colour and texture laid over 20mm thick base cement mortar 1:4, joints treated with white cement mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.	20.89	sqm			
15	Extra for providing full edge moulding to 16mm thick marble stone counter, vanities etc. including machine polishing to edge to give high gloss etc. complete as per design approved by Engineer - in-Charge.	59.40	meter			
16	Half brick masonry with of class designation 40 in foundation and plinth in. Cement mortar 1:4 (1 cement : 4 coarse sand)	74.48	Sqm			
17	15mm thick cement plaster in cement mortar 1:4 (C/S) External side	105.32	Sqm			
18	12mm thick cement plaster in cement mortar 1:4 (C/S) Internal side	152.39	Sqm			
19	6mm thick cement plaster in cement mortar 1:3 (C/S) on ceiling	17.41	Sqm			
20	Providing and applying plaster of Paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	152.39	Sqm			
21	Finishing walls with textured exterior paint of required shade : (off white colour)					
20.1	On old/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.	42.95	sqm			
21	Distempering with oil bound washable distemper of approved brand and manufacturer to give an even shade					
21.1	New work(two or more coats) over and including priming coat with cement primer	137.08	Sqm			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
22	Providing and laying pressed clay tiles (as per approved pattern 20mm nominal thickness and of approved size) on roofs jointed with cement mortar 1:4 mixed with 2% integral water proofing compound laid over a bed of 20mm thick cement mortar 1:4 and finished neat complete	62.60	sqm			
23	Supply and fixing of "cornice" of white sand stone (size 600mmx400mmx75mm thk) as per details shown in drawings, all complete.	14.00	nos.			
24	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5 cm long wire springs grade no. 2 and ms top cover of required thickness for rolling shutters.					
24.1	80x1.20 mm MS laths with 1.20mm thick top cover	15.95	sqm			
25	Providing wood work in frames of doors windows: Kiln seasoned and chemically treated hollock wood.	0.13	Cum			
26	Providing and fixing paneled or paneled and glazed shutters for doors, windows etc. including ISI marked black enameled M.S. butt hinges with necessary screws, Kiln seasoned and chemically seasoned Hollock wood 35mm thick shutters. (including all fixtures)	11.09	Sqm			
Sub Total						
A-7	Feature Wall (3nos.)					
1	Earth work in excavation by mechanical means (hydraulic excavator) / manual means including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed. All kinds of soil in cum.	12.30	cum			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
2	Filling of available (selected) excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50m and lift upto 1.5m.	9.88	cum			
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate.	1.10	cum			
4	Stone work (machine cut edges) for wall lining etc.(vener work) backing filled with grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade. (To be secured to the backing by means of cramps) 30mm thick Gang saw cut Gwalior Mint sand stone -Exposed face machine cut and table rubbed with rough backing including cost of cramps.	32.91	Sqm			
5	Extra for pre finished nosing in treads of steps of sand stone slab	84.68	meter			
6	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.	3.28	cum			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
7	Reinforcement for R.C.C. work including straightening cutting, bending, placing in position and binding including cost of binding wire up to floor top level including all wastages etc. complete, hot rolled deformed bars HYSD500	262.42	kg			
8	Centering and shuttering including strutting, propping etc. and removal of form for					
8.1	Foundations, footings, bases of columns, etc. For mass concrete.	9.98	Sqm			
8.2	Lintels, beams, plinth beams, girders, slabs, cantilevers etc.	32.53	sqm			
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.	1.42	cum			
10	Half brick masonry with of class designation 40 in foundation and plinth in. Cement mortar 1:4 (1 cement : 4 coarse sand)	8.32	Sqm			
11	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	894.87	kg			
12	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.	9.95	sqm			
13	Providing and fixing specified Hollowk wood frame work consisting of battens as per design for use in paving, cladding and seating, fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat, chemically and thermally treated suitable for external use complete as per drawings and approved by Engineer-In - Charge.	0.57	cum			
14	White Sand Stone Slab Mural size 2.1x1.8m as per drawing and approval of engineer in charge.	3.00	Nos.			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
15	Varnishing with varnish of approved brand and manufacture: Two or more coats of glue sizing with copal varnish over an under coat of flatting varnish.	54.68	sqm			
	Sub Total					
A-8	Filter room Cum Pump house and store					
1	Earth work in excavation by mechanical means (hydraulic excavator) / manual means including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed. All kinds of soil in cum.	47.67	cum			
2	Filling of available (selected) excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50m and lift upto 1.5m.	38.51	cum			
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate.	12.83	cum			
4	Brick work with chimney brick of class designation 40, including the cost of scaffolding in Cement mortar 1:4(1 cement : 4 coarse sand)	38.71	cum			
5	Providing and laying of brick bat in sub base/ plinth under floors with approved binding material (sand) including screening, sorting, spreading, packing and consolidation with half tonne roller to template etc. complete.	25.23	cum			
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.	18.34	cum			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
7	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.	46.96	cum			
8	Reinforcement for R.C.C. work including straightening cutting, bending, placing in position and binding including cost of binding wire up to floor top level including all wastages etc. complete , hot rolled deformed bars HYSD500	4582.89	kg			
9	Centering and shuttering including strutting, propping etc. and removal of form for					
9.1	Foundations, footings, bases of columns, etc. For mass concrete.	82.74	Sqm			
9.2	Lintels, beams, plinth beams, girders, slabs ,cantilevers etc.	249.09	sqm			
10	Half brick masonry with of class designation 40 in foundation and plinth in. Cement mortar 1:4 (1 cement : 4 coarse sand)	53.20	Sqm			
11	15mm thick cement plaster in cement mortar 1:4 (C/S) External side	312.49	Sqm			
12	12mm thick cement plaster in cement mortar 1:4 (C/S) Internal side	210.38	Sqm			
13	6mm thick cement plaster in cement mortar 1:3 (C/S) on ceiling	136.18	Sqm			
14	Providing and applying plaster of Paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	152.63	Sqm			
15	Finishing walls with water proofing cement paint of required shade : (off white colour)					
15.1	On old/new work (Two or more coats applied @ 3.84 kg/10 sqm) including all finishing, cleaning of paint droops/ clouds of adjacent area after paint.	376.00	sqm			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
16	Distemping with oil bound washable distemper of approved brand and manufacturer to give an even shade					
16.1	New work(two or more coats) over and including priming coat with cement primer	210.38	Sqm			
17	White washing with lime to give an even shade on Ceiling (three and more coats).	136.18	Sqm			
18	Providing and laying cement concrete in cooping upto floor two level, excluding the cost of centering, Shuttering and finishing. Concrete grade M-15 (nominal mix) with 20mm maximum size of stone aggregates.	0.68	Cum			
19	Providing and laying polished vitrified tiles 10 mm thick in different sizes with water absorption's less than 0.08% and conforming to IS:15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 Cement : 4 Coarse Sand) including grouting the joints with white cement and matching pigments etc. complete.600x600x10mm	106.70	sqm			
20	Providing and fixing Ist 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.	8.42	sqm			
21	Providing and laying pressed clay tiles (as per approved pattern 20mm nominal thickness and of approved size) on roofs jointed with cement mortar 1:4 mixed with 2% integral water proofing compound laid over a bed of 20mm thick cement mortar 1:4 and finished neat complete	148.12	sqm			
22	Providing wood work in frames of doors windows: Kiln seasoned and chemically treated hollock wood.	0.053	Cum			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
23	Providing and fixing paneled or paneled and glazed shutters for doors, windows etc. including ISI marked black enameled M.S. butt hinges with necessary screws, Kiln seasoned and chemically seasoned Hollock wood 35mm thick shutters. (including all fixtures)	12.94	Sqm			
24	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	94.76	kg			
25	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.	5.45	sqm			
26	Providing and fixing on wall face unplasticized rigid PVC rain water pipes conforming to IS 13592 type A including jointing with seal ring conforming to IS 5382 leaving 10mm gap for thermal expansion, single socketed pipes 75mm dia including all costs of fixtures,bends,coupler and down take pipe complete work.110mm dia	35.20	Rm			
27	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm dia and weighing not less than 440gms	12.00	each			
28	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete M15 with aggregate of 20 mm nominal size over PVC sheet 1mX1mX400 micron finished with 12mm cement plaster 1:3 and a coat of neat cement rounding the edge sand making and finishing the outlet complete	8.00	Each			
	Sub Total					
A-9	Duck platform and Electric pole foundation					
1	Earth work in excavation by mechanical means (hydraulic excavator) / manual means including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed. All kinds of soil in cum.	42.89	cum			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
2	Filling of available (selected) excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50m and lift upto 1.5m.	30.41	cum			
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level. Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate.	14.45	cum			
4	Centering and shuttering including strutting, propping etc. and removal of form for					
4.1	Foundations, footings, bases of columns, etc. For mass concrete.	124.61	Sqm			
5	Stone work (machine cut edges) for wall lining etc.(vener work) backing filled with grout of 12mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade. (To be secured to the backing by means of cramps) 30mm thick Gang saw cut Gwalior Mint sand stone -Exposed face machine cut and table rubbed with rough backing including cost of cramps.	40.81	Sqm			
6	Extra for pre finished nosing in treads of steps of sand stone slab	48.58	meter			
7	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.5mm having water absorption less than 0.5% and confirming to IS: 15622, of approved make in all colours and shades in outdoor floors such as footpath, court yard, multi modals location etc., lain on 20mm thick base of cement mortar 1:4 (1 cement :4 Sand) in all shape & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-charge.	4.62	meter			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
8	Providing and laying Gang saw cut Katani brown sand stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all completed as per the architectural drawings with 30mm thick stone slab over 20mm thick base of cement mortar 1:4 (1 cement : 4 Coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-charge.	11.88	sqm			
9	Providing and laying Gang saw cut Gwalior beige sand stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all completed as per the architectural drawings with 30mm thick stone slab over 20mm thick base of cement mortar 1:4 (1 cement : 4 Coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-charge.	43.56	sqm			
Sub Total						
A-10	Katora tal tank and existing Filtration Tank modification works					
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 meters lead. For thickness of tiles upto 25 mm	1521.47	sqm			
2	Providing and fixing Ist 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. (Tile shall be matching to existing tiles only.)	135.30	sqm			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
3	<p>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.</p> <p>(Tile shall be matching to existing tiles only.)</p>	1386.17	sqm			
4	<p>Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ltrand viscocity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane.3 mm thick</p>	1521.47	sqm			
Sub Total						
B	LIGHTING AND ELECTRICAL WORKS					
S.N	DESCRIPTION	QTY	UNI			
	External		T			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
1	Supply , installation testing and commissioning of outdoor type external lighting feeder pillar of suitable size made out of M.S. sheet 2mm thick (14 SWG) duly compartmentalized, double door with locking arrangement (IP-65), duly fixed on MS angle iron frame work of size 50mm x 50mm x 6mm, 90 cm long legs out of which 45 cm duly grouted in cement concrete 1:2:4 (1 cement : 2 sand :4 stone aggregate 20mm) and having following accessories mounted inside the cubical panel i/c connection, inter connection with aluminium thimbles, earthing with two nos. earth struds duly painted with power coating and 9 tank process of approved shade complete etc. as required.					
	supply and fixing of following accessories in the existing cubical panel board / feeder pillar including connection testing etc. as required.					
	Power contactor 6 sets of single pole of 60 Amps.					
	Astronomical Timer (L&T - T3DDT0 or Equivalent) 2nos.					
	The above board shall be complete with 3 nos. phase indicating lights, flush mounted multifunction energy analyser meter (EM6400 of conzerve or equivalent), CT's, PT's, selector switches, protective fuses etc. at Incomer with all interconnections by min. 2.5 sq.mm. Copper wires.					
	Danger notice plate					
(i)	External Lighting Feeder Pillar (1) :-					
	INCOMER : 63 AMP FP MCCB (25 KA)					
	BUS BAR : 200 AMP, 500 Volts, 3 phase 50 HZ FP high conductivity electrolytic Aluminium bus bar. The current density of bus bar shall be minimum 1.00 sq mm / amp.					
	OUT GOINGS :					
	Upto 20 nos. 6-32 AMP DP/FP MCB (10 KA)	2	Set			
2	CABLES					
A	Supply of XLPE Insulated power cable (conforming IS- 7098) 1100 Volt grade/Heavy duty power cable conforming to IS 1554-1100 Volts grade , 2 core /3½ core/4 core ISI MARKED with Alu. Stranded /solid conductor					
a	10 sqmm 4 core armoured		M			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
		930				
b	10 sqmm 2 core armoured	770	M			
c	25 sqmm 4 core armoured	250	M			
B	Laying of one number PVC insulated and PVC sheathed power cable of 1.1kV grade of size not exceeding 25 Sq.mm direct in ground including excavation, sand cushioning, protective covering and refilling the pit etc. as required.					
a	10 sqmm 4 core armoured	930	M			
b	10 sqmm 2 core armoured	770	M			
c	25 sqmm 4 core armoured	250	M			
3	SITC OF EXTERNAL LIGHTING FIXTURES / POLE	-				
a	Supply Installation, testing and commissioning of LED type post top lantern light 30W fixtures with required 4m pole, lamps, control gears, including connection with 3x1.5 sqmm flexible fire retardant copper connecting wire of required length complete as required for outdoor application.	49	Nos			
f	Supply Installation, testing and commissioning of LED type Gate light 30W fixtures with required lamps, control gears, including connection with 3x1.5 sqmm flexible fire retardant copper connecting wire of required length complete as required for outdoor application.	2	Nos			
c	Supply Installation, testing and commissioning of LED type Uplighter 7W fixtures with required lamps, control gears, including connection with 3x1.5 sqmm flexible fire retardant copper connecting wire of required length complete as required for outdoor application.	16	Nos			
j	Supply Installation, testing and commissioning of LED type Downlighter 6W fixtures with required lamps, control gears, including connection with 3x1.5 sqmm flexible fire retardant copper connecting wire of required length complete as required for outdoor application.	3	nos			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
f	Supply of LED type Bollard light 12w fixtures with indirect discharge diffuser, lamps, control gears, including connection with 3x1.5 sqmm flexible fire retardant copper connecting wire of required length complete as required for outdoor application.	2	Nos			
l	Fixing charges of post top / Gate / Garden fitting / LED on the existing CI / GI or any other pipe using required size of reducer, wiring using suitable wires. (PWD ELE SR. 14-15 P. No.108 SL No.17.6)	2	Nos			
b	Supply Installation, testing and commissioning of LED type Flood light 30W fixtures with required lamps, control gears, including connection with 3x1.5 sqmm flexible fire retardant copper connecting wire of required length complete as required for outdoor application.	10	Nos			
d	Supply Installation, testing and commissioning of LED type Flood light 150W fixtures with required lamps, control gears, including connection with 3x1.5 sqmm flexible fire retardant copper connecting wire of required length complete as required for outdoor application.	8	Nos			
c	Supply Installation, testing and commissioning of LED type Flood light 80W fixtures with required lamps, control gears, including connection with 3x1.5 sqmm flexible fire retardant copper connecting wire of required length complete as required for outdoor application.	2	Nos			
k	Supply , laying and jointing of ISI marked HDPE (DWC) pipe 63mmID/77mmOD for cable laying including transportation and accessories required complete in all respect	40	M			
l	SITC of polycarbonate weather proof (IP- 55) outdoor type junction box including 2nos 600mm long spike to mount it 150mm above ground including terminal/connector block as required by site incharge.	10	nos			
4	G.I. EARTHING	-				

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
a	Chemical earthing for grounding, conduits, IC cut outs & other equipments on the meter board by using copper bonded / SS rod with earth enhancing backfill compound which is non-corrosive, thermally conductive, potential to permissible limits, superior Fault conduction capacity, non toxic, weather resistance & Capable of achieving ohmic value less than one ohm. (PWD ELE SR. 14-15 P. No.64 SL No.7.23)	-				
	Using 6 Ft copper bonded rod with backfill compound.	4	Nos			
b	Providing & fixing 25mm x 5mm G.I. strip on surface, in recess or in ground including connections etc. as required	10	M			
c	Providing and laying 6 SWG dia G.I. wire on surface, in recess or in ground including connections for earthing as required along with cables.	1,550	M			
		-				
	Internal (kiosk, store and miscellaneous rooms)	-				
1	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 :-	-				
a	Medium point	22	Nos			
2	3 Pin 6 Amp socket outlet on Separate Board	-				
a	Medium point	5	Nos			
3	Point wiring including metallic switch box, sheet, switch, socket for 3 pin 6 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 .	6	Nos			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.	-				
a	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	30	mtr			
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 :-	-				
	SINGLE POLE (SP)	-				
a	6 Amp to 32 Amp Rating	16	Nos			
	DOUBLE POLE (DP)	-				
b	6 Amp to 32 Amp Rating	5	Nos			
6	Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of Busbar, Neutral bar, Earth bar & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)-	-				
a	8 way double door	4	Nos			
b	12 way double door	1	Nos			
7	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.	-				
a	25 A	5	Nos			
8	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.	-				
a	Ceiling Fan (Energy Saver 50 W)-1200 mm Sweep	4	Nos			
b	Ceiling Fan (Energy Saver 60 W)-1400 mm Sweep	3	Nos			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
9	Suppling and fixing of approved make step type Modular electronic, Fan regulator single/double module including connection etc. as required on existing board	-				
a	upto 120 watt	7	Nos			
10	Supplying, erecting and testing of approved make Exhaust Fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/ Anchor hole fastners etc. complete finished and as required.	-				
a	300mm sweep 900 RPM	1	Nos			
11	Supplying of 2' feet - LED PVC Square Batten .W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved. 5 years Warranty against any manufacturing defect working under standard electrical condition (PWD ELE SR. 14-15 P. No.25 SL No.4.29) LED light fighting 2' - 14 Watts	8	Nos			
12	Supplying of 2' feet - LED PVC Square Batten .W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved. 5 years Warranty against any manufacturing defect working under standard electrical condition (PWD ELE SR. 14-15 P. No.25 SL No.4.29) LED light fighting 4' - 28 Watts	5	Nos			
13	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23 / 0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. (PWD ELE SR. 14-15 P. No.108 SL No.17.7) On wall / ceiling / Rafter / Girders	5	Nos			
	Sub Total					
S.N	Particular	Qty.	Unit			
C	HORTICULTURE WORKS					

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
1	Trenching in ordinary soil up to a depth of 60cm including the removal and stacking of serviceable material and then disposing of by spreading and neatly leveling within a lead of 50m and making up the trenched area to the proper levels by filling with earth or earth mixed with sludge and/or manure before and after flooding the trench with water (excluding the cost of imported earth, sludge etc)	256.407	Cum			
2	Ploughing of the existing ground to a depth of 15cm to 25cm and watering the same	13.3635	100sq m			
3	Supply and stacking of good earth at site including royalty and carriage up to 1km (earth measured in stacks will be reduced by 20% for payment)	529.11	Cum			
4	Supply and stacking of manure at site including royalty and carriage up to 1km (manure measured in stacks will be reduced by 8% for payment)screened through sieve of I.S. designation 16mm	52.911	Cum			
5	Rough dressing the trenched ground including breaking clods.	17.637	100sq m			
6	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	17.637	100sq m			
7	Fine dressing the ground	17.637	100sq m			
8	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).	52.911	cum			
9	Mixing earth and manure in proportion specified or directed	264.555	cum			
10	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and than rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge.direction.	676.5	Per Sqm			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
11	Preparation of beds for hedging and shrubbery by excavating 60cm deep and trenching the excavated earth after breaking clods and mixing with sludge or manure in the ration of 8:1 (8 parts of stacked volume of earth after reduction by 20%: one part of stacked volume of manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, leveling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed, within a lead of 50m lift up to 1.5m complete (cost of sludge, manure or extra earth to be paid for separately)	197.28	cum			
12	Digging holes in ordinary soil and refilling the same with excavated earth mixed with sludge or manure in the ratio of 2:1 by volume (2 parts of stacked volume of earth reduced by 20% : 1 part of stacked volume of manure reduced by 8%), flooding with water and dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately)					
a	Trees- Holes 1.2m dia. and 1.2m deep	66	Each			
b	Large +Medium shrubs-holes 60cm dia. and 60cm deep	14035	Each			
13	SUPPLY OF PLANT MATERIAL(TREES, SHRUBS, ETC) BOTANICAL NAME (TREES)					
13.1	Supply and stacking of Bauhinia blakeana (Kachnar) plant of height 120-150 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	2	nos			
13.2	Supply and stacking of Erythrina indica plant of height 150-165 cm. in big polybag of size 25 cm as per direction of the officer-in-charge.	4	nos			
13.3	Providing and Displaying Cycas circinallis well developed with fresh & healthy 35 to 40 lush green leaves in 40 cm Cement Pot as per direction of the officer-in-charge.	2	nos			
13.4	Supply and stacking of Lagerstroemia flosreginae plant of height 150-165 cm.in big poly bag of size 25 cm as per direction of the officer-in-charge.	2	nos			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
13.5	Supply and stacking of Tecoma argentea plant of height 120-135 cm. in big poly bag of size 25 cm as per direction of the officer-in-charge.	2	nos			
13.6	Supply and stacking of Plumeria alba plant of height 120-135 cm. with 2-3 branches in bags of size 30 cm as per direction of the officer-in-charge.	7	nos			
13.7	Supply and stacking of Ficus Iyrata plant of height 45-60 cm. in earthen pots of size 25 cm as per direction of the officer-in-charge.	22	nos			
13.8	Supply and stacking of Milletia ovalifolia plant of height 120-135 cm. in big poly bag of size 25 cm as per direction of the officer-in-charge.	10	nos			
13.9	Supply and stacking of Ficus benjamina (green) plant of height 150-165 cm., bushy with healthy branches and lush green foliage in big size HDPE bags as per direction of the officer-in-charge.	15	nos			
		66				
14	HEDGE & SHRUBBERY					
14.1	Supply and stacking of plant Hibiscus rosasinensis of height 60-75 cm. with 5-6 branches in p.bag of size 25 cm as per direction of the officer-in-charge.	156	nos			
14.2	Supply and stacking of plant Lagerstroemia indica of height 90-105 cm. multibranching in poly bags of size 25 cm as per direction of the officer-in-charge.	42	nos			
14.3	Supply and stacking of plant Calliandra hybrida of height 75-90 cm. with 4-5 branches in bag of size 25 cm as per direction of the officer-in-charge.	54	nos			
14.4	Supply and stacking of plant Tabernaemontana coronaria (Chandni single) of height 75-90 cm. with 5-6 branches in bag of size 25 cm as per direction of the officer-in-charge.	9	nos			
14.5	Supply and stacking of plant Hamelia patens of height 60-75 cm. with 6-8 branches in poly bags of size 25 cm as per direction of the officer-in-charge.	67	nos			
14.6	Providing and Displaying of Clerodendron inerme plant of ht. 30 cm to 40 cm multi branched in 25 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge.	35	nos			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
14.7	Supply and stacking of plant <i>Murraya exotica</i> of height 45-60 cm. in poly bags of size 15 cm as per direction of the officer-in-charge.	113	nos			
14.8	Providing and Displaying of <i>Duranta Golden</i> plant, having ht. 15 to 20 cm bushy shape plant with fresh and healthy leaves in 20 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge..	72	nos			
		548				
15	SHRUBS, SMALL SHRUBS & GROUND COVERS					
15.1	Providing and Displaying of <i>Ipomea</i> (Golden leaves) plant, with fresh and healthy leaves in 15 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge.	35	nos			
15.2	Providing and displaying of <i>Livistona</i> palm plant, having ht. 60 cm to 75 cm, well developed with 8 to 10 leaves, fresh & healthy foliage in 30 cm size of Earthen pot / Plastic pot . as per direction of the officer-in-charge.	18	nos			
15.3	Providing and displaying of <i>Raphis</i> palm plant, having ht. 45 cm to 60 cm with 5 to 7 suckers, well developed, full of fresh and health.	384	nos			
15.4	Supply and stacking of <i>Clerodendrum splendens</i> plant of height 30 cm to 45 cm. in 20 cm size of Earthen pots / Plastic pots & as per direction of the officer-in-charge.	11	nos			
15.5	Supply and stacking of <i>Allamanda cathartica</i> plant of height 30 cm to 45 cm. in 20 cm size of Earthen pots / Plastic pots & as per direction of the officer-in-charge.	11	nos			
15.6	Providing and displaying of <i>Dracaena marginata</i> plant, having ht. 30 cm to 45 cm with colourfull leaves, fresh and healthy in 20 cm size of Earthen pot / Plastic pot & as per direction of the officer-in-charge.	314	nos			
15.7	Supply and stacking of plant <i>Thuja compacta</i> of height 45-60 cm., well branched in earthen pots of size 25 cm as per direction of the officer-in-charge.	2	nos			
15.8	Supply and stacking of <i>Allamanda violacea</i> plant of height 30 cm to 45 cm. in poly bag of size 20 cm as per direction of the officer-in-charge.	4	nos			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
15.9	Providing and Displaying Euphorbia milli hybrid variety with multi branch, full bloom, with fresh and healthy well developed having 30 to 45 cm ht. in 35 cm Cement Pots as per direction of the officer-in-charge.	61	nos			
15.1 0	Providing and Displaying of Alternanthera species (green leaves) plant of height 15 cm to 20 cm, full of branches and foliage in 15 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge.	2110	nos			
15.1 1	Providing and Displaying of Syngonium (Butterfly) variegated plant with 2-3 suckers healthy foliage in Earthen Pot/Plastic Pot of size 20 cm. as per direction of the officer-in-charge.	3078	nos			
15.1 2	Providing and Displaying of of Cuphea chinensis plant of ht. 30-45 cm full of branches and healthy foliage in 25 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-incharge.	432	nos			
15.1 3	Providing and Displaying of Asparagus sprengeri plant of height 30 cm to 45 cm, full of leafy branches in 20 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge.	286	nos			
15.1 4	Providing and Displaying of Ophiopogon plant, Black full of leaves in 20 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge.	459	nos			
15.1 5	Providing and Displaying of Ophiopogon jaburan (variegated) plant, full of variegated leaves in 15 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge.	585	nos			
15.1 6	Providing and Displaying of Wadelia trilobata plant,full of leaves in 15 cm size of Poly bags & as per direction of the officer-in-charge.	2915	nos			
15.1 7	Providing and Displaying of Iresine herbstii plant, of height 20-30 cm., full of branches well developed in 20 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-incharge.	1702	nos			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
15.1 8	Providing and Displaying of Alternanthera species (red leaves) plant of height 15 cm to 20 cm, full of branches and foliage in 15 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge.	1628	nos			
		14035				
16	Flooding the ground with water including making kiaries and dismantling the same.	31.0006	100sq m			
	Sub Total					
D	PLAY INSTRUMENTS					
1	WAVEY SLIDE	1	Nos.			
2	BIKE RIDER	1	Nos.			
3	HORSE RIDER	1	Nos.			
4	BIRD RIDER	1	Nos.			
5	SEE SAW 4 SEATER	2	Nos.			
6	TWO SEATER PUPPY DOG RIDER	1	Nos.			
7	MERRY GO ROUND	1	Nos.			
8	MULTI PLAY SYSTEM (WITH SWING)	1	Nos.			
9	MERRY GO HIP HOP	1	Nos.			
10	ZIPPY SPINNER	1	Nos.			
11	MULTI PLAY SYSTEM(WITHOUT SWING)	1	Nos.			
	TOTAL					
E	IRRIGATION WORKS					
1	Earth work in excavation for pipe trench in all kinds of soil and WBM in areas including dressing, watering and ramming and disposal of excavated earth lead up to 50 meters and lift upto 1.5m, disposal earth to be leveled, neatly dressed	170	Cum			
2	Providing, laying and joining following U. P.V.C. pipes with solvent cement joint for 10kg/cm2 pressure including testing of joints, cost of jointing materials etc. complete in all respect.					
2.1	50mm	500	m			
2.2	25mm	270	m			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
3	Filling with moorums for pipe bedding or over the pipe including supply of moorum	60	Cum			
4	Filling available excavated earth in trenches, plinth sides of foundation in layers not exceeding 20cm in depth including consolidation of each layer by ramming watering, lead up to 50m and lift up to 1.5m in all kinds of soils.	100	Cum			
5	Supply and installation of following drip emitters including required length of 13mm of LDPE drip tube with stakes at every 3m c/c and all barbed fittings etc.					
5.1	Single outlet 1/2 gph pressure compensatory drip emitter	8000	Nos.			
5.2	Multi outlet 6 no x 1 gph pressure componsetory drip emitter	300	Nos.			
6	Supply and installation of 2" Ball Valve (pressure 10.0 bar), with union joints in HDPE Valve Box	2	Nos.			
7	25 mm quick coupling valve (Red Brass and Steel) assembly in HDPE 10" valve box including all fittings to the pipe network	12	Nos.			
8	Supply of 1.5" Disc filter (130 micron filtration) (10.0 bar rating)(10-14 m3/hr)	1	Nos.			
9	Supply of air release valve 2"(10.0bar rating)	2	Nos.			
10	Supply of pressure release valve 2" (10.0 bar ratings	1	Nos.			
11	Providing and laying mechanically mixed cement concrete(M15 grade) 20mm maximum size with graded crushed stone including cost of shuttering	3	Cum			
12	Fitting and accessories	1	Lot			
13	Installation, testing and commissioning	1	Lot			
	SUB TOTAL					
F	FILTRATION & FLOATING FOUNTAIN					
S.N o.	Item Description	Qty.	UOM			
F-1	Providing, fixing, testing & commissioning of Filtration System for Musical Fountain(All items shall be approved by Engineer In-Charge, before installation. Items shall include all accessories required for the item for their proper functioning, no extra payment shall be given for any such item).					

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
1	Providing, fixing, testing & commissioning of Filters					
1.1	Sand/Bio Filter Bobbin Wound with Manhole Sight Glass (K2000) 2000mm dia, flow 125 m ³ /hr. MOC-Fibreglass, Working Pressure- 2.5kg/cm ² , inlet-6" & Outlet-6"	4	No.			
1.2	Sand for Sand Filter (SIZE 16/32 Mesh)	15200	Kg			
2	Providing, fixing, testing & commissioning of Pumps					
2.1	Pump 15HP Dry Monoblock 3 phase (KDS 1537/100x100)	4	No.			
2.2	POT Stainer 100mm MOC PP & ABS	4	No.			
2.3	Anti Vibration Pad - Big	16	No.			
2.4	Base Frame for Dry Pump MOC - MS (Large)	4	No.			
2.5	Main Drain Cover 300x300mm (ABS White)	4	No.			
3	Providing, fixing, testing & commissioning of Chlorine/ Bromine Dosing Unit					

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
3.1	Chlorine/ Bromine Dosing Unit (IN-LINE Feeder)	1	No.			
4	Providing, fixing, testing & commissioning of Floor inlet fittings					
4.1	Floor Inlet Nozzle (ABS) Adjustable	80	No.			
5	Providing, fixing, testing & commissioning of Control Panel made of 16 gauge CRC/MS sheet fabricated with epoxy powder coated with Amp Meter,Volt Meter,MCB's,Push Buttons,Isolator,Indicators,Panel Incomer with MCB's, Neutral Link, Starter for pumps with Contactor, Over Load Relay etc. (Panel should be Complete in all respect)	1	No.			
6	Providing, fixing, testing & commissioning of pipes (uPVC pipe-10kg. Pressure) & Fittings (Heavy) including all fittings and consumables.					
6.1	uPVC Pipe OD 160 (10 Kg.)	432	Mtr.			
6.2	uPVC Pipe OD 50 (10 Kg.)	72	Mtr.			
7	Providing & fixing of Valves, fittings etc of required size					
7.1	Butterfly Valve 150mm NB Flange Type (CI)	12	No			
7.2	NRV - 150mm CI Body Flange - Type	8	No			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
7.3	Brass Ball Valve 40mm	3	No			
7.4	NRV - 40mm CI Body Flange - Type	1	No			
8	Providing & fixing of Wires/cables of various sizes including necessary accessories					
8.1	Wire 6mm Three Core (Flat)	80	Mtr.			
9	Providing and fixing of conduits, bends, fittings etc. of required size					
9.1	PVC Conduit 40mm	100	Mtr.			
	Sub Total					
F-2	Providing, fixing, testing & commissioning of Filtration System for Musical Fountain(All items shall be approved by Engineer In-Charge, before installation. Items shall include all accessories required for the item for their proper functioning, no extra payment shall be given for any such item).					
	-Jet height 20m					
1	Providing, fixing, testing & commissioning of Nozzles					
1.1	2 Ring Cluster Casade 100/6 (1/50+5/40) MOC-Cast Bronze & Machined Brass	8	No.			
2	Providing, fixing, testing & commissioning of Lights					

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
2.1	S36C Submersible LED Color Change Light 36W (12x3W LED's) IP-68, CE certification approval	48	No.			
2.2	Control Module for S36C RGB Lights	8	No			
3	Providing, fixing, testing & commissioning of Pumps					
3.1	Pump 15Hp Submersible 3 Phase (OSS15.2/100x100)	8	No.			
4	Providing, fixing, testing & commissioning of FRP Floats					
4.1	Float for Floating Fountain FRP	8	No.			
4.2	Float Insert FRP	24	No.			
4.3	SS Skid for Floating fountain complete with Manifold	8	No.			

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
5	Providing, fixing, testing & commissioning of Control Panel made of 16 gauge CRC/MS sheet fabricated with epoxy powder coated with Amp Meter,Volt Meter,MCB's,Push Buttons,Isolator,Indicators,Panel Incomer with MCB's, Neutral Link, Starter for pumps with Contactor, Over Load Relay & Space for power supply/transformer/control module for lights (Panel should be Complete in all respect)	8	No.			
6	Providing & fixing of PIPES, Valves, fittings etc of required size					
6.1	GI Pipe 4" B Class	16	Mtr.			
6.2	FRP Anchor for Floating Fountain	16	No.			
7	Providing & fixing of Wires/cables of various sizes including necessary accessories					
7.1	Wire 6mm Three Core (Flat)	800	Mtr.			
7.2	Wire 2.5mm Four Core (Round)	800	Mtr.			
7.3	SS Rope Wire 2MM Soft (SS 304)	80	Mtr.			
8	Providing and fixing of conduits, bends, fittings etc. of required size					
8.1	PVC Conduit 40mm	800	Mtr.			
	Sub Total					
G	Operation and Maintenance (5YEARS)					

S.N	Particular	Quantity	Unit	Rate (INR)		Amount (INR)
				In Figures	In Words	
1	Comprehensive Operation & Maintenance including all supply of accessories, chemicals, human resource, machine and equipment, repair works and day to day activities for the period of 5 (Five) Years post completion of project	1	(for five years)			
Total Estimated Cost of Project						

LETTER OF ACCEPTANCE (LOA)

No. _____

Dated: _____

To,

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 GSCDCL at your quoted bid for each item total of which amounting to Rs. on the bill of quantities of RFP document.

You are requested to submit the following 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 (In prescribed format as per Annexure – J) being 5% of the accepted quoted cost. The performance security shall be in the shape of Term Deposit Receipt/ Bank Guarantee of any nationalized / schedule commercial bank valid up to Contract Period plus 180 (one hundred and eighty) days.
- b. The Additional Performance Security/ Additional Performance Guarantee of Rs. _____ (in figures) (Rupees _____ in words) only. (In prescribed Format as per Annexure – J) The Additional Performance Security shall be in the shape of Term Deposit Receipt/ Bank Guarantee of any nationalized / schedule commercial bank valid up to Contract Period plus 180 (one hundred and eighty) days.
- c. Duly signed Contract as prescribed in Section - 3

Please note that the time allowed for carrying out the work as entered in the bid is 7 months including/ excluding rainy season, shall be reckoned from the date of signing of the Contract Agreement.

Signing the contract shall be reckoned as intimation to commencement of work and no separate letter for commencement of work is required.

Therefore, after signing of the contract, the Contractor is directed to contact Engineer-in-charge for taking the possession of site and necessary instructions for starting the work.

Yours faithfully,

**Executive Director
Gwalior Smart City Development Corporation Limited**

PERFORMANCE SECURITY

To

Executive Director

Gwalior Smart City Development Corporation Limited

_____ [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] (herein after called "the Contract").

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

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

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

We hereby waive the necessity of your demanding the said debt from the contractor before presenting us with the demand. We also state that you are no way required to justify the demand raised to us.

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

This Guarantee shall be valid until 180 (one hundred and eighty) days from the date of expiry of the Contract 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 total 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	Intentionally Deleted
11	Discoveries	32	Intentionally Deleted
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	B. Time Control	34	Payment certificates
13	Programme		E. Finishing the Contract
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16	Intentionally Deleted		F. Other Conditions of Contract
	C. Quality Control	37	Currencies
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18	Correction of Defects noticed during the Defect Liability Period	39	Compliance with Labour Regulations & Construction Safety
	D. Cost Control	40	Audit and Technical Examination
19	Variations - Change in original Specifications, Designs, Drawings etc.	41	Death and Permanent Invalidity of Contractor
20	Extra Items	42	Jurisdiction
		43	Monthly RA bills

A. General

1. DEFINITIONS

- 1.1 **Bill of Quantities:** means the priced and completed Bill of Quantities forming part of the Bid.
- 1.2 **BIS :** Bureau of Indian Standards.
- 1.3 **CEO :** means Chief Executive Officer of Gwalior Smart City Development Corporation Limited
- 1.4 **Completion:** means completion of the work as certified by the Engineer-in-Charge, in accordance with provisions of Contract.
- 1.5 **Contract:** means the Contract between GSCDCL and the Contractor to execute, complete and maintain the work. Agreement is synonym of Contract and carries the same meaning wherever used.
- 1.6 **Contract Data:** means the documents and other information which comprise of the Contract.
- 1.7 **Contractor:** means a person or legal entity whose bid to carry out the work has been accepted by the Employer.
- 1.8 **Contractor's bid:** means the completed bid document submitted by the Contractor to the Employer.
- 1.9 **Contract amount:** means the amount of contract worked out on the basis of accepted bid.
- 1.10 **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.
- 1.11 **Day:** means the calendar day.
- 1.12 **Defect:** means any part of the work not completed in accordance with the specifications included in the contract.
- 1.13 **Department:** means GSCDCL
- 1.14 **Drawings:** means drawings including calculations and other information provided or approved by the Engineer-in-Charge.
- 1.15 **Employer:** means **GSCDCL** 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 / her for specified functions. The word Employer/Government/Department wherever used denote the Employer
- 1.16 **Engineer/ Engineer in Charge:** means Engineer of PDMC/ Engineer appointed by GSCDCL
- 1.17 **Competent Authority :** means Chief Executive Officer, GSCDCL or any person authorized by CEO, GSCDCL
- 1.18 **GSCDCL:** GWALIOR SMART CITY DEVELOPMENT CORPORATION LTD, GWALIOR, M.P.
- 1.19 **Equipment:** means the Contractor's machinery and vehicles brought temporarily to the Site for execution of work.
- 1.20 **Government:** means Government of Madhya Pradesh.
- 1.21 **In Writing:** means communicated in written form and delivered against receipt.
- 1.22 **Material:** means all supplies, including consumables, used by the Contractor for incorporation in the work.
- 1.23 **PDMC:** means KPMG Advisory Services Private Limited in Consortium with Tractebel Engineering Private Limited have been appointed as the Project Development and Management Consultant (PDMC) by GSCDCL, Gwalior
- 1.24 **Schedule of Rates:** means, Schedule of Rates (SOR) of Urban Administration and Development Department, Government of Madhya Pradesh w.e.f. 10th May 2012 with upto date amendments.
- 1.25 **Superintending Engineer:** means Superintending Engineer of the Concerned Division of the MP, GSCDCL as the case may be.
- 1.26 **Stipulated date of completion:** means the date on which the Contractor is required to complete the work. The stipulated date/ period is specified in the Contract Data.

- 1.27 Specification:** means the specification of the work included in the Contract and any modification or addition made or approved by the Engineer-in-Charge.
- 1.28 Start Date:** means the date 14 (fourteen) days after the signing of agreement for the work.
- 1.29 Sub-Contractor:** means a person or corporate body who has a Contract (duly authorized by the Employer) with the Contractor to carry out a part of the construction work under the Contract.
- 1.30 Temporary Work:** means work designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the work.
- 1.31 UADD :** Urban Administration and Development Department
- 1.32 Variation:** means any change in the work which is instructed or approved as variation under this contract.
- 1.33 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
3. Conditions of Contract:
 - i. Part I General Conditions of Contract and 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
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 on the address or contact details given by the Contractor in [Annexure F of ITB]. The address and contract details for communication with the Employer/Engineer shall be as per the details given in Contract Data. Communication between the 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 value not more than amount specified in the Contract Data with following conditions.

- a. The Contractor may subcontract up to 25 (twenty five) percent of the contract price, only with and after the approval of the Employer in writing, but will not assign the Contract. Subcontracting shall not alter the Contractor's obligations.
- b. The following shall not form part of the sub-contracting:
 - i. hiring of labour through a labour Contractor
 - ii. the purchase of Materials to be incorporated in the works
 - iii. hiring of plant and machinery
- c. The sub-contractor will have to be registered in the **appropriate category** in the centralised registration system for Contractors of the Government of Madhya Pradesh.

6. Personnel

6.1 The Contractor shall employ for the construction work and routine maintenance the technical personnel as provided in the Annexure G-2 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 3 (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 attributed 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 attributed 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 12 (**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 of 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 and/or information submitted by the Contractor shall be the responsibility of the contractor alone, notwithstanding the fact that designs/ drawings or other documents have been approved by the department.
- 8.3** The Successful Bidder should comply with all applicable laws and rules of Government of India/ Government of Madhya Pradesh/ Urban Local Bodies.
- a. The Successful Bidder shall also ensure that all manpower deployed by it shall be given mandatory weekly off and payments as required under the applicable laws. However, no separate payments will be made by the GSCDCL for working on Sundays, festivals and other holidays. The work has to be carried out 365 days a year.
 - b. The Successful Bidder shall be solely responsible for complying with all statutory provisions relating to manpower engaged for this contract and in the event of any liability on GSCDCL by virtue of its being principal employer due to failure of the Successful Bidder to comply with all applicable laws, the Successful Bidder shall indemnify and reimburse the amount payable to GSCDCL on this account.
 - c. If any accident, any injury or physical harm to any person is caused during operations within the contract period of the Successful Bidder, the Successful Bidder shall be solely responsible and shall bear all the cost associated with such eventualities. The Successful Bidder also agrees and undertakes to indemnify and keep indemnified GSCDCL, its directors/ employees/ agents.

9. Liability for Accidents to Person

The Contractor shall be deemed to have indemnified and saved harmless the Government and/or the employer, 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, fix, test, and commission 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 as per best Engineering practice or as directed by Engineer-In-Charge. In the event of any disparity between the written specifications and BIS provisions, the provisions in BIS shall prevail.
- 10.3** The Contractor shall supply and take upon himself the entire responsibility of the sufficiency of the scaffolding, timbering, machinery, tools implements and generally of all means used for the fulfilment of this contract whether such means may or may not approved of or recommended by the Engineer. Any delay caused due to insufficiency of supply of aforesaid items is sole responsibility of the Contractor, for which Contractor shall be liable for damages or consequences as mentioned in the Contract.
- 10.4** The Contractor shall be solely liable for execution of Works in accordance with the prescribed timelines. It is clarified that this Work is a man and material job and accordingly, the supply of requisite materials is also the responsibility of the Contractor. In case there is any delay in supply of materials, no extension of time shall be allowed on this account. In case such a delay leads to default in Milestones provided in Clause 40, the Contractor shall be responsible for such delay and shall be liable to pay liquidated damages under clause 41 and shall be liable for any other action as prescribed under the Contract.

11. Discoveries

Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of GSCDCL. 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 issue of dispute can be raised after 45 (forty five) days of its occurrence. Any dispute raised after expiry of 45 (forty five) days of its first occurrence shall not be entertained and GSCDCL shall not be liable for claims arising out of such disputes.
- 12.3 The **Competent Authority** shall decide the matter within 45 (forty five) days.
- 12.4 Appeal against the order of the Competent Authority can be preferred within 30 (thirty) days to the Appellate Authority as defined in the Contract data. The **Appellate Authority** shall decide the dispute within 45 days.
- 12.5 In the case of dispute arising, upon or in relation to, or in connection with the contract between GSCDCL and the Successful Bidder, which has not been settled amicably, any party can refer the dispute for Arbitration under the (Indian) Arbitration and Conciliation Act, 1996. Such disputes shall be referred to an Arbitral Tribunal consisting of three arbitrators, one each to be appointed by the GSCDCL and the Successful Bidder, the third arbitrator shall be chosen by the two arbitrators so appointed by the parties and shall act as Presiding Arbitrator. In case of failure of the two arbitrators, appointed by the parties to reach a consensus regarding the appointment of the third arbitrator within a period of 30 (thirty) days from the date of appointment of the two arbitrators, the Presiding arbitrator shall be appointed by the CEO, GSCDCL. The Arbitration and Conciliation Act, 1996 and any statutory modification or re-enactment thereof, shall apply to these arbitration proceedings.
- Arbitration proceedings shall be held in Gwalior, India and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English. The decision of the majority of arbitrators shall be final and binding upon both parties. The expenses of the arbitrators as determined by the arbitrators shall be shared equally by GSCDCL and the Successful Bidder. However, the expenses incurred by each party in connection to the preparation, presentation shall be borne by the party itself. All arbitration awards shall be in writing and shall state the reasons for the award.
- 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 in the Works.
- 13.2 The programme 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, along with the Programme
- 13.3 An update of the Programme shall be 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 its having been unavoidably hindered in its execution or on any other grounds, it shall apply, in

writing, to the Engineer-in-charge, on account of which it 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 -7 or clause- 15 of this agreement.
- 14.3 In case of the work 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 timelines mentioned in the contract data the Engineer-in-charge shall retain from the bills of the Contractor amount equal to the liquidated damages to be levied until the Contractor makes such delays good. However, the Engineer-in-charge may 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 liquidated damages levied.
- 15.8 GSCDCL shall not be liable for any claim or damages for escalation of price of work under Contract, and such escalation shall not be a ground for not performing the obligation of Contractor.

C. Quality Control

17. Tests

- 17.1 The Contractor shall be responsible for:
- a. Carrying out the tests prescribed in specifications shall be got carried out through Laboratories accredited by National Accreditation Board of Laboratories (NABL) by the Engineer-In –Charge at the cost of the Contractor or such testing charges will be borne by the employer and will be recovered/deducted from the payments due to the Contractor.
 - b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.

18. Correction of Defects noticed during the Defect Liability Period

- 18.1 The defect liability period of work in the contract shall be for a period of 5 (five) years after the completion of the work
- 18.2 The Contractor shall promptly rectify all defects pointed out by the Engineer well before the end of the Defect Liability Period. The Defect Liability Period shall automatically stand extended until the defect is rectified.
- 18.3 If the Contractor has not corrected a defect pertaining to the Defect Liability Period to the satisfaction of the Engineer, within the time specified by the Engineer, the Engineer will assess the cost of having the defect corrected, and the cost of correction of the defect shall be recovered from the Performance Security or any amount due or that may become due to the Contractor and other available securities.

D. Cost Control

19. Variations - Change in Original Specifications, Designs, and Drawings etc.

19.1 The Engineer-in-charge shall have power to make any alterations, omissions or additions to or substitutions for 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 Employer, 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 it had agreed to do the main work.

19.2 The time for the completion of the Work shall be extended in the proportion that the altered, additional or substituted work bears to the original contract work and the certificate of the Engineer –in-charge shall be conclusive as to such proportion.

20. Extra items

20.1 All such items which are not in the priced Bills of Quantities (BOQ) shall be treated as extra items.

21. Payments for Variations and / or Extra Quantities

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

- a. The Contractor is bound to carry out the additional (Extra quantity) work 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 Schedule of Rate (SOR) of the department, the rate shall be arrived as per SOR rate plus the price escalation up to 2017-2018.
- c. If the rates of 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 which are 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 approved by Engineer in charge
- e. If the rates of 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 (e). In case the Contractor does not accept the rate approved by 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 Government, 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 the whole or any part of the work.

22.2 In case of escalation of price or expenses of work under Contract for whatsoever reason, GSCDCL shall not be liable to make payment of claims and damages.

22.3 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.

22.4 The Engineer-in-charge may supplement the work by engaging another agency to execute such portion of the work, without prejudice to its rights.

23. No Interest Payable

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

24. Recovery from Contractors

Whenever any claim against the Contractor for the payment arises under the contract, the Department shall 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/ arrangement 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 all applicable taxes of Central and State Governments, local bodies and authorities.
- 25.2 The liability, if any, on account of quarry fees, royalties, octroy and any other taxes and duties in respect of materials actually consumed on public work, shall be borne by the Contractor.
- 25.3 Any increase in price due to 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 GSCDCL 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 judgement 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 (fourteen) days' written 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-in-Charge 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, the Engineer-in-Charge 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 Bid data sheet at the time of signing of the contract. The contractor shall have to ensure that such performance security and Additional performance, if a security remains valid for the period as specified in the Contract data.

30. Security Deposit

30.1 Security deposit shall be deducted from the each running bill at the rate as specified in the contract data. The maximum limit of deduction of security deposit will be up to 5 % of Final contract amount.

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 180 (one hundred and eighty) days from the date of expiry of the Contract Period.

30.3 The Security Deposit shall be refunded on completion of contract period.

31. Deleted

32. Deleted

33. Deleted

34. Payment Certificates

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

(a) The contractor shall submit to the engineer monthly statement of the value of the work executed less the cumulative amount certified previously, supported with detailed measurement of the items of work executed as per the Billing Break-up in section 4.

(b) The Engineer-in-Charge 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 in charge.

(d) The value of work executed shall comprise the value of the quantities of the items in the Billing Breakup given in Section 4.

(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-in-Charge 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 General Conditions of Contract.

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-in-Charge with a detailed account of the total amount that the Contractor considers payable for works under the Contract within 21 (twenty one) days of issue of certificate of physical completion of works. The Engineer-in-Charge shall issue a Defects Liability Certificate and certify any payment that is due to the Contractor within 45 (forty five) days of receiving the Contractor's account if it is correct and complete. If the account is not correct or complete, the Engineer-in-Charge shall issue within 45 (forty five) 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 (twenty one) days of issue of Certificate of Completion as provided in clause 35.1 above, the Engineer shall proceed to finalize the account and issue a payment certificate within 28 (twenty eight) days of issue of Certificate of Completion.

G. 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-in-Charge, deliver to the Engineer-in-Charge a return in detail, in such form and at such intervals as the Engineer-in-Charge 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-in-Charge may require.

39. Compliance with Labour Regulations and Construction Safety

- 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 there 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/ bylaws/ Acts/ Rules/ regulations including amendments, if any, on the part of the Contractor, the Engineer/ Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/ Engineer-in-Charge 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.

- I. The Contractor or its sub-Contractors shall be solely responsible for complying with all statutory provisions relating to manpower engaged by, for, or through them. In the event of any liability on GSCDCL by virtue of its being principal employer due to failure of the Contractor or its sub-Contractors to comply with all applicable labour legislations, the Contractor and its sub-Contractors Bidder shall indemnify and/or reimburse the amount payable by GSCDCL, if any on this account.
- II. If any accident, any injury or physical harm to any person is caused during operations within the contract period, the Contractor and its sub-Contractors, as the case may be the Contractor sub-Contractors shall be solely responsible and shall bear all the cost and consequences' associated with such eventualities. The Contractor and its sub-Contractors also agrees and undertakes to indemnify and keep indemnified GSCDCL, its directors/ employees/ agents and its consultants.

39.2 Construction Safety

The Contractor should be well conversant with technical as well as administrative and legal aspects of safety and judicial pronouncement. The Contractor shall all times take all reasonable precautions and safety measures to maintain safety of personnel and property. The Contractor shall, at its own expenses and throughout the period of the contract ensure appropriate and suitable arrangements for health, safety and hygiene requirements for the surroundings. The State and Central Government prevailing all Statues in this regard must be complied in letter and spirit throughout the period of contract.

40. Audit and Technical examination

Government shall have the right to cause an audit and technical examination of the works and the final bill of the contract including all supporting vouchers, abstract etc. to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the Contractor under the contract or any work claimed by him to have been done under the contract and found not to, have been executed, the Contractor shall be liable to refund the amount of overpayment and it shall be lawful for GSCDCL 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 GSCDCL to the Contractor.

41. Death or permanent invalidity of Contractor

During continuance of the contract, the Contractor and its 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 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/ by laws/ Acts/ Rules regulations including amendments, if any, on the part of the Contractor, the Engineer-in-Charge /Employer shall have the right to deduct from any money due to the Contractor including his amount of performance of security. The Employer/ Engineer-in-Charge 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.

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 exclusive jurisdiction of the courts in Gwalior or in the courts at the place where this contract is entered into. No other jurisdiction shall be applicable.

43. Monthly Running Account (RA) Bills

The payment certificates shall be regulated as per the provisions of clause 34 of the contract.

- 43.1 Upon the signing of agreement the Engineer-in-Charge shall decide the date of submission of monthly statement (RA Bills) as mentioned in clause 34 (a)
- 43.2 The Engineer-in-Charge shall check the Contractor's monthly statement (RA Bills) and certify the amount to be paid to the Contractor within 7 days of submission of monthly statement (RA Bills).
- 43.3 The Employer shall ensure the payment to the Contractor as per clause 34 (d), (e), (f) & (g) within 30 (thirty) days of submission of monthly statement (RA Bills).

[End of GCC]

Contract Data

Clause reference	Particulars	Data
1.14	Employer	GWALIOR SMART CITY DEVELOPMENT CORPORATION LIMITED
1.15	Engineer / Engineer in charge	Engineer as notified by Employer
1.25	Stipulated period of completion	7 months including rainy season
3	Language and Law of Contract	English and Indian Contract Act 1872
4	Address & contact details of the Contractor	As per Annexure F
	Address & contact details of the Employer/Engineer-phone, Fax, E-mail.	_____
5	Subcontracting permitted for contract value	25% of the Contract value
6	Technical Personnel to be provided by the contractor – Requirement & Deployment Committed	As per Annexure G-2
	Penalty, if required Technical personnel not employed	As per Annexure G-2
1.26	Specifications	Annexure D
	Drawings	Attached Separately
1.16	Competent Authority for deciding dispute under Dispute Resolution System	Executive Director, GSCDCL
	Authority for deciding dispute under Dispute Resolution System	Executive Director (GSCDCL)
13	Period of submission of updated construction program	15 days upon signing the Agreement and every month thereafter
	Amount to be withheld for not submitting construction program in the prescribed period	0.20% of the Contract Amount
14	Competent Authority for granting Time Extension	Appropriate authority within the GSCDCL after scrutiny and recommendation by Chief Executive Officer
13	Milestones laid down for the contract	-
	If Yes, details of milestones	As per Annexure K
	Liquidated Damages	As per Annexure L
18	Defect Liability Period	5 years after physical completion of work

Clause reference	Particulars	Data
15	Penalty	Penalty shall be recovered from (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	180 Days from the date of expiry of the Contract Period.
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, Security Deposit will be returned after successful completion of Defect Liability Period (DLP).

Clause reference	Particulars	Data
35	Completion certificate- After physical completion of the work	As per Annexure – M
	Final Completion Certificate – after final payment on completion of the work	As per Annexure – N
39	39.1 Salient features of some of the major labour laws that are applicable	As per Annexure – O
	39.2 Salient features of some Construction Safety laws that are applicable	As per Annexure – P

DETAILS OF MILESTONES

The time allowed for the carrying out the work as detailed below:

7 (seven) months including rainy season for construction and thereafter 5 (five) years of operation and maintenance period shall be strictly observed by the Contractor and shall be deemed to be essence of the contract and shall be reckoned immediately from the date of signing of Agreement to commence the work issued to the Contractor.

The time allowed for the carrying out the work, as entered in the bid shall be strictly observed by the Contractor and shall be deemed to be essence of the contract and shall be reckoned immediately from the date of issue of the order to commence the work issued to the Contractor.

The work shall, throughout the stipulated period of contract, be proceeded with all due diligence keeping in view that time is the essence of the contract. The Contractor shall be bound in all cases, to complete

- 1/8th of the whole work before 1/4th of the whole time allowed under the contract has elapsed,
- 3/8th of the work before 1/2 of such time has elapsed
- 3/4th of the work before 3/4 of such time has elapsed.

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 construction – 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 not be considered in delay calculation. The slippage on any milestone 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 due to reasons other than 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 maximum of 10% of contract price.

The decision of Engineer in Charge will be after scrutiny and recommendation by Chief Executive Officer, GSCDCL shall be final and binding upon both the parties.

Physical Completion Certificate

Name of Work:

Agreement No. _____ Date _____

Amount of Contract Rs _____

Name of Agency: _____

Used Measurement Book 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

Engineer-in-charge

Final Completion Certificate

Name of Work:

Agreement No. _____ Date: _____

Name of Agency: _____

Used Measurement Book No. _____

Last Measurement recorded

b. Page No. & MB No. _____

c. Date _____

Certified that the above mentioned work was physically completed on _____ (date)

And taken over on _____ (date).

Agreement amount Rs. _____

Final amount paid to contractor Rs. _____

Incumbency of officers for the work

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

Date of Issue

Engineer-in-charge

Salient Features of Some of the applicable Labour Laws

- (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 Provident Funds 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 provident fund accumulation on retirement/death etc.
- (d) Maternity Benefit Act 1951: - The Act provides for maternity benefit and some other benefits to women employees.
- (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.
- (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, Travelling expenses from home up to the establishment and back etc.
- (o) Building and Other Construction Workers' Welfare Cess Act, 1996 and the Building and other Construction workers (Regulation of Employment and Conditions of Service) Act, 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.

CONSTRUCTION SAFETY

- 1) IS: 3696(Part-1, 2) Safety code for scaffolds and ladder
- 2) IS: 3764 Safety code for excavation work
- 3) IS: 7205 Safety code for erecting of structural steel work
- 4) SP: 70-2001 Handbook on Construction Safety Practices

1. On all excavation work, safety precautions for the protection of life and property are essential: While measures to avoid inconveniences to the public are desirable. Such measures and precautions include the erection and maintenance signs (to forewarn public), barricades, bridges, and detours: placing and maintenance of lights both for illumination and also as danger signals, provision of watchmen to exclude unauthorized persons particularly children, from trespassing on the work: and such other precautions as local conditions may dictate.

2. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to $1(\frac{1}{4}$ horizontal and 1 vertical.)

3. Scaffolding of staging more than 3.6 m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

4. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6m (12 ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.

5. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm. (3ft.)

6. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. ($11\frac{1}{2}$ "") for ladder up to and including 3 m. (10 ft.) in length. For longer ladders, this width should be increased at least $\frac{1}{4}$ " for each additional 30 cm. (1 foot) of length. Uniform step spacing of not more than 30 cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The Contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defense of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit; action or proceedings to any such person or which may, with the consent of the Contractor, be paid to compensate any claim by any such person.

7. (a) Excavation and Trenching - All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30 m. (100 ft.) in length or fraction thereof, Ladder shall extend from bottom of the trench to at least 90 cm. (3ft.) above the surface of the ground. The side of the trenches which are 1.5 m. (5ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m. (5ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.

(b) Safety Measures for digging bore holes:-

- (i) If the bore well is successful, it should be safely capped to avoid caving and collapse of the bore well. The failed and the abandoned ones should be completely refilled to avoid caving and collapse;
- (ii) During drilling, Sign boards should be erected near the site with the address of the drilling contractor and the Engineer in-charge of the work.

- (iii) Suitable fencing should be erected around the well during the drilling and after the installation of the rig on the point of drilling, flags shall be put 50m all-round the point of drilling to avoid entry of people;
- (iv) After drilling the bore well, a cement platform (0.50m x 0.50m x 1.20m) 0.60m above ground level and 0.60m below ground level should be constructed around the well casing;
- (v) After the completion of the bore well, the Contractor should cap the bore well properly by welding steel plate, cover the bore well with the drilled wet soil and fix thorny shrubs over the soil. This should be done even while repairing the pump;
- (vi) After the bore well is drilled the required area should be brought to the ground level.

8. Demolition - before any demolition work is commenced and also during the progress of the work,

- (i) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
- (ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.
- (iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.

9. All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the Contractor should take adequate steps to ensure proper use of equipment by those concerned. The following safety equipment shall invariably be provided:--

- (i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles
- (ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
- (iii) Those engaged in welding works shall be provided with welder's protective eye shields.
- (iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- (v) When workers are employed in sewers and manholes, which are in active use, the Contractors shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the Contractor shall ensure that the following safety measure are adhered to:-

(a) Entry for workers into the line shall not be allowed except under supervision of the JE or any other higher officer.

(b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.

(c) Before entry, presence of Toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.

(d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with Oxygen kit.

(e) Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.

(f) The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.

(g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.

(h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.

(i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge may decide the time up to which a worker may be allowed to work continuously inside the manhole.

(j) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.

(k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non sparking gas engines also could be used but they should be placed at least 2 meters away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.

(l) The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.

(m) The workers shall be provided with Gumboots or non-sparking shoes, bump helmets and gloves, non-sparking tools, safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.

(n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.

(o) If a man has received a physical injury, he should be brought out of the sewer immediately and Adequate medical aid should be provided to him.

(p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.

10. An additional clause of Safety Code

The Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:

(i) White lead, sulphate of lead or product containing these pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.

(ii) Measures shall be taken, wherever required in order to prevent danger arising from the application of a paint in the form of spray.

(iii) Measures shall be taken, wherever practicable, to prevent danger arising out of from dust caused by dry rubbing down and scraping.

(iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.

(v) Overall shall be worn by working painters during the whole of working period.

(vi) Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled by painting materials.

(vii) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical man appointed by competent authority.

(viii) The employer may require, when necessary medical examination of workers. (ix) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.

11. When the work is done near any place where there is risk of drowning, all necessary equipment should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.

12. Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following standards or conditions:-

(i) (a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order.

(b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.

(ii) Every crane driver or hoisting appliance operator, shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.

(iii) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load each safe working load and the condition under

which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.

(iv) In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-in-Charge. As regards Contractor's machines the Contractors shall notify the safe working load of the machine to the Engineer-in-Charge whenever he brings any machinery to site of work and get it verified by the Electrical Engineer concerned.

13. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

14. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.

15. To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the Contractor shall be open to inspection by the Engineer-in-Charge or their representatives.

16. Notwithstanding the above clauses from (1) to (14), there is nothing in these to exempt the Contractor from the operations of any other Act or Rule in force in the Republic of India.

SCOPE OF WORK FOR OPERATION AND MAINTENANCE AND PAYMENT TERMS AND CONDITIONS

Bidder shall be responsible for maintenance and proper upkeep of the Pond for a period of 5 (five) years from the date of handing over of the completed Pond. The activities to be carried out by the bidder during the five year O&M period shall include but not limited to the following:

- Remove trash, litter, broken glass, and debris from Pond grounds and play areas.
- Provide all routine services of Pond like trimming of trees and plants, maintaining lawns, irrigation work, providing manure, planting new plants and trees at the location of old and dead plants and trees, guarding and surveillance etc.
- Routine maintenance of submersible pumps, painting of boundary walls, grills, gate, poles, and other MS structures, pathways, etc. as and when required.
- Painting of play and gym equipments to prevent splintering and to replenish play area surface material.
- Empty all trash receptacles and replace liners. All trash must be disposed of at the expense of the Contractor.
- Operation and maintenance of Filtration Unit including supply of all chemicals and disinfectant, lubricants etc.
- Operation and maintenance of Floating Fountain and day to day repair etc.
- Keep all trash enclosures clean.
- Remove all graffiti found on Pond area, i.e., benches, sidewalks, playground equipment, poles and fences etc.
- Sweep or blow sidewalks, curb and gutters, and Pond's parking lots.
- Inspect all playground & Gym equipment and immediately remove and replace any unsafe or broken equipment.
- Replace any broken sprinklers, plugged or leaking drinking fountains, or any wet or dry areas.
- Skim and remove all debris from pond/water body.
- Remove limbs and piles of palm fronds found fallen onto Pond grounds.
- Report any unlawful activities to Gwalior Police Department.
- Report any unleashed, roaming, or dead animals to respective department.
- All cleaning products, toilet paper, equipment shall be purchased by Contractor and is part of the bid.
- All amenities shall be cleaned, sanitized and disinfected. Cleaning shall include sinks, toilets, urinals, floors, walls and ceilings. The use of aromatic disinfectants is required and is to be at the Contractor's expense.
- Replace toilet paper as needed and all dispensers must be filled as and when required.
- Toilet paper dispensers shall be inspected for quantity levels and needs.
- Replace all broken or burnt out light bulbs and rotten bollards as needed with correct wattage bulbs at the Contractor's expense.

- Repair any leaking or broken toilets, urinals, or sinks.
- Unplug clogged toilets, urinals, sinks, or drains.
- Remove any dirt, wood chips, rocks, leaves, and any other debris.
- Remove all advertisements, stickers, etc. from the Pond boundary area.
- Inspect and replace or repair any damaged or broken items or equipment.
- Repair and maintain all equipment like filtration unit, piping, floating fountain, fountain lighting, floats, nozzles, pumps etc. to the satisfaction of client.
- Repair and maintain all stone works including Baradri, Feature Wall, Paving, Claddings etc. to their original state i.e. after completion situation.

SPECIAL NOTE

- Contractor shall be responsible for all custodial supplies, i.e. toilet paper, disinfectants, trash can liners, cleaners, brushes, brooms, chemical for filtration unit , Chlorine, lubricant and any other equipment required to do the services required of this bid and scope of work.
- Clothing must be appropriate and in good condition. It is the Contractor's responsibility to make sure their employees are in working condition and not under any influence of drugs or alcohol.
- Equipment must be in good working order and in clean and safe condition.
- The scope will start from the date of handing over of the redeveloped Pond.
- At the end of the five year of O&M period the Pond shall be handed over to the GSCDCL in the same condition as on the date of start of the O&M period with all facilities, equipments, amenities, to the satisfaction of the GSCDCL.
- No part of the Pond shall be used by the Bidder for his personal use.
- Service level terms and conditions shall be provided to the Bidder at the beginning of O&M period.

PAYMENT TERMS AND CONDITION OF OPERATION AND MAINTENANCE

- 1) The Contractor is bound to operate and maintain Katora Tal.
- 2) Subject to the clearance of the Engineer in Charge the payment of operation and maintenance work will be done on quarterly basis and on equal installment for each quarters (Total – 20 quarters in 5 years).
- 3) Contractor shall submit the invoice and approved worksheet for payment that shall be paid within 30 (thirty) days from the date of receipt of invoice subject to all the relevant documents and clearances (including that of Engineer in Charge) is in place.
- 4) In case of non-performance of the Contractor, to the satisfaction of the GSCDCL/ Engineer in Charge or non-compliance to the service level or in case the Contractor withdraws himself from operation and maintenance activity, GSCDCL shall recover the expenses from any amount due to Contractor including the forfeiture of performance security and any other action under the applicable laws.

Defect Liability Conditions

- The initial period of 5 (five) years after physical completion of work shall be treated as Defect Liability Period (DLP)
- During this period, GSCDCL, who decides whether they are defects or whether they are in fact maintenance issues, reports any defects that arise to the contractor, then the contractor shall make them good within a reasonable time.
- All works shall be carried out as per details and specification of the items and as per the codal provisions and guidelines and standard practices to the satisfaction of Engineer in Charge and finding of any inferior work within defect liability period shall be repaired or compensated by the contractor on his risk and cost.
- Any compensation or litigation due to fire or chemical hazard and any mishappening due to inferior implementation of the project or due to negligence on part of the contractor shall be solely beard by the contractor during the defect liability period.
- If any service is found inferior and bidder is not able to rectify or reciprocate to the instruction of the client, client shall be at full liberty to get the work done from outside agency and bidder shall be responsible for all costs and client shall curtail the amount from the contractor's outstanding dues or if there is no sufficient outstanding dues remaining with the client then client shall raise the bill to the contractor for compensating the amount.
- Note: It is actually the contractor's responsibility to identify and rectify defects, not the GSCDCLs, so if the GSCDCL does bring defects to the contractor's notice, they should make clear that this is not a comprehensive list of all defects.
- At the end of the defects liability period, the contractor prepares a schedule of defects, listing those defects that have not yet been rectified, and agrees with the contractor the date by which they will be rectified. The contractor must in any event rectify them within a reasonable time.
- When the contractor considers all the items on the schedule of defects have been rectified, they issue a certificate of making good defects. This has the effect of releasing the remainder of any retention and results in the final certificate being issued.
- It is important to note that the defects liability period is not a chance to correct problems apparent at practical completion, it is a period during which the contractor may be recalled to rectify defects which appear. If there are defects apparent before practical completion, then these should be rectified before a certificate of practical completion is issued.

Section 3
Conditions of Contract
Part-II Special Conditions of Contract [SCC]

1. GENERAL:

The special conditions are supplementary conditions to the RFP and shall form the part of the contract.

- 1.1 It shall be the responsibility of Contractor to co-ordinate with traffic authority, railways, MPRDC, M.P. Electricity Board, telephone authority, various authorities including public health engineering department, water resource department for obtaining necessary permissions regarding crossing of road/ railway tracks, shift of various types of public utilities like existing pipe line, sewer line, cable etc. as may be required for the due fulfillment of the obligations under this contract. GSCDCL shall deposit all charges including charges for Electric Connection, crossing of railway and road way etc. as may be necessary for seeking required permissions from different authorities but it shall be the primary responsibility of the Contractor to pursue with various authorities and obtain the permissions at the earliest. If as a result of excavation of trenches the underground services such as water main electric telephones cable, sewer lines become naked and unsupported it shall be the responsibility of the Contractor to make suitable and necessary arrangement as per direction of the Engineer-in-Charge for their protection and no extra payment on this account will be made to the Contractor. Any damages caused to the above mentioned underground services due to negligence of the Contractor or otherwise the same shall be made good by the Contractor at its own cost.

2.0 Accuracy of Lines, Levels and Grades

- 2.1 The various works shall be done true to line, level and grade. The periodical checking of these by the Engineer or Engineer's representative shall not absolve the Contractor of its responsibility regarding the accuracy. In case of any deviation or discrepancy in line, level or grade at the meeting faces, the contractor shall make good the discrepancy at its own cost and without any compensation for the additional work, if any involved. Whenever such a discrepancy is found to arise at the junction of works being carried out by different Contractors the responsibility to set right their respective discrepancies shall be fixed by the Engineer-in-Charge whose decision shall be final and binding on the Contractors concerned. Engineer-in-Charge shall further have the unquestioned right if need be to rectify the discrepancies and recover the cost from the Contractor or Contractors according to proportions as he may consider reasonable.

- 2.2 The details of location and the nearest permanent bench marks.

Reference Grid Marks shall be obtained by the Contractor in writing from the Engineer-in-Charge. Temporary bench mark for day to day use shall be fixed with reference to above permanent bench marks with double leveling. The Grid Co-ordinates and its references may be obtained from the Engineer-in-Charge.

3.0 Arrangements of Water and Electric Power

Arrangement for water and electric power required by the Contractor for the works shall be made by him at its own cost. Employer will however recommend to the State Electricity Board for giving the connection and power to the Contractor. However, the Employer will bear no responsibility in this respect.

4.0 Measures for Prevention of Fire

- 4.1 The Contractor shall not set fire to any standing Jungle, trees, brush wood or grass without a written permission from the Engineer-in-Charge.
- 4.2 When such permission is given and also in all cases when destroying out of dug trees, brush wood, grass etc. by fire, the Contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property.
- 4.3 Any damage caused by the spreading of such fire, whether in or beyond limits of the Employer's property, the amount of the damage shall be recovered by the Engineer-in-Charge from the Contractor's Bills as damages or deducted by any other duly authorized officer from any sums that May be due or become due from the Employer to the Contractor under the contractor otherwise.

4.4 The Contractor shall bear the expenses of defending any action or law proceedings that may be brought by any person by injury sustained owing to neglect of precautions to prevent the spread of fire and shall pay any damage and cost that may be awarded in consequence.

5.0 Site Order Book

A site order book shall be kept at the Employer's office regarding the site of the work. As far as possible all orders regarding the works are to be entered in this book. All entries therein shall be signed by the Engineer-in-Charge on his representative and the Contractor or its authorized representative. In important cases the Engineer-in-Charge will countersign the entries which have been made. The site order book shall not be removed from the work site except with written permission of the Engineer-in-Charge and the Contractor or its representative shall be bound to take note of all instructions and directions meant for the Contractor as entered in the site order book without having to be called on separately to note them. The Engineer-in-Charge shall submit periodically copies of the remarks in the site order book to the Employer for record and to the Contractor for submitting compliance report.

6.0 Foundations Depth/ Levels.

The drawings indicate the general foundation levels to be adopted for the different conditions of the structures. During execution these levels may be modified to suit the site conditions. The Contractor shall not be liable to any compensation for any minor delays on this account. However, this may be considered for granting suitable extension in the completion period if necessitated by such events.

7.0 Approach Road

Necessary approach roads for various constructions of components of the work shall be satisfactorily constructed and maintained by the Contractor at its own cost.

8.0 Regulation and By-Laws

The Contractor shall conform to the regulations, bylaws or any other statutory rules made by any local authorities or by the Government and shall protect and indemnify the Employer against any claims or liability arising from or based on the violations of any such laws, ordinance, regulations, orders and decrees etc.

9.0 Contractor to use Excavated Hard Rock

All useful materials like hard rock etc. excavated by the Contractor at site shall be the property of Employer and shall be issued to the Contractor at the issue rate as decided by Engineer-in-Charge at prevailing market rate. It shall be binding on the Contractor to use it as rubble, metal aggregate etc. after breaking into the required size for concrete work and as directed by the Engineer.

10.0 Income Tax

During the course of contract period, deductions of Income Tax shall be made at the prevailing rate of Department of Income Tax, Government of India and as revised from time to time.

11.0 Supply and Arrangement of Materials

- (1) The Contractor shall make its own arrangement for supply of materials, equipment, pipes, electrical items including cement and steel. The Contractor shall be responsible for all transportation and safe storage of the materials at site or nearby area/ store and shall bear all related costs. The Engineer-in-Charge shall be entitled at any time to inspect or examine all such materials. The contractor shall provide reasonable assistance for such inspection or examination as may be required. The Contractor cannot escape from its obligation of performance of Contract within time frame on account of shortage or stoppage of supply, and
- (2) The Contractor shall keep an accurate record of use of materials like cement and steel used in the works in a manner prescribed by the Engineers.

12.0 Cement

- (a) The Contractor shall stock its requirement so as to ensure utilization of cement within 60 (sixty) days but in no case later than 90 (ninety) days. Cement older than the period aforesaid shall not be used on any work except with the written permission of the Engineer-in-Charge, and after satisfactorily passing such test as he may specify. The Contractor shall forthwith remove from the work such cement that Engineer-in-Charge has not allowed. The final disposal of such cement shall comply with the rules in force at the time and as the Engineer-in-Charge may approve
- (b) Large stocks of cement shall not be kept at the works but only sufficient quantities shall be kept to assure continuity of the work. The Contractor shall provide and maintain efficient water proof storage sheds for cement on the site of work. It shall be stacked on the platform 30 cm above the floor level and shall be covered with tarpaulin or any other impervious covering materials in order to protect the cement bags from moisture. The cement shall be neatly stacked in an orderly

manner so as to allow an easy access and count. The arrangement of storage and utilization shall be such as to ensure the utilization of cement in the order of its arrival at the stores and the Contractor shall maintain satisfactory records which would at any time show the date of receipt and proposed utilization of cement laying in the stores at site.

- (c) The Engineer-in-Charge shall at all times have access to the stores at sites of the Contractor. He shall have authority to check and examine the method of storage, record accounting and security provided by the Contractor. The Contractor shall comply with instructions that may be issued by the Engineer in this connection. The Contractor shall further at all times satisfy the Engineer-in-Charge on demand and by the production of records and books or submission of returns and proforma or by other proofs that may be demanded that the cement brought from the approved manufacturer with date of receipt & consumption etc. The Contractor shall at all times keep his records up to date to enable the Engineer-in-Charge to apply such checks as he may desire to impose.

The Contractor shall provide a double locking arrangement to the store the key of one of the locks being with the Engineer-in-Charge or his representative at site. The Engineer-in-Charge or his authorized agent will have the authority to verify the stocks and check the consumption in any manner he thinks proper.

13.0 Special Condition Regarding Conditional Bid

The Bidder will have to give an undertaking with the instrument of Earnest Money to the effect that there are no conditions in the RFP and if any conditions are found the same shall be ignored.

If such an undertaking is not found with the Earnest Money the bid will not be opened and not taken into consideration.

14.0 Design and Drawings

- (1) The detailed project report prepared by GSCDCL will be basic data for guidance of Contractor. The contractor will not claim whatsoever on account of deficiency in the data of detailed project report.

- (2) The approved drawings shall remain in the sole custody of the Engineer-in-Charge. The Contractor shall obtain and make at his own expense any further copies required by him. At the completion of the contract the Contractor shall return to the Engineer-in-Charge all Drawings provided under the Contract.

- (3) **One copy of the Drawings to be kept on Site.**

One copy of the Drawings furnished to the Contractor as aforesaid, shall be kept by the Contractor on the site and the same shall at all reasonable times be available for inspection and use by the Engineer-in-Charge and his representatives and by any other person authorized by the Engineer-in-Charge in writing.

- (4) **As- Built Drawings**

The Contractor shall submit to the Engineer-in-Charge within 21 (twenty one) days of Physical completion, "Completion" Drawings as detailed below. These drawings shall be accurate and correct in all respects and shall be shown to and approved by the Engineer-in-charge.

Completion drawings as below on two prints and one polyester copy shall be supplied by the Contractor along with a soft copy in CD. These drawings shall be developed in latest version of Auto-CAD. Drawings shall be of standard as stated below.

- I. Site plan showing all features existing and as constructed under this contract with all external dimensions of clear spaces among those, diameter and materials of pipeline etc. complete.
- II. Architectural, Civil and Structural details of all components including plans at different levels, elevations from all sides as well as sectional etc. complete with all dimensions including Structural Thickness, Concrete Grade, Reinforcement details, finishing details, schedules of doors and windows, details of associated fittings and features complete.
- III. All piping, plumbing and electrical details with dimensions, diameters etc. complete at specific cases isometric views of piping may be necessary.
- IV. Dimensioned details of all electrical, mechanical and instrumentation equipment's including accessories along with arrangement inside the buildings or enclosures, connected piping and cabling layout etc. all complete.
- V. Dimensioned details of all control and measuring device lined weirs, V-notches, probes, valves, gates, consoles, panels, switch diagrams/Circuit diagrams shall be used wherever applicable.
- VI. L-sections for pipelines laid externally, showing pipe profile, ground profile, soil condition, bedding, location of specials, valves and other accessories complete.
- VII. Dimensioned details of all site development works such as roads, drainage, cables pipelines, landscaping etc. complete with layout, cross – sections, levels etc. complete.

All drawings shall be prepared in appropriate scale and with adequate notes, legends, titles etc. for clarity.

(5) **Disruption of Progress**

The Contractor shall give written notice to the Engineer-in-Charge whenever planning or progress of the works is likely to be delayed or disrupted unless any further drawing or order, including a direction, instruction or approval is issued by the Engineer-in-Charge within a reasonable time. The notice shall include details of the drawing or order required and of why and by when it is required and of any delay or disruption likely to be suffered if it is late.

(6) **Delay and Cost of delay of Drawings**

If, by reason of any failure or inability of the Engineer-in-Charge to issue within a time reasonable in all the circumstances any drawing or order required by the Contractor in accordance with sub-clause (3) of this Clause, the Contractor suffers delay then the Engineer-in-Charge shall take such delay into account in determining any extension of time to which the Contractor is entitled. However the Contractor shall not be entitled to any compensation for such delay, except extension of time.

(7) **Further Drawings and Instructions**

The Engineer-in-Charge shall have full power and authority to supply to the Contractor from time to time during the progress of the Works such further drawings and instructions as shall be necessary for the purpose of the proper and adequate execution and maintenance of the Works. The Contractor shall carry out and be bound by the same.

15.0 Operation and Maintenance: 5 years after completion of main work

16.0 Sufficiency of RFP

The Contractor shall be deemed to have satisfied himself before bidding as to the correctness and sufficiency of his proposal for the Works and of the rates and prices of various Quantities and the Schedule of Rates and Prices, if any, except in so far as it is otherwise provide in the Contract, cover all its obligations under the Contract and all matters and things necessary for the proper execution and maintenance of the Works. If, however, during the execution of the Works, the Contractor shall encounter physical conditions, other than climatic conditions on the Site, or artificial obstructions, which conditions or obstruction could, in his opinion, not have been reasonable foreseen by an experienced contractor the Contractor shall forthwith give written notice thereof to the representative of Engineer-in-Charge and if in the opinion of the Engineer-in-Charge, such conditions or artificial obstructions could not have been reasonably foreseen by an experienced Contractor, than the Engineer-in-Charge shall certify and the Employer shall pay the additional cost to which the Contractor shall have been put by reason of such conditions, including the proper and reasonable cost. However, the decision of Engineer-in-charge shall be final and binding.

**EXECUTIVE DIRECTOR
GWALIOR SMART CITY DEVELOPMENT CORPORATION LIMITED**

Section 4

Bill of Quantities (BOQ)

Re-Development of Katora Tal under Gwalior Smart City Development Corporation Limited

Probable Amount of Contract:

(Rs. In Figure): Rs. **/-**

(Rs. In Words): Rupees

only.