

**Name of Work: Design, Supply, Construction, Erection, Commissioning and Operating of (Phase I) 3000 m3/Day Capacity Sewage Treatment Plant based on advanced Sequential Batch Reactor Technology At Mahindra World City (Jaipur) Limited, Jaipur at Processing zone of Special Economic Zone, Mahindra World City (Jaipur) Limited, Jaipur**

**Reference: MWCJL/HR/INFRA/HC ZONE/STP/2013-14/T-32**

**PRE-BID QUERIES**

<b>Sr. No.</b>	<b>Page No.</b>	<b>Clause No.</b>	<b>As per Tender</b>	<b>Pre-bid Query</b>	
1	4 of 549	6	In case if the Contractor does not have the patent for the technology, then the contractor can tie-up with the technology provider and to this effect the contractor should have entered Memorandum of Understanding (MoU) with the technology provider and the same need to be provided along with technical bid.	<p>Since SBR is a specialized technology, the interested Contractors associate with a Technology Provider for process design, supply of specialized equipments and performance guarantee for respective technology. Since any eligibility criterion for technology provider is not specified in the tender, it is quite possible that any inexperienced technology provider may also get selected for the above prestigious project.</p> <p>Hence, we request you kindly to specify minimum eligibility condition for Technology Provider also as specified for the Bidder under Clause 1.</p>	Technology provider should demonstrate the eligibility criteria 1 in addition to the main contractor.

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				<p>Also, please confirm whether Outlet Quality in the Reference Certificates to be provided by the Technology Provider should match with the Treated Sewage Quality specified in the tender documents.</p>	
2	504 of 549 & 639 of 549	2.0  3	<p>Quality of Wastewater / Treatment Plant</p> <p>Table A: Guaranteed Quality of Treated Wastewater from STP</p>	<p>A range has been given against various Parameters (e.g. TSS, BOD, COD etc.). Please confirm whether the System is to be designed for average value or maximum value.</p> <p>Please specify value of Total Phosphorus (TP) to be considered in Raw Sewage.</p> <p>There seems to be some error in the value of Biological Oxygen Demand (BOD) in Treated Sewage. Since treated sewage is to be reused, Outlet BOD should be &lt;5 mg/l. Also, in order to achieve NH<sub>4</sub>-N &lt;2 mg/l, TKN &lt;5 mg/l, NO<sub>3</sub>-N &lt;10 mg/l and TP &lt;1 mg/l, BOD must be &lt;5 mg/l in Treated Sewage. Please review and confirm.</p> <p>There seems to be some error in the value of Ammonical Nitrogen (NH<sub>4</sub>-N) in Treated Sewage. Usually, it should be &lt;2 mg/l in Treated Sewage. Please review and confirm.</p>	<p>System need to be designed to meet the required output quality at all values within the range provided in the tender document</p> <p>TP input value is in the range of 6-10 Mg /l</p> <p>TKN in treated wastewater should be read as less than 5 mg/l instead of "NIL".</p> <p>Parameter Sulphate in treated wastewater is deleted and shall not form the part of guarantee parameters</p> <p>Parameter Total coliform in treated wastewater is</p>

Sr. No.	Page No.	Clause No.	As per Tender	Pre-bid Query	
				<p>There seems to be some error in the value of Total Kjeldahl Nitrogen (TKN) in Treated Sewage. Usually, it should be &lt;5 mg/l in Treated Sewage. Please review and confirm.</p> <p>There seems to be some error in the value of Sulphates in Treated Sewage. Sulphates are not treated in any biological system. Please review and confirm.</p> <p>There seems to be some error in the value of Total Coliform in the Treated Sewage. Please review and confirm.</p>	<p>deleted and shall not form the part of guarantee parameters</p>
3	---	---	General:	<p>Please provide the following details:</p> <p>Invert Level of the Incoming Sewer Line.</p> <p>Average Natural Ground Level at the STP Site.</p> <p>Proposed Finished Ground Level of the STP site.</p> <p>High Flood Level (HFL) of the nearby Disposal Point.</p> <p>Soil Bearing Capacity and Ground Water Table at the proposed STP site.</p>	<p>Sewer IL = 349.269</p> <p>Average NGL = 355.500</p> <p>Proposed Finished Ground Level = 356.200</p> <p>HFL of nearby drain = 353.550</p> <p>Approx SBC at 3mt. depth = 20t/Sq.mt.</p> <p>Approx ground water table &gt;10 mt below GL</p>

Sr. No.	Page No.	Clause No.	As per Tender	Pre-bid Query	
				<p>Battery Limit for incoming sewer line.</p> <p>Battery Limit for Incoming 11 KV HT Power Supply.</p>	<p>Incoming Sewer line is reaching at the STP plot.</p> <p>11 kV supply shall be provided at one location in STP site, contractor shall arrange necessary systems as required.</p>
4	<p>509 of 549</p> <p>530 of 549</p>	<p>6.8</p> <p>9.0</p>	<p>Sequential Batch Reactor Units</p> <p>Diffusers</p>	<p>On Page No. 509 of 549, it is specified that...The oxygen required shall be supplied through Fine Bubble Diffused Aeration System, whereas on Page No. 530 of 549, Coarse Bubble Diffusers with Air Flow Rate per Diffuser = 7 m<sup>3</sup>/hr have been specified.</p> <p>We understand that Fine Bubble Membrane type Diffused Aeration System as per Technology Provider's Design shall be provided.</p>	<p>Fine Bubble diffused aeration system to be provided.</p>
5	517 of 549	1.4	<p>SBR Basins:</p> <p>It is proposed to construct two nos. of SBR Basins of 14100 x 7100 x 5500 mm SWD.</p>	<p>We understand that Dimensions of SBR Basins are indicative only and shall be provided as per Technology Provider's design according to the Design Parameters specified in the tender documents. Please review</p>	<p>The sizes indicated in the tender document are reference purpose only. Bidders are free to increase the sizes as per the technology providers design to meet the required output quality</p>

Sr. No.	Page No.	Clause No.	As per Tender	Pre-bid Query	
				and confirm.	
6	518 of 549  531 of 549	1.5  13	Chlorination System  Chlorine Dosing Pump	On Page No. 518 of 549, it is specified that....Gas Chlorine shall be added at suitable dosing rate, whereas on Page No. 531 of 549, Plunger or Diaphragm type Chlorine Dosing Pump of size 0 - 20 LPH has been specified which indicates NaOCl Dosing System.  Please confirm which type of Chlorination System to be provided.	NaOCl dosing alone should be provided.
7	519 of 549	1.6	Sludge Sump and Dewatered Sludge Sump:  ....and Dewatered Sludge Sump of 1500 x 1500 x 2000 mm SWD...	We understand that Dewatered Sludge Sump is to be provided to collect filtrate from Sludge Drying Beds. We suggest that the filtrate can be conveyed directly to Wet Well through gravity along with other Plant Drains and a separate Sump is not required. Please review and confirm.	Dewatered sludge sump is provided to collect the dewater from the sludge drying beds and the same need to be sent back to the system by suitable pumps / through gravity if feasible.
8	519 of 549	1.7	Sludge Drying Beds  It is proposed to construct 7 Nos. Sludge Drying Beds of 5000 x 1000 x 500 mm size each for dewatering the waste	It is proposed to construct 7 Nos. of Sludge Drying Beds of Size 5.00 m x 1.00 m each (Total Area = 35 m <sup>2</sup> ). It seems there is some typographical	Suggested sludge drying bed size is acceptable.  The bidder requested to quote for sludge drying bed for 1.50 MLD as indicated in the tender.

Sr. No.	Page No.	Clause No.	As per Tender	Pre-bid Query	
			sludge from the biological system.	<p>error as these dimensions are not sufficient. As per design, 4 Nos. of Sludge Drying Beds of Size 14.50 m x 6.00 m each (Total Area = 348 m<sup>2</sup>) shall be required.</p> <p>We suggest providing Decanter Centrifuges (2 Nos.: 1W + 1S) of 5 m<sup>3</sup>/hr each) in place of Sludge Drying Beds. This will save around 300 m<sup>2</sup> area.</p>	<p>However bidders are requested to provide the costing for centrifuge for 3.0 MLD with sludge pump capacity for 1.50 MLD as optional which will be decided during evaluation stage.</p>
9	521 of 549	1.8	<p>Treated Wastewater Tank:</p> <p>....Overflow shall be connected to the nearest drain through RCC Channel/Pipe.</p>	<p>Please provide High Flood Level (HFL) and Distance of nearest Drain from STP Site.</p>	<p>HFL = 353.550 Distance of nearby drain = 25-30 meter approx.</p>
10	521 of 549	1.9	<p>Buildings:</p> <p>It is proposed to construct following structures to facilitate the operation and maintenance of the treatment plant. The structures with minimum suggested area are given below:</p> <p>SBR Air Blower / MCC &amp; Control Building: 15000 x 8000 x 10000 mm High (G+1) with partition walls to</p>	<p>A separate Office cum Laboratory Building is not required. We suggest only one Building of 15.00 m x 8.00 m x 10.00 m Height (G+1) wherein SBR Air Blower Room shall be provided on Ground Floor and MCC cum PLC Room, Office and Laboratory shall be provided on 1st Floor. Please review and confirm.</p>	<p>Bidders are requested to ensure the following provisions:-</p> <p>Minimum office built-up area space of 36.00 Sqm.</p> <p>Minimum laboratory built-up area space of 36.00 Sqm.</p> <p>MCC and control panel for 3.0 MLD should be accommodated in the control panel building.</p>

Sr. No.	Page No.	Clause No.	As per Tender	Pre-bid Query	
			<p>house MCC Panel and other machineries.</p> <p>Office cum Laboratory Building: 6000 x 6000 x 10000 mm High (G+1) with necessary partitions.</p>		<p>Air Blower for 3.0 MLD should be accommodated in the blower room.</p> <p>If the bidder able to accommodate the above provisions in one building of 15.00 m x 8.00 m x 10.00 m Height (G+1), same may be provided.</p>
11	522 of 549	1.10	<p>Filter Pads:</p> <p>Filter Pads will be of the size required for installing the filters of required capacity as indicated in the specifications for equipment. The filters shall be located at a convenient place.</p>	<p>There seems to be some typographical error since Filters are not required. Please review and clarify.</p>	<p>It is typographical error. Kindly ignore the same</p>
12	529 - 530 of 549	7 10 11	<p>Air Blowers: Capacity and Quantity: 450 Nm<sup>3</sup>/hr (3 Nos.: 2W + 1S)</p> <p>Return Activated Sludge (RAS) Pumps: Capacity and Head: 20 m<sup>3</sup>/hr @ 5 mWC</p>	<p>We understand that Capacity of Air Blowers, RSS Pumps and SAS Pumps are indicative only and shall be provided as per Technology Provider's design according to the Design Parameters specified in the tender documents. Please review and confirm.</p>	<p>The sizes indicated in the tender document are reference purpose only. Bidders are free to increase the sizes as per the technology providers design to meet the required output quality</p>

Sr. No.	Page No.	Clause No.	As per Tender	Pre-bid Query	
			Surplus Activated Sludge (SAS) Pumps: Capacity and Head: 20 m3/hr @ 5 mWC		
13	530 of 549	12	Sludge Transfer (Centrifuge Feed) Pumps:	We understand that Sludge Drying Beds shall be provided in 1st Phase whereas Centrifuges as well as Centrifuge Feed Pumps shall be provided in 2nd Phase. Please review and confirm.	Centrifuge feed pumps shall be provided in phase 1 and the same shall be used for transferring the sludge to sludge drying bed in phase 1. In future necessary piping arrangement shall be installed during phase 2 while installing centrifuge.
14	536 of 549  539 of 549  620 of 549	2  4.7  28.6.4	Electrical System: Control Voltage: 110 V  Control supply voltage for the starter feeders (DOL and Star-Delta) will be 110 V AC.  Input & Output System: Power Supply: 230 V AC	Please review and confirm whether Control Supply Voltage shall be 230 V AC or 110 V AC.	Control voltage shall be 110V AC only.
15	538 of 549	4.2	Motors up to and including 10 HP shall be provided with Direct-on-line (DOL)	We suggest allowing Motors for SBR Air Blowers with Variable Frequency Drive (VFD)/Soft	As per process requirement motor control shall be selected by the



Sr. No.	Page No.	Clause No.	As per Tender	Pre-bid Query	
			starters and motors above 10 HP shall be provided with Star-Delta Starters.	Starter as per Process Requirement/Technology Provider's Design. Please review and confirm	technology provider.
16	614 of 549  622 of 549	28.3  28.6.10	<p>Scope of Work:</p> <p>The scope of work shall include...back-up hardwired control panel...</p> <p>Back-up Control Panel:</p> <p>A hardwired back-up panel shall be provided for manual operation of the STP....</p>	<p>We suggest that there is no need of such hardwired control panel. First of all, it is very difficult to operate/control SBR System comprising various operations e.g. Cyclic Operation, Oxygen Uptake Rate Control, Sludge Recycle, Sludge Wasting, Decanting Rate etc. Also it is not advisable to operate/control SBR System manually as it may trigger mal operation of the various set process parameters within the Plant and deteriorate the performance of the Plant.</p> <p>Secondly, the System can be operated manually with the help of Local Control Stations provided near each motor in the field.</p> <p>Please review and confirm.</p>	The control methodology should include manual operation in addition to the auto operation. PLC panel is mentioned as hardwired control panel.
17	616 of 549	28.5	The control system offered shall be state-of-the-art PLC based technology with redundancy provided for	This will increase the cost of the System without any additional benefit. Instead, we suggest providing a Standby	No change. Kindly adhere to the tender conditions. kindly remove the separate HMI provided in

Sr. No.	Page No.	Clause No.	As per Tender	Pre-bid Query	
			processor, communication modules and power supply and non-redundant IO modules with latest software applications.	Processor, pre-loaded with SCADA software as store standby. Please review and confirm.	the system configuration drawings
18	618 of 549	28.6.3	Control Features and Functions:  Battery back-up of not less than 360 hours.	This seems to be too high. Please review and confirm.	Battery backup should not be less than 90 minutes.
19	689 - 695 of 549	---	Annexure - VIII: Suggested List of Manufactures:	Please allow the following makes:  Air Blower: Kay Compressors, Delhi Switchgear Panel: Chavare Engineering, Thane VFD Panel: Chavare Engineering, Thane Variable Frequency Drive (VFD): Nord, Germany SCADA System: Elipse Software, Brazil	Bidders to note that Variable Frequency Drive (VFD): Nord, Germany make is acceptable and other components makes are restricted to tender conditions.
20			Section - 8.0: Tender Drawings:  Plant Layout P&ID for 2 x 1.50 MLD STP	DWPE Dosing Tanks, DWPE Dosing Pumps, Centrifuge House and Centrifuges have been indicated in these Drawings. We understand that...at present, only Sludge Drying Beds shall be provided whereas these Units shall be provided in future	DWPE dosing tanks, DWPE dosing pumps, centrifuge house and centrifuge are envisaged in phase 2 only and not included in phase 1.

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				when ultimate capacity of 3 MLD is envisaged. Please review and confirm.	
21	---	---	General:	Please confirm the following: 11 KV DP Structure System including Metering Cubicle, 11 KV/433 V Outdoor Transformer, 433 v DG Set, MV Panel and APFC Capacitor Panel shall be provided to serve the requirement of 1st Phase only and additional Units shall be provided in future to serve the requirement of 2nd Phase.	11 KV DP Structure System including Metering Cubicle(both supplier and customer side), 11 KV/433 V Outdoor Transformer, 433 v DG Set, MV Panel and APFC Capacitor Panel should be provided for both the phases at present. Only additional MCC panel will be added during phase 2.
22	4	1	Tender Notice - Sewage Treatment Plant: The tenderer should have designed, constructed, commissioned and operated at least one STP/ETP working on advanced sequential batch reactor technology of minimum 3000 m3/day capacity as main contractor which is in operation for a minimum period of one year during the last three financial years. Necessary certificate from the client showing satisfactory performance	---	

			of the contract, salient features of the Plant and satisfactory performance during the Operation and Maintenance period shall be furnished.		
23	32	2.6.1 - 4.	A preliminary agreement duly executed on non-judicial stamp paper of value not less than Rs.100/- as per Proforma attached as Annexure-II.	Usually, such agreement is executed after award of the Work to the successful Bidder. Please review and confirm.	It has to be done
24	504 638	2.0 3	Quality of Wastewater / Treatment Plant  Table A: Guaranteed Quality of Treated Wastewater from STP	A range has been given against various Parameters (e.g. TSS, BOD, COD etc.). Please confirm whether the System is to be designed for average value or maximum value. Please specify value of TP to be considered in Raw Sewage. There seems to be some error in the value of TKN in Treated Sewage. Usually, it should be <5 mg/l in Treated. Please review and confirm. There seems to be some error in the value of Sulphate in Treated Sewage. Sulphate is not treated in any biological system. Even 200 mg/l Sulphate is allowed in Drinking Water. Please review and confirm. There seems to be some error in the value of Total Residual Chlorine in Treated Sewage.	Please refer reply to the Sl.No. 2

				Usually, it should be 0.3 - 0.5 mg/l in Treated Sewage. Please review and confirm. There seems to be some error in the value of Total Coliform in the Treated Sewage. Please review and confirm.	
25			General	Please provide the following details: Invert Level of the Incoming Sewer Line. Average Natural Ground Level at the STP Site. Proposed Finished Ground Level of the STP site. High Flood Level (HFL) of the nearby Disposal Point. Soil Bearing Capacity and Ground Water Table at the proposed STP site. Battery Limit for incoming sewer line. Battery Limit for Incoming 11 KV HT Power Supply.	Please refer reply to the Sl.No. 3
26	509  530	6. 8  9. 0	Sequential Batch Reactor Units  Diffusers	On Page No. 509 of 549, it is specified that...The oxygen required shall be supplied through Fine Bubble Diffused Aeration System whereas on Page No. 530 of 549, Coarse Bubble Diffusers have been specified. Please CLARIFY.	Please refer reply to the Sl.No. 4
27	517	1.4	SBR Basin: It is proposed to	We understand that Dimensions of SBR Basins are indicative	Please refer reply to the Sl.No. 5

			construct two nos SBR Basin of 14100 x 7100 x 5000mm SWD.	only and shall be provided as per Technology Provider's design according to the Design Parameters specified in the tender documents. Please review and confirm.	
28	518  531	1.5  13	Chlorination System  Chlorine Dosing Pump	On Page No. 518 of 549, it is specified that... Gas Chlorine shall be added at suitable dosing rate where on Page No. 531 of 549, Plunger or Diaphragm type Chlorine Dosing Pump of size 0 - 20 LPH has been defined which indicates NaOCl Dosing System.  Please confirm which type of Chlorination System to be provided.	Please refer reply to the Sl.No. 6
29	519	1. 6	Sludge Sump and dewatered sludge sump ....and Dewatered sludge sump of 1500 x 1500 x 2000 mmSWD	We are unable to understand the purpose of the Dewatered Sludge Sump in addition of the Sludge Sump. Please clarify.	Please refer reply to the Sl.No. 7
30	521	1.8	Treated Wastewater Tank: .... Overflow shall be connected to nearest drain through RCC channel / pipe.	Please provide High Flood Level (HFL) and Distance of nearest Drain from STP Site.	HFL = 353.550 Distance of nearby drain = 25-30 meter approx.
31	522	1.10	Filter Pads Filter pads will be of the size required for installing the filters of required capacity as indicated in	Please review and clarify.	Please refer reply to the Sl.No. 11

			thespecifications for equipment. The filters shall be located at a convenient place.		
32	529	7	Air Blowers: Capacity and Quantity: 450 Nm <sup>3</sup> /hr (3 Nos.: 2W + 1S)	We understand that Capacity of Air Blowers, RSS Pumps and SAS Pumps are indicative only and shall be provided as per Technology Provider's design according to the Design Parameters specified in the tender documents. Please review and confirm.	Please refer reply to the Sl.No. 12
	530	10	Return Activated Sludge (RAS) Pumps: Capacity and Head: 20 m <sup>3</sup> /hr @ 5 mWC		
	530	11	Surplus Activated Sludge (SAS) Pumps:Capacity and Head: 5 m <sup>3</sup> /hr @ 5 mWC		
33	530	12	Sludge Transfer (Centrifuge Feed) Pumps:	We understand that Sludge Drying Beds shall be provided in 1st Phase whereas Centrifuges shall be provided in 2nd Phase. Please review and confirm.	Please refer reply to the Sl.No. 13
34	536	2	Electrical System: Control Voltage: 110 V	Please review and confirm whether Control Supply Voltage shall be 230 V AC or 110 V AC.	Please refer reply to the Sl.No. 14
	539	4. 7	Control supply voltage for the starter feeders (DOL and Star-Delta) will be 110 V AC.		
	620	28.6 .4	Input & Output System: Power Supply: 230 V AC		

35	538	4.2	Motors upto and including 10 HP shall be provided with directon-line (DOL) starters and motors above 10 HP shall beprovided with Star-Delta starters.	Please review and confirm whether Motors for SBR Air Blowers can be provided with Soft Starter.	Please refer reply to the Sl.No. 15
36	614  622	28.3  28.6.1 0	Scope of Work: The scope of work shall include....back-up hardwired control panel...  Back-up Control Panel: A hardwired back-up panel shall be provided for manual operation of the STP....	We suggest that there is no need of such hardwired control panel. First of all, it is very difficult to operate/control SBR System comprising various operations e.g. Cyclic Operation, Oxygen Uptake Rate Control, Sludge Recycle, Sludge Wasting, Decanting Rate etc. Also it is not advisable to operate/control SBR System manually as it may trigger mal operation of the various set process parameters within the Plant and deteriorate the performance of the Plant. Secondly, the System can be operated manually with the help of Local Control Stations provided near each motor in the field. Please review and confirm.	Please refer reply to the Sl.No. 16
37	616	28.5	The control system offered shall be state-of-the-art PLC based technology with redundancy provided for	This will increase the cost of the System without any additional benefit. Instead, we suggest providing a Standby	Please refer reply to the Sl.No. 17



			processor, communication modules and power supplies and non-redundant IO modules with latest software applications.	Processor pre-loaded with SCADA software as store standby. Please review and confirm.	
38	618	28.6.3	Control Features and Functions: Battery back-up of not less than 360 hours.	This seems to be too high. Please review and confirm.	Please refer reply to the Sl.No. 18
39			Section - 8.0: Tender Drawings: Plant Layout P&ID for 2 x 1.50 MLD STP	DWPE Dosing Tanks, DWPE Dosing Pumps, Centrifuge House and Centrifuges have been indicated in these Drawings. We understand that...at present, only Sludge Drying Beds shall be provided whereas these Units shall be provided in future when ultimate capacity of 3 MLD is envisaged.Pl. confirm.	Please refer reply to the Sl.No. 20
40			General:	Please confirm the following: 11 KV DP Structure System including Metering Cubicle, 11 KV/433 V Outdoor Transformer, 433 v DG Set, MV Panel and APFC Capacitor Panel shall be provided to serve the requirement of 1st Phase only and additional Units shall be provided in future to serve the requirement of 2nd Phase.	Please refer reply to the Sl.No. 21
41	500	2.4	Demolishing the existing structures and removing	Kindly provide us the details of existing structures & also	Please refer reply to the Sl.No. 20

			the debris from Site	the disposal distance for the debris	
42	4       7	Tender Notice - Sewage Treatment Plant    Bid Synopsis, point no 8	Period of Completion - months    Completion Period : 9 Calendar Months	Completion period of plant is 9 months or 9 Calendar Months Kindly confirm any difference, if there	Period of completion is 9 months which is equivalent to 270 days.
43	501	2.6	Complete inter connecting piping between units including supply of all materials like CI....	We request you to consider DI pipe instead of CI, because of non-availability of CI pipe. Kindly Confirm	It is bidder's responsibility to select the suitable pipe
44	510	6.9	Chlorination Unit	Kindly confirm whether the chlorination is by Vacuum type chlorinator or other type of chlorination system. Kindly confirm.	Please refer reply to the Sl.No. 6
45	521	1.8	Treated Waste Water Tank-Overflow shall be connected to nearest drain	We request you to delete either Chlorination Tank or Treated Waste Water Tank as the overflow is going to drain only. Kindly Confirm.	No change. As per tender both are required and the treated wastewater is proposed to utilize for flushing purpose, gardening, cooling

					purpose.
46	49 of	2.31.1	All the consumables required for the operation of plant including electricity charges during three years O&M period will be met by MWCJL.	-----	<p>Power and water alone shall be provided by MWCJL during operation and maintenance period at free of cost. However the consumption of electricity should not exceed the power consumption based on the technology provider design criteria and as agreed by MWCJL during agreement stage. Consumables as required to operate and maintain the system should be provided by the contractor and the cost towards the same should be included in the price bid under respective heading.</p> <p>Item No. 2.31.1 should be revised as "All the consumables required for the operation of the plant excluding electricity and water charges, during the three years operation and maintenance period will be met by us (The contractor)"</p>
47			General	Kindly provide us the distance between raw sewage pumping station to STP	Please refer the plant layout. Raw sewage Pumping station is located near the STP. Pipe from last

					manhole to raw sewage pumping station should be provided by the contractor and the approximate distance shall be around 150 m.
48			General	Kindly specify the power supply for the raw sewage pumping station & STP	Power shall be provided in one location from there it is bidders responsibility to distribute further.
49	514	1.2.4	Raw sewage sump in RCC (Grade M-30 Construction) of size 5000 m. Dia x 1500 SWD.	We propose to keep the SWD minimum of 2.0m in order to have better efficiency of raw sewage pumps.	Bidder can revise the size as per there requirement subject to meeting the total liquid volume based on the size indicated in the tender.
50	507		Online Flow measurement shall be done by installing anultrasonic Flow Measurement Device on the common dischargeheader of Raw Sewage Transfer Pumps.	As the Flow Measurement Device is to be installed on pipe, Electromegnetic device will be advantageous over the ultrasonic type which would have been better option if it was case of open channel.	Electromagnetic flow meter shall be considered instead of Ultrasonic flow meter.
51	521	1.9	Buildings: Raw sewage pump house - 5000 mm Dia x 4500 mm high	We propose to have semi-circularRaw sewage pump house instead of circular one, as plant would have ease in operation of the raw sewage pumping (including Mechanical Coarse Bar Screen) along with saving in construction cost.	Bidders are free to change the shape of the raw sewage pump house subject to meeting the operational requirements without any difficulty.

52	522	1.9	<p>Buildings The building areas given are as below: DG Platform - 8000 x 5000 mm - 1No. SBR air blower/ MCC Room and Control Building - 15000 x 8000 x 10000 mm high (G + 1) Office cum Laboratory building - 6000 x 6000 x 10000 mm high (G+1) Security Room - 3000 x 3000 x 4000 mm high Toilet - 9.0 sq. m</p>	<p>The buildings areas given seem to be over size. These should be as per as per to meet the housing requirement of equipments/machines and associated accessories including minimum space required for their installation/maintenance.If the sizes are taken only for Phase-I, then, these are definitely on much higher side but if these are the sizes to cover all the 4 phases (phase I, II, III &amp; IV), then in that case these seems to be O.K. Please CLARIFY.</p>	<p>Bidders are requested to ensure the following provisions:- Minimum office built-up area space of 36.00 Sqm. Minimum laboratory built-up area space of 36.00 Sqm. MCC and control panel for 3.0 MLD should be accommodated in the control panel building. Air Blower for 3.0 MLD should be accommodated in the blower room. Security Room - 3000 x 3000 x 4000 mm high Toilet - 9.0 Sqm. If the bidder able to accommodate the above provisions in one building of 15.00 m x 8.00 m x 10.00 m Height (G+1), same may be provided. Apart from DG platform as indicated in the tender.</p>
53	522	1.9	<p>Buildings Office cum Laboratory</p>	<p>As Laboratories are planned to be constructed for STPs as</p>	<p>Please refer reply no. 52.</p>

			building - 6000 x 6000 x 10000 mm high (G+1) with necessary partitions	part of each STP for nos. of STPs finally to have by MWCJL. The same will have to be installed and maintained all through the life term of these STPs. We propose to have common LAB to 2 or more nos. of STPs in order to make saving in its construction, better operation & maintenance.	
54	500	2.4 a	Cutting of unwanted Tress, Plants, Bushes and Shrubs etc. and removing the same form Site.	As far as cutting and removing part is concerned the same will be carried out by the contractor, where required. However, importantly before that the legal/official approval for the cutting from the forest and/or other concerned deptt. will be the responsibility of the MWCJL.	No forest trees at site.
55	502	3	Operation & Maintenance of Treatment Plant ....After completion of O&M period the contractor should handover the STP as new condition to the OWNER.	After running the plant for 3 years during O&M, the handing over of STP as new condition seems to be vague condition. Please substantiate the same.	The contractor should handover the STP in running condition by replacing any defective parts of STP on completion of O & M period.

56	519	1.7	<p>Sludge Drying Beds It is proposed to construct 7 nos. sludge drying beds of 5000 x 1000 x 500 mm size each for dewatering ...</p>	<p>We strongly recommend the use of centrifuge instead of the SDB because of following reasons in the First Phase itself: More land cost (being Jaipur City) More inputs of manual labour for removal of sludge. Messy arrangement and may cause flies &amp; bad odor. Capital and operational Cost wise not feasible for bigger plants. Since the centrifuge is to be installed in the second phase then the same may be installed in this phase and cost of SDBs as well as about 300 m2 area will be saved. If at all SDBs are to be provided, as it seems there is some typographical error in the dimensions given in tender and are not sufficient. We propose to have 4 nos. of sludge drying beds of size 14.50 m x 6.00 m each (approx. total area = 348 m2).</p>	Please refer reply no. 8
57	638  639	2  4	<p>Manufacturer`s Guarantees:  Equipment Guarantee</p>	<p>As mentioned on page 638, the manufacturer`s guarantee for.. performance for all bought out items shall be made available ...at least for the entire defects liability period which</p>	Please refer section 5.11 of tender document for guarantee. This shall replace the guarantee mentioned elsewhere.

				<p>is 24 months (i.e. 2 years). whereas on Page No. 639 it has been mentioned that the Contractor shall guarantee for the period of one year from the date of successful commissioning of the treatment plant against defective performance of all equipment /instruments /mechanical or electrical parts.</p> <p>Further to add, we propose the Guarantee period to be as per practice by which, the manufacturers normally provide guarantee for a period of 12 months after commissioning or 18 months after supply, whichever is earlier.</p>	
58	689	Annexure - VIII	SUGGESTED LIST OF MANUFACTURERS	<p>In order to have more flexibility and better options, we propose to have additional reputed &amp; experienced manufactures to be taken in list of approved manufacturers for following equipments/items:  Air Blower: Kay &amp; USHA  Screw Pump : TUSHACO  Metering Pump: POSITIVE METERING</p> <p>In addition, MAKES like ABB for other equipments for instrumentation e.g. Level transmitter, DO Meter and Flow meter needs to be reviewed.</p>	No change, please adhere to tender document.



59	47	2.29.3	<p>Payment Clause 10% as mobilization advance against submission of Bank Guarantee (B.G) valid up to period of commissioning of the plant.</p> <p>Civil &amp; Piping i) 5% on approval of structural drawings, piping layout and P&amp;I drawings by Engineer - In - Charge/ MWCJL along with bill of quantities after deducting 20% of the total bill value against mobilization advance paid. ii) 80% value of civil and piping works will be released progressively based on the measurements certified by the Engineer - In - Charge &amp;MWCJL after deducting 20% of the total bill value/ remaining portion of the mobilization advance against mobilization advance paid.</p>	<p>Payment Clause mentioned in the tender needs to be reviewed. With this payment terms the contractor/bidder shall be under heavy financial constrain and shall not be able to execute the plant in liberty. We request the standard financial terms as followed by most of the Govt. organization should be followed. Given below are the payment terms given in the similar works: Mobilisation Advance against BG 10 % of total Value. For Civil 10% against approval of structure drawings 80% against the work executed at site 10 % against Hydraulic test and finishing. For Electromechanical 10 % against approval of process drawings 70% against supply of equipment 10% against erection 5% against Successful commissioning 5% after one year of operation or at the time of commissioning against a BG valid for one year. For operation and maintenance After every month of operation</p>	No change, please adhere to tender document.
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		<p>iii) 10% on completion of trial run and commissioning</p> <p>iv) 5% as retention money on completion of defects liability period</p> <p>Mechanical &amp; Electrical</p> <p>i) 5% of value on approval of general arrangement drawings and vendor's equipment drawings by the Engineer - In - Charge/MWCJL after deducting 20% of the total bill value against mobilization advance paid.</p> <p>ii) 55% of the value on the receipt of material in good condition at site after deducting 20% of the total bill value/remaining portion of the mobilization advance against mobilization advance paid.</p> <p>v) 15% of value on completion of erection of the plant.</p> <p>iii) 20% of value on completion of trial run and commissioning of the plant</p> <p>iv) 5% as retention money on completion of defects liability period</p>	<p>Mobilisation advance shall be deducted in running bills maximum as 10% of bill value</p>	
60	Financ	Service Tax	The service tax is not	This is lump sum contract

		ial		considered in the tender. Please Clarify the same.	hence it is deemed to be inclusive of all the taxes, duties, overheads, profits etc., in the quoted rate. However bidders are requested to indicate the applicable taxes and duties separately. MWCJL will take decision for availing SEZ benefit during the evaluation.
61			"Decanting Device: The decanting device shall be moving weir arm device of SS 304 with Top Mounted gear box, electric drive, Scum guard, downcomers, Collection pipe, bearing. The following types of decanter assemblies are not acceptable.	Request to approve floating decanter in order to participate the tender.	Floating decanter is acceptable and bidder should guarantee the output quality and other parameters as per tender conditions. Also bidder should demonstrate the successful operation of this technology in India equivalent to the capacity specified in the tender.