

Date: 04/07/2014

## PUNJAB DYERS ASSOCIATION, FOCAL POINT MODULE, LUDHIANA

## REPLIES TO THE PRE-BID QUERIES FOR 40 MLD COMMON EFFLUENT TREATMENT PLANT FOR PDA FOCAL POINT MODULE, LUDHIANA, PUNJAB

Date of pre-bid meeting held : 28/06/2014  
venue : Hotel Indian Summer, Address:368-R.K Road, Near Cheema Chowk,  
Ludhiana-141003,Punjab,India

Following are the reply to the pre-bid queries, which shall form the part and parcel of tender documents. Bidder should enclose these replies duly signed and stamped on each page along with tender document in Envelope-II

Sr. No.	Page no. of the tender document	Tender Volume and clause no.	Subject/Description as per tender	Bidder' query	Reply by the PDA
A.	Larsen & Toubro Limited				
1.	21	I, 1	--	Please clarify the no. of textile units operating in Focal point Area and tentative % quantity of effluents from every unit with their discharging parameter to CETP.	55 nos. textile industries are present. Total effluent generated is 40 MLD.
2	21	I, 1	--	Please clarify, Whether the textile units operating in Focal point area have their own ETP before discharge to CETP. If so kindly furnish the treated effluent parameter which would arrive to CETP.	Combined effluent quality and quantity details are given. CETP is to be designed for this quantity and quality effluent given.

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3.	4	I, NIT	Bidders please quote separately for both the technologies	As per referred clause bidders have to submit both the technology one with SBR Technology & another one with ASP Technology. Is it compulsory for all bidders. Please clarify?	It shall be mandatory for bidder to submit the proposal based on both the technologies. Following basic design parameters for ASP as well as for SBR technology should be followed. F/M - 0.15 max. MLSS - 4000 mg/lit max. MLSS to MLVSS ratio- 0.8 max. SRT – 25 days minimum HRT – 18 hours minimum O <sub>2</sub> required/Kg BOD – 1.2 kg/kg of BOD to be removed O <sub>2</sub> required/Kg TKN – 4.56 Kg/Kg TKN. Also maximum allowable BOD reduction in primary treatment to be considered is 35%. Other technical specifications for ASP are enclosed separatelyAlso revised Volume-II i.e. price bid is enclosed separately.
4.	21	I, 1	Present Effluent Quantity to 10 <sup>th</sup> year of O&M	Kindly provide the present effluent quantity that will reach the CETP during the commissioning to 10th year of O&M to estimate the Operating cost of available effluent	Plant is to be designed for 40 MLD flow.

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5.	22	I, 2.1	Overall Plot plan for identifying the existing pipelines, cables, etc.,	As per referred clause Site development including outing of unwanted trees, demolishing the existing structures, shifting of pipe lines, cables and poles etc., are with bidder scope. Kindly provide the Overall plot plan for identifying the existing pipelines, cables etc., for our costing.	Bidder to visit the site and assess.
6.	25/26	I, 2.2.7, 2.2.8, 2.2.10	MOC of Submersible mixers for Equalization tank/ pH Correction Tank – 1 / pH Correction Tank - 2	We presume that the MOC of Submersible mixers for Equalization tank/ pH Correction Tank – 1 / pH Correction Tank - 2 is CI Motor Housing. Kindly confirm. Else kindly furnish the MOC.	All submersible mixers shall be in SS-316 L. In case motor is also submersible, it will also have SS-316L casing.
7.	27	I, 2.3.1	Existing Ground Level	Kindly furnish the existing Ground level of the proposed site for our estimation.	Land is fairly levelled. Bidder to assess. However, FGL shall be 0.5 m above the existing average ground level.
8.	26/27	I, 2.2.12 & 2.3.1	Distance between CETP site and nearby Nallah is about 500 m.  Distance of Disposal point (Buddha Nala) from propose CETP : 400 m	There is a discrepancy between two clauses in distance between CETP site & nearby Buddha Nalla, Kindly confirm the approximate distance between CETP site and nearby nalla to keep uniform consideration all bidders .	Distances given are tentative & may vary from 400-500 m. Bidder to visit the site and assess.

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9.	28	I, 2.3.2	Raw effluent quality	<p>Please clarify the following parameters of raw effluent.</p> <ul style="list-style-type: none"> <li>• Bio degradable COD</li> <li>• Alkalinity</li> <li>• Suspended BOD</li> <li>• Suspended COD</li> <li>• Volatile suspended solids</li> <li>• Non bio degradable COD</li> <li>• Free oil</li> <li>• Emulsified oil</li> <li>• Residual chlorine</li> <li>• Nitrates</li> <li>• Complete physio chemical analysis including cations and anions</li> </ul> <p>The above parameters are required for design of plant and chemical estimation.</p>	Basic design parameters are given. Further details are not available. Bidder to do his own assessment for any other parameter required for design.
10.	30	I, 3.1	Dewatering pump in pump house ( dry well)	We presume that the MOC of Dewatering pump is CI casing with SS impeller. Kindly confirm. Else kindly furnish the MOC.	SS-316 Impeller and CI casing
11.	31	I, 3.1	MOC of Equalization tank transfer pump	We presume that the MOC of Raw Effluent pump (Horizontal Centrifugal non clog) is CI Body & SS internals. Kindly confirm. Else kindly furnish the MOC.	SS-316L internals & CI body
12.	32	I, 5.0	Thickness of fine screen bars	As per referred clause "The Mechanical and Manual Screens shall	As per tender.

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				<p>be made of SS 304 flats (2 mm for Mechanical and 3 mm for Manual Screen).</p> <p>As per CPHEEO manual, the bar used for the screens are rectangular in cross section usually about 10 mm x 50 mm. Kindly confirm the SS 304 flats dimensions.</p>	
13.	50	I, 14.11	Internal water supply	<p>As per referred clause "Proper Water Facility shall be provided at CETP. Rate of water supply may be kept as 150 liter per capita per day for a population of 20 people".</p> <p>Kindly clarify the source of water, terminal point in CETP site and location of storage facilities required.</p>	It will be bidder's responsibility to make the water arrangements. . Water supply will be available from Municipal Corporation. Bidder to assess and make arrangements accordingly.
14.	50	I, 14.11	Water supply for gardening	<p>In the referred clause it is mentioned that water supply for gardening is to be taken from treated final effluent. We presume that bidder have to provide one 50NB flange connection in the chlorine contact tank for gardening purpose and rest of the work shall be by client/others. Kindly clarify.</p>	As per reply above. Gardening within CETP premises to be developed by the contractor including watering arrangements.
15.	--	I, Plant layout drawing no. A3/40MLD/LUDHIANA/	Unit sizes & capacity of Equipment's	We have presumed that, unit sizes & capacity of equipment's, plant layout mentioned in tender documents are tentative only; bidder can vary	Drawing given is indicative only.

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		102/01		according to their design. Please confirm.	
16.	24	I, 2.2.3	Cascade aerator	As per referred clause "The pumped flow from the pumping station shall be taken to the elevated head works Cascade Aerator of the plant from where effluent will gravitate to fine screen channels". We presumed that cascade aerator is not applicable for this project. Kindly confirm.	Cascade aerator stands deleted.
17	27	I, 2.3.1 & Drg. No. A3/40MLD/LUDHIANA/102/01	Area allotted for CETP : 293 x 118 m  CETP AREA: 243 X 100 M	There is a discrepancy between two clauses on area allotted for CETP. Kindly confirm the area available for proposed CETP.	Area available for CETP is 293 m x 118 m. Area given in drawing is indicative.
18.	27	I, 2.3.1	HFL of Budda Nala	Based on the details, We understood that HFL of budda nala is same as Existing GL in CETP. Kindly clarify/confirm.	Yes. However, bidder is advised to recheck it and assess.
19.	28	I, 2.3.3	Location of connection of gravity pipe line from boundary of CETP	Kindly provide location at which bidder take connection of gravity pipe line from boundary of proposed CETP. Please specify in CETP layout. Also provide size of deep gravity outfall pipe.	Pipe line will be provided at one point of CETP boundary.
20.	30	I, 3.1	MOC of raw effluent pumps	We have understood that, MOC of raw effluent pumps is SS 316 both casing & Impeller. Kindly confirm.	MOC shall be SS-316 L.
21	38	I, 10.4	VFD for Centrifugal -Turbo blower	For centrifugal turbo blower VFD is not required since the flow can be	VFD is must

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				varied with the help of inlet and outlet guide vanes. Kindly confirm.	
22	38	I, 10.4	Diffuser type	We are not able to find the diffuser type in the referred clause and other part of the tender. So we presume that the diffuser is retrievable type. Kindly confirm.	Description shall be fixed grid type with adjustable supports in SS-316 L. Also all diffusers specifications given are applicable for ASP technology also.
23.	40	I, 10.5	MOC of excess sludge & return sludge pumps	Kindly provide MOC of excess sludge & return sludge pumps.	MOC shall be SS-316 L for casing as well as impeller
24	49	I, 14.6	Sludge storage area	As per referred clause 650 sq.m have to be considered for Sludge storage. Kindly provide storage days to be considered for design.	Area given is minimum required. Minimum seven days storage shall be provided.
25	28	I, 2.3.2	Max & Min temperature of raw effluent	To size the diffuser and blower capacity for Aeration tank, please provide Max & Min temperature of raw effluent.	Maximum temperature will be 30-35 Deg. C.
26	--	I	PFD- Drg. No. A3/40MLD/ LUDHIANA /103/01	We felt that it is necessary to go for removal of sand, grit, stones, and broken glass because they may damage pumps and other equipment. This can be achieved by providing Grit chamber before equalization tank. Please confirm proposal of Grit chamber before equalization tank.	Bidder may add any unit/equipment which he may felt necessary.
27	47	I, 13	Chemical storage days to be considered in chemical house.	Please confirm no of days to be considered for chemical storage in chemical house.	Bidder to assess. However, he must ensure that all necessary chemicals are available at site all the time.

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28.	45	I, 12.8	Total number of Polymer preparation tank & dosing tank	We felt that, proposal of one preparation tank & two dosing tank with 12 hrs retention time is more enough to dose poly for dewatering. Kindly confirm 2 nos of tanks i.e one preparation tank & one dosing tanks with 12 hrs retention.	A tender condition prevails.
29	68, 69	I, 5	Permissions	As per referred clause "the Contractor shall obtain all required permissions, sanctions clearances and permits for carrying out its Operations, including Contractors clearances and shall be fully responsible for carrying out the operations in a safe and secure manner, consistent with the law of the land, laws and regulations regarding such facilities and / or System and directives of any Authority and planning permissions". Since it is not possible for the contractor to obtain all required permissions, sanctions clearances and permits for carrying out CETP Operations, we request to exclude this from the scope of bidder. Kindly confirm.	Tender conation prevails.
30	--	I	PFD, Drg. No. A3/40MLD/ LUDHIANA/ 103/01	We understood that, supernatant & centrate from sludge handling system i.e centrifuge & belt filter press will be recycled to raw effluent sumps. Kindly	Drawing is indicative. However, all supernatants and centrate from sludge handling system shall be recycled back prior to



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				confirm.	primary treatment (can be at raw effluent sump or equalization tank)
31	45, 46	I, 13	MOC of chemical dosing pumps, agitators in chemical dosing tank and MOC of the dosing tank	Please provide MOC of chemical dosing pump & agitators in dosing tanks and also provide the MOC of the dosing tank.	MOC of pumps shall be appropriately selected based on nature of the chemical to be handled. However agitators (except acid handling) shall be SS-316 L
32	45, 46	I, 13	MOC of Bulk Acid tank and transfer pumps	Please provide MOC Bulk Acid tank and transfer pumps.	MOC shall be appropriately selected based on nature of the chemical to be handled.
33	35	I, 8	Proposal of Flash mixer	We felt that, provision of flash mixer is necessary to ensure mixer of chemical with raw effluent before Sludge Blanket/Clarifier. So kindly confirm the requirement of flash mixer.	Bidder may add any unit/equipment which he may felt necessary.
34	36	I, 9	Detention time if draft tube	We feel that detention time of 1min in draft tube seems to be wrong. It should be min 20 minutes. Kindly confirm.	Bidder to provide as per his design with necessary supporting data
35	36	I, 9	Rise rate in clarifier zone	We feel that rise rate of of 1.8 m/hr.min in clarifier zone is seems to be wrong. It shall be as per CPHEEO. Kindly confirm.	Bidder to provide as per his design with necessary supporting data.
36	--	I	Plant layout- Drg. No. A3/40MLD/LUDHIANA /102/01	SWD of sludge Clariflocculator.	Drawing is indicative only. However, minimum 4m water depth shall be provided.
37	42	I, 11.2	Compartments in Chlorine contact tank (CCT).	It is always advisable to provide minimum two compartments in CCT	Tender condition prevails. However, it may be permitted

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				to facilitate cleaning. Kindly confirm.	subject to approval of PDA at the time of detail design
38	43	I, 12.4	MOC of screw pumps for chemical sludge & biological sludge	Please provide MOC of screw pumps for chemical sludge & biological sludge	SS-316 L
39	43, 44	I, 12.4	MOC of belt filter press & centrifuge	Please provide MOC of belt filter press for chemical sludge and centrifuge for biological sludge.	MOC including frames/ casing shall be SS-316 L
40	--	I	Drg. No. A3/40MLD/LUDHIANA /103/01	We feel that proposal of sludge thickener is necessary in sludge handling system to get provide better efficiency for sludge dewatering.	Drawing is indicative. Bidder may add any unit/equipment which he may felt necessary.
41	14	I, 23.3	Tender datasheets	We are not able to find Tender data sheets in NIT, So please provide the same.	Bidder shall submit his own data sheets
42	49	I, 14.6	Sludge storage area	Kindly specify MOC of sludge storage room, Is it a bund wall or RCC room. Please confirm.	Normal shed with bund wall.
43	--	--	MOC of submersible pumps	Kindly specify MOC of submersible pumps to be considered for this project.	SS-316L including casing
44	66	I, 1. d	Repairs and Maintenance	Kindly notify the acceptable downtime of the plant for Scheduled and Preventive Maintenance.	As such downtime will not be acceptable. Only in case of emergency, under permission of PDA, may be permitted.
45	10	I, 10.4	Tender Prices	Bidder wishes to inquire about all applicable tax exemptions for the project. Request to please provide.	There will not be any exemption and no concessional forms will be issued by PDA.
46	63	I, 2.12	Scope of work for O&M	We request you to kindly elaborate on requested guarantee for Automation System. Please provide	Bidder has to maintain all automation system in all respect.

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				more information as it is provided for other two guarantees.	
47	63	I, 2.13	O&M cost	Since the Operation and Maintenance activities require procurement of Items like Chemicals, Electrical equipment, other consumables etc. for a period of 10 years and these are subject to price escalations, it is requested to give provision for percentage escalation of O&M expenses at acceptable norms.	There will not be any escalation. Only variation in taxes and duties chargeable to the PDA (after submission of bid) will be accepted and will be paid extra at actual.
48	3	II, 1.2	Price Schedule - General	It is mentioned that price bid shall include Energy cost for 15 years whereas elsewhere in II. Summary of Bid evaluation Point C (Pg. 6) it is mentioned that Discounted Power cost is to be provided for 10 years. Kindly clarify and confirm the period for estimating Energy cost.	Kindly read the same as 10 years. Also kindly refer revised price schedule (volume-II) enclosed.
49	63	I, 2.13	O&M cost	In order for equality in bid assumptions, kindly provide breakup of minimum manpower required for O&M	Bidder to assess. Bidder shall provide all necessary manpower for the plant including manpower for security and gardening.

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50	4	I, NIT	Bidders please quote separately for both the technologies	As per NIT, the name of work is given as "Designing, Providing, Constructing, Erecting and Commissioning of 40 MLD average capacity Common Effluent Treatment Plant for Focal Point Module based on Sequential Batch Reactor Technology (SBR Technology) And Activated Sludge Process Technology (ASP Technology) on Turnkey Basis including Operation and Maintenance for 10 years at Tajpur Road, Ludhiana, Punjab." And also it is mentioned that Bidders shall quote separately for both the technologies, but in technical specification and price bid only SBR is specified. If ASP is applicable please provide technical specification and make changes in price bid accordingly. Kindly clarify.	Replied earlier.
51	28	I, 2.3.3	Treated effluent quality	As per referred clause bidder have to give the outlet treated effluent Quality BOD - 10 ppm, COD - 50 ppm & Ammonical nitrogen - 2 ppm from the raw water characteristics BOD - 500 ppm, COD - 1000 ppm & TKN - 35 ppm. Since the feed water is textile effluent which will have non-biodegradable organics, so it's not possible to achieve mentioned	Only following parameters are revised; COD - Maximum 100 mg/lit, Color – Maximum 100 Pt. Co Scale unit. All other outlet quality parameters remain unchanged.

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				treated water quality in the SBR outlet. Considering this fact we propose the following characteristics in SBR outlet BOD $\leq$ 20 ppm, COD $\leq$ 200 ppm and Ammonical Nitrogen $\leq$ 35 ppm. Kindly confirm	
52	27	I, 2.3.1	Ground level details	Kindly provide the ground level details (NGL & FGL) for proposed CETP Plant.	Replied earlier
53	62, 63	I, 2.9	General utilities- Fire hydrants	<p>As per NIT referred clause, fire hydrant system proposed for the CETP. We presume that battery limit of the fire hydrant water source shall be provided by client at proposed CETP boundary. Please confirm.</p> <p>Kindly furnish details like pipeline size, residual pressure and MOC details at the battery limit for our further design of fire hydrant system.</p>	Fire hydrant system, as per requirement of safety norms shall be provided by bidder. Treated water (chlorination tank or any final treated effluent tank) or overhead water tank can be used as source of water.
54	29	I, 2.3.4	By Pass Channel	<p>As per NIT referred clause it is mentioned that "There shall be a provision of one bye pass channel/HDPE pipe along with gates/valves. Alternatively, plant bypass can be provided from existing / proposed manhole before pumping station."</p> <p>From the above point, we presume that bye pass channel/HDPE by pass line shall be provided from Receiving</p>	By pass arrangement for the plant is here by stands deleted.

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				chamber to wet well sump. Kindly clarify and confirm.	
55	52	I, 15.0	Standards	Kindly furnish the technical details of Raw effluent pumping machinery along with technical specifications.	Replied earlier
56	48	I, 14	Air conditioner	As per referred clause , "Adequate nos. of Air conditioners shall be provided as directed by Employer/PDA." Kindly furnish the locations and room size where Air conditioner to be provided for our design purpose.	Air conditioner to be provided in the all office rooms/cabins/control room, laboratory and blower room. The quantity and capacity shall be provided as per directives of PDA.
57	30	I, 3.1	Pump head and design	As per referred clause in NIT, "Pumping machinery shall be designed for 40 MLD average flow and a peak factor of 1.5." NIT mentioned each pump flow as 15 MLD (4 working and 1 stand by). From the above point, we presume that pump head and pipeline shall be designed for 60 MLD flow. Hence kindly specify working hours of pumps in average flow condition as well as peak flow condition in a day.	Peak flow is 60 MLD and accordingly related pumps and piping to be designed. Peak flow condition may vary from 1 to 3 hrs. Average flow and lean flow condition may vary depending on manufacturing activities by industries. Bidder to assess all possibilities while designing the pump capacities. Bidder may change the pump configuration to suit the requirement at the time of detailing. However stand by pump for each capacity shall be minimum one number.
58	--	--	Incoming Raw Effluent Pipe Details	Please furnish the following details for the incoming raw effluent line : 1) Pipe Size, MOC and Inlet flow	Inlet pipe will be RCC NP2/NP3 pipe. This pipe will be terminated at the boundary of

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				details 2) Bottom of pipe at CETP boundary limit 3) Number of incoming pipes	the CETP. Further connection shall be done by the bidder. Further details will be provided after award of the work.
59	50	I, 14.11	Internal water supply	As per NIT referred clause "Proper Water Facility shall be provided at CETP. Rate of water supply may be kept as 150 liter per capita per day for a population of 20 people". Kindly furnish the details like source of water, Battery limit of incoming water pipeline, treatment requirement etc.	Replied earlier.
60	50	I, 14.11	Water supply for gardening	As per NIT referred clause "Water supply for gardening purpose may be from treated final effluent in sufficient quantity". We presume that water distribution for gardening is not in our scope. Please confirm.	Replied earlier.
61	27	I, 2.3.1	Disposal point (Buddha Nala)	As per NIT referred clause "HFL at Disposal point (Buddha Nalla) is About 400m from proposed CETP site. But as per clause 2.2.12 , page no 26 referred"Distance between CETP site and nearby Nalla is about 500 m."From the above clauses,There is a mismatching in distance between CETP site & nearby Buddha Nala.	Replied earlier

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				Kindly clarify	
62	59	I, 2.4	Contour /spot levels	Please furnish the contour and spot levels for the proposed CETP plant area.	It is a part of contractor's scope of work.
63	--	--	Grade of steel	Please confirm whether we can consider the grade of steel as Fe 415.	As per corrigendum-I
64	66, 67	I, 2	Repair works	We understood that the repair works mentioned under referred clause is only during operation & maintenance period, please confirm.	Yes. As per tender conditions.
65	50	I, 14.10	Compound wall & gate	Please furnish the material of construction and cross section details of compound wall	Compound wall is deleted from the scope of bidder. However main gate in MS with wicket gate to be provided. Design requirement will be provided by PDA.
66	22	I, 2.1	Demolishing woks	Please furnish the location of structures that has to be demolished and also please provide the general arrangement of drawings for structures with material of construction that has to be demolished for calculating the quantum of works.	Bidder to visit the site and assess.
67	81	I, 3.1	Architectural details	In the referred clause only approved makes has been furnished, please furnish the architectural details (except flooring) in building / room wise for all CETP plant structures	It is to be designed by the bidder after award of the work.
68	--	--	Water bar specifications	Please furnish the water bar specifications	To be provided as per design requirement and IS code.



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69	35	I, 4	Hand railing specifications	In the referred clause it is mentioned that, "Hand railing is as per specification", but in the NIT nowhere handrail specification is found, please furnish the same.	All hand railing shall be provided in SS-304 as per Industry/safety specification and relevant IS, as applicable.
70	48	I, 14.3	DG	As per the stated clause, Suitable rating of DG shall be provided for to run the entire plant at peak load. We presume that DG shall be provided with the suitable day tank with no additional external diesel storage tank. Please confirm.	Bidder to assess.
71	53	I, 16	Electrical Basic technical detail requirement	Kindly provide the following minimum Electrical details: a. Incoming HT Voltage rating. b. Distance of client incoming HT termination point from the proposed boundary of 40MLD CETP. c. Fault level for all voltage level. Technical Specification of all Electrical items.	Bidder to visit the site and assess. Technical specification of electricity board/IS code shall be followed.
72	53	I, 16	Electrical SLD	Kindly furnish the Electrical SLD for the 40MLD CETP (if any) for easy understanding of Electrical distribution scheme.	To be provided by bidder
73	53	I, 16	Power factor correction factor	We presume that suitable capacitors shall be provided for the Electrical system to improve the power factor.	Power factor shall be minimum 0.9

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				Kindly specify the value to which power factor should be maintained	
74	53	I, 16	Electrical Basic technical detail requirement	We presume all the power cables are XLPE insulated and Control cables are PVC insulated.	As per Industry standards and relevant IS requirement.
75	53	I, 16	Electrical Basic technical detail requirement	We presume the type of DC Charger 1 x 100% FCBC with 1 x 100% batteries and type of batteries as lead acid.	To be provided as per requirement.
76	53	I, 16	Electrical Basic technical detail requirement	We presume the earthing system as solidly earthed.	To be provided at per electricity rules and IS standards
77	53	I, 16	Power Transformer	As per the stated clause, it is mentioned that oil filled transformer suitable for indoor application has to be considered. Kindly note that oil filled transformer are suitable for outdoor application only. Kindly clarify	Transformer shall be indoor type & to be provided as per IS standards/electricity rules.
78	54	I, 17	Specifications & approved makes for Uninterrupted power supply.	Kindly suggest the makes & specifications for Uninterrupted power supply	Bidder to provide.
79	--	--	Fire Extinguishers and Fire Alarms	Please clarify in detail Fire Extinguishers and Fire Alarms to be considered for entire plant and also provide information regarding Fire alarm panel.	To be provided as per safety regulations
80	1	I, 2.0, b), b)	Technical experience criteria to be met by the bidder	As per the referred clause, It is mentioned that "Bidder should have experience of Operation & maintenance of minimum one number CETP/CETP/ETP of 20 MLD	It is a typographical error in repeated word of CETP. Now it is revised and to be read as "Bidder should have experience of Operation &

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				<p>capacity in India for a period of minimum three years in continuation during last 10 years ending 31st March 2014"</p> <p>We request you to amend the clause as mentioned below.</p> <p>Bidder should have experience of Operation &amp; maintenance of minimum one number CETP/STP/ETP of 20 MLD capacity in India for a period of minimum One year in continuation during last 10 years ending 31st March 2014.</p>	<p>maintenance of minimum one number CETP/ STP/ETP of 20 MLD capacity in India for a period of minimum one year in during last 10 years ending 31st March 2014</p>
81	--	Corrigendum-I amendment no. 3	Technical Experience Criteria to be met by the Bidder	<p>As per the corrigendum-I dated 17/06/2014, It is mentioned that "The Technology provider shall have experience of providing SBR Technology/ASP Technology and technology equipment for at least one CETP (textile effluents) of 20 MLD capacity in India during last 10 years ending 31st March 2014 and is working satisfactorily for at least one year, on or before 31st march 2014 (rest content remain same)"</p> <p>We request you to keep technology tie-up as mandatory for SBR Technology alone for Bidder. Since ASP technology is a common centuries old technology with no specific proprietary</p>	<p>In case of ASP technology, technology tie up agreement is not mandatory.</p>

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				technology/equipment involved in it.	
82	17	I, 32.6	Performance Guarantee	Kindly specify the validity period of Performance Guarantee.	PBG shall be valid till completion of O&M period
83	17	I, 32.6	Performance Guarantee Returning	As per the referred clause, it is mentioned that "Performance Guarantee (PG) shall be returned to the Contractor at the rate of 2% every year at the completion of O & M of that year". Since O&M is for 10 years, only 20% of PG can be recovered/returned, Kindly specify the mode of return of remaining 80% PG.	10% PBG will be released @ 1% of PBG amount every year (after completion of O & M of that year).
84	4	II, 1.8	Statutory variation in Taxes & Duties	As per the referred clause, it is mentioned that "Payment will not be reimbursed for any new tax or any increase in tax during execution of the works". We request you to kindly allow/reimburse for statutory variation in prevailing taxes and new taxes if any.	Any variation in taxes and duties and implementation of new tax/duty after bid submission will be paid extra at actual. However, this will be applicable only for the completion time specified.
85	4	II, 1.10	Price Variation	As per the referred clause, it is mentioned that "No price variation is payable during construction, commissioning and O&M period under this contract". We request you to accept price variation during entire contract period.	Except for the taxes and duties as stated above, no price variation will be paid.
86	3, 6	II, 1.2 & II (summary of bid	Energy Cost Discounted Net Power Cost	As per the first referred clause, It is mentioned that Energy cost for 15 years at 10% discount rate shall be	Replied earlier.

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		evaluation)		quoted, whereas as per the second referred clause in the bid evaluation sheet, Provision is given for filling discounted net power cost for 10 years. Kindly clarify the discrepancy.	
87	10	II	Payment against O&M works	Request you to consider payment against O&M works against month Running Bills instead of quarterly running bills.. Kindly consider	Tender condition prevails
88	--	--	EMD, Performance Guarantee & Security Deposit	Kindly provide Bank Guarantee formats for EMD, Performance Guarantee & Security Deposit.	BG format for EMD is enclosed. PBG & security deposit BG format will be given after award of the work
89			RA Billing for Construction	Kindly specify the frequency of RA Billing, Period of certification after submission of RA Bills and period of payment of RA Bills after certification.	Each RA bill of minimum value of Rs. 200 Lacs shall be submitted.
90			Interest on delayed payment	Kindly specify whether interest shall be paid for any delayed payments to the contractor.	No.
91			Period & payment of final bill	Kindly mention when the payment for final bill shall be released after completion of works and handing over.	Final payment will be released after satisfactory commissioning of the plant.
92			Encumbrance free land	We understand that encumbrance free land/work front will be provided by the client during the entire project period, kindly confirm.	Plot is in possession of PDA.
93	25, 33	I, 2.2.7, 6 & corrigendum- I	Retention time in Equalization tank : one day	There is a discrepancy between two clauses on retention time of equalization tank. We presumed that	Retention time in equalization tank shall be minimum 12 hours.

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				minimum retention time in equalization tank should be 12 hrs. at average flow, considering the area constrains in CETP available area. Kindly confirm.	
94	1	Corrigendum-I	Fine screens (Rotating brush)	Based the details we understood that, type of fine screen provided at the upstream of equalization tank is Drum screen & having 2 mm clear spacing and It should be mechanical with 2(1W+1S) nos. Kindly confirm.	Fine screens can be Incll-raked or rotating drum mechanical screens ( minimum 1 Working + 1 stand by
95	47	I, 14.1	Laboratory equipment	Provision of Laboratory equipment's required for testing of raw effluent & treated effluent are not in bidder scope. Kindly confirm. If it is in bidder's scope, please provide the list of laboratory equipment's to be considered for this project.	All laboratory equipment, instruments, glassware, chemicals, testing tables, consumables shall be provided and maintained by the bidder. This facility shall be provided for testing of all required parameters after each treatment level.
96	28	I, 2.3.3	Outlet quality- COD	Tender specifies the outlet COD value as < 50 mg/lit. As per Technology Provider, it is not possible to achieve the COD value of <50 mg/l. In order to achieve the COD value of <50 mg/l, additional chemical treatment requires which will increase the overall cost of the project. Therefore, we request you to revise the outlet COD value to < 100 mg/l instead of <50mg/l.	Replied earlier.

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B.	HINDUSTAN DORR-OLIVER LIMITED				
1.	1	Corrigendum-1	Capacity of equalization tank	As per corrigendum: 1 - It should have capacity of one day retention time. If we design for Average flow of one day retention time. Then tank size will come double of size mentioned in the plant layout, Normally practice 8 -12 hours retention time is sufficient effective volume in the Equalization tank. Here we don't have Air mixing only mechanical agitation is provide as tender requirement. It creates more rotten egg smells for one day Retention. Please confirm.	Replied earlier
2.	22	I, 2.1	Scope of work - Site development	Tender indicates demolishing of existing structures and removing the debris from site, Shifting of pipe lines, cables and poles etc if required. Please provide the existing structures foundation details and Existing pipe line routing, cable routing layouts which will enable to work out the project execution schedule.	Bidder to visit the site and assess.
3.	22	I, 2.1	Construction of Site offices	Please confirm the space availability, location, type of Building and size of building for Employers staff.	It should be temporary site office for employer's staff of minimum 450 sq. ft. carpet area with the facilities as specified in the tender.
4.	22	I, 2.1	HT power supply source location & distance	Please provide the source & distance without any hindrances	Replied earlier

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5.	24	I, 2.2.3	Requirement of cascade aerator	Tender indicates the pumped flow from the pumping station shall be taken to the elevated head works Cascade Aerator of the plant from where effluent will gravitate to fine screen channels. Please confirm the requirement.	Replied earlier
6.	31	I, 3.1	Raw effluents transfer pumps	Tender indicates Solid passage size max 100 mm , before the pumps there is a coarse screen (mechanical / Manual ) of 20 mm opening. Please confirm the solid handling particle size in pumps	As per tender conditions.
7.	31	I, 3.1	MOC of Raw effluents transfer pumps / Equalization transfer pumps	Please provide the MOC of pumps	Replied earlier.
8	--	--	Plant operations in year	Please provide the details	Plant is to be operated continuously 24 x 7, 365 days a year.
9.	33	I, 6.0	Equalization effluent transfer pumps	Tender indicates the impeller should be a nonclog-design with smooth passage and solid handling capability of 100 mm size , before the pumps there is a Fine screen (mechanical / Manual ) of 6 mm opening. Please confirm the solid handling particle size of pumps.	As per tender conditions
10.	38	I, 10.4	Air blowers stand-by requirement	As per tender each set of air blowers shall have minimum one stand-by, Kindly define the each set.	Minimum two turbo blowers + one stand by (one set) OR



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				<u>For example:</u> Suppose air blowers required 4 numbers, then i can understand that 4 blowers is a set and can provide one blower as a stand-by.	Roots blowers with two sets (each set having minimum two blowers + one stand by). VFD is must for both the type of blowers. However stand by blower can be with soft starter.
11	47	I, 14.1	MOC of overhead tank	Please confirm MOC of overhead tank capacity of 5 m3	RCC is preferred. Sintex HDPE will be acceptable.
12	47	I, 14.1	Potable pumps for Feeding to overhead Tank	Please confirm the requirement of potable pumps with duty points.	Suitable capacity pump shall be provided for feeding the potable water to overhead tank of minimum 2 m3/hr. Head to be assessed by bidder.
13	49	I, 14.5	Weigh Bridge	As per tender indicates suitable area and capacity shall be provided at the entrance of the plant, we assume that scope of supply of weigh bridge shall be from client. Please confirm the supply scope. If the scope is contractor then please provide the capacity, and Type of weigh bridge.	Weigh bridge to be provided by the bidder. Capacity should be minimum 20 MT.
14	50	I, 14.9	Storm water drainage	Tender indicates storm water drainage shall be connected to the nearby city network; please provide the size and distance of the city network storm drain. Also provide the invert level of city network.	Storm water drainage to be connected nearby city network. Bidder should visit the site and assess.
15	25	I, 6	MOC of submersible mixers	Please provide MOC for submersible mixers.	SS-316 L

Sr. No.	Page no. of the tender document	Tender Volume and clause no.	Subject/Description as per tender	Bidder' query	Reply by the PDA
16	30	I, 3.1	Shape of Raw effluent sump	Tender indicates clause 3.1 says the raw effluent sump shall be circular or rectangular shape, we have considered the rectangular shape of Sump, please confirm.	As per tender
17	51	I, 15	Guidelines for MOC	Tender indicates waste water /sludge by gravity suitable MOC of pipe is HDPE. Inlet effluent to CETP site by gravity to receiving chamber. As per tender clause: 2.3.1 indicates Invert level of incoming effluent is below (- 4.5 m) from the Ground level. In that case Laying / fusion welding of HDPE MOC of large diameter pipe is difficult. Please provide a alternate MOC of pipe for incoming effluent and by-pass line arrangement.	Other MOC may be accepted subject to approval of PDA.
18	52	I, 15	Guide line for valves	Tender indicates in serial no: A (2) For type of NRV is swing check but end connection is wafer. Kindly note that Dual plate check valves only available wafer arrangement. Please confirm the type of check valves.	To be provided as per nature of application and suitability. Flanged connection is also acceptable.
19	--	--	Space requirement for plant layout	Since equalization tank retention time changed to 24 hours from 12 hours of average flow space requirement will be more (approximately 3500 sq.m2).please confirm for additional space requirement.	Retention time of equalization tank is revised to 12 hrs.
20	29	I, 2.3.4	Plant By-pass arrangement	Tender requires a provision of one bye pass channel/HDPE pipe along	Plant bypass arrangement is deleted.

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				with gates/valves. Alternatively, plant bypass can be provided from existing / proposed manhole before pumping station. Plant By-pass arrangement from Receiving chambers (-4.5 m level) from GL to Nallah by gravity is not possible due to hydraulic liquid levels differences. please confirm By pass requirement.	
21	44	I, 12.6	Biological sludge treatment scheme	Tender indicates that Sludge generated from SBR shall be treated in centrifuge dewatering device. Dewatered sludge shall have a minimum solids concentration of 20 % as per tender .Consistency from the SBR is 0.8 ~ 1.0 % cy if feed sludge directly to centrifuge then sludge dryness of cake will be 15 % maximum only as per vendor recommendation. Please confirm the sludge thickener and associated equipments requirement.	Tender condition prevails. However, Bidder may add any unit/equipment which he may felt necessary.
22	59	I, 2.4	Technical specifications for structural steel	Please provide the Grade of Structural steel and relevant painting specifications	Structural Steel TMT Fe500 & Painting as per IS code/ Industry standards
23	3	II, 1.2	Energy cost	Tender indicates Energy cost for 15 years at 10 % discount rate. Please elaborate the discount rate of 10 % and our scope of O &M for 10 years only. Kindly clarify.	Guaranteed Power consumption will be considered only for evaluation for 10 years with discounted rate of 10% per year to arrive

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					at net present value.
24	27	I, 2.3.1	Type of filling soil for Site grading for finished ground level	Please provide the type of soil also confirm whether excavated soil can be used for refilling / back filling.	Subject to approval of PDA
25	6	II, II	Summary of BID evaluation	Tender indicates in price schedules – II of ( C ) a. Capitalized energy cost guaranteed power consumption including main pumping station , Plant area and building lighting at rated ( design) capacity and influent parameters, KWH/D ,please clarify the pumping station is not in our scope of work. Kindly revise the price schedules-II.	As per tender conditions. Guaranteed power consumption for entire plant including main raw effluent pumping station, CETP, area lighting, all complete for design capacity.
26	49	I, 14.8	Inter connection of roads between existing residential area to plant boundary	Kindly clarify scope and entry & exit of roads after the plant boundary.	Bidder to visit the site and assess
27	50	I, 14.9	MOC for Storm water drain sewer	Please provide MOC of storm water drain.	As per tender
28	50	I, 14.9	Invert level of storm drain	Tender indicates proposed storm drain to be connected to the existing drain or city channel network. Please confirm invert level and length / routing of city network distance.	Replied earlier. Bidder to visit the site and assess.
29	50	I, 14.10	MOC of boundary wall & Gate	Please confirm	Replied earlier. Boundary wall is deleted form the bidder's scope.
30	47	I, 14.1	Disposal of sewage line (	Kindly clarify the requirement of	Sewage generated within the

Sr. No.	Page no. of the tender document	Tender Volume and clause no.	Subject/Description as per tender	Bidder' query	Reply by the PDA
			Sanitary in plant boundary)	septic tank and sewer network line.	plant area to be treated along with CETP effluents. Necessary septic tank shall be provided wherever required.
31	50	I, 14.12	Disposal of plant residuals / sludge	Please provide the distance from CETP to Derabassi site .	Approx. 100 km. Bidder to visit Derabassi site and do further assessment.
32	53	I, 16.0	HT Voltage rating	Please provide the voltage rating of HT power supply	Bidder to visit the site and assess
33	53	I, 16.0	Source of supply for HT power	Kindly provide the source of supply whether overhead line or underground cable.	Bidder to visit the site and assess. However, underground may not be permitted.
34	53	I, 16.0	Short circuit rating	Please provide the short circuit rating of HT & LT	To be provided as per Electricity rules/IS and requirement.
35	53	I, 16.0	DC power source	Kindly clarify the requirement of DC source of power supply	To be arranged by the bidder, if required.
36	53	I, 16.0	Emergency lighting	Please provide emergency lighting requirement	All plant, building lighting shall be operated on DG, in case of power failure.
37	53	I, 16.0	Electrical Cables	Please clarify the insulation conductor & type of cables.	To be provided as per IS/ IE rules/ industry standards.
38	53	I, 16.0	MOC of Cable tray	Please provide the MOC of cable tray	GI perforated cable trays and MS ladder type. To be used depending up to size, location, number of cables, etc.
39	53	I, 16.0	Cable routing in plant	Kindly clarify arrangement of routing ( cable tray on overhead/ underground)	To be provided as per site requirement.
40	53	I, 16.0	MOC of Earthing /lightning	Please provide the MOC of earthing / lightning.	As per IE rules and IS standards.

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41	53	I, 16.0	Technical specifications for FDA	Please provide the spec	Question is not clear. For all standards and specifications relevant IS/ISO and regulatory rules and specifications to be followed.
42	53	I, 16.0	Technical specifications for Telephone system	Please provide the spec	To be provided as per site requirement and in consultation with PDA
43	53	I, 16.0	Technical specifications for Marshalling panel	Please provide the spec	For all standards and specifications relevant IS/ISO and regulatory rules and specifications to be followed.
44	--	--	Lighting transformer	Kindly clarify the lighting transformer usage.	To be provided, if required.
45	--	--	Diesel Generator	Please provide the back-up load / AMF panel / Continuous rating.	DG set to be provided for full load design capacity of the plant with AMF panel
46	--	--	Transformer	Kindly clarify the ONAN type / off load tap changer/ Out door.	Indoor type without tap changer
47	--	--	Technical specification for Electrical/ Instrumentation	No specification available in tender document for electrical & Instruments, please provide the same .	For all standards and specifications relevant IS/ISO and regulatory rules and specifications to be followed.
48	54	I, 17	Main PLC & SCADA	Kindly provide the distance between central control room to CETP and specify the type of integration	Central control room is a part of CETP.
49	54	I, 17	List of approved makes	Kindly provide approved vendor for the remaining instruments & cables	Approved make list is given. For any other instrument, standard and only reputed make will be acceptable with prior approval by PDA

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50	--	---	Technical specification for Instrumentation	Kindly provide the technical specifications	As per relevant IS/ISO/ industry standards
51	--	--	Type of flow meter	We have consider magnetic flow meter for all waste water application ,please confirm	Electrically operated Mag Flow meter is acceptable. However, depending on application, ultrasonic flow meter will be also acceptable.
52	--	--	MOC of all field Instruments & junction boxes	We have consider SS304 material of construction for all Field instruments and junction boxes ,please confirm	SS-316 for instruments and SS-304 for junction boxes.
53	--	--	Technical specification for instrument cables	Please provide spec for instrument cables.	As per IS/ISO/relevant standards
54	--	--	Technical specification for PLC	Please provide the same.	PLC can be non-redundant type. All other specs shall be as per IS/ISO/relevant standards
55	--	--	MOC of hardware fittings	We have consider SS304 material of construction for all hardware fittings ,please confirm	SS_304
56	--	--	MOC of Instrument cable tray	We have consider GI material of construction, please confirm.	GI
57	--	--	Disposal of excavated Soil out of plant boundary	Please provide the Lead distance for disposal of soil.	Bidder to assess
58	--	--	Performance Guarantee run	Please provide the performance guarantee run period of plant in hours and required parameters.	Please refer volume I, page 23, second para.
59	--	--	MOC for submersible pumps	Please provide the MOC of submersible pumps	Replied earlier

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60	--	--	Source of instrument air	Please provide the source and battery limits conditions of Instrument air	Bidder to provide, if required. However, all instruments shall be electrically operated.
61			Lime dosing pump	Lime in the form slurry 6 to 10 % solution dosing in the pH correction tank -1, Since lime is slurry we have considered centrifugal type pump for the lime dosing, Please give your confirmation.	Centrifugal or Screw pumps are acceptable subject to application suitability.
62	--	--	List of laboratory equipment	please specify the list of laboratory equipment	Replied earlier
63	--	--	Battery limit	Please provide the Plant battery limit conditions at inlet & Outlet of effluents and required discharge elevation.	As per tender. Raw effluent will be made available at plant boundary. Treated effluent to be disposed off up to Budda Nalla.
64	--	--	Standards for electrical hoists / chain pulley block	Please provide the standards.	To be provided as per relevant standards. However, Hoist/pulley block shall be suitable to lift 1.5 times higher than the load of the equipment.
65	--	--	Technical specifications for Air conditioning	Kindly provide the same (wet bulb, Dry bulb, RH and Inside temperature).	Air conditioners shall be with 5 star rating
66	--	--	Technical Specifications for Ventilation	Kindly provide the same	To be provided as per air to be ventilated and relevant IS/ISO/Industry norms
67	--	--	Make & type / standards of fire extinguisher	Kindly provide the same	Only standard and Reputed makes will be accepted. Fire



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					extinguishers to be provided as per safety norms
68	--	--	Provision of C Form	Please clarify whether provision of C Form by Client / Tenderer is applicable in this Contract or not.	No concessional form shall be issued by the PDA.
69	--	--	Last date for submission of Tender	Considering work involved in preparing the bid, we request to consider extension of bid submission date by another 30 days (30.07.2014).	Tender submission date is here by extended till 21/07/2014. Other details such as time and venue is unchanged.
70	6,	I, 2.0 clause b	Technical Experience Criteria to be met by the Bidder	Tender indicates in specified clause Bidder should have experience of Operation & maintenance of minimum one number CETP/ CETP/ETP of 20 MLD capacities in India for a period of minimum three years in continuation during last 10 years ending 31st March 2014. We request you to consider O&M experience of sewage treatment plant also. Please confirm	Replied earlier.
71	28	I, 2.3.	COD levels in treated water quality	Tender indicates that COD of treated water quality shall be $\leq 50$ mg /lit. We request you to revise the parameters of COD to 100 mg/lit which is achievable.	Replied earlier. COD to be read as 100 mg/lit.
72	49	I, 14.7	Flooring for staircase	Tender indicates in specified clause Flooring for staircases in inside building. Kindly clarify some the access for the process equipment will	Brown granite flooring on stairs case.

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				be outside of the unit which exposed to atmosphere, Please provide a MOC of flooring.	
73	27	I, 2.2.13	AR Brick lining	We have assumed 38 mm of thick of AR brick lining, Please confirm the thickness of AR bricks which is suitable for the Acid / Alkali in chemical dosing system.	Minimum 38 mm
74	47	I, 14.1	Internal, Ceiling and External plastering	Please provide the thickness of Internal, External and Ceiling plastering.	Thickness of Internal and External 12mm & Ceiling 10mm
75	41	I, 11.2	Painting specifications	Please provide the painting specification for internal & External and Ceiling painting.	Internal Specification 1 Coat primer.2 Filling of Chalk mitti with enamel. 2 Coat of Plastic Paint. External Specification ACE Exterior Paint
76	45	I, 12.7	Chemical Sludge belt press and Biological Sludge centrifuge house	Please clarify the requirement of Aluminum Composite panel cladding in the Chemical / Biological Sludge house. If necessary please provide the technical specifications.	Aluminum composite cladding for the sludge house is deleted.
77	22	I, 12.7	Technical specification for epoxy paint	Please provide the spec for epoxy painting.	As Per PWD Schedule
78	29	I, 2.3.4.1	Detailing engineering shall be per IS 3370	We have considered 0.02 mm of crack width, Please confirm the same.	Tender conditions prevails & shall be as per all applicable IS codes.
79	--	--	Damp proof course	Thickness and Grade of damp proof course (DPC) not provided.	2 Inches Thickness Grade M-20 + 2 Coat of Water Proofing

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					Chemicals make Dr. Fixit, Weber, Sikka
80	--	--	General	Material of Rain water down pipe not mentioned.	uPVC
81			General	Specifications of Roof sheeting not provided	Steel Shuttering
82			General	Specifications of Water stoppers at the Construction joints not specified.	As per IS
83			General	Specifications for External coating of RCC Tanks , pump foundations and retaining walls that are exposed to earth and atmosphere not provided	Will be decided on later stage.
84			General	Specifications of Termite treatment if any.	Will be decided on later stage
UEM India Pvt. Limited					
1	--	--	C Form	Kindly confirm whether the department would issue C-Forms for this project.	No
2	--	--	Excise duty & Custom Duty benefit	Kindly confirm if Excise duty & Custom duty benefit is available for this project.	No
3	--	--	Change in Law	Our understanding that there would be provision in contract for any changes in law towards taxation in future.	Replied earlier. Taxes and duties as applicable till bid submission date are deemed to be included in bidders cost. Any variation in taxes or duties due to change in law will be paid extra at actual against documentary evidence.
4	--	--	Submission Date	Please appreciate that in order to	Replied earlier.

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				prepare most competitive & comprehensive bid submission we would request you to kindly extend the date of submission at least by 3-4 weeks from the time of reply to the pre-bid queries by PDA.	
5	--	--	Source of funds & Availability	Please provide the sources of funds for this project and availability.	Project will be funded from own funding/bank loans, central Govt. subsidy and state govt. subsidy
6	--	--	Price Escalation	Price Escalation is the integral part of any construction project because of ever changing scenario and volatility of prices of fuel, lubricant, steel, cement etc. Any change in the prices of these components will drastically affect the cost of construction and in turn increases the project cost. Therefore we request the Competent authority to kindly include the clause of price escalation so that the contractor does not get penalized unnecessarily.	Replied earlier.
7	--	--	Bank Guarantee	Format for the bank guarantee is missing in the tender document. Please provide the same	Format for BG for EMD is enclosed. All bank guarantees should be issued by nationalized banks only.
8	--	--	Contract period	As per our understanding the total contract period will be as follows: <u>18 Calendar months</u> (including Monsoon) from Date of issue of Work	Yes. DLP period is a part of O&M period.

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				Order followed by <u>120 months for O &amp; M</u> including first 24 months as Defect Liability Period. Please confirm our understanding of the Total contract period.	
9	--	--	O&M warranty period	Since 2 year DLP is already prevalent in the tender, Kindly clarify the scope of the bidder during 10 year O&M warranty period as it may lead to unnecessary additional price implication on the entire project.	As per tender. Bidder shall operate and maintain the plant during O&M period in all respect.
10	--	--	Project Authorization/Exemption Certificate	Kindly Confirm whether the department will issue the PAC / EC for this project.	No exemption certificate will be issued by PDA
11	--	--	Land	Please confirm the location of ETP and the total land available. In addition please clarify if the land is free of encumbrances and is in the possession of PDA	Replied earlier.
12	--	--	Road Tax	We request the authority to provide statutory clearances with respect to the Road taxes for this project	Bidder's price shall inclusive of all taxes and duties.
13	--	--	General	Please confirm if there is any Government stake in the ETP & the	No.

Sr. No.	Page no. of the tender document	Tender Volume and clause no.	Subject/Description as per tender	Bidder' query	Reply by the PDA
				percentage of stake	
14	--	--	General	As per our understanding competent Authority will issue two separate work orders (Construction Work and O&M work).Please confirm	Single order will be issued. However PDA reserves the right of splitting of order.
15	--	--	General	Please confirm whether client will allow High sea sales & Sale in the course of Transit.	Bidder to assess. However no concessional forms will be issued by the PDA.
16	--	--	Retention Money	Kindly confirm the amount of Retention money in this Project	Retention money will be 2% of the contract value (excluding O&M cost), which will be deducted from each running bill @ 2% of billed value. This retention money will be released after satisfactory completion, performance and commissioning of the CETP.
17	--	--	Service Tax Exemption	Being a Municipal Project our understanding is that the service tax is exempt in this contract as per latest notification 25/2012 dated 20.06.2012.kindly confirm.	This project is private project. Bidder to assess.
18	--	--	Mobilization advance	We would request the competent authority to provide 10% interest free mobilization advance for this project.	No mobilization advance is payable under this project. Kindly refer revised price bid (volume-II)

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19	--	--	Additional Forms	Form of performance security and contract agreement are missing. Kindly provide the same.	Will be provided at the time of award of the work
20	--	--	Electrical (Battery Limit)	We understand that the single source 11 KV HT power supply will be made available at the premises of STP which will be further step down on 415 V kindly confirm.	As per tender. Please refer Volume-I, clause 16.0 page 53.
21	--	--	Electrical & Instrumentation works-	In the tender document there is no technical specification for electrical and instrumentation works like, HT Panel, PCC/MCC panel, transformer, lighting, APFC Panel , cable laying philosophy, PLC/SCADA etc. if any ,kindly provide or clarify that the bidder is free to go with the standard specification .	Bidder to follow the specifications mentioned in the tender. If any particular specifications are not mentioned bidder should follow relevant IS/ISO/IE rules, State electricity board rules.
22	--	--	Power and Diesel cost-	We understand that during trial run cost of diesel & Power will be in Employer's Scope. Kindly confirm.	Yes. However, it shall be bidders responsibility to get power supply on time from the State electricity board before trial run starts
23	4	I, NIT	Proposed treatment scheme	As per bid document conditions, we understand that bidder has to quote for both the technologies i.e. ASP and SBR. Kindly provide the design basis for ASP technology similar to SBR technology given in tender document, so as to bring all the bidders at par.	Replied earlier.

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24	--	--	Finished Ground Level and High Flood Level of the STP site	Kindly mention the Finished ground level (FGL) to be maintained at the STP site and the High Flood Level (HFL) of the near-by channel, where the treated effluent shall be discharged.	Replied earlier.
25	22	I, 2.1	Demolishing the existing Structures and removing the debris from Site.	Kindly provide the details/drawings of existing structure to demolish, on site.	Replied earlier
26	28	I, table 2.3.3	Treated effluent quality : TDS	As per bid conditions, TDS value to be guaranteed for treated effluent is inlet TDS $\pm$ 10%. Considering lot of chemicals dosage in clariflocculator, TDS value of effluent may increase by nearly 30% also. Hence, we request you to relax the TDS guarantee to inlet TDS +30%.	Bidder conditions prevails
27	--	--	Dye analysis report	Please provide the dye analysis report to understand the type of dyes (organic/ inorganic) imparting the color to the effluent which will enable us to choose a suitable color removal method.	Bidder to assess
28	38	I, 10.4	Number of blowers	According to mentioned clause, we understand that each set of blower shall have one stand by blower; i.e. 100% standby blower philosophy has to be followed. Kindly confirm	Replied earlier
29	42	I, 12	Sludge Handling system	This clause mentions the provision of sludge sump with a HRT of 8 hours, such high retention shall result in	As per tender. Replied earlier.



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				causing nuisance and odor problems. Instead of sludge sump we suggest that it would be better to make the provision of gravity sludge thickener before dewatering unit. Please confirm your acceptance.	
30	50	I, 14.12	Sludge disposal	We understand that sludge i.e. chemical as well as biological shall be disposed off to derabassi landfill site. Kindly confirm the distance of land fill from the STP site.	Replied earlier
31	41, 42	I, 11.1 to 11.3	Chlorination system	As per clause no. 16.0, 16.1 & 16.2, chlorination is provided for the purpose of disinfection. We understand that textile effluent does not have of high coliform levels. Kindly clarify if the textile effluent consists of high coliform levels so as to be considered for disinfection. If not for the purpose of disinfection, the chlorine will oxidize the color due to organic dyes present in the effluent. For this purpose the dosage of 5ppm is less. Please clarify the purpose of chlorination and the dosage rate.	Tender conditions prevails. Chlorine dosing specified is only for disinfection purpose. However, Bidder to ensure the residual chlorine standard in the treated outlet effluent.
32	50	I, 14.1	Scope of Boundary Wall	As per mentioned clause, we understand that boundary wall has to be provided for total plot area of 293 m x 118 m. Please clarify.	Replied earlier.

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33		Corrigendum-I	Disposal of Plant Residuals Treated Effluent	As per mentioned clause Cost of disposal, Processing, Transportation to Derabassi site is Rs.4000/MT. We request you to provide the Breakup of the given cost. Any royalty/ tipping fees for the disposal site is included in the same. Please confirm.	Cost is indicative. Bidder should visit the Derabassi land fill site and recheck the costs.
34	25 & 46	I, 2.2.9, 13.0	Chemical dosing & color removal system	<p>Since complex textile effluent is to be treated, up to stringent discharge standards with outlet guarantees of BOD &lt;10mg/l, TSS, 50mg/l and color &lt; 10 Hazen units specified in the NIT; We request you to kindly freeze the minimum dosage for all the chemicals to ensure desired effluent standard to be met consistently in case bidder opts for chemical dosing. We recommend minimum dosing rates for lime 1200 mg/l, alum 1000 mg/l and poly 1-2 mg/l. This will refrain the bidders to quote speculative chemical dosage figures and will bring all the bidder at Par during evaluation.</p> <p>We understand that bidder is free to propose any proven colour removal agents instead of chemicals for removal of TSS, color and organics. However Bidder has to submit case study/reference in support of their technology along with a tie up/agreement with the technology</p>	Bidder to submit the details along with the bid submission. The same will be evaluated at the time of evaluation. Discharge standards for color and COD are vised to 100 Pt. Co. scale unit and mg/lit respectively. Bidder is free to offer other alternative chemical dosing/color removal agent. The same will be also evaluated based on reference/study. Other conditions as per tender.

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				provider. Please confirm	
35	81	I, 3.0	List of makes	We request following renowned makes to be added in list of approved makes: Blower :SWAM, BETA Pumps: Aqua & Kishore Screw Pump: Netschz Diffusers: OTT Agitator: Remi Screen : Jash	As per tender. However, Jash make screen is also acceptable.
36	--	--	Electrical Load List	We request you to provide a common elaborative format for electrical load list for all the bidders. A sample for the same is attached herewith for your ready reference. Also each Bidder must provide performance and characteristics curves from reputed manufacturers to support the BKW figures used to arrive at the total power consumption guarantee.	Bidder shall provide load list showing name of equipment, no. of equipment installed (working & stand by), Power consumption at duty point in kW, Motor kW, operating hours per day, total power consumption per day in kW. This same will be evaluated at the time of bid evaluation. However, please note that in case, power consumption exceeds the guaranteed power consumption quoted by the bidder, then it will be on account of the bidder as specified in the tender Clause 6, page 71
M/s. Shapooji Palanji & Co Limited					
1	5	I, 2.0 a &	Technical Experience Criteria	In corrigendum-I, you have deleted	Yes. Only year during last 7

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		corrigendum-I	to be met by the Bidder	the opening para i.e. Bidder must have successfully completed and commissioned on turnkey/EPC basis, minimum one work of Design, Construction, Supply, Installation,..... We presume that these requirement is to be read in continuation with changes made the corrigendum-I. Please confirm.	years is replaced with 10 years.
2	6	I, 2, c & Corrigendum-I	Tie up with Technology provider	<p>In corrigendum-I, you have made some changes including ASP as an alternative technology. We presume that SBR Technology is mandatory to be quoted and ASP is optional technology. Please clarify.</p> <p>Also ASP technology is open technology and there are no special technology providers for ASP. Therefore we presume that, in case, bidder opts to go for ASP technology, then he should have experience of design, construction and commissioning of 20 MLD CETP (for textile effluents) based on ASP which is working satisfactorily for at least one year on or before 31<sup>st</sup> March 2014. Please clarify/confirm.</p>	<p>Replied earlier.</p> <p>Bidder should submit the bid for both the Technologies. Technology tie up agreement for ASP is not mandatory.</p>

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3	6	I, 2.0 b	O&M experience	The word CETP is repeated. We presume that O&M experience for STP is also acceptable. Please confirm.	Replied earlier. Yes.
4	25, 33	I, 2.2.7, 6 & corrigendum- I	Retention time in Equalization tank	As per corrigendum-I, you have increased the retention time of equalization tank from 12 hrs to 24 hrs. 24 hrs is too high capacity. This will lead to the increase in capital as well as operating cost drastically. Considering nature of the effluents, We feel that 12 hrs retention time is more than sufficient. Please confirm	Replied earlier.
5	--	--	Material of constructions for Clariflocculator/sludge blanket clarifiers, secondary clarifiers	Considering the nature of the effluents, we recommend to go for SS-316 as material of construction for clariflocculator/ sludge blanket clarifiers and secondary clarifiers (for ASP) please confirm.	All under water parts shall be in SS-316L. Only platform will be permitted in SS-304
6	28	I, 2.3.3 & corrigendum-I	Outlet quality- COD and color	You have revised the color limit to < 10 Hazen unit. Obtaining color limit to < 10 Hazen is not possible with any of the conventional treatment method & may not be economically viable. We request you to kindly look into the same and revise the outlet color standard. Also outlet COD limit is given as 50 mg/lit. This outlet COD of 50 may not be achieved and additional chemical treatment will be	Replied earlier

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				required after biological treatment. This adds to project and O&M cost unnecessarily. Therefore, we request you to kindly revise the COD in outlet to 100 mg/lit.	
	Triveni Engineering and Industries Limited				
1	--	--	Designing, Providing, Constructing, Erecting and Commissioning of 40 MLD average capacity Common Effluent Treatment Plant for Focal Point Module based on Sequential Batch Reactor Technology (SBR Technology) And Activated Sludge Process Technology (ASP Technology) on Turnkey Basis including Operation and Maintenance for 10 years at Tajpur Road, Ludhiana, Punjab.	The zip folder sent by mail- the name of the folder is written as 50 MLD – this is a typographical error. Pls correct	Noted. Plant capacity is 40 MLD.
2	4	I, NIT	Bidders please quote separately for both the technologies.	Specs given in the tender document is only for SBR technology. Please provide the specs for ASP also.	Replied earlier.
3.	4, 19	I, NIT & tender data sheet	Bids will be received on or before 30/06/2014 up to 3:00 pm and Technical Bids (only envelope I) will be opened at 3:30 pm on the same day in	Whereas on page 19 tender data sheet, S. No. 9, deadline for submission is 5 <sup>th</sup> July 2014 and pre-bid meeting on 25 <sup>th</sup> June 2014 at 2.00 PM. Please clarify.	For new pre-bid meeting, refer corrigendum-II and new tender submission date is 21 <sup>st</sup> July 2014. Other details remain unchanged.

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			the presence of the Tenderers.		
4.	5	I, 2.0, b), f Qualification and eligibility of the tenderer	Contractor must have a valid registration with CPWD, PWD or equivalent departments of Government of India/ any state of India for Civil/Sewerage/CETP/ETP/CETP works. A  copy of certificate must be attached as documentary proof for qualification	CETP is repeated we understand this is STP	Already replied in corrigendum-I dated 17.06.2014
5	5	I, 2.0) a technical experience criteria to be met by Bidder	Bidder must have successfully completed and commissioned on turnkey/EPC basis, minimum one work of Design, Construction, Supply, Installation, Testing and successful Commissioning of at least Sewage Treatment Plant or Common Effluent Treatment Plant or Effluent Treatment Plant of 20 MLD average capacity in India during last 7 years ending 31 <sup>st</sup> March 2014 based on Sequential Batch Reactor Process Activated Sludge Process / Extended Aeration	As per CVC guideline, the plant capacity should be 80%, which can be rounded off to 30 MLD average capacity in India during last 7 years ending 31 <sup>st</sup> March 2014 and should be working satisfactorily in place of 20 MLD capacity and working satisfactorily for one year as on 31-03-2014	As per corrigendum-I already issued prior to pre-bid meeting & as replied earlier.

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			Process / MBBR and working satisfactorily for at least one year as on 31 <sup>st</sup> March 2014. Plants based on any other processes will not be considered forevaluation.		
	5	I, 2.0) b technical experience criteria to be met by Bidder	Bidder should have experience of Operation & maintenance of minimum one number CETP/ CETP /ETP of 20 MLD capacity in India for a period of minimum three years in continuation during last 10 years ending 31 <sup>st</sup> March 2014.	The CETP is repeated and we understand it is STP	Replied earlier. Yes.
	5	I, 2.0) c technical experience criteria to be met by Bidder	Bidder should tie-up with a Technology Provider for SBRTechnology for biologicaltreatment section and shall submit technology tie-up arrangement/MOU as per formatgiven in this document on Rs. 100 stamp paper as a part of their bid. The technologyprovider shall have experience of providing SBR Technology andtechnology equipment for at least one CETP (textile effluents) of 20 MLD capacity in India during last 7 years ending 31 <sup>st</sup> March 2014 and is	As per CPHEEO Circular issued by MOUD dtd. 16-04-2014 (copy attached) clause (iv) international work experience should also be counted towards qualification of technology. In this way, advanced and most efficient technologies may be brought to India for better performance. As per clause: the technology provider shall have experience of providing SBR Technology and technology equipment for at least one CETP (textile effluents) of 20 MLD capacity in India. CETP (with textile effluent) in India will force the bidder to sign MOU with only one party in India.	For SBR Technology experience from abroad is also accepted.The clause is now revised as follows; Bidder should tie-up with a Technology Provider for SBR Technology for biologicaltreatment section and shall submit technology tie-up arrangement/MOU as per formatgiven in this document on Rs. 100 stamp paper as a part of their bid. The technologyprovider must have experience of providing SBR Technology and technology equipmentfor at



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			working satisfactorily for at least one year as on 31 <sup>st</sup> March 2014. Technology provider must have registered office in India.	Further requirement of having registered office in India is against the spirit of MOUD guidelines, hence should be deleted.	least one CETP (textile effluents) of 20 MLD capacity in India/ Abroad during last 10 years ending 31 <sup>st</sup> March 2014 and is working satisfactorily for at least one year as on 31 <sup>st</sup> March 2014. Technology provider must have registered office in India.
6	8	I, 9.0, i, (a)	Earnest money deposit	Please provide BG format	Enclosed.
7	17	I, 32.0	Performance Guarantee	Request to please replace 10% with 5%	Tender conditions prevail.
8	18	I, 33.0	Security deposit	Performance Guarantee submitted should be converted to security deposit on award of contract.	Tender conditions prevail.
9	7	II, II - summary of bid evaluation	Being L-1 is not the criteria for award of the work.	Please clarify	Bidders may not be evaluated just based on the price quoted.
10	22	I, 2.1	Cutting of unwanted Tress, Plants, Bushes and Shrubs etc. and removing the same from Site. However, necessary approval for the same shall be arranged by the Employer.	Obtaining approval from concerned department will take a lot of time hindering the progress of the project. Hence we would request PDA to kindly take necessary approval for the same.	Noted.
11	23	I, 2.2	Conveyance pipe line work up to CETP.....	Since the design and laying job is being executed by other agency for PDA Focal point, hence the data of 4.5 m below EGL is considered to be	Bidder to consider invert level of 4.5 m below existing ground level at plant boundary.

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				firmed and to be taken for purpose of tendering Estimation. Any variation in actual site condition should be adjusted proportionately.	
12	27	I, 2.3.1	Area allotted	Area allotted for CETP is mentioned as 293 m x 118m, whereas in the layout drawing the dimension is provided as 243 m x 100 m. Please clarify the discrepancy.	Replied earlier. Layout drawing is indicative.
13	28	I, 2.3.3	Treated effluent characteristics	Kindly see Annexure-I for explanation	Replied earlier. In case, any additional units/treatment is required to achieve the outlet guaranteed quality, bidder should include the same.
14	30	I, 3.1	The arrangement of the horizontal centrifugal pumps as per pump manufacturer's data i.e. spacing between pumps, minimum space between pump and wall etc.	As evident from the layout drawing there seems to be space constraint. We would request you to kindly accept submersible pumps which will be easy to handle & will not require dry well to accommodate these pumps.	Bid condition prevails.
15	35	I, 7.0	Hydrated Lime with minimum 80% purity shall be used to correct the pH.	Please note that Hydrated lime of upto 65% of purity is available in the market. Hence we would recommend you to kindly accept the purity of lime as 65%	Bidder to assess.
16	36	I, 10.1	During Fill/Aeration phase, the Effluent shall be filled into SBR Basins and part of the treated	Recirculation in SBR basin is only provided by few technology providers and does not provide an open	Bid conditions prevail. In case of SBR as well as ASP, it is mandatory to provide anoxic

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			Effluent along with activated sludge shall be recycled with the help of Recycle Pumps.	platform to complete. Moreover this increase energy cost due to additional pumping. Request to remove the clause & allow bidder to provide design as per technology provider. Since Technology provider's credential is already being verified, hence the system engineering should be left to the technology provider. However, design & document duly stamped & signed by the technology provider should be submitted along with the bid. Please confirm.	zone with re-circulation. Also, it shall be mandatory for all bidders to submit the design and engineering details of biological treatment section duly signed and stamped by the SBR technology provider selected by him at engineering stage.
17	37	I, 10.3	There should be maximum one decanter per basin	Providing more number of decanter gives a lower weir loading rate and hence a better effluent quality. Hence here is no technical advantage in specifying maximum one decanter per basin. Moreover putting a value of "1" as maximum do not make any sense, and should be deleted.	Normally, more than one decanter will not be preferred due to problems in auto synchronization of decanting operations of multiple decanters.
18	43	I, 12.4	Both the feed pumps shall be of positive displacement type Screw Pumps suitable for handling biological sludge of 0.8 – 1% solids consistency.	Please note that the Chemical sludge will have a consistency of approx 2-3%. Hence request you to kindly allow bidder to provide Bio sludge pumps of 0.8 -1% & Chemical sludge of 2 -3% consistency.	Accepted.
19	44	I, 12.6	The Sludge Dewatering Device shall be solid bowl type	Operating two different type of dewatering machine is not feasible. Also 0.8% of sludge feed to any	Tender condition prevails. However, bidder is free to add any unit/equipment prior to

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			Centrifuges designed for 100% trouble free operation at all times and provided as per the following guidelines	dewatering machine will not give a consistency above 15%. Hence we would recommend to allow bidder to provide a Thickener followed by Belt Filter Press which is the ideal application for both Bio & Chemical Sludge.	mechanical dewatering.
20	45	I, 12.8	There shall one Solution Preparation Tank and one Solution Dosing Tank, each suitable for minimum 12 hrs. of operation and quipped with slow speed Mixer (100 RPM).	Since the Dewatering machine is 16 hours working, we would recommend 2 tanks of 8 hours each for Solution Dosing Tank.	Replied earlier.
21	46	I, 13.0	Bidder is free to choose dosing chemicals/ colour removal agents. Above list is indicative only.	For removal of colour the Physico Chemical Treatment is rightly envisaged along with the Chemical dosing system. We understand, bidder need to choose chemicals from the table, however dosing rate to be decided by bidders. Allowing bidder to choose its own chemical may also create deletion of some units such as pH correction tanks, Sludge Blanket Clarifier etc. as certain suppliers claim that there are chemicals which are very reactive and can work in-line to remove colour. This will not only create a risk of deviating from the established treatment methodology but will also pose a problem in evaluation. Hence	Tender condition prevails.

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				request you to kindly amend the Clause.	
22	50	I, 14.12	The contractor shall be responsible for disposal of all sludge and screenings and plant residuals at Derabassi hazardous landfill site (loading, transport and disposal charges). Bidder should also obtain the necessary permissions for transportation/disposal of the sludge. Only legal deposits and related documents will be provided by PDA. Present approx. cost of disposal to Derabassi site is Rs. 3300/MT including transportation.	We would request PDA to kindly consider the clause only for the purpose of evaluation. The price of the Landfill cost of Rs 3300/ MT will be governed by the Private Agency which will indirectly govern the price of the Tender. Also since the rates will be varying during the 10 yrs O&M, hence there will be huge uncertainty on the cost. Hence we would request you to kindly revise the Clause as under:- The bidders should provide the quantity of sludge generated from the system & the evaluation will be done based on Rs 3300/MT. However the scope of the disposal of sludge will be with the client.	Cost given is indicative only. Tender condition prevails.
23	29	I, 2	Manually operated CI gates are provided at the upstream and downstream ends to regulate the flow.	Kindly clarify the operations which will be executed through PLC.	These gates can be manually operated.
	54	17	The complete Plant shall be designed for automatic operation through Programmable Logic Control (PLC) and Supervisory Control and Data Acquisition (SCADA).		<ol style="list-style-type: none"> <li>1. Raw effluent pump operations</li> <li>2. Mechanical Screens, belt conveyor operations</li> <li>3. Eq. effluent pump operations</li> </ol>

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					<p>4. Complete Biological treatment operations for ASP or SBR including inlet gates/valves shall be executed through PLC and SCADA.</p> <p>5. All other indicators such as pH, flow, level transmitters/controller s, DO, temperature, Controlled Air blower speed, Decanter speed in case of SBR, etc.</p> <p>Other details as per tender. Bidder should submit operation and control philosophy along with his technical bid.</p>
24	70, 71	I, 6	Liquidated Damages and Penalties for O/M works:	No maximum limit for liquidated damage has been defined. We request you to kindly consider it as maximum five percent of the contract value.	Tender condition prevails. Also kindly refer corrigendum-I dated 17/06/2014.
25	50	I, 14.10		Please clarify whether boundary wall is in scope of bidder.	Replied earlier.
26	--	--	Technical	As per the tender, there is no grit chamber mentioned in the methodology. Grit chamber would be necessary for grit removals as well as	Replied earlier.

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				smooth functioning of downstream units. Please confirm the requirement of grit chambers and provide its design details.	
27	--	--	Makes	We request you to include makes of Triveni for screen, grit mechanism; clarifier, sludge thickener & Belt filter Press. Triveni is approved make in various government organizations such as HUDA,DJB, PWSSB ,UPJN etc.	May be accepted, subject to the evaluation of past performance by PDA. However, it is not binding on PDA.
28	47	14.7	Technical	The tender indicates one air blower cum admin cum MCC & PLC building. The dimension s of the same has not been provided. Please provide the details.	<p>Basic requirement is specified. However, Minimum carpet area for utilities (apart from blower room &amp; MCC room) shall be provided in the building as follows;</p> <ol style="list-style-type: none"> <li>Workshop – 25 m2.</li> <li>Tool room – 25 m2.</li> <li>Laboratory room – 30 m2.</li> <li>Conference room- 45 m2.</li> <li>PLC control room - 30 m2</li> </ol> <p>Minimum two numbers toilets block containing urinals, toilets, wash basins and bathroom (one block each for man and women separately) shall be provided on each floor of the building. Bidder to</p>

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					assess and shall provide area for balance rooms such as blower room, MCC room. All details as per tender.
29	47	I, 13	Technical	An acid storage tank is to be built outside chemical building. Please provide details like HRT or dimension of the tank.	Bidder to assess.
30	--	--	--	The automation & instrumentation details for the automatic working of the plant have not been provided. Kindly provide the same.	As per tender. Replied earlier.
31	--	--	Chemicals	<p>We request PDA to kindly keep the chemicals in their scope as there will be uncertainty on the cost. Hence we would request you to kindly revise the Clause as:</p> <p>Chemical Cost as per the process requirement of the bidder. Bidder may add / delete the relevant Chemicals as per his process requirements.</p> <p>Urea (Purity 100%)  Urea Consumption per day, Kg/day  Cost of Urea per day calculated  Cr = Annual Cost of Urea,  Cc = Discounted net Urea Cost for 10 Years at 10% discount rate  DAP (Purity 100%)  DAP Consumption per day, Kg/day</p>	Tender condition prevails.



Sr. No.	Page no. of the tender document	Tender Volume and clause no.	Subject/Description as per tender	Bidder' query	Reply by the PDA
				Cost of DAP per day calculated Cr = Annual Cost of DAP, Cc = Discounted net DAP Cost for 10 Years at 10% discount rate We would request PDA to kindly consider the clause only for the purpose of price evaluation.	

FOR PUNJAB DYERS ASSOCIATION, FOCAL POINT UNIT, LUDHIANA, PUNJAB