REQUEST FOR PROPOSAL

For

DEVELOPMENT OF INFRASTRUCTURE WORKS INCLUDING 15 MLD SEWAGE TREATMENT PLANT BASED ON OPEN TECHNOLOGYAND ALLIED WORKS ON DESIGN, BUILD AND OPERATE BASIS WITH OPERATION AND MAINTENANCE OF 5 YEARS AT BORSOLA BEEL IN GUWAHATI

Volume IV : Preambles to Price Bid

Client:

Guwahati Smart City Limited,
Guwahati, Assam

DOCUMENT NO.: .10477A-CV-3000-3102

PREAMBLE TO PRICE SCHEDULES

1. This bid is for "Development of Infrastructure Works, 15 MLD Sewage Treatment Plant and based on Open Technology and Allied Works on Design, Build and Operate basis with Operation and Maintenance of 5 Years at Borsola Beel in Guwahati"

2. The bidder shall quote his firm and fixed price under this Contract, defined in more details in various sections of this bid document.

3. It will be entirely at the discretion of the Employer to accept or reject the bidder's proposal, without giving any reason whatsoever.

4. For the purpose of information, bidders shall furnish the details as per Part E 'Manpower during operation and maintenance of STP' and Part F 'List of Recommended spares, tools & tackles', The rates shall be quoted in INR in the given Proforma.

5. The rates and prices shall be submitted in the electronic formats only. Rates and prices received in any other formats will be rejected and the Bids will be disqualified.

6. No column in the Price Bid shall be left blank. In case the price is not quoted for any item, the bidder shall be deemed to have covered the cost of such items (according to the requirements of the bid document) elsewhere in the prices quoted for other items and no extra payment on this account will be made. For evaluation purpose the rate of such item will be considered zero (0) to sum up the price of that part.

7. Items not specifically listed in Price Bid , but required to be executed for satisfactory working of the system as specified, will not be separately paid for by the Employer when executed and shall be deemed to be already covered by other items and rates listed in the price sheets and total price quoted in 'Summary of Price'. No extra payment shall be given for any item which is required for successful completion and commissioning of the project.

8. Bidder shall give year wise break up of cost for Operation and Maintenance

9. The bidder shall mention the extent of land requirement in technical bid duly justified in the Layout Plan as per Part-G.

10. The quoted price by the bidder shall be evaluated as per 'Evaluation of Price Bid' under Volume-IV.

11. Payment Schedule given in Volume –IV, shall form the basis to work out schedule of Interim payments during construction period

12. The bidder shall be deemed to have allowed in his bid proposal for all miscellaneous provisions, maintenance cost of equipments and establishments with final removal of all temporary works of whatsoever nature required for construction including temporary bunds, diverting water, pumping, de-watering etc for the proper execution of works. The rates shall also be deemed to have included any works and setting out that may be required to be carried out for laying of pipeline and construction of structures of all the works involved. The Bidder shall bear the Travelling the travelling and TA/DA cost of GSCL/PMC personnel to factory site for inspection of material

13. The Price Schedules are to be read in conjunction with the Conditions of Contract, the Specifications and other sections of these bid documents and these documents are to be taken as mutually explanatory of one another.

14. The bidder shall obtain available information / document/ data on survey work, soil investigation work and any other data required for his proposal at his own cost.

15. The prices quoted shall also include the cost of materials utilized for testing.

16. The bidder should acquaint himself with all the site conditions including but not limited to the access to Work site, HFL, High/low Tide Level as etc. The successful bidder shall have to make suitable access to work sites at his own cost. These accesses may be permitted for the use of the other contractors working for as per instruction of Engineer-in-charge.

17. The item descriptions in price schedule are for subject matter guidance only. The prices shall include all the equipments / materials / accessories and services required as per the specifications.

18. The Rate quoted shall be inclusive of Goods and Service Tax (GST) and applicable duties/taxes, if any

Schedule A of Price Bid –Design & Drawing		
Sr.No	**Description**	**Quoted Price (INR)**
1	Submission and approval of Surveys, Soil Investigations ,Designs, Working Drawings including all layout, sections, typical details, Shop Drawings, as Built drawings ..etc complete for all components of works	To be quoted online as per schedule A
	Total Price of Part A	

Schedule B of Price Bid - Design Build works		
Sr.No	**Description**	**Quoted Price (INR)**
1	Consists of all works like Enabling works, Inlet works, Sewage diversion, Site Grading , Ground improvement, main pumping station works, Sewage Treatment plant, Auxillary building, Retaining wall, Bridge, Road , Sewage interception and Drain collection, Land scape, cable Trench, Liasoning work..etc as per Schedule B of Price Bid	To be quoted online as per schedule attached
	Total Price of Part B	

SCHEDULE C - OPERATION & MAINTENANCE SCHEDULE

SUMMARY

The works of this schedule comprises of the supply of all manpower, electric power for technology, transportation of sludge, spares, repairs and replacement as required and any other requirements for the smooth functioning of the Sewage treatment plant, as well as for all Tendered works with 5 years O & M period from the date of successful commissioning as shown in table below :

Table O & M –SUMMARY		
Schedule	**Description**	**Quoted Price (INR)**
C1	Total of Table O & M – 1st Year	To be quoted online as per schedule for Operation and Maintenance
C2	Total of Table O & M – 2nd Year	
C3	Total of Table O & M – 3rd Year	
C4	Total of Table O & M – 4th Year	
C5	Total of Table O & M – 5th Year	
	Total Price of Part C	

Note: The Prices quoted by Bidder shall be inclusive of all taxes, duties and prevailing GST as per government of India norm

PART C/1
OPERATION & MAINTENANCE

The works of this schedule comprises of the supply of all manpower, electric power, transportation of sludge, spares, repairs and replacement as required and any other requirements for the smooth functioning of the Sewage treatment plant,as well as for all Tendered works with 5 years O & M period during the First year from the date of successful commissioning as shown in table O & M-1 below:

TABLE O & M-1

Item no.	Description	Quoted Price (INR)
1	**Fixed Charges:** It may include manpower charges, admin charges, and any other charges if required.	To be quoted online as per schedule for Operation and Maintenance (Schedule C1)
2	**Power Requirements:** Minimum power requirement in kWh/MLDas per guaranted consumption given by the bidder.. All the charges for the use of power shall be borne by the contractor and paid directly to the concerned Electrical authorities by contractor..	
3	**Flow Dependent Charges for STP Works:** It may include Chlorine, Alum, Poly electrolyte, other chemicals if required and transportation of sludge. Minimum chemical requirement as per as per guaranted consumption given by the bidder	
4	**Replacement Charges for STP Works:** All the Replacement Items as enclosed under Schedule F in Volume IV of Price Bid should be procured and handed over to Employer as Shelve spares for replacement at the end of its design life period.	
5	Charges for all Tendered works other than STP works :	
	Total price for O & M for the First Year	

PART C/2

OPERATION & MAINTENANCE

The works of this schedule comprises of the supply of all manpower, electric power, transportation of sludge, spares, repairs and replacement as required and any other requirements for the smooth functioning of the Sewage treatment plant,as well as for all Tendered works with 5 years O & M period during the Second year from the date of successful commissioning as shown in table O & M-2 below

TABLE O & M-2

Item no.	Description	Quoted Price (INR)
1	**Fixed Charges:** It may include manpower charges, admin charges, and any other charges if required.	To be quoted online as per schedule for Operation and Maintenance (Schedule C2)
2	**Power Requirements:** Minimum power requirement in kWh/MLDas per guaranted consumption given by the bidder.. All the charges for the use of power shall be borne by the contractor and paid directly to the concerned Electrical authorities by contractor..	
3	**Flow Dependent Charges for STP Works:** It may include Chlorine, Alum, Poly electrolyte, other chemicals if required and transportation of sludge. Minimum chemical requirement as per as per guaranted consumption given by the bidder	
4	**Replacement Charges for STP Works:** . All the Replacement Items as enclosed under Schedule F in Volume IV of Price Bid should be procured and handed over to Employer as Shelve spares for replacement at the end of its design life period	
5	Charges for all Tendered works other than STP works :	
	Total price for O & M for the Second Year	

PART C/3
OPERATION & MAINTENANCE

The works of this schedule comprises of the supply of all manpower, electric power, transportation of sludge, spares, repairs and replacement as required and any other requirements for the smooth functioning of the Sewage treatment plant,as well as for all Tendered works with 5 years O & M period during the Third year from the date of successful commissioning as shown in table O & M-3 below

TABLE O & M-3

Item no.	Description	Quoted Price (INR)
1	**Fixed Charges:** It may include manpower charges, admin charges, and any other charges if required.	To be quoted online as per schedule for Operation and Maintenance (Schedule C3)
2	**Power Requirements:** Minimum power requirement in kWh/MLDas per guaranted consumption given by the bidder.. All the charges for the use of power shall be borne by the contractor and paid directly to the concerned Electrical authorities by contractor..	
3	**Flow Dependent Charges for STP Works:** It may include Chlorine, Alum, Poly electrolyte, other chemicals if required and transportation of sludge. Minimum chemical requirement as per as per guaranted consumption given by the bidder	
4	**Replacement Charges for STP Works:** All the Replacement Items as enclosed under Schedule F in Volume IV of Price Bid should be procured and handed over to Employer as Shelve spares for replacement at the end of its design life period	
5	Charges for all Tendered works other than STP works :	
	Total price for O & M for the Third Year	

PART C/4
OPERATION & MAINTENANCE

The works of this schedule comprises of the supply of all manpower, electric power, transportation of sludge, spares, repairs and replacement as required and any other requirements for the smooth functioning of the Sewage treatment plant, as well as for all Tendered works with 5 years O & M period during the Fourth year from the date of successful commissioning as shown in table O & M-4 below

TABLE O & M-4

Item no.	Description	Quoted Price (INR)
1	**Fixed Charges:** It may include manpower charges, admin charges, and any other charges if required.	To be quoted online as per schedule for Operation and Maintenance (Schedule C4)
2	**Power Requirements:** Minimum power requirement in kWh/MLDas per guaranted consumption given by the bidder.. All the charges for the use of power shall be borne by the contractor and paid directly to the concerned Electrical authorities by contractor..	
3	**Flow Dependent Charges for STP Works:** It may include Chlorine, Alum, Poly electrolyte, other chemicals if required and transportation of sludge. Minimum chemical requirement as per as per guaranted consumption given by the bidder	
4	**Replacement Charges for STP Works:** All the Replacement Items as enclosed under Schedule F in Volume IV of Price Bid should be procured and handed over to Employer as Shelve spares for replacement at the end of its design life period	
5	Charges for all Tendered works other than STP works :	
	Total price for O & M for the Fourth Year	

PART C/5

OPERATION & MAINTENANCE

The works of this schedule comprises of the supply of all manpower, electric power, transportation of sludge, spares, repairs and replacement as required and any other requirements for the smooth functioning of the Sewage treatment plant, as well as for all Tendered works with 5 years O & M period during the Fifth year from the date of successful commissioning as shown in table O & M-5 below

TABLE O & M-5

Item no.	Description	Quoted Price (INR)
1	**Fixed Charges:** It may include manpower charges, admin charges, and any other charges if required.	To be quoted online as per schedule for Operation and Maintenance (Schedule C5)
2	**Power Requirements:** Minimum power requirement in kWh/MLDas per guaranted consumption given by the bidder.. All the charges for the use of power shall be borne by the contractor and paid directly to the concerned Electrical authorities by contractor..	
3	**Flow Dependent Charges for STP Works:** It may include Chlorine, Alum, Poly electrolyte, other chemicals if required and transportation of sludge. Minimum chemical requirement as per as per guaranted consumption given by the bidder	
4	**Replacement Charges for STP Works:** All the Replacement Items as enclosed under Schedule F in Volume IV of Price Bid should be procured and handed over to Employer as Shelve spares for replacement at the end of its design life period	
5	Charges for all Tendered works other than STP works :	
	Total price for O & M for the Fifth Year	

Schedule E

MANPOWER DURING OPERATION AND MAINTENANCE PROPOSED IN THE CONTRACT

(To be quoted online as per attach Schedule)

Position	No. of Posts	Rate Per Month in Rs.	Total Cost in INR.
Plant Manager cum Chemist	1	To be quoted online as per schedule for Operation and Maintenance (Schedule E)	
Operator	3		
Electrical Technician	2		
Mechanical technician	2		
Instrumentation Technician	2		
Sewerman+Labour	5		
Mali cum Chowkidar	2		
Bidder shall quote only rates which he has considered as part of operation and maintenance amount			

Schedule F
LIST OF RECOMMENDED SPARES, TOOLS AND TACKLES for STP

(To be quoted online as per attach Schedule)

Sl. No	Item	Quantity	Unit Rate in INR.	Total Price in INR.
	Mechanical			
1	Pumps (1 Set)	1	To be quoted online as per schedule for Operation and Maintenance (Schedule F)	
2	Mechanical Fine Screens (1 Set)	1		
3	Primary Clarifiers (Drive Mechanism) if Proposed	1		
4	Secondary Clarifier (Drive Mechanism) if Proposed	1		
5	Fine Bubble Diffusers (1 Set)	1		
6	Mixers/ Agitators	1		
7	Primary sludge pumps (Set)	1		
8	Return Activated Sludge Pumps (Set), If applicable	1		

9	Anaerobic Sludge Digester (Mechanical and Electrical Equipments)	1	
10	Gravity Sludge Thickeners (Mechanical and Electrical Equipments)	1	
12	Filters	1	
13	Feed Pump and Backwash pump for filters	1	
14	Chlorinators (Set)	1	
15	Dewatering Machines (Set)	1	
	Bidder shall quote only rates which he has considered as part of operation and maintenance amount		

PART G

BREAKUP OF LAND REQUIREMENT
(Part of Technical Bid)

Sl. No.	Description of Unit	Land Required (In m^2)
1	STP with Tertiary treatment units (if required)	
2	Deodorization of Primary and Sludge Treatment Units and UF or Cloth Media Disc Filtration for Reuse (future units).	
3	Sludge drying bed (SDB) for 25% of sludge generated (future use)	
4	Additional land for 2nd Phase (if required)	
	Total Area	

Note:

The Bidder shall have to submit the extent of land requirement in Technical Bid duly justified in the Layout Plan. The excess usage over and above the land requirement proposed by the bidder shall be deducted from his payment towards capital cost at the Prevailing land rate.

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PREAMBLE TO MODE OF PAYMENT

1. The contractor after approval of his detailed designs and drawings shall furnish to the Employer's Representative an initial bill of quantities of all items (to be reviewed and updated periodically). This bill of quantities will be used for assessment of percentage progress of any component at any stage.
2. Measurements jointly taken (for Turnkey works) by the Employer's Representative and the Contractor will be entered in the measurement books and signed jointly by both the parties which shall form the basis for such interim payments.
3. As mentioned in the preamble to price schedule, the provision of measurement will be applicable only for the assessment of value of work done and certified by Engineer-in-Charge
4. Payment for items as mentioned will be released as per provision for interim payment as given in schedule mentioned below.
5. Percentages are indicated in the Payment schedule breakup based on the Employer's best appreciation of the value of the component as related to the total costs of the concerned item as a whole. The percentage breakup as indicated in the Payment schedule breakup, may differ from that corresponding to the Bidder’s scheme and bidder’s design and he should take this into account while quoting his prices for the items specified
6. During O & M, the Contractor shall be paid at the quoted rates per month. The amount withheld against the O & M from the running bill of the contract shall be released as per direction of engineer in charge.
7. The total inflow mentioned in the tender documents is indicative and only for calculation purpose. Any change in the flow as per actual design shall not lead to extra financial implication to the Employer
8. It is clarified by way of abundant caution that contractor shall not claim any additional remuneration in the head of O & M.

Payment Schedule

Sr.no	Item	Weightage in percentage to the Contract Price	Stage for Payment	Percentage weightage	Remarks
1.01	Design & drawings	1%	Submission and approval of Surveys, Soil Investigations ,Designs, Working Drawings including all layout, sections, typical details,Shop Drawings, as Built drawings ..etc complete for all components of works		Payment shall be released on Prorata basis only after approval of working Drawings as per implementation schedule
1.02	Enabling Works	3.3 %	Cleaning & Removal of existing Water Hycinth	1%	Payment shall be done after completion of each activity
			Dismantling of Existing STP and Carting away of same	1 %	
			Removal and Disposal of Sludge at designated site, with proper treatment	96%	
			Dismantling of Existing Walkway Structure	2%	
1.03	Inlet works – Construction of Weir	1.3%	On completion of Sub-Structural Works	40 %	Payment shall be done after completion of each activity
			On completion of Super-Structural Works	40%	
			On completion of all Mechanical works including sluice gate	10%	
			Completion of installation works including testing & commissioning	10%	

1.04	Sewage Diversion Works for Desilting of Beel and Emergency	1.2%	Construction of Bund and laying of sewer line	80%	Payment shall be done after completion of each activity
			On completion of Miscellaneous works	10%	
			Completion of Installation works including testing & commissioning	10%	
1.05	Site Grading	1.3%	Completion of Excavation Work	15%	
			Completion of Backfilling Work	75%	
			On Completion of Miscellaneous Work	10%	
1.06	Ground Improvement work	2.3 %	On Completion of all Necessary work	90%	Payment to be done on Prorata basis
			On Performance of Confirmatory Load Test	10%	
1.07	Main pumping station works including Receiving Chamber, Coarse Screen Channel ,	1.7%	On completion of Sub-Structural work	30%	Payment shall be done after completion of each activity
			On completion of Super-Structural work	10%	
			On completion of Mechanical work	40%	
			Completion of Electrical, Instrumentation, SCAADA works	10%	

	Raw Sewage Sump (Wet Well) of Raw Sewage Pumping Station		Completion of installation works including testing & commissioning	10%	
1.08	Sewage Treatment plant including all auxillary buildings	12.00 %	For Sewage Treatment Plant		Payment shall be done after completion of each activity
			Construction of Structure upto Plinth Level	10%	
			Construction of Structure upto Superstructure	20%	
			Completion of Mechanical works	20%	
			Completion of Electrical, Instrumentation works,	10%	
			Completion of installation works including testing & commissioning	5%	
			For Auxiliary buildings		
			Excavation & Foundation Work to Upto Plinth Level	5%	
			Construction of Structure upto Super Structure	5%	
			Construction of Structure upto Roof Level / Plaster etc complete	5%	
			Plumbing & Sanitary	5%	

			All Electrification Works, Testing, Lab Equipment, Instrumentation and Control Works etc Complete	10%	
			Complete Finishing & ready for Possession	5%	
1.09	RCC Retaining wall, Viewing Decks, Entrance Gates and Compound Wall	38.2	Piling and Foundation work	50%	Unit of measurement is linear length in km. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 25 % (Twenty five per cent) of the total length.
			Construction upto Plinth level / finished level Construction up to Superstructure	40%	
			Completion of all Necessary Work	10%	
1.10	Bridge across Beel	6.1 %	On Completion of Sub-Structural Work,	50%	Payment shall be done after completion of each activity
			On Completion of Super-Structural Work	40%	
			On inspection and satisfactory completion of all works	10%	
1.11	Road	1.4%	Site Clearance & Earth Work up to top of the sub grade	15%	Payment shall be done after completion of each activity
			Sub-Base and Base Courses	50%	
			Bituminous works	25%	

			On inspection and satisfactory completion of all works	10%	
1.12	Sewage interception and collection of drains	0.2 %	Earthwork Excavation Work, PCC work	40%	Payment shall be done after completion of each activity
			Construction of Brick Work	40%	
			Plastering and Finishing Work	10%	
			On inspection and satisfactory completion of all works	10%	
1.13	Development of Landscape	6.4%	On completion of miscellaneous Civil works Guard room, Kiosk, Toilet block..etc	20%	Payment shall be done after completion of each activity
			On completion of hardscape works	25%	
			On Completion of Soft-scaping works	15%	
			On completion of all Mechanical and Electrical works, including irrigation system	30%	
			On satisfactory testing and commissioning of all works	10%	
1.14	Cable trench Duct	2.6 %	On Completion of Civil Works	70%	Payment shall be done after completion of each activity
			On Completion of Electrical Works	20%	
			On satisfactory testing and commissioning of all works	10%	
1.15	Liasoning work	0.5%	On Completion of Work		Payment shall be done after completion

1.16	Arrangement of Supply in case the same is not provided by APDCL	3.4%	On Completion of Work		Payment shall be done after completion
1.17	Supply, Installation of Assets like Boat, Zorbing Ball, Life Jacket, Equipment for Horticulture.	0.09 %	On purchasing of all necessary assets	90%	Payment shall be done after completion of each activity
			On satisfactory testing and commissioning of all works	10%	
	Operation and Maintenance for Five years	17 %	For First Year		Monthly Payment against Amount quoted for respective year
			For Second Year		
			For Third Year		
			For Fourth Year		
			For Fifth Year		

5.0 METHODOLOGY FOR FINANCIAL BID EVALUATION

Employer will first open the technical bid of all the bidders as per schedule given in the instruction to the Bidders in the presence of the bidders or their authorized representatives who choose to attend on the prescribed place, date and time in the bid for bid opening. After opening of the technical bid, Employer will first evaluate bids for qualification requirement stipulated in the bid document.

Prior to the detailed technical evaluation, the Employer will carry out a preliminary examination to determine whether they are complete, whether the required EMD have been furnished, whether the documents have been properly signed, and whether the Tenders are generally in order and whether Qualification criteria to the requirement of the bidding document are met.

The detailed technical bid evaluation of those bids, who are meeting the qualification requirement, will be carried out. The Price bid of the bidders who are not qualified for the bid, will not be opened and returned to the bidder on award of the contract.

Price-Bid will not be opened by Employer, until evaluation of Technical-bids submitted by the bidders is completed and any conclusion is made. In the evaluation of Technical-bid, all the drawings, details etc., submitted by the bidders will be scrutinized before opening of price bid.

In the process of evaluation of Technical-bid, if there are queries regarding the details, data, drawings etc., submitted by the bidders with their Technical-bid then the same will be raised to the bidders and the bidders will have to give the answers / submit more details etc. accordingly..

After complete evaluation of Technical-bids submitted by all the bidders and after any conclusion is made by Employer to its' own discretion, the price bid of technically responsive bidders will be opened. During the financial bid evaluation the bids shall be evaluated as per below formula to decide the lowest evaluated bid.

5.1. EVALUATION OF PRICE BID:

Procedure For Price Bid Evaluation			
Sr. no	Item Description	Schedule Reference	Updated Factors
a)	Total price for Survey, Soil Investigation, Working Drawings , Design	Schedule A	
b)	Total Price for Design Build works	Schedule B	
c)	Price quoted for Operation and Maintenance		
	Annual quoted price for 1st year	C1	
	Annual quoted price for 2nd year	C2	
	Annual quoted price for 3rd year	C3	
	Annual quoted price for 4th year	C4	
	Annual quoted price for 5th year	C5	
	Total O&M Cost ($C=C_1+C_2+C_3+C_4+C_5$)	**C**	
	Total Cost (D=A+B+C)	**D**	
d)	The total price for Construction and Operation & Maintenance (O&M) for 5 years shall be evaluated on NPV method for each bidder. The following factors shall be considered:		
i)	Discounting factor applicable ‘ r ’ = 10%	**r**	10%
ii)	Evaluation will be made by NPV method considering 3.0 years period for construction and 5 years of operation & maintenance.		
iii)	Cash out flow for construction cost = **A+B**		
iv)	n = no. of years for determining discounted cash flow for construction and operation period for NPV calculation		
v)	Discounted cash flow factors for years 1,2,3,....n are taken as d1, d2, d3.....d_n where $d_n = 1/(1+(r/100))^n$ Eg. $d1 = 1/(1+(r/100))^{1.0}$ whereas, n=1.0 for 1st year n=2.0 for 2nd year n=3.0 for 3rd year	d1	0.91
		d2	0.83
		d3	0.75
		d4	0.68
		d5	0.62
		d6	0.56

Procedure For Price Bid Evaluation			
	.... n = n for n^{th} year	d7	0.51
		d8	0.47
d)	**Method of evaluation:** i. 1st year cash out flow for construction cost= 0.25 (25% of construction cost) * (A+B) * d1	1st Year (n_1)	d1*(A +B)*25%
	ii. 2nd year cash out flow for construction cost= (35% of construction cost)* (A+B) * d2	2nd Year (n_2)	d2*(A+B) *35%
	iii. ^{3nd} year cash out flow for construction cost= 0.40 (40% of construction cost)* (A+B) * d3	3rd Year (n_3)	d3 *(A+B)*40%
	iv. 4th year cash out flow (i.e. 1st year for O&M) = d4 * C_1	^{4th} Year (n_5)	d4 * C1
	v. 5th year cash out flow (i.e. 2nd year for O&M) = d5 * C_2	5th Year (n_5)	d5 * C_2
	vi. 6th year cash out flow (i.e. 3rd year for O&M) = d6 * C_3	6th Year (n_6)	d6* C_3
	vii. 7th year cash out flow (i.e. 4th year for O&M) = d7 * C_4	7th Year (n_7)	d7 * C_4
	viii. 8th year cash out flow (i.e. 5th year for O&M) = d8 * C_5	8th Year (n8)	d8 * C5
	Summation of Sl. No. i - viii discounted outflow (NPV) = N		
e)	Total evaluated price = The net present value of the construction cost and the O & M cost with discounted rate of 10% per year (N)	**Total Cost (NPV of Construction & O&M)**	**N**
	The bidder with the lowest price based on the above evaluated price will be considered as L_1 Bidder		
	Total Evaluated Price		

Lowest bidder is decided based on the total evaluated bid value as obtained irrespective of agency's quoted rate subjected to overall technical qualification of the bid.
The Contract shall be awarded as per price quoted by the bidder in the price bid considering Total price consisting of summation of Schedule A, Schedule B & Schedule C

Following Requirements shall be considered for Technical Evaluation purpose

5.2. MINIMUM POWER REQUIREMENTS

Sl. No	Energy Cost	ASP	MBBR	SBR	MBR
1	Min. Technology Power Requirement (kWh/d/MLD) for STP and Pumping station	As per Guaranteed Consumption quoted by the Bidder			

1. The bidder shall have to submit the guaranteed energy consumption details in the Volume II (D). The details submitted on energy consumption will be used while bid evaluation and it will used to verify the same during actual operation.
2. Above minimum requirements are indicative purpose only, however, bidders are requested to provide requirement with detailed calculation of Power & Chemical, as per technology proposed for tender works.
3. Kindly indicate the cost of Spare Parts separately
4. Information relating to the examination, clarification, evaluation and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to successful bidder has been announced. Any effort by a bidder to influence the Employer’s processing of tenders or award decisions may result in the rejection of his bid.
5. The Employer reserves right to select any offer or to reject any or all offers without assigning any reasons thereof. Employer does not bind itself to accept the lowest offer.

Signature of the Bidder (Stamp & Signature)

Date: