

JABALPUR SMART CITY LIMITED (JSCL)

MADHYA PRADESH

TENDER DOCUMENT

Office of the : *Jabalpur Smart City Limited*

NIT Number and Date : *JSCL/2021/440/ADM/16*

Date of NIT : *17/05/2021*

Agreement Number and
Date :

Name of Work : *Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur(M.P.)*

Name of the Contractor :

Probable In Fig : **Rs.633.06 lakhs (Excl GST)**
Amount : Rupees Six crore thirty three lakh and six
In words thousand. **(Excl GST)**
of Contract

Stipulated Period of : *12 Months (including rainy season)*
Completion

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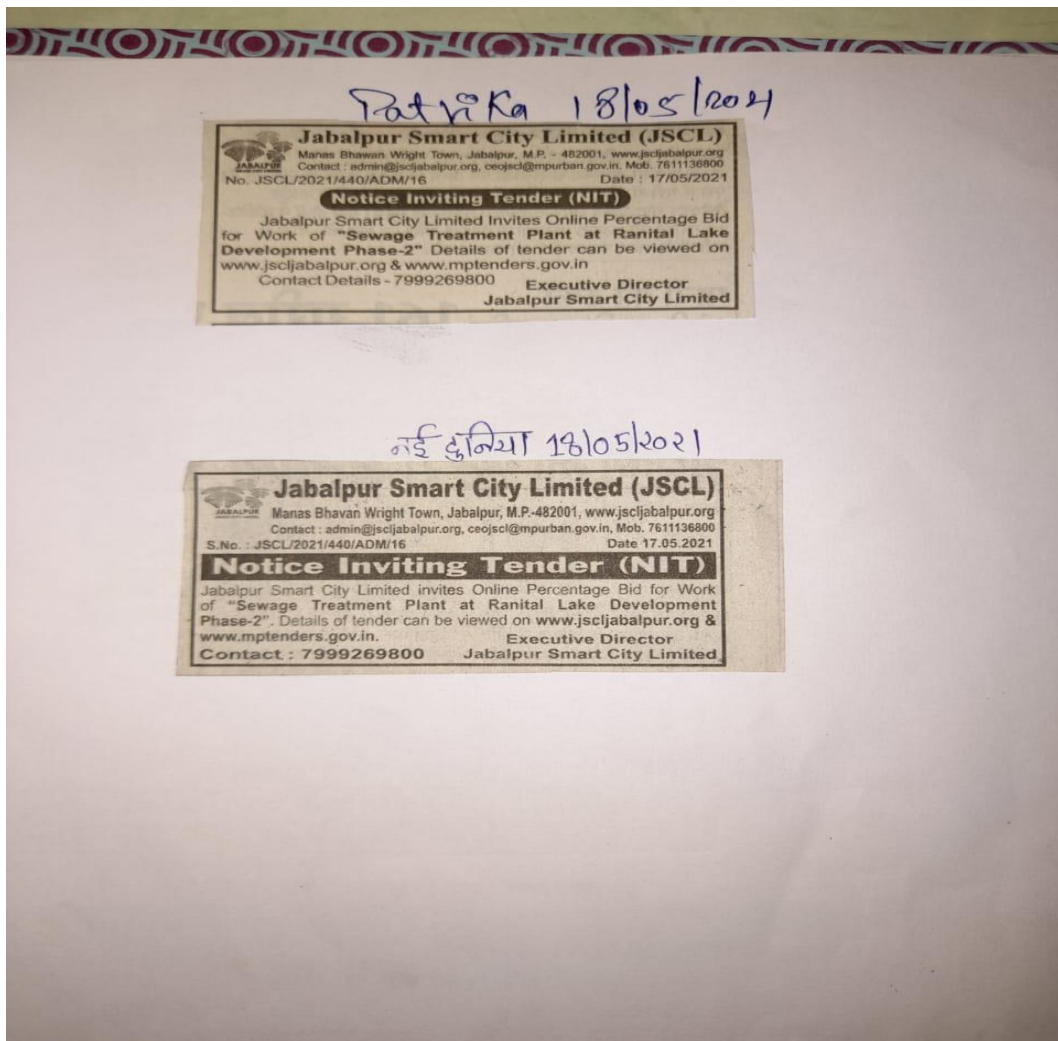
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News Paper Cutting

Jay lok 18/05/2021



Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

SECTION 1
Notice Inviting e-Tenders
Jabalpur Smart City Limited

N.I.T.NO JSCL/2021/440/ADM/16

Dated 17/05/2021

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

S.No.	Work	District(s)	Probable Amount (Rs.In lacs)	CompletionPeriod (months)
1	<i>Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur(M.P.)</i>	Jabalpur	Rs.633.06 lakhs (Excl GST)	12 Months (including rainy season)

- Interested bidders can view the NIT on website <http://www.mptenders.gov.in>
- The Bid Document can be purchased only online from 10/06/2021 to 09/07/2021 18:55PM
- Pre-Bid Meeting is scheduled on 3:00 PM 22/06/2021 at JSCL office Manas Bhawan, Jabalpur. The bidders interested for this work will prepare a technical proposal consisting of the details of technology to be used with all necessary information, of all the technical proposals of pre bid meeting and other proposals Jabalpur smart city limited will finalise the proposal which will be uploaded on website. All the bidders will be required to bid on the finalised proposal. All the rights regarding the finalisation of proposal is reserved by JSCL.***
- Amendments to NIT, if any, would be published on website only, and not in Newspaper.
The Bidder shall operate and maintain the STP system of RANITAL, JABALPUR for 5 years after successful completion of the works as per Tender. The period of 5 years after completion shall be treated as Defect Liability Period (DLP).

Chief Executive Officer

Jabalpur Smart City Limited

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

**Notice Inviting Tenders
Jabalpur Smart City Limited**

Office of the Executive Director, Jabalpur Smart City Limited

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

S. No.	Name of Work	District	Probable Amount of Contract (Rs. In lacs	Earnest Money Deposit (EMD) (in Rupees)	Cost of Bid Document (in Rupees)	Category of Contractor	Period of completion (in Months)
1	<i>Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur(M.P.)</i>	Jabalpur	Rs.633.06 lakhs (Excl GST)	Rs. 316531/-	Rs. 20000/-	Suitable class A of GoMP or equivalent in any State/Central Govt./ PSU	12 Months (including rainy season)

- All details relating to the Bid Document(s) can be viewed and downloaded free of cost on the website.
- Bid Document can be purchased after making online payment of portal fees through Credit/Debit/Cash Card/ internet banking.
- At the time of submission of the bid the eligible bidder shall be required to :
 - Pay the cost of bid document.
 - Deposit the Earnest Money
 - Submit a check list and
 - Submit an affidavit.
- Further, Details can be seen in the Bid Data Sheet.
- Eligibility for bidders :**
- At the time of submission of the bid the bidder should have valid registration with the Government of Madhya Pradesh, PWD in appropriate Class. However, such bidders who are not registered with the Government of Madhya Pradesh and eligible for registration can also submit their bids after having applied for registration with appropriate authority. The bidder would be required to have valid registration at the time of signing of the Contract.
- Failure to sign the contract by the selected bidder, for whatsoever reason, shall result in forfeiture of the earnest money deposit.
- Pre-qualification** – Prequalification conditions, wherever applicable, are given in the Bid Data Sheet.

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

9. ***Special Eligibility-*** Special Eligibility Conditions, if any, are given in the Bid data sheet.
10. The Bid Document can be purchased only online from **11/06/2021 to 10/07/2021** ~~til~~ 17:00 PM
11. Pre-Bid Meeting is scheduled on 3:00 PM **22/06/2021** at JSCL office Manas Bhawan, Jabalpur.
12. ***SOR applied is UADD Schedule of Rates 2012*** & MP PWD (SECOND PREFERENCE IF ITEM IS NOT IN UADD SOR) and amendments upto the date of submission of tender.
13. Amendments to NIT, if any, would be published on website only, and not in newspaper.

Chief Executive Officer
Jabalpur Smart City Limited

SECTION 2

INSTRUCTIONS TO BIDDERS (ITB)

A. GENERAL

1. SCOPE OF BID

The detailed scope of work, hereinafter referred to as "Work" is "Survey and all kind of Investigations, Design, Construction, Testing and Commissioning of waste water collection, treatment and disposal system (STP Project with SBR Tech) and its operation and maintenance for a period of 5 years after completion of construction work. The period of 5 years after completion shall be treated as Defect Liability Period (DLP). A brief description of project is as given below.

For sewage treatment plant and sump well, sewage pump and motors, screen chambers, primary treatment unit, oil and grease remover, SBR (secondary treatment unit), chlorination tank (tertiary unit), sludge handling unit, control room, roads and boundary wall, plantation, operation, development of approach cc road and maintenance for 5 years and other allied works.

Payment shall be made as per the below payments schedule for STP.

- 1) 5% shall be payable to the contractor after approval of survey, designs and drawings.
- 2) 10% shall be payable to the contractor after completion of excavation and foundation work up to plinth level.
- 3) 10% shall be payable to the contractor after Completion of primary treatment unit, collecting tank and oil and grease remover.
- 4) 15% shall be payable to the contractor after Completion of secondary treatment unit (SBR).
- 5) 5% shall be payable to the contractor after Completion of sludge handling unit.
- 6) 5% shall be payable to the contractor after Completion of sludge handling unit.
- 7) 10% shall be payable to the contractor on supply of all electrical and mechanical equipment's.
- 8) 10% shall be payable to the contractor on after erection installation of all electrical and mechanical equipment.
- 9) 10% shall be payable to the contractor after Completion of admin building, control room, road and boundary wall, plantation.
- 10) 10% shall be payable to the contractor after the whole work and trial run for a period of 3 months

11) 10% shall be payable to the contractor after successful completion of Operation and maintenance period.

i) The Bidder shall make its own choice for process of Sewage Treatment as per the approval of JSCL in pre bid meeting but the technology for Sewage Treatment should be proven technology, in working position for the last 5 years in India or a Country with Similar Weather Conditions, for a capacity not less than the **30% of the** capacity of treatment proposed in the present project and this experience should be fulfilled by the Technology Provider. The proposed technology for the biological treatment in the proposed Sewage treatment plant should be based on,

ii) Bidder should develop the the road, pathway for the STP plant.

1.1 The availability of land already identified by the Jabalpur Smart City Limited..

1.2 Effluent characteristics should meet the standards set out by MoEF and CPCB for discharging the treated water in inland water resources or disposal on land.

1.3 Reuse of the treated water in community purposes like gardening and fire-fighting etc. Also use for irrigation and industrial purposes should be explored.

1.4 The Bidder is required to take approval for all detailed designs and drawings for all components of this project from Authorised Government Engineering College and Jabalpur Smart City Ltd.

On successful completion of the project as per best engineering practices the bidder shall operate and maintain the system for next 5 years. The 5 years period upon completion of construction work of this project shall be defect liability period (DLP).

The Bidder shall also explore the possibility of power generation for running of Sewage treatment plant.

The bidder is required to make his own assessment of work before bidding & the bidder shall not be entitled for claim on account of nay deficiency / discrepancy in the data /information available in DPR.

2. General Quality of Work:

The work shall have to be executed in accordance with the drawings (prepared by Contractor and approved by the competent authority decided by JSCL), technical specifications specified in the Bid Data Sheet/Contract Data, and shall have to meet high standards of workmanship, safety and security of workmen and works.

3. PROCEDURE FOR PARTICIPATION IN E-TENDERING

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

4. ONE BID PER BIDDER

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

4.2 No bidder shall be entitled to submit more than one bid whether jointly or severally. If he does so, all bids wherein the bidder has participated shall stand disqualified.

4.3 In case of Bid submitted by the Joint Venture (Consortium of Bidders) only lead member should be essentially registered in appropriate class of Registration with the

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

Government of Madhya Pradesh or are registered with Central Government, State Government, PSUs

5. Cost of Bidding

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

6. Site Visit and examination 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.

PROJECT OBJECTIVE AND KEY COMPONENTS

Project objective is to treat the sewer of the near by area of ranital lake and to reuse the treated water for recharging the lake and also other Reuse of the treated water in community purposes like gardening and fire-fighting etc. Also use for irrigation and industrial purposes should be explored.

1. SCOPE OF BID

KEY TASKS/ DELIVERABLES BY THE CONTRACTOR DURING GOOD FOR CONSTRUCTION STAGE WILL INCLUDE:

- This contract involves the preparation of drawings, DPR (wherever required, including submission and obtaining of all necessary approvals from the relevant authorities). The contractor shall prepare GFC for the works included in the RFP in accordance with the concept design developed by Employer.
- The contractor should submit a complete timeline for scope of work to be carried out.
- The Client Representative will supervise and monitor the progress of this phase and contractor shall provide necessary cooperation and coordination.
- Contractor shall conduct all investigations required for design and execution of project like traffic studies and road investigations , Inventory of roads, Geo-tech investigations minimum 3 m below the hard rock or as per the BIS standards and for its structural stability and propose any new pavement, junction improvements , if required.
- Preparation and Submission of Complete Bill of Materials (BoM) along with detailed technical specifications, manufacturer's details and delivery schedule at the sites. Shall also provide the codification for all the items delivered.
- Preparation and submission of the details of the man power deployment for the project.
- Dispatch of materials as per the implementation accepted timelines / implementation schedule and phasing of the project by the employer.
- Preparation and submission of periodical progress report for all the stages.
- Employer will provide all the available information pertaining to this project to the successful bidder. However contractor has to validate the information provided by

carrying of field/site surveys/other relevant surveys as deemed necessary independently. The contractor shall conduct site survey and investigation of the roads where design has to be implemented and prepare survey report highlighting the site feasibility, GFC drawings, and site specific requirements / dependencies for successful implementation.

- Contractor has to prepare the documentation for showcasing the daily and weekly progress and the quantification of work done, Its mandatory to submit the progress report with Photos and Video every month and also before and after present conditions. At the end of the project a movie with 15 minutes, showcasing the project at different stages shall be submitted by the contractor.

Note- Details given in document are for information purpose only and successful bidder shall undertake confirmatory surveys for accuracy and completeness of data. It is in scope of successful Bidder to undertake all Site surveys, Geotechnical investigations/Engineering Surveys, hydrological investigations Underground Utility Surveying of the roads for shifting and creating new, obtaining all required approvals from the relevant authorities, Carry out Design and Drawings for all the components of the work as per Employers requirement and submit the same to client for review and approval. Prepare Good for Construction Drawings, submit maintenance manual to client for approval before start of post construction period.

The successful bidder shall have to prepare and submit both 'Good for Construction Drawings' before execution and 'As Built Drawings' after execution depicting the exact construction carried out on site, in soft and hard copy format.

2. GENERAL QUALITY OF WORK:

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

3. PROCEDURE FOR PARTICIPATION IN E- TENDERING:

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

4. ONE BID PER BIDDER

- 4.1. The bidder can be an individual entity or a joint venture (if permitted as per Bid Data Sheet). In case the J.V. is permitted, the requirement of joint venture shall be as per the Bid Data Sheet.
- 4.2. No bidder shall be entitled to submit more than one bid whether jointly or severally. If he does so, all bids wherein the bidder has participated shall stand disqualified

5. COST OF BIDDING:

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

6. SITE VISIT AND EXAMINATION OF WORKS:

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

B. BID DOCUMENTS

7. CONTENT OF BID DOCUMENTS:

The Bid Document comprises of the following documents:

1. NIT with all amendments.
2. Instructions to Bidders, Bid Data Sheet with all Annexure
3. Conditions of Contract :
 - I. Part I General Conditions of contract and the Contract Data with all Annexure, and
 - II. Part II Special Condition of Contract.
4. Specifications
5. Drawings
6. Priced bill of quantities
7. Technical and Financial bid
8. Letter of Acceptance
9. Agreement, and
10. Any other document(s), as specified

8. EXAMINE

The bidder is expected to examine carefully all instructions, conditions of contract, the Contract data, forms, terms and specifications, bill of quantities, forms and drawings in the bid document, Bidder shall be solely responsible for his failure to do so.

9. PRE-BID MEETING (WHERE APPLICABLE)

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

- 9.1. Details of venue, date and time would be mentioned in the Bid Data Sheet. Any change in the schedule of pre-bid-meeting would be communicated on the website only, and intimation to bidders would not be given separately.

- 9.2. Any prospective bidder may raise his queries and/or seek clarifications in writing before or during the pre-bid meeting. The purpose of such meeting is to clarify issues and answer questions on any matter that may be raised at that stage. The Employer may, at his option, give such clarifications as are felt necessary.
- 9.3. Minutes of the pre-bid meeting including the gist of the questions raised and the responses given together with any response prepared after the meeting will be hosted on the website.
- 9.4. Pursuant to the pre-bid meeting, if the employer deems it necessary to amend the bid Documents, it shall be done by issuing amendment to the online NIT.

10. AMENDMENT OF BID DOCUMENTS:

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

C. PREPARATION OF BID

11. BID PREPARATION

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

12. DOCUMENTS COMPRISING THE BID:

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

Part1- This shall be known as online Envelop A and would apply for all bids. Online envelop A shall contain the following as per details given in the bid data sheet:

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

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

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

13. LANGUAGE:

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

14. TECHNICAL PROPOSAL:

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

15. FINANCIAL BID:

- 15.1. The bidder shall have to quote rates in format referred in Bid Data Sheet, in overall percentage, and not item wise, if the bid is in absolute amount, overall percentage would be arrived at in relation to the probable amount of contract given in NIT. The overall percentage rate would apply for all items of work.
- 15.2. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found, lower of the two shall be taken as valid and correct.
- 15.3. The bidder shall have to quote rates inclusive of all duties, taxes, royalties and other levies except Goods & Services Tax (GST). The amount of applicable GST will be paid separately to the contractor with each bill at the time of payment; and the Employer shall not be liable for any duties, taxes (Except GST) royalties and levies.
- 15.4. The material along with the units and rates, which shall be issued, if any, by the department to the contractor, is mentioned in the Bid Data Sheet.

16. PERIOD OF VALIDITY OF BIDS:

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

17. EARNEST MONEY DEPOSIT (EMD)

- 17.1. The Bidder shall furnish, as part of the Bid, Earnest Money Deposit (EMD), in the amount specified in the Bid Data Sheet.
- 17.2. The EMD shall be submitted online with the cost of bid document and processing charges as specified on the e tendering website.
- 17.3. Bid not accompanied by EMD shall be liable for rejection as non-responsive.

- 17.4. EMD of bidders whose bids are not accepted will be returned within ten working days of the decision on the bid.
- 17.5. EMD of the successful Bidder will be discharged when the Bidder has signed the Agreement after furnishing the required Performance security.
- 17.6. Failure to sign the contract by the selected bidder, within the specified period, for whatsoever reason, shall result in forfeiture of the earnest money.

D. SUBMISSION OF BID

18. BID SUBMISSION

The bidder is required to submit online bid duly signed digitally, and *Envelope "A"* AOPENING AND EVALUATION OF BID

19. PROCEDURE:

- 19.1. Submission of Bid online submissions bidder has to ensure visible/readable documents for evaluation of bid./
- 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 (Envelop 'B') shall not be opened.
- 19.3. Envelope 'C' (Financial Bid) 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. The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all the bids at any time prior to contract award, without incurring any liability. In all such cases reasons shall be recorded.
- 19.6. The employer reserves the right of accepting the bid for the whole work or for a distinct part of it.

20. CONFIDENTIALITY:

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

E. AWARD OF CONTRACT

21. AWARD OF CONTRACT:

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

22. PERFORMANCE SECURITY

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

23. SIGNING OF CONTRACT AGREEMENT:

- 23.1. The successful bidder shall have to furnish Performance Security and Additional Performance Security, if any, and sign the contract agreement within 15 days of issue of LOA
- 23.2. The signing of contract agreement shall be reckoned as intimation to commencement of work. No separate work order shall be issued by the employer to the contractor for commencement of work.
- 23.3. In the event of failure of the successful bidder to submit Performance Security and Additional Performance Security, if any or sign the Contract Agreement, his EMD shall stand forfeited without prejudice to the right of the employer for taking any other action against the bidder.

24. CORRUPT PRACTICES:

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

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

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

- a. **'Corrupt Practice'** means the offering, giving, receiving or soliciting directly or indirectly, anything of value to influence improperly the actions of another party;
- b. **'Fraudulent Practice'** means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a fanatical or other benefit or to avoid an obligation:
- c. **'Coercive Practice'** means impairing 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)

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

BID DATA SHEET

GENERAL		
SR.NO.	PARTICULARS	DATA
1	Office inviting tender	JABALPUR SMART CITY LIMITED
2	NIT No.	JSCL/2021/440/ADM/16
3	Date of NIT	Dated. 17/05/2021
4	Bid document download available from date & time	11/06/2021
5	Website link	www.mptenders.gov.in
SECTION1 –NIT		
CLAUSE REFERENCE	PARTICULARS	DATA
1.	Portal fees	<i>As notified in e-tendering website</i>
	Cost of bid document	Rs20000/-
	Cost of bid document payable at	<i>As notified in e-tendering website</i>
	Cost of bid document in favour of	<i>As notified in e-tendering website</i>
2.	Affidavit format	<i>As per ANNEXURE B</i>
	Pre-Qualifications required	Yes -
	If yes, details	<i>As per ANNEXURE C</i>
3.	Special Eligibility	Yes
4.	If Yes, details	<i>As per ANNEXURE D</i>
5.	Key dates	<i>As per ANNEXURE A</i>
SECTION2 –IT B		
CLAUSE REFERENCE	PARTICULARS	DATA
1.	Name of 'work'	<i>Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.), Jabalpur (M.P)</i>
2.	Specifications	<i>As per ANNEXURE –E</i>
3.	Procedure for participation in e-tendering	<i>As per ANNEXURE –F</i>
4.	Whether joint venture is allowed	NO
	If yes, requirement for joint venture	<i>As per ANNEXURE – G</i>
	Pre bid meeting to be held	Yes
5.	If Yes, Date, Time & Place	<i>Date: 22/06/2021 Time form: 15.00 hrs Place: JSCL Office Manas Bhawan Jabalpur M.P</i>

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

BID DATA SHEET

CLAUSE REFERENCE	PARTICULARS	DATA
6.	Envelop A containing : i. Registration number or proof of application for registration and organizational details as per Annexure H ii. Cost of Bid Document iii. EMD iv. An affidavit duly notarized as per Annexure-B Should Submit Online	<i>At the Office of the Jabalpur Smart city Limited, Manas Bhavan</i> Rs.20000/- Rs. 316531/- <i>On or Before</i> 10/07/2021
7.	Envelope-B Technical Proposal	<i>ANNEXURE – I and ANNEXURE–I (Format I-1 to I-5)</i>
8.	Envelope-C Financial Bid	<i>Annexure – J (SHOULD BE SUBMITTED ONLINE)</i>
9.	Materials to be issued by the department	<i>ANNEXURE– K</i>
10.	Period of Validity of Bid	<i>120 Days</i>
11.	Earnest Money Deposit	Rs. 316531/-
	Forms of Earnest Money deposit	<i>As notified in e tendering website</i>
	EMD valid for a period of	<i>365 Days.</i>
	EMD Online must be drawn in favour of	<i>Executive Director, JSCL</i>
12.	Letter of Acceptance (LoA)	<i>ANNEXURE L</i>
13.	Amount of Performance Security	<i>5% of contract amount</i>
	Additional Performance Security, if any	<i>As per rule</i>
	Performance security in the format	<i>ANNEXURE M</i>
	Performance security in favour of	<i>Executive Director, JSCL</i>
	Performance security valid up to	<i>plus 3 (Three) months valid up to three months beyond the Contract period</i>

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

Annexure – A

(See clause 1, 7 of Section 1-NIT)

KEY DATES

S. No	WORKS DEPARTMENT STAGE	BIDDERS STAGE	START		EXPIRY		ENVELOPE S
			Date	Time	Date	Time	
1.		Purchase of Tender – Online	11/06/2021		10/07/2021		
2.		Bid Submission – Online	11/06/2021		10/07/2021		
3.	Mandatory submission Open-online (Envelope-A)						
4.	Technical Proposal open-online (PQ Envelope-B)				FROM 11/07/2021		
5.	Financial Bid open- online (Envelope-C)				To be notified.		

Receipt of earnest money deposit, Receipt of cost of bid document and affidavit shall be submitted by the bidder so as to reach the office as prescribed in bid data sheet.

Annexure – B

(See clause 3 of Section 1-NIT)

|| AFFIDAVIT ||

(To be contained in Envelope A)

(On Non Judicial stamp of Rs. 100)

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

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

I/We am/ are fully responsible for the correctness of following self- certified information / documents and certificates.

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

Or

Following close relatives are working in the department:

Name _____ - Post _____ present Posting _____

Signature with seal of the Deponent (bidder)

I/We, _____ above deponent do hereby certify that the facts mentioned in above paras 1 to 4 are correct to the best of my knowledge and belief.

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

Signature with seal of the Deponent (bidder)

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

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

Annexure – C
(Sec clause 5 of Section 1-NIT)

PRE- QUALIFICATIONS CRITERIA

The bidder should have:

A. Financial

- i. Experience of having successfully executed: -
 - a) *Three similar works*, each costing not less than the *amount equal to 20%* of the probable amount of contract during the *last 3 financial years*; or
 - b) *Two similar works*, each costing not less than the *amount equal to 30%* of the probable amount of contract during the *last 3 financial years*; or
 - c) *One similar work* of aggregate cost not less than the amount equal to *50% of the probable amount* of contract in any one financial year during *the last 3 financial years*;

In case of **STP** related works similar works shall mean work related to STP project comprising of essentially either of the following components,

- i. Construction of Sewage Treatment Plants (STP) /Common Effluent Treatment plants (CETP)/ Effluent Treatment plants (ETP)
 - a) For ascertaining the value of successfully executed works in support of experience of the Bidder in i under (A) Financial, the original cost of work can be adjusted as per increase in Whole Sale Price Index (WPI) as given by Reserve Bank of India, from the date of work order of the subjected work to till date. The certificate of the Chartered Accountant be produced for cost adjustment.
- ii. *Average Annual Construction Turnover* on the construction works *shall not be less than 50%* of the probable amount of contract during *the last 3 financial years*.
- iii. Executed similar items of work in any one financial year during the last 3 financial years, which should not be less than the minimum, physical requirement, if any, fixed for the work.
- iii. ***Bid Capacity*** — Bidder shall be allotted work up to his available Bid Capacity, which shall be worked out as given in *Format 1-2 of Annexure I. Bid Capacity shall be equal to or higher than the bid amount.*

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

B. Physical

Physical qualifications for the work shall be as below

S. No.	Particulars	Quantity/ Experience	Period
	Physical qualification required	In case of STP related works similar works shall mean work related to STP project comprising of essentially either of the following components, Construction of Sewage Treatment Plants (STP) /Common Effluent Treatment plants (CETP)/ Effluent Treatment plants (ETP)	

C. Successful Bidder shall employ 'A' Class Registered Electrical Contractor for electrical works.

Annexure — D

(See clause 6 of Section 1-NIT)

SPECIAL ELIGIBILITY CRITERIA

- a) Submit a Technology Tie-up Agreement with a technology provider for biological treatment section proposed by him under this project. The technology provider should have provided technology and core equipment for Sewage Treatment plant in last 5 years for at least one Municipal Sewage Treatment Plant running successfully at present in India or a Country with similar weather conditions having capacity **30% or more of the capacity** of Sewage Treatment plant proposed in the project on the same technology.

Annexure- E

(See clause 2 of Section 2 —ITB & clause 10 of GCC)

SPECIFICATIONS

For civil works following SPECIFICATIONS shall be referred;

1. MP UADD Specification (First Preference)
2. MP PWD Department Specifications,
3. IRC Specifications
4. UTIPEC Road Design Specifications
5. CPWD Specifications
6. MORTH Specifications

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

Annexure-F

(See clause 3 of section 2-ITB)

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.mptenders.gov.in>. The user id will be the contractor ID provided to them from MP Online. The password for the new portal has been sent to the bidders registered email ID. Helpdesk phone numbers are available on website.

2. DIGITAL CERTIFICATE:

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

NOTE:

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

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

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

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

3. SET UP OF BIDDER'S COMPUTER SYSTEM:

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

4. KEY DATES:

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

5. PREPARATION AND SUBMISSION OF BIDS

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

6. PURCHASE OF BID DOCUMENT

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

7. WITHDRAWAL, SUBSTITUTION AND MODIFICATION OF BIDS

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

Annexure — G
(See clause 4 of Section 2 -ITB)

JOINT VENTURE (J.V.)

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

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

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5. Attach the agreement among all partners of the joint venture [and which is legally binding on all partners], which shows the requirements as indicted in the Instructions to Bidders’.

6. Furnish details of participation proposed in the joint venture as below:

DETAILS OF PARTICIPATION IN THE IOINT VENTURE

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

7. The partners of J.V. should satisfy the qualification criteria as below,
 - a. The Lead Partner must meet at least 50% requirement of Technical and Financial eligibility criteria required for the bid.
 - b. The other partner(s) must meet at least 25% requirement of Technical and financial eligibility criteria required for the bid.
 - c. The lead partner and the other partners should together meet 100% of all the eligibility criteria required for the bid.
8. For the meeting the minimum qualification criteria of experience of similar nature work.
 - i. Out of 3 similar works of value more than 20% of Pre-Qualification Criteria , at least 2 works must be done by lead partner and one work to be done by other partner,

Or

- ii. Out of 2 similar works of value more than 30% of Pre-Qualification Criteria at least 1(one) work must be done by lead partner and 1 (one) work to be done by other partner,

Or

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

Annexure-H

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

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

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

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

Signature of Bidder with Seal

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

Date: _____

Annexure – I
See clause 14 of Section 2 -ITB)

Envelope – B, Technical Proposal
Technical Proposal shall comprise the following documents:

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

Note:

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

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

FINANCIAL & PHYSICAL EXPERIENCE DETAILS

A. Financial Requirement:

The bidder should have completed either of the below:

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

To be filled in by the contractor:

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

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

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

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

B. Physical Requirement:

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

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

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Note:

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

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

ANNUAL TURN OVER

Requirement:

Average annual construction turnover on the construction works not less than 50% of the probable amount of contract during the last 3 financial years;

To be filled in by the contractor:

Financial Year Payments received for contracts in progress or completed

Financial Year	Payments received for contracts in progress or completed

Note:

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

Bid Capacity

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

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

Where

- A. = Maximum value of civil engineering works executed in any one year during the last three financial year (10% weightage per year shall be given to bring the value of work executed at present price level)
- B = Proposed contract period in years.
- C = Value at current price level of existing commitments and ongoing works to be completed in the next 'B' years.

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Annexure - I (Format : I-3)

(See clause 14 of Section 2-ITB & Clause 6 of GCC)

List of Technical Personnel for the Key Positions¹(to be referred for civil works)

<i>S. No</i>	<i>Key Positions</i>	<i>Qualifications</i>	<i>Age</i>	<i>Similar Work Experience</i>	<i>Total Work Experience</i>	<i>Name of Personnel</i>	<i>Key Position</i>	<i>Qualification</i>	<i>Similar Work Experience</i>	<i>Total Work Experience</i>
1.	Project Manager - 1 No.	B.E. Civil	below 50 years	10 Years	15 Years					
2.	Site Engineer – 3 Nos	B.E. Civil	below 50 years	5 years	10 years					
3.	Architect – 1 No	B. Arch	below 50 years	5 years	10 years					
4.	Quality Assurance Engineer- – 1 No	B.E. Civil with experience in QA/QC	below 50 years	5 years	10 years					

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5.	Plant Engineer – 1 No	B.E. Mech/ Diploma in Mech	below 50 years	5 years	10 years					
6.	Quantity Surveyor – 3 Nos	B.E. Civil / Diploma Civil	below 50 years	5 years	10 years					
7.	Soil & Material Engineer – 2 Nos	B.E. Civil / Diploma Civil	below 50 years	5 years	10 years					
Total	12 Nos									

Note:

- 1. Aforesaid personnel shall be deployed within the period starting from the date of award of contract as stipulated in the contract.*
- 2. Approval of the superintending engineer about suitability of personnel shall be obtained before deployment.*

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

Annexure - I (Format: I-3)

(See clause 14 of Section 2-ITB & Clause 6 of GCC)

List of Technical Personnel for the Key Positions ²(to be referred for electrification works)

S. No	Key Positions	Qualifications	Age	Similar Work Experience	Total Work Experience	Name of Personnel	Key Position	Qualification	Similar Work Experience	Total Work Experience
1.	Project Manager -1 No.	B.E. electrical	below 50 years	10 Years	15 Years					
2.	Site Engineer – 3 Nos	B.E. electrical	below 50 years	7 years	10 years					
3.	Site supervisor-4 Nos	Diploma/Iti in electrical	below 50 years	5 years	10 years					
Total	8 Nos									

Note:

- 1. Aforesaid personnel shall be deployed within the period starting from the date of award of contract as stipulated in the contract.*
- 2. Approval of the superintending engineer about suitability of personnel shall be obtained before deployment*

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List of Key Equipment's / Machines for Quality Control Labs

Minimum requirement						
S.No.	Name of Equipment/Machinery	Quantity for works costing			Quantity Available with the Bidder	Remarks
		Upto Rs 5 Cr	From Rs 5 Cr to 20 Cr	Above Rs 20 Cr		
A)	GENERAL					
1)	Weigh Balances					
	a) 5-20 kg capacity Electronic type – Accuracy 1 gm	Nil	Nil	1 No.		
	b) 500 gm capacity-Electronic Type Accuracy 0.01 gm	1 No.	1 No.	1 No.		
	c) Electronic 5 kg capacity Accuracy 0.5 gm	1 No.	1 No.	1 No.		
	e) Chemical Balance 100 gm capacity-accuracy 0.001 gm	Nil	Nil	1 No		
2)	Oven-electrically operated, thermostatically controlled (including thermometer), stainless steel interior (From 0°C to 220°C Sensitivity 1°C)	1 No	1 No	1 No		
3)	Sieves : as per IS:460-1962					
	a) I.S. sieves 450 mm internal dia of sieve sets as per BIS of required sieve sizes complete with lid and pan	1 set	1set	3 set		
	b) IS sieve 200 mm internal dia (brass frame and steel/or brass wire cloth mesh) consisting of sieve sets of required sieve sizes complete with lid	2 sets	2 sets	3 sets		
4)	Sieve shaker capable of sacking 200 mm and 450 mm dia sieves-electrically operated with time switch (for work costing more than 15 crore only)	Nil	1 No	3 No		
5)	200 tonnes compression testing machine	1 No	1 No	2 No		
6)	Stop watches 1/5 sec. accuracy	1 No	1 No	3 No		
7)	Glassware comprising beakers,	2 No.	2 No.	2 No.		

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	pipettes, dishes, measuring cylinders (100 to 1000 cc capacity) glass rods and funnels, glass thermometers range 0°C to 100°C and metallic thermometers range up to 300°C.	each	each	each		
8)	Hot plates 200 mm dia (1500 watt.)		1 No	2 No		
9)	Enamel trays					
	a) 600 mm x 450 mm x 50 mm	1 Nos	1 Nos	2 Nos		
	b) 450 mm x 300 mm x 40 mm	1 Nos	1 Nos	2 Nos		
	c) 300 mm x 250 mm x 40 mm	1 Nos	1 Nos	2 Nos		
	d) Circular plates of 250 mm dia	1 Nos	1 Nos	2 Nos		
10)	Water Testing Kit	Nil	Nil	1 No		
B)	FOR SOILS					
1)	Water Tank	1 No	1 No	3 No		
2)	Liquid limit device with ASTM grooving tools as per IS:2720	Nil	1 No	1 No		
3)	Sampling pipettes fitted with pressure and suction inlets, 10 ml. Capacity	Nil	1 set	1 set		
4)	Compaction apparatus (Proctor) as per IS:2720 (Part 7) complete with collar, base plate and hammer and all other accessories	Nil	1 No	1 No		
5)	Modified AASHTO Compaction apparatus as per IS:2720 (Part 8) 1974 or Heavy Compaction Apparatus as per IS complete with collar, base plate hammer and all other accessories(for work costing more than 15 crore only)	Nil	1 No	1 No		
6)	Sand pouring cylinder with conical funnel and tap and complete as per IS:2720 (Part 28) 1974 including modern equipment.	1 Nos	2 Nos	2 Nos		
7)	Ennore Standard Sand	As required	As required	As required		
8)	Sampling tins with lids 100 mm	Nil	Nil	4 Nos		

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

	dia x 75 mm ht. ½kg capacity and miscellaneous items like moisture tins with lid 50 grams etc.					
9)	Lab CBR testing equipment for conducting CBR testing, load frame with 5 Tonne capacity, electrically operated with speed control as per IS:2720 (Part 16) and consisting of following: (for work costing more than 15 crore only)	Nil	1 Set	1 Set		
	a) CBR moulds 150 mm dia – 175 ht.	Nil	6 No	6 No		
	b) Tripod stands for holding dial gauge holder	Nil	4 Nos	4 Nos		
	c) CBR plunger with settlement dial gauge holder	Nil	1 No	1 No		
	d) Surcharge weight 147 mm dia 2.5 kg wt.	Nil	6 Nos	6 Nos		
	e) Spacers disc 148 mm dia 47.7 mm ht. With handle	Nil	2 Nos	2 Nos		
	f) Perforated plate (Brass)	Nil	2 Nos	2 Nos		
	g) Soaking tank for accommodating 6 CBR moulds	Nil	2 Nos	2 Nos		
	h) Proving rings of 1000 kg, 2500 kg capacity	Nil	1 No each	1 No each		
	i) Dial gauges 25 mm travel-0.01 mm/division	Nil	2 No	2 No		
10)	Standard penetration test equipment	Nil	Nil	1 No		
11)	Nuclear moisture Density meter or equivalent(for work costing more than 15 crore only)	Nil	Nil	1 No		
12)	Speedy moisture meter complete with chemicals	1 No	1 No	3 No		
13)	Unconfined Compression Test Apparatus (for work costing more than 15 crore only)	Nil	Nil	1 No		
C)	FOR BITUMEN AND BITUMINOUS MIXES					
1)	Constant temperature bath for accommodating bitumen test specimen, electrically operated,	Nil	1 No	1 No		

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

	and thermostatically controlled (to accommodate minimum six Specimens)					
2)	Penetrometer automatic type, including adjustable weight arrangement and needles as per IS:1203-1958	Nil	1 No	1 No		
3)	Solvent extraction or centrifuge type apparatus complete with extraction thimbles with solvent and filter paper	1 No	1 No	1 No		
4)	Bitumen laboratory mixer including required accessories (20 ltrs.) (for work costing more than 15 crore only)	Nil	1 No	1 No		
5)	Marshall compaction apparatus automatically operated as per ASTM 1559-62 T complete with accessories (with 180 N Marshall Moulds) (for work costing more than 15 crore only)	Nil	1 set	1 set		
6)	Furol viscometer	Nil	1 No	1 No		
7)	Ductility meter (for work costing more than 15 crore only)	Nil	1 No	1 No		
8)	Softening point (Ring and ball app)	Nil	1 No	1 No		
9)	Distant reading thermometer	Nil	-	-		
10)	Rifle box	Nil	- 1 No	- 1 No		
11)	Automatic Asphlat content Meter	Nil	- 1 No	- 1 No		
12)	Thin film over test apparatus for modified binder either with PMB or CRMB(for work costing more than 15 crore only)	Nil	-	-		
13)	Mastic Asphalt Hardness testing equipment(for work costing more than 15 crore only)	Nil	-	-		
14)	Sand Equivalent test apparatus	Nil	1 set	1 set		
15)	Core cutting machine suitable for upto 150 mm dia core	1 set	1 set	2 set		
16)	Thermometers (Digital)	2 Nos	4 Nos	8 Nos		
D)	FOR CEMENT, CEMENT CONCRETE AND MATERIALS					
1)	Water Tank	1 No	1 No	1 No		

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

2)	Vicat needle apparatus for setting time with plungers as per IS:269-1967	1 No	1 No	1 No		
3)	Moulds					
	a) 150 mm x 300 mm ht. Cylinder with capping component along with the capping set and compound as per IS	Nil	Nil	As Required		
	b) Cube 150 mm, and 100 mm (each size)	6 Nos	12 Nos	24 Nos		
4)	Concrete permeability apparatus	Nil	Nil	1 No		
5)	High frequency mortar cube vibrator for cement testing	Nil	Nil	1 No		
6)	Concrete mixer power driven, 1 cu.ft. capacity	Nil	Nil	1 No		
7)	Variable frequency and amplitude vibrating table size 1 m x 1 m as per the relevant British Standard	Nil	Nil	1 No		
8)	Flakiness index test apparatus	1 No	1 No	1 No		
9)	Aggregate impact test apparatus as per IS:2386 (Part 4) 1963	Nil	Nil	1 No		
10)	Los-Angeles abrasion test apparatus as per IS:2386 (Part 4) 1963	Nil	Nil	1 No		
11)	Flow table as per IS:712-1973	Nil	Nil	1 No		
12)	Equipment for slump test	1 No	1 No	2 No		
13)	Equipment for determination of specific gravity or fine and coarse aggregate as per IS:2386 (Part 3) 1963	1 No	1 No	2 No		
14)	Compression and Flexural strength testing machine of 200 T capacity with additional dial for flexural testing	1 No	1 No	2 No		
15)	Core cutting machine with 10/15 cm dia diamond cutting edge	1 No	1 No	2 No		
16)	Needle vibrator	1 No	1 No	2 No		
17)	Air entrainment meter	Nil	Nil	1 No		
18)	0.5 Cft, 1 Cft cylinder for checking bulk density of aggregate with tamping rod	Nil	1 No	2 No		

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

19)	Soundness testing apparatus for cement (Lee Chatterlier)	Nil	Nil	1 No		
E)	FOR CONTROL OF PROFILE AND SURFACE EVENNESS					
1)	Total Station	Nil	1 No	1 No		
2)	Precision automatic level with micrometer attachment	1 set	1 set	1 set		
3)	Distomat or equivalent	Nil	Nil	1 Set		
4)	Theodolite – Electronically operated with computerised output attachment	Nil	Nil	1 No		
5)	Precision staff	2 sets	4 sets	8 sets		
6)	3 meter straight edge and measuring wedge	1 sets	2 sets	8 sets		
7)	Camber template 2 Lane					
	a) Crown type cross – section	1sets	1 sets	4 sets		
	b) Straight run cross – section	1sets	1sets	4sets		
8)	Steel tape					
	a) 5 m long	2 Nos	4 Nos	8 Nos		
	b) 10 m long	2 Nos	4 Nos	8Nos		
	c) 20 m long	2 Nos	4 Nos	8Nos		
	d) 30 m long	2 Nos	4 Nos	8 Nos		
	e) 50 m long	1 No	4 No	8 No		
9)	Roughometer (Bump Integrator)	1 No. (when require d)	1 No. (when require d)	1 No. (when require d)		

Note: Intention to procure/lease the equipment should be accompanied by documents to the effect. The nature of documents could be any one of the under:

- i) Order to the manufacturer of the plant and equipment's.
- ii) Confirmation from the manufacturer.
- iii) Proof of payments in full or part.
- iv) Agreement to lease the equipment.

Annexure - I (Format : I-5)

(See clause 14 of Section 2-ITB)

List of Key Equipment's/ Machines for Construction Work (Only for civil works)

Minimum requirement						
S. No.	Name of Equipment/ Machinery	Quantity Required with the bidder for works costing			Quantity Available with the bidder	Remarks
		UptoRs 5 Cr	From Rs 5 Cr to 20 Cr	Above Rs 20 Cr		
1.	a) Hot mix plant (40-60 TPH), fully computerized with four bin feeder lime/dust feeder as per IRC specification	Nil	Nil	. Nil		
	b) Hot mix plant (40-60 TPH), fully computerized with four bin feeder lime/dust feeder as per IRC specification	Nil	Nil	Nil		
2.	Loaders	1 No.	1 No.	2 No.		
3.	Tippers	2 Nos.	5 Nos.	10 Nos.		
4.	Tandem Road Roller 8-10 ton	Nil	Nil	Nil		
5.	Vibratory Road Roller	1 Nos.	1 Nos.	2 Nos.		
6.	Bitumen Sprayers and emulsion sprayer	Nil	Nil	Nil		
7.	Blower of suitable capacity	Nil	Nil	Nil		
8.	Sensor Paver finisher filled with vibratory screed	Nil	Nil	Nil	-	
9.	for Concrete pavements					
	i) Concrete Mechanical Mixer with	1 Cum	1 Cum	1 Cum		

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

	arrangement for mixing ingredients by weight	capacity	capacity	capacity		
	ii Plate Vibrators	1 Nos.	1 Nos.	2 Nos.		
	iii)Pin Vibrators	1 Nos.	1 Nos.	2 Nos.		
	iv) Concrete sensor paver	1 No	1 No	2 Nos.		
	v) Mortar grader	1 No	1 No	Nos.		
	vi) Vibratory Roller	1 No	1 No	2 Nos.		
	vii) Central batching and mixing plant with automatic controls	1 No	1 No	2 Nos.		
	viii) Tipping trucks or transit mixers	1 No	1 No	2 Nos.		
	ix) Slip form paver with sensor .	1 No	1 No	1 No		

Note: Intention to procure/lease the plants and machinery should be accompanied by documents to the effect. The nature of documents could be any one of the under:

- 1 Order to the manufacturer of the plant and equipment's.
- 2 Confirmation from the manufacturer.
- 3 Proof of payments in full or part.
- 4 Agreement to lease the equipment.

Annexure — J
(See clause 14 of Section 2 -ITB)

FINANCIAL BID
(To Be Contained in Envelope-C)

To be submitted online only

NAME OF WORK _____

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

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

Note:

- i. Only one rate of percentage above or below or at par based on the Bill of Quantities and item wise rates given therein shall be quoted.
- ii. Percentage shall be quoted in figures as well as in words. If any difference in figures and words is found lower of the two shall be taken as valid and correct rate. If the bidder is not ready to accept such valid and correct rate and declines to furnish performance -security and sign the agreement his earnest money deposit shall be forfeited.
- iii. In case the percentage “above” or “below” is not given by a bidder, his bid shall be treated as non-responsive.
- iv. All duties, taxes, and other levies except Goods and services tax (GST) are included in the rates (in case of Percentage Rate Bids)/ Lump sum offer (in case of Lump-sum Bids quoted by the bidder.

Signature of Bidder
Name of Bidder

The above bid is hereby accepted by me on behalf of the Jabalpur Smart City Limited dated the _____ day of _____ 20_____

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

Signature of Officer
by whom accepted

The lump-sum cost for the Bid to be quoted Online shall be calculated as under,

1.0 Cost of Works (A) =

2.0 Operation and Maintenance Cost next 5 years (B)

S.No.	Year	Cost in Rs
1.0	1 st Year	
2.0	2 nd Year	
3.0	3 rd Year	
4.0	4 th Year	
5.0	5 th Year	
		Total (B)

3.0 Power Consumption (C)

S.No.	Year	Electricity Consumption (KwH) for entire system Sewage Treatment plant	Cost of Power to be calculated @ Rs EXISTING RATE per KwH
1.0	1 st Year		
2.0	2 nd Year		
3.0	3 rd Year		
4.0	4 th Year		
5.0	5 th Year		
		Total (C)	

Note:

- The charges for the power up to the electricity consumption as shown in table shall be borne by ULB. However, the payment for any additional consumption of electricity in a particular year shall be made by the Bidder on Prevailing rates of power at that time.

Lump-sum cost for the Bid =Lumpsum Cost (A) + Cost of 5 Years O&M (B)

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

MATERIALS TO BE ISSUED BY THE DEPARTMENT

N/A

Annexure—L
(See clause 21 of Section 2 -ITB)

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 the Jabalpur Smart City Limited at your bided percentage _____ below/ above or at par the Bill of Quantities and item wise rates given therein.

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

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

b. Sign the contract agreement.

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

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

Yours Faithfully

Executive Engineer

Annexure – M
(See clause 22 of Section 2 -ITB)

SECTION 3

Conditions of Contract

Part - I General Conditions of Contract [GCC]

Table of Clauses of GCC

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

20	Extra Items .	42	Jurisdiction
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A. General

1. DEFINITIONS

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

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

2. INTERPRETATIONS AND DOCUMENTS

2.1 Interpretations

In the contract, except where the context requires otherwise:

- a. words indicating one gender include all genders;
- b. Words indicating the singular also include the plural and vice versa.
- c. provisions including the word “agree”, “agreed” or “agreement’ require the agreement to be recorded in writing;
- d. written” or “in writing” means hand-written, type-written, printed or electronically made, and resulting in a permanent record;

2.2 Documents Forming Part of Contract:

- 1. NIT with all amendments.
- 2. Instructions to Bidders (ITB, Bid Data Sheet with all Annexure’s)
- 3. Conditions of Contract:
 - I. Part I General Conditions of Contract and the Contract Data; with all Annexures
 - II. Part II Special Conditions of Contract.

4. Specifications
5. Drawings
- 6 Bill of Quantities
7. Technical and Financial Bid
8. Agreement, and
9. Any other document(s), as specified.

3. Language and Law

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

4. Communications

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

5. Subcontracting

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

- a. The Contractor may subcontract up to 25 percent of the contract price with the approval of the Employer in writing, but will not assign the Contract. Subcontracting shall not alter the Contractors obligations.
- b. Following shall not form part of subcontracting:
 - I. Hiring of labour through a labour contractor.
 - II. The purchase of Materials to be incorporated in the works.
 - III. Hiring of plant & machinery.
- c. The sub-contractor will have to be registered in the appropriate category in the centralized registration system for contractors of the GOMP.

6. Personnel

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

7. Force Majeure

- 7.1 The term "Force Majeure" means an exceptional event or circumstance:

- (a) Which is beyond a Party's control,
- (b) Which such Party could not reasonably have provided against before entering into the Contract
- (c) Which, having arisen, such Party could not reasonably have avoided or overcome, and
- (d) Which is not substantially attributable to the other Party.

Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:

- i. War, hostilities (whether war be declared or not), invasion, act of foreign enemies,
 - ii. Rebellion, terrorism, sabotage by persons other than the contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,
 - iii. Riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel,
 - iv. Munitions of war, explosive materials, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and
 - v. Natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.
- 7.2. In the event of either party being rendered unable by force majeure to perform any duty or discharge any responsibility arising out of the contract, the relative obligation of the party affected by such force majeure shall upon notification to the other party be suspended for the period during which force majeure event lasts. The cost and loss sustained by either party shall be borne by respective parties.
- 7.3 For the period of extension granted to the Contractor due to Force Majeure the price adjustment clause shall apply but the penalty clause shall not apply. It is clarified that this sub clause shall not give eligibility for price adjustment to contracts which are otherwise not subject to the benefit of price adjustment clause.

- 7.4 The time for performance of the relative obligation suspended by the force majeure shall stand extended by the period for which such cause lasts. Should the delay caused by force majeure exceed twelve months, the parties to the contract shall be at liberty to foreclose the contact after holding mutual discussions.

8. Contractor's Risks -

- 8.1 All risks of loss or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract are the responsibility of the Contractor.
- 8.2 All risks and consequences arising from the inaccuracies or falseness of the documents, drawing, designs, other documents and/or information submitted by the contractor shall be the responsibility of the Contractor alone, notwithstanding the fact that the design/ drawings or other documents have been approved by the department.

9. Liability for Accidents to Person

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

10. Contractor to Construct the Works

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

11. Discoveries

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

12. Dispute Resolution System

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

B. Time Control

13. Programme

- 13.1 Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Programme showing the general methods arrangements, order and timing for all the activities for the construction of works.
- 13.2 **The program shall be supported with all the details regarding key personnel, equipment and machinery proposed to be deployed on the works for its execution.** The contractor shall submit the list of equipment and machinery being brought to site, the list of key personnel being deployed, the list of machinery/equipment being placed in field laboratory and the location of field laboratory along with the Programme.
- 13.3 An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.

13.4 The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

13.5 The Engineer's approval of the Programme shall not alter the Contractor's obligations.

14. Extension of Time

14.1. If the Contractor desires an extension of time for completion of the work on the ground of his having been unavoidably hindered in its execution or on any other grounds, he shall apply, in writing, to the Engineer-in-charge, on account of which he desires such extension. Engineer-in-Charge shall forward the aforesaid application to the Competent Authority as prescribed.

14.2 The competent authority shall grant such extension at each such occasion within a period of 30 days of receipt of application from contractor and shall not wait for finality of work. Such extensions shall be granted in accordance with provisions under clause 15 of this agreement.

14.3 In case the work is already in progress, the Contractor shall proceed with the execution of the works, including maintenance thereof, pending receipt of the decision of the competent authority as aforesaid with all due diligence.

15. Compensation for delay

15.1 The time allowed for carrying out the work, as entered in the agreement, shall be strictly observed by the Contractor.

15.2 The time allowed for execution of the contract shall commence from the date of signing of the agreement. It is clarified that the need for issue of work order is dispensed with.

15.3 In the event milestones are laid down in the Contract Data for execution of the works, the contractor shall have to ensure strict adherence to the same.

15.4 Failure of the Contractor to adhere to the timelines and/or milestones shall attract such liquidated damages as is laid down in the Contract Data.

15.5 In the event of delay in execution of the Works as per the time lines mentioned in the Contract Data the Engineer-in-charge shall retain from the bills of the Contractor amount equal to the liquidated damages leviable until the Contractor makes such delays good. However, the Engineer-in-charge shall accept bankable security in lieu of retaining such amount.

- 15.6 If the Contractor is given extension of time after liquidated damages have been paid, the Engineer in Charge shall correct any over payment of liquidated damages by the Contractor in the next payment certificate.
- 15.7 In the event the Contractor fails to make good the delay until completion of the stipulated contract period (including extension of time) the sum so retained shall be adjusted against the liquidated damages levied.

16. ~~Contractor's quoted offer:~~

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

C. Quality Control

17. Tests

- 17.1 The Contractor shall be responsible for:
- a. Carrying out the tests prescribed in specifications, and
 - b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.
- 17.2 The contractor shall have to establish field laboratory within the time specified and having such equipments as are specified in the Contract Data.
- 17.3 Failure of the Contractor to establish laboratory shall attract such penalty as is specified in the Contract Data.
- 17.4 Ten percent of the mandatory test prescribed under the specification shall be got carried out through laboratories accredited by national Accreditation Board of laboratories (NABL) By the Engineer-in-charge and the cost of such testing shall be deducted form the payments due to contractor .

18. Correction of Defects noticed during the Defect Liability Period

- 18.1 The Defect Liability Period of work in the contract shall be as per the Contract Data.
- 18.2 The Contractor shall promptly rectify all defects pointed out by the Engineer well before the end of the Defect Liability Period. The Defect Liability Period shall automatically stand extended until the defect is rectified.
- 18.3 If the Contractor has not corrected a Defect pertaining to the Defect Liability Period to the satisfaction of the Engineer, within the time specified by the Engineer, the Engineer will assess the cost of haying the Defect corrected, and the cost of correction

of the Defect shall be recovered from the Performance Security or any amount due or that may become due to the contractor and other available securities.

D. COST CONTROL

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

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

20. Extra items

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

21. Payments for Variations and / or Extra Quantities

- 21.1 The rates for such additional (Extra quantity), altered or substituted work / extra items under this clause shall be worked out in accordance with the following provisions in the irrespective order:
- a. The contractor is bound to carry out the additional (Extra quantity), work at the same rates as are specified in the contract for the work.
 - b. If the item is not in the priced BOQ and is included in the SOR of the department, the rate shall be arrived at by applying the quoted tender percentage on the SOR rate.
 - c. If the rates for the altered or substituted work are not provided in applicable SOR - such rates will be derived from the rates for a similar class (type) of work as is provided in the contract (priced BOQ) for the work.
 - d. If the rates for the altered, substituted work cannot be determined in the manner specified in the sub clause (c) above - then the rates for such composite work item shall be worked out on the basis of the concerned Schedule of Rates minus/plus the percentage quoted by the contractor.

- e. If the rates for a particular part or parts of the item is not in the Schedule of Rates and the rates for the altered, or substituted work item cannot be determined in the manner specified in sub clause (b) to (d) above, the rate for such part or parts will be determined by the Competent Authority, as defined in the Contract Data on the basis of the rate analysis derived out of prevailing market rates when the work was done.
- f. But under no circumstances, the contractor shall suspend the work on the plea of non-acceptability of rates on items falling under sub clause (a) to (d). In case the contractor does not accept the rate approved by the Engineer in Charge for a particular item, the contractor shall continue to carry out the item at the rates determined by the Competent Authority. The decision on the final rates payable shall be arrived at through the dispute settlement procedure.

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

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

23. 'No Interest Payable

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

24. Recovery from Contractors

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

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

25. Tax -

- 25.1 The rates quoted by the Contractor shall be deemed to be inclusive of the commercial tax and other levies, duties, cess, toll, taxes of Central and State Governments, local bodies and authorities,
- 25.2 The liability, if any, on account of quarry fees, royalties, octroi and any other taxes and duties in respect of materials actually consumed on public work, shall be borne by the Contractor.
- 25.3 Any changes in the taxes due to change in legislation or for any other reason shall not be payable to the contractor.

26. Check Measurements

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

27. Termination by Engineer in charge

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

h) Any other fundamental breaches as specified in the Contract Data.

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

27.4 Notwithstanding the above, the Engineer-in-Charge may terminate the Contract for convenience by giving notice to the Contractor.

28. Payment upon Termination

28.1 If the contract is terminated under clause 27.3, the Engineer shall issue a certificate for value of the work accepted on final measurements, less Advance Payments and Penalty as indicated in the Contract Data. The amount so arrived at shall be determined by the Engineer-in-Charge and shall be final and binding on both the parties.

28.2 Payment on termination under clause 27.4 above -

If the Contract is terminated under clause 27.4 above, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation, of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

28.3 If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered as per clause 24 above.

29. Performance Security

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

30. Security Deposit-

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

30.2 The security deposit may be replaced by equivalent amount of bank guarantee or fixed deposit receipt assigned to the Employer, with validity up to 3 (three) months beyond the completion of Defect Liability Period/ extended Delectability Period.

30.3 The Security Deposit shall be refunded on completion of Defect Liability Period plus 3(three) Months.

31. Price Adjustment

31.1 Applicability

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

31.2 Procedure

1. Contract price shall be adjusted for increase or decrease in rates and price of labor, materials, fuels and lubricants in accordance with following principles and procedures and as per formula given in the contract data.
2. The price adjustable shall be determined during each quarter from the formula given in the contract data.
3. Following expression and meaning are assigned to the work done during each quarter:
 $R = \text{Total value of work during the quarter. It would include the amount of secured advance granted, if any, during the quarter, less the amount of secured advance recovered, if any during the quarter, less value of material issued by the department, if any, during the quarter.}$
4. Weightages of various components of the work shall be as per the Contract Data.

31.3 To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provisions of this or other clauses in the contract the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs.

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

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

32. Mobilization and Construction Machinery Advance

32.1 Payment of advances shall be applicable if provided in the Contract Data.

32.2 If applicable, the Engineer in Charge shall make interest bearing advance payment to the contractor of the amounts stated in the Contract Data, against provision by the contractor of an unconditional Bank Guarantee in a form and by a nationalized/

scheduled banks, in the name as stated in the Contract Data in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the contractor.

32.3 The rate of interest chargeable shall be as per Contract Data.

32.4 The construction machinery advance, if applicable, shall be limited to 80% of the cost of construction machinery and admissible only for new construction machinery.

32.5 The advance payment shall be recovered as stated in the Contract Data by deducting proportionate amounts from payment otherwise due to the Contractor. No account shall be taken of the advance payment or its recovery in assessing valuations of work done, variations, price adjustments, compensation events, or liquidated damages.

33. Secured Advance

33.1 Payment of Secured Advance shall be applicable if provided in the Contract Data.

33.2 If applicable, the Engineer shall make advance payment against materials intended for but not yet incorporated in the Works and against provision by the contractor of an unconditional Bank Guarantee in a form and by a nationalized/ scheduled bank, in the name as stated in the Contract Data, in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been adjusted, but the amount of the guarantee shall be progressively reduced by the amounts adjusted by the contractor.

33.3 The amount of secured advance and conditions to be fulfilled shall be as stipulated in the Contract Data.

33.4 The Secured Advance paid shall be recovered as stated in the Contract Data.

34. Payment Certificates

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

- (a) The Contractor shall submit to the Engineer monthly statements of the value of the work executed less the cumulative amount certified previously, supported with detailed measurement of the items of work executed.
- (b) The Engineer shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.
- (c) The value of work executed shall be determined, based on the measurements approved by the Engineer/ Engineer-in-charge.
- (d) The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed:
- (e) The value of work executed shall also include the valuation of Variations and Compensation Events.
- (f) All payments shall be adjusted for deductions for advance payment, security deposit, other recoveries in terms of contract and taxes at source as applicable under the law.
- (g) The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

- (h) Payment of intermediate certificate shall be regarded as payments by way of advance, against the final payment and not as payments for work actually done and completed.
- (i) Intermediate payment shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or be considered as an admission of the due performance of the contractor any part thereof, in any respect or the occurring of any claim.
- (j) The payment of final bill shall be governed by the provisions of clause 36 of GCC.

E. Finishing the Contract

35. Completion Certificate

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

36. Final Account

- 36.1 The Contractor shall supply the Engineer with a detailed account of the total amount that the Contractor considers payable for works under the Contract within 21 days of issue of certificate of physical completion of works. The Engineer shall issue a Defects Liability Certificate and certify any payment that is due to the Contractor within 45 days of receiving the Contractor's account if it is correct and complete. If the account is not correct or complete, the Engineer shall issue within 45 days a schedule that states the scope of the corrections or additions that are necessary. If the Account is still unsatisfactory after it has been resubmitted, the matter shall be referred to the Competent Authority as defined in the Contract Data, who shall decide on the amount payable to the Contractor after hearing the Contractor and the Engineer in Charge.
- 36.2 In case the account is not received within 21 days of issue of Certificate of Completion as provided in clause 32.1 above, the Engineer shall proceed to finalize the account and issue a payment certificate within 28 days.

F. Other Conditions of Contract

37. Currencies

All payments will be made in Indian Rupees.

38. Labour

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

39. Compliance with Labor Regulations

39.1 During continuance of the Contract, the Contractor and his Sub Contractors shall abide at all times by all existing labor enactments and rules made there under, regulations, notifications and bye laws of the, State or Central Government or local authority and any other labor law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labor law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that, are applicable to construction industry are given in the Contract Data. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made their under, regulations or notifications including amendments, If the Employer is caused to pay or reimburse, such amounts as may .be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/ byelaws/ Acts/Rules / regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct from any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub Contractor in no case shall be treated as the employees of the Employer at any point of time.

40. Audit and Technical Examination

Government shall have the right to cause an audit and technical examination of the works and the final bill of the contract including all supporting vouchers abstract etc to be made after payment of the final bill and if as a result of such audit and technical examination any sun is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed by him to have been done under the contract and found not to; have been executed, the Contractor shall be liable to refund the amount of overpayment and it shall be lawful for Government to recover the same from him in the manner prescribed in clause 24 above and if it is found that the Contractor was paid less than what was due to him, under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by Government to the Contractor.

41. Death or Permanent Invalidity of Contractor

If the Contractor is an individual or a proprietary concern, partnership concern, dies during the currency of the contract or becomes permanently incapacitated, where the surviving partners are only minors, the contract shall be closed without levying any damages/compensation as provided for in clause 28.2 of the contract agreement However, if the competent authority is satisfied about the competence of the survivors,

then the competent authority shall enter into a fresh agreement for the remaining work strictly on the same terms and conditions under which the contract was awarded.

42. Jurisdiction

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

[End of GCC]

Contract Data

<i>Clause reference</i>	<i>Particulars</i>	<i>Data</i>
1.14	Employer	Executive Director, JSCL, Jabalpur
1.15	Engineer	Executive Engineer
1.16	Engineer in Charge	Executive Engineer
1.12	Stipulated period of completion	12months (including Rainy season)
3	Language & Law of Contract	Indian Contract Act 1872
4	Address & contact details of the Contractor	As per Annexure H
	Address & contact details of the Employer/ Engineer- phone, Fax, email.	Executive Director, JSCL
5	Subcontracting permitted for the Contract Value	Upto 10% by approval of employer
6	Technical Personnel to be provided the contractor – requirement, &	As per Annexure - I (Format I-3)
	Penalty, if required Technical Personnel not employed	As per rule
10	Specifications	As per Annexure E
	Drawings	As per Annexure N
12	Competent Authority for deciding dispute under Dispute Resolution System	As per rule
	Appellate Authority for deciding dispute under Dispute Resolution System	Executive Director, JSCL
13	Period for submission of updated construction program	7 days
	Amount to be withheld for hot submitting construction program in prescribed period	As per rule
14	Competent Authority for granting Time Extension.	As per rule
15	Milestones laid down for the contract	YES

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

	If Yes, details of Milestones	As per Annexure – O
	Liquidated damage	As per Annexure – P
17	List of equipment for lab	As per Annexure - Q
	Time to establish lab	As per rule
	Penalty for not establishing field Laboratory	As per rule
18	Defect Liability Period	60 months (5 years) after physical completion of work
21	Competent Authority for determining the rate	As per rule
27	Any other condition for breach of contract	_____
28	Penalty	Penalty Shall include (a) Security deposit as per clause 30 of General Conditions of Contract and (b Liquidated Damages imposed as per clause 15 or Performance Security (Guarantee) including Additional Performance Security (Guarantee), if any, as per clause 29 of General Conditions of Contract, whichever is higher
29	Performance guarantee (Security) shall be valid up to	Till issue of physical Completion Certificate as per Clause 35.1
30	Security Deposit to be deducted from each running bill	At the rate of 5%.
	Maximum limit of deduction of Security Deposit	Up to 5% of Final Contract Amount.
31	Price Adjustment formula and procedure to calculate	Not Applicable in this project.
31.1 (1)	If Price adjustment shall be applicable	Price Adjustment shall be applicable only in case where the amount in NIT is more than Rs. 10 (Ten) Crores. This clause shall not have any bearing with the Contract Amount.
32	32:1 Mobilization and Construction Machinery Advance Applicable	No Mobilization and Construction Machinery Advance shall be payable.

Tender for Survey, Design Construction, Testing & Commissioning of 5 MLD STP of SBR Technology including 5 years of Operation and Maintenance near Ranital Lake in Jabalpur (M.P.)

	32.2 If yes, Unconditional Bank Guarantee	–Not Applicable
	32.3 If yes, Rate of interest chargeable on advances	Not applicable
	32.4 If yes, Type & Amount of Advance payment that can be paid	Not Applicable
	32.5 If yes, Recovery of advance payment	Not Applicable.
33	33.1 secured Advance Applicable	No Secured Advance payable.
	33.2 if yes, Unconditional Bank Guarantee	Not Applicable
	33.2 if yes, Amount of Secured Advance :	Not Applicable
	33.3 if yes, Conditions for secured advance .	Not Applicable
	33.4 if yes, Recovery of Secured advance	Not Applicable
35	Completion certificate - after physical completion of the Work	As per Annexure - U
	Final Completion Certificate — after final payment on completion of the Work	As per Annexure-V
36	Competent Authority	<i>Executive Director, JSCL</i>
37	Salient features of some of the major labour laws that are applicable	As per Annexure – W

Annexure—N

(See clause 10 of Section 3— GCC)

Drawings

NOTE:- PLEASE FIND THE DRAWINGS IN THE ANNEXURE-1A.

ANNEXURE—O

(See clause 15 of Section 3 -GCC)

Details of Milestones

DETAILS OF MILESTONES

The time allowed for the carrying out the work, as entered in the tender form 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 the following financial target,

- 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.

ANNEXURE—P

(See clause 15 of Section 3-GCC)

Compensation for Delay

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

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

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

Annexure – Q
(See clause 17 of Section 3 GCC)

List of Equipment for Quality Control Lab

ANNEXURE - R

(See clause 31 of Section 3 -GCC)

Price Adjustment

The formulas for adjustment of price are as follow:

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

Weightages* of component in the work

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

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

Adjustment for cement component

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

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

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

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

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

P_c = Percentage of cement component of the work

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

Adjustment of steel component

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

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

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

S₀ = The all India wholesale price index for steel (Bars and Rods) on the date of opening of Bids as published by the Ministry of Industrial Development, Government of India, New Delhi (www.eaindustry.nic.in)

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S_i = the all India average wholesale price index for steel (Bars and Rods) for the month under consideration as published by Ministry of Industrial Development, New Delhi (www.eaindustry.nic.in)

P_s = Percentage of steel component of the Work.

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

Adjustment bitumen component

(iv) Price adjustment for increase or decrease is the cost of bitumen shall be paid in accordance with the following formula:

$V_b = 0.85 \times P_b / 100 \times R \times (B_i - B_0) / B_0$

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

B_0 = The official retail price of bitumen at the IOC depot at nearest center on the date of opening of Bids.

B_i = The official retail price of bitumen of IOC depot at nearest center for the 15th day of the month under consideration.

P_b = Percentage of bitumen component of the work.

Adjustment of POL (fuel and lubricant) component

(V) Price adjustment for increase or decrease in cost of POL (fuel and lubricant) shall be paid in accordance with the following formula:

$V_f = 0.85 \times P_f / 100 \times R \times (F_i - F_0) / F_0$

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

F_0 = the official retail price of High speed Diesel (HSD) at the existing consumer pumps of IOC at nearest center on the date of opening of Bids.

f_i = The official retail price of HSD at the existing consumer pumps of IOC at nearest center for the 15th day of month of the under consideration.

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

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

Annexure - S
(See clause 32 of Section 3-GCC)

Bank Guarantee Form for Mobilization and Construction Machinery Advance

To

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

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

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

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

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

Yours truly,

Signature and Seal: _____

Name of Bank/Financial Institution: _____

Address: _____

Date: _____

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

Annexure - T
(See clause 33 of Section 3 -GCC)

Bank Guarantee Form for Secured Advance

INDENTURE FOR SECURED ADVANCES

This indenture made the _____ day of _____ 20__ BETWEEN _____ (hereinafter called the contractor which expression shall where the context so admits or implies be deemed to include his executors, administrators and assigns) or the one part and the Employer of the other part.

Whereas by an agreement dated _____ (hereinafter called the said agreement) the contractor has agreed.

AND WHEREAS the contractor has applied to the Employer that he may be allowed advanced on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to executive at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges)

AND WHEREAS the Employer has agreed to advance to the Contractor the sum of Rupees _____ on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advance attached to the Running Account Bill for the said works signed by the Contractor on _____ and the Employer has reserved to himself the option of making any further advance or advances on the authority of other materials brought by the Contractor to the site of the said works.

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

That the said sum of Rupees _____ so advanced by the Employer to

(1) the Contractor as aforesaid and all or any further sum of sums advanced as aforesaid shall be employed by the Contractor in or towards expending the execution of the said works and for no other purpose whatsoever.

(2) That the materials details in the said Account of Secured Advances which have been offered to and accepted by the Employer as security are absolutely the Contractor's own propriety and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance, on the security Of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnified the Employer against all claims to any materials in respect of which an advance has be made to him as aforesaid.

(3) That the materials detailed in the said account of Secured Advances and all other materials on the security of which any further advance or advances may here after be made

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as aforesaid (hereafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Engineer.

(4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Engineer or any officer authorized by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same required by the Engineer.

(5) That the said materials shall not be removed from the site of the said works except with the written permission of the Engineer or an officer authorized by him on that behalf.

(6) That the advances shall be repayable in full when or before the Contract receives payment from the Employer of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the Employer will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials than actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.

(7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing of the Employer shall immediately on the happening of such default were payable by the Contractor to be the Employer together with interest thereon at twelve percent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs, charges, damages and expenses incurred by the Employer in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the Employer to reply and pay the same respectively to him accordingly.

(8) That the Contractor hereby charges all the said materials with the repayment to the Employer of the said sum of Rupees _____ and any further sum of sums advanced as aforesaid and all costs, charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the power contained therein if and whenever the covenant for payment and repayment here-in-before contained shall become enforceable and the money owing shall not be paid in accordance there with the Employer may at any time thereafter adopt all or any of the following courses as he may deem best:

(a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the contractor in accordance with the provision in that behalf contained in the said agreement debiting the contractor with the actual cost of effecting such completion and the amount due to the contractor with the value of work done as if he had

carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the contractor, he is to pay same to the Employer on demand.

(b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or repayable to the Employer under these presents and pay over the surplus (if any) to the Contractor.

(C) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.

(9) That except in the event of such default on the part of the contractor as aforesaid interest on the said advance shall not be payable.

(10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been here-in-before expressly provided for the same shall be referred to the Employer whose decision shall be final and the provision of the Indian Arbitration Act for the time being in force shall apply to any such reference.

Annexure - U
(See clause 35 of Section 3 -GCC)

Physical Completion Certificate

Name of Work:

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

Agreement NoDate

Amount of Contract Rs

Name of Agency

UsedMB No.

Last measurement recorded

a. Page No. &MB No. _____

b. Date _____

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

Date of issue

Executive Engineer/Engineer-in-charge
.....
.....

Annexure-V
(See clause 35 of Section 3-GCC)

Final Completion Certificate

Name of Work:

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

Agreement noDate

Name of Agency:

Used MB No.

Last measurement recorded

a: Page No. & MB No. _____

b. Date _____

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

Agreemented amount Rs

Final Amount paid to contractor Rs.

Incumbency of officers for the work

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

Date of issue

Executive Engineer

.....
.....

Annexure - W
(See clause 39 of Section 3 -GCC)

Salient Features of Some Major Labour Laws Applicable

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

- I) **Payment of Bonus Act 1965:** - The Act is applicable to all establishments employing prescribed minimum (say, 20) or more workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of wages to employees drawing up to the prescribed amount of wages, calculated in the prescribed manner. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.
- j) **Industrial Disputes Act 1947:** - The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- k) **Industrial Employment (Standing Orders) Act 1946:** - It is applicable to all establishments employing prescribed minimum (say, 100, or 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and gets these certified by the designated Authority.
- l) **Trade Unions Act 1926:** - The Act lays down the procedure for registration of trade unions of workmen and Employers. The Trade Unions registered under the Act have, 'been given certain immunities from civil and criminal liabilities.
- m) **Child Labour (Prohibition & Regulation) Act 1986:** - The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labour is prohibited in building and construction industry.
- n) **Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act 1979:** - The Act is applicable to an establishment which employs prescribed minimum (say, five) or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as Housing, Medical-Aid, Traveling expenses from home up to the establishment and back etc.
- o) **The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996** - All the establishments who carry on any building or other construction work and employs the prescribed minimum (say, 10) or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, first-aid facilities, ambulance, housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- p) **Factories Act 1948:** - The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual

earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say, 10) persons or more with aid of power, or another prescribed minimum (say, 20) or more persons without the aid of power engaged in manufacturing process.

Conditions of Contract

Part – II Special Conditions of Contract [SCC]

1. All works shall be carried out in strict accordance to the norms, procedure and specifications issued and enforced by BIS in Relevant Indian Standard specifications and code of Practices with up to date amendments and revisions, latest edition of National building code and National electric code. In addition the installation shall comply in all respects with the requirements of Indian Electricity Act 1910 and Indian Electricity Rule 1956 with up to date amendments and revisions and special requirements if any of the M.P. State Electricity Board or Chief Electrical Advisor to Government of Madhya Pradesh cum Chief Electrical Inspector and his subordinate office.
2. The contractor shall ***make his own arrangements for supply of water and electricity*** at his expense required for execution of work. The JSCL shall neither make any such arrangements nor shall make any payments in this regard.
3. The contractor has to ***construct at his own cost his site office and store at site on a suitable place and location as permitted by JSCL***. The JSCL shall not provide any place or room in the building under construction for storage of equipment's required for work. No amount shall be paid to the contractor in this regard.
4. ***Proper upkeep and maintenance and safety of store and stocks of materials brought at site shall be the sole responsibility of the contractor.*** The materials got damaged due to negligence of its up keeping at site or due to mishandling shall have to be replaced by the contractor at his own cost. On discovery of such damages the JSCL shall recover the amount paid through the running bills to the contractor and shall only be reimbursed after the replacement of the same. The JSCL shall also not be responsible for theft of materials from site and the contractor has to replace all such materials at his own cost. No compensation whatsoever shall be payable to the contractor on above grounds.
5. Time being the essence of the contract, the contractor shall ***before drawl of agreement prepares a detail time bound work execution program which shall be approved by Engineer in charge.*** The contractor has to execute the work in strict accordance to the time bound execution program submitted by him, mutually agreed, approved.
6. Time schedule can be revised by the JSCL for any unforeseen unavoidable reasons whatsoever. It may be necessary to stop the work at certain place due to some unavoidable reasons and restart the work at later date. Such contingencies shall not vitiate the contract and shall not be considered a ground for extra claim for any reason whatsoever. However time extension shall be allowed only for such days for which the work was stopped by JSCL.

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7. The contractor shall not be entitled to any compensation for any loss suffered by him on account of delay in commencement or execution for work whatever the cause of delay may be including delay arising out of other materials, supply of materials, transportation for any matter related with MPPKVV Co. Ltd. & Electrical Safety Department or any other reasons whatsoever, the JSCL shall not be liable for any claim in respect thereof.

8. The contractor shall finalize the layout of work, physically at site, and get approved by MPPKVV Co. Ltd. Jabalpur Before placing orders for material. Approval of above layout by MPPKVV Co. Ltd. Jabalpur shall be general and shall not absolve the contractor with responsibility of its correctness.

9. The contractor shall within specified period from the date of issue of work order shall prepare all relevant drawings to be submitted to the applicable office of Electrical Inspector MP Govt or any other competent office for approval. All required sanctions and approvals from the above offices shall have to be obtained by the contractor within the above stipulated period at his own cost.

10. Rate quoted shall be applicable for works at all height unless otherwise specified in the schedule of quantities.

11. The contractor shall submit the drawing in three sets to JSCL for this work duly approved by the Office of the electrical Inspector MP govt. and MPPKVV Co. Ltd. Jabalpur within specified days from the date of work order. The approval of these drawing will be general and will not absolve the contractor of the Responsibility of the correctness of those drawings.

12. The contractor shall submit test reports of the equipment's to be supplied and drawings for approval of the Engineer in charge before supplying/Installation the equipment. The successful tenderer shall also submit the purchase bill of all items as required and directed at no cost.

13. (A) The contractor shall have to arrange all free of cost facilities for the inspection, such as employ or material labor etc. and any fees payable to Government or any competent authority at his own cost. The contractor shall arrange to obtain all sanctions from the concerning office of MPPKVV Co. Ltd. and from the elect. Inspector Govt. of M.P. at his own cost. Any fees in respect of above work paid by the contractor shall not be reimbursed or refunded by the JSCL and no claim for compensation shall be entertained in this regard. Copy of all such sanctions has to be submitted to Engineer In charge JSCL.

(B) The contractor has to arrange factory inspection of all major items as required by Engineer –in-Charge at the manufacturer's works before dispatch of material. Date of inspection should be informed 15 days in advance to JSCL. If required by the Engineer-in-Charge or concerned office of MPPKVV Co. Ltd. or the contractor has to get any equipment or complete installation checked and tested by any Government/Semi Government/ Private authority such as CPRI, BHEL, NABL laboratory, Testing department of MPPKVV Co. Ltd. Jabalpur etc. at his own cost. He shall also provide free of cost all labor, material, equipment's etc. for the purpose of above testing. The contractor shall not be entitled for any

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compensation on this ground. If required by Engineer-in-Charge contractor will have to arrange for third party inspection of entire installation done by him and he will have to rectify / repair / replace any defects pointed out by inspection agency.

(C) The consultant appointed by JSCL is authorized for following:

- a) To visit the site from time to time to inspect the quality of work.
- b) To issue working drawings with specifications to the contractor.
- c) Technically guide the contractor if required.
- d) To accompany JSCL officials for factory inspections of material if required.

14. The contractor shall be responsible for removal of all defects and shall make rectification in the work at his own cost if any at the time of handing over the installation to MPVV Co. Ltd. without any claim for compensation.

15. It shall be the duty of the contractor to arrange all clearances from Electrical Inspector MP Govt, to coordinate and peruse the officers of MPPKVV Co. Ltd. for periodical inspections during the currency of contract and final inspection of the work and get the complete installation electrically charged. No extra payment shall be made to the contractor in above account.

16. The contractor at his own cost and efforts shall arrange periodical inspection of work by various officers of MPSEB during course of execution of work and any instruction issued by the officers of MPVV Co. Ltd. shall be communicated to JSCL in writing by the contractor and prior permission shall be taken from JSCL before its compliance.

17. The contractor should note that any delay / on the part of MPPKVV Co. Ltd. on any account what so ever shall not be entertained as a reason for time extensions in case of delay in completion of the work covered under this entire contract. The tenderer should therefore be aware and should not that execution and timely completion of External Electrification work in full coordination with other development and construction works covered under the scope of contract shall be sole responsibility of successful tenderer.

18 The complete installation shall be guaranteed for sixty calendar months after physical completion of work. During this period the contractor will have to maintain & operate entire system at his own cost by employing his manpower and required material without any extra cost to JSCL. The guarantee & maintenance period shall be reckoned from the date of charging and handing over the installation to MPPKVV Co. Ltd (physical completion). The date of handing over the installation to MPPKVV Co. Ltd. by contractor shall be the date of completion of physical work. All Compact type Packaged substations, Transformers, RMUs, VCBs, capacitor banks, feeder pillars, switches, fuses, CTs, PTs, cables, conductors, poles, earthing, lighting fixtures, etc. shall be guaranteed for 60 calendar months from the date of handing over the installation to MPPKVV Co. Ltd (physical completion). The contractor has to replace / repair the faulty or damaged material to the full satisfaction of JSCL/ MPPKVV Co. Ltd. in the event of failure / damage of any item during the said guarantee period.

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19. The contractor has to quote his rates for items in strict accordance to the list of approved make of materials. The tenderer has to ensure before filling up the rates regarding their availability and period of delivery.

20. The contractor shall note that during the execution of works there is likelihood in charge of layout, specification and change in quantities of items entered in the schedule of items for which the contractor has tendered his rates. The increase or decrease in the quantities of such items may be up to any extent and the tenderer shall not be entitled to any compensation for any loss suffered by him on account or procurement of additional quantities of such items due to such changes.

21. Time schedule may be revised by the JSCL from time to time keeping in view of the approval of drawings or items or for any reasons whatsoever. It may be necessary to stop the work at certain places due to some unavoidable reasons and restart the work at later date. Such contingencies shall not vitiate the contract and shall not be considered a ground for extra claim.

22. The contractor shall not be entitled to any compensation for any loss suffered by him on account of delay in commencement or execution of work whatever the cause of delay may be including delay arising out of other materials or any reasons whatever and the JSCL shall not be liable for any claim in respect thereof.

23. All dismantled material to be deposited at M.P.P.K.V.V.C.L. store by the contractor without any extra cost.

24. Performance security will be 5% of the contract value. The successful bidder shall bound to submit Performance Security in the form of FDR format scheduled bank or a bank guarantee of 5% of contract value at the time of agreement & in addition to this 5% will be deducted from bills as security deposit. This Performance Security (5%) and security deposit (5%), that is total 10% shall be released after satisfactory completion of the contract after the maintenance period.

25

<u>CONTRACTORS MAY QUOTE THE RATES CONSIDERING THE BELOW MANDATORY MACHINERIES.</u>
<u>NO EXTRA RATE SHALL BE PAID IN THE BELOW ITEMS OF EMBANKMENT, G.S.B, C.R.M, CONCRETE, ETC. FOR MANDATORY MACHINERIES.</u>
<u>* NOTES FOR CONCRETE WORK</u>
<u>It is mandatory to use laid with a slip form paver with electronic sensor, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, placing of dowel bar and tie rod, admixtures as approved, curing compound, finishing to lines and grades as per approved drawings as per IRC-15 2002 and as per relevant clauses of section-602 of MORTH specifications complete but excluding cost of steel in dowel bar & tie rod etc.</u>
<u>* NOTES FOR CONSTRUCTION OF EMBANKMENT WORK</u>

It is mandatory to use mortar grader and vibratory roller and compaction at o.m.c not more than 30 cm layer.

*** NOTES FOR GRANULAR SUBBASE**

It is mandatory to use material C.B.R. > 30 spreading and uniform layers with mortar grader.

*** NOTES FOR CRM**

It is mandatory for spreading and mixing with a mortar grader, watering and compacting with a vibratory roller as per clause 41

SECTION 4

For sewage treatment plant and sump well, sewage pump and motors, screen chambers, primary treatment unit, oil and grease remover, SBR (secondary treatment unit), chlorination tank (tertiary unit), sludge handling unit, control room, roads and boundary wall, plantation, operation, approach road and maintenance for 5 years and other allied works.

Payment shall be made as per the below payments schedule for STP.

- 1) 5% shall be payable to the contractor after approval of survey, designs and drawings.
- 2) 10% shall be payable to the contractor after completion of excavation and foundation work up to plinth level.
- 3) 10% shall be payable to the contractor after Completion of primary treatment unit, collecting tank and oil and grease remover.
- 4) 15% shall be payable to the contractor after Completion of secondary treatment unit (SBR).
- 5) 5% shall be payable to the contractor after Completion of sludge handling unit.
- 6) 5% shall be payable to the contractor after Completion of sludge handling unit.
- 7) 10% shall be payable to the contractor on supply of all electrical and mechanical equipment's.
- 8) 10% shall be payable to the contractor on after erection installation of all electrical and mechanical equipment.
- 9) 10% shall be payable to the contractor after Completion of admin building, control room, road and boundary wall, plantation.
- 10) 10% shall be payable to the contractor after the whole work and trial run for a period of 3 months.
- 11) 10% shall be payable to the contractor after successful completion of Operation and maintenance period.

SECTION 5

AGREEMENT FORM

AGREEMENT

This agreement, made on the _____ day of _____ between: _____ (name and address of Employer) (hereinafter called "the Employer) and _____ (name and address of contractor) hereinafter called "the Contractor' of the other part.

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

NOW THIS AGREEMENT WITNESSED as follows:

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

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

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

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

Binding Signature of Employer _____

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Binding Signature of Contractor _____

Annexure - X

FORM OF BANK GUARANTEE

Performance Security/Additional Performance Security

The Executive Director,

Jabalapur Smart City Limited

Jabalpur

WHEREAS:

- A. _____
_____ [name and address of contractor] (hereinafter called the "*Contractor*") and Jabalpur Smart City Limited, (hereinafter called the "*Employer*") have entered into an agreement (hereinafter called the "*Agreement*") for the Construction of *Construction of Smart Road & Under Ground Electrification Work under Phase – II in ABD Area, Jabalpur in the state of Madhya Pradesh* on online percentage rate (*the "percentage rate"*) basis, subject to and in accordance with the provisions of the Agreement.
- B. The Agreement requires the Contractor to furnish a Performance Security for due and faithful performance of its obligations, under and in accordance with the Agreement, during the {Construction Period/ Defects Liability Period and Maintenance Period} (as defined in the Agreement) in a sum of Rs. _____ cr. In words (Rupees _____ crore) (*the "Guarantee Amount"*).
- C. We, _____ through our branch at _____ (*the "Bank"*) have agreed to furnish this bank guarantee (hereinafter called the "*Guarantee*") by way of Performance Security.

NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably guarantees the due and faithful performance of the Contractor's obligations during the {Construction Period/ Defects Liability Period and Maintenance Period} under and in accordance with the Agreement, and agrees and undertakes to pay to the Employer, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Contractor, such sum or sums up to an aggregate sum of the Guarantee Amount as the Employer shall claim, without the Employer being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.
2. A letter from the Employer, under the hand of an officer not below the rank of Engineer in Charge in the Jabalpur Smart City Limited, that the Contractor has committed default in the due and faithful performance of all or any of its obligations

under and in accordance with the Agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that the Employer shall be the sole judge as to whether the Contractor is in default in due and faithful performance of its obligations during and under the Agreement and its decision that the Contractor is in default shall be final and binding on the Bank, notwithstanding any differences between the Employer and the Contractor, or any dispute between them pending before any court, tribunal, arbitrators or any other employer or body, or by the discharge of the Contractor for any reason whatsoever.

3. In order to give effect to this Guarantee, the Employer shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Contractor and/or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.
4. It shall not be necessary, and the Bank hereby waives any necessity, for the Employer to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
5. The Employer shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Agreement or to extend the time or period for the compliance with, fulfillment and/ or performance of all or any of the obligations of the Contractor contained in the Agreement or to postpone for any time, and from time to time, any of the rights and powers exercisable by the Employer against the Contractor, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Agreement and/or the securities available to the Employer, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Employer of the liberty with reference to the matters aforesaid or by reason of time being given to the Contractor or any other forbearance, indulgence, act or omission on the part of the Employer or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.
6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Employer in respect of or relating to the Agreement or for the fulfillment, compliance and/or performance of all or any of the obligations of the Contractor under the Agreement.
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the Guarantee Amount and this Guarantee will remain in force for the period specified in paragraph 8 below and unless a demand or claim in writing is made by the Employer on the Bank under this Guarantee all rights of the Employer under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.

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8. The Guarantee shall cease to be in force and effect on ****\$. Unless a demand or claim under this Guarantee is made in writing before expiry of the Guarantee, the Bank shall be discharged from its liabilities hereunder.
9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Employer in writing, and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.
10. Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorised to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Employer that the envelope was so posted shall be conclusive.
11. This Guarantee shall come into force with immediate effect and shall remain in force and effect for up to the date specified in paragraph 8 above or until it is released earlier by the Employer pursuant to the provisions of the Agreement.
12. This guarantee shall also be operatable at our..... Branch at Jablapur, from whom, confirmation regarding the issue of this guarantee or extension / renewal thereof shall be made available on demand. In the contingency of this guarantee being invoked and payment thereunder claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.

Signed and sealed this day of, 20..... at

SIGNED, SEALED AND DELIVERED

For and on behalf of the Bank by:

(Signature)

(Name)

(Designation)

(Code Number)

(Address)

NOTES:

- (i) The bank guarantee should contain the name, designation and code number of the officer(s) signing the guarantee.

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- (ii) The address, telephone number and other details of the head office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing branch.

Appendix 1

Format for Affidavit Certifying no Blacklisting

(On Non - judicial stamp paper of Rs 100/- or such equivalent document duly attested by notary public)

Affidavit

I, M/s. (Sole Bidder / Lead Partner/ Other Member(s), (the names and addresses of the registered office) hereby certify and confirm that we or any of our promoters/directors are not barred by the Employer or blacklisted by any state government or central government / department / funding agency in India from participating in projects, either individually or as partner of a Joint Venture as on the __/__/____(seven days prior to date for close for bidding).

We undertake that, in the event of us or any of our promoters/directors being blacklisted / barred at any time post the date of this affidavit, we shall intimate the Employer of such blacklisting.

We further confirm that we are aware that as per Clause 25 of the Tender for Selection of Contractor for _____, our Bid for the captioned project would be liable for rejection in case any material misrepresentation is made or discovered with regard to the requirements of the bid document at any stage of the bidding process or thereafter the contract agreement will be liable for termination.

Dated thisDay of, 2020.

Name of the Bidder

.....

Signature of the Authorised Signatory

.....

Name of the Authorised Signatory

Note:

- To be executed separately by all the partners in case of joint venture.

Appendix 2

Note: The detailed and signed CV's of all the Key Technical Personnel, recently signed (not older than 3 months from the due date of submission of bid) by the key personnel himself, must be furnished along with the bid as per proforma given below. Non-compliance of the above or non-furnishing of the CV as above or conditional deployment of any of the above personnel or proposal to employ lesser number of personnel than above may make the bid non responsive and financial bid may not be opened.

Format of Curriculum Vitae (CV) For Proposed Key Staff

1. Proposed Position:

2. Name of Staff:

3. Date of Birth: _____ **(Please furnish proof of age)**

4. Nationality:

5. Educational Qualification:

(Summarize college/university and other specialized education of staff member, giving names of schools, dates attended and degrees obtained). (Please furnish proof of qualification)

Contact Address with Phone and mobile numbers:

6. Membership of Professional Societies:

7. Publication:

(List of details of major technical reports/papers published in recognized national and international journals)

8. Employment Record:

*(Starting with present position, list in reversed order, every employment held. List all positions held by staff member since graduation, giving dates, names of employing organization, title of positions held and location of assignments. For experience **period of specific assignment must be clearly mentioned**, also give client references, where appropriate).*

9. Summary of the CV

(Furnish a summary of the above CV. The information in the summary shall be precise and accurate. The information in the summary will have bearing on the evaluation of the CV).

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A) Education:

i) Field of Diploma/Graduation and year

ii) Field of post-graduation and year

iii) Any other specific qualification

B) Experience

i) Total experience in relevant Works: _____ Yrs.

ii) Responsibilities held:

i) _____ Yrs.

ii) _____ Yrs.

iii) _____ Yrs.

iii) Relevant Experience: _____ Yrs.

C) Permanent Employment with the Firm (Yes/No):

If yes, how many years:

If no, what is the employment?

Arrangement with the firm?

Certification:

1 I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage myself in any other assignment during the currency of this assignment on the project

2 I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes myself my qualification and my experience.

Signature of the Candidate _____

Place _____

Date

Signature of the Authorized Representative of the firm _____

Place _____

Date

Note: Each page of the CV shall be signed in ink by both the staff member and the Authorized Representative of the firm.

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-End of Document-