

CORRIGENDUM NO. – 1

NAME OF WORK: DESIGNING, CONSTRUCTING, ERECTING, COMMISSIONING INCLUDING OPERATING AND MAINTAINING FOR A PERIOD OF 5 YEARS, OF 107 MLD CAPACITY SEWAGE TREATMENT PLANT AT THIRUVANANTHAPURAM –ADOPTING ACTIVATED SLUDGE PROCESS WITH EXTENDED AERATION

BID NO. : KSUDP/PIU-TVM/003 (SS) 2008

CONTRACT NO. : TVM – SS - 03

Sl. No.	ITEM	VOLUME / SECTION	CLAUSE	PAGE NO.	EXISTING DETAILS	REVISED DETAILS																		
1.	Contractor' Responsibilities	1 / 8	9	8-4	-	<u>Add the following as 9.13:</u> 9.13 - All costs related to temporary facilities such as water, electricity and any other item required during construction period shall be borne by the contractor.																		
2.	Special Conditions of Contract	1 / 8	62	8-14	62 - Duties of Engineer	63 - Duties of Engineer																		
3.	Appendix 1 (Terms and Procedures of Payment)	1 / 9	Schedule No. 2	9-6	EXW (“Ex-Works”)	<u>Replace EXW (“Ex-Works) as follows:</u> “F O R Site”																		
4.	Functional Guarantees; Production Capacity (For Treated Effluent)	1 / 9	3 (A)	9-17	4th & Last Rows: <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>SS</td> <td>mg/l</td> <td>Up to 30</td> </tr> <tr> <td>Faecal Coli forms</td> <td>Per 1000 ml</td> <td>Less than 100</td> </tr> <tr> <td>MPN</td> <td></td> <td></td> </tr> </table>	SS	mg/l	Up to 30	Faecal Coli forms	Per 1000 ml	Less than 100	MPN			4th & Last Rows: <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>SS</td> <td>mg/l</td> <td>Up to 50</td> </tr> <tr> <td>Faecal Coli forms</td> <td>Per 100 ml</td> <td>Less than 1000</td> </tr> <tr> <td>MPN</td> <td></td> <td></td> </tr> </table>	SS	mg/l	Up to 50	Faecal Coli forms	Per 100 ml	Less than 1000	MPN		
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5.	Failure to Attain Guaranteed Production Capacity (For Treated Effluent)	1 / 9	4.1 (A)	9-18	<u>2nd column:</u> i) BOD5 not more than 30 mg/l, ii) Suspended Solids not more than 100 mg/l. iii) Faecal Coliform less than 510000	<u>2nd column:</u> i) BOD5 not more than 20 mg/l, ii) Suspended Solids not more than 50 mg/l. iii) Faecal Coliform MPN less than																		

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					per 100 ml. <u>36rd coumn:</u> If the defect or damage is such that the Employer has been deprived of substantially the whole of benefit of the works or part of the works, terminate the contract in respect of such parts of the work as can not be put to the intended use, the Employer shall then be entitled to recover the all sums paid for such works together with the cost of dismantling the same, clearing the site and returning the plant and materials to the contractor.	1000 per100 ml <u>3rd coumn:</u> If the defect or damage is such that the Employer has been deprived of substantially the whole benefit of the works or part of the works, the employer shall terminate the contract in respect of such parts of the work as can not be put to the intended use and the Employer shall then be entitled to recover all sums paid for such works together with the cost of dismantling the same, clearing the site and returning the plant and materials to the contractor. The employer shall also be entitled to reconstruct such defective parts / works through other agencies at the cost and risk of the contractor plus 10% of the expenditure so incurred.
6.	Specification	2 / 6	2 A: & 2 B:	6-4 & 6-5	2 A: Standard Specification & 2 B: Specific Specification	2.1: Standard Specification & 2.2: Specific Specification
7.	Design Criteria & Hydraulic Levels	2 / 6	3.1	6-6	a. TWL in the inlet chamber (at average flow) : (+) 6.75 m b. TWL of treated effluent channel at outfall of proposed drain (at average flow) : (+) 1.50 m	a. TWL in the inlet chamber (at average flow) : (+) 6.75 m b. "Deleted"
8.	Design Criteria & Hydraulic Levels	2 / 6	3.13 (ii)	6-9	From distribution chamber ahead of Aeration Tank to final Effluent Channel.	From common outlet channel of clarifiers to final Effluent Channel.
9.	Flow Measuring Channels	2 / 6	4.4	6-12	<u>6th line:</u> "and the other one will be connected	<u>6th line:</u> <u>Please treat it as "Deleted"</u>

Sl. No.	ITEM	VOLUME / SECTION	CLAUSE	PAGE NO.	EXISTING DETAILS	REVISED DETAILS
					to the dilution water pump house”	
10.	Secondary Clarifier	2 / 6	4.7	6-15	–	<p><u>Please add the foowing as last para:</u> “Sludge from the sludge pit shall be withdrawn by means of a suitable diameter D. I. pipe (not less than NB 200 mm) under hydrostatic pressure through an adjustable telescopic valve system into a sludge pit, located at the periphery of the clarifier, and sludge shall flow from the sludge pit to the sludge recirculation pump house through a pipe not less than NB 250 mm. The amount of sludge withdrawn shall be adjusted depending on the process requirement with the help of telescopic valve. The operation system to be used for raising and lowering of the telescopic valve shall be installed in a platform of convenient height. The operation of the valve shall be manual with hand wheel and the screw of operation system shall be of stainless steel.</p> <p>The sludge pit provided shall be of adequate size and shall be accessible to carry out maintenance. For draining the clarifier, the sludge pipe from clarifier central pit shall be extended up to the sump of sludge recirculation pump house and shall be provided with a sluice valve. The operation of the valve shall be from the ground level.”</p>

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11.	Sub-station Building	2 / 6	4.9	6-18	<u>Last para; 5th line:</u> “controls shown in Single Line Diagram for the concerned plant and an office for”	<u>Last para; 5th line:</u> “controls for the concerned plant and an office for”
12.	Supernatant & Centrate Pump House	2 / 6	4.12	6-19	<u>(i) Heading:</u> “Supernatant & Centrate Pump House” “The sump of the supernatant pump house shall receive the filtrate from sludge dewatering units / Sludge drying beds / and sludge thickener. Suitable size pumps with 100% standby shall be provided for pumping such effluent into distribution chamber upstream of aeration tanks through DI pipes S& S of adequate size with control valves at appropriate places for isolation / maintenance, The sump, the control room should be of adequate dimensions and constructed in accordance with the detail of construction given for the other pump houses. The pump house shall be of size not less than 5m x 4m. The Contractor shall verify and provide appropriate sizes to meet the requirement for satisfactory operation.”	<u>(i) Heading:</u> “Supernatant , Centrate & Dilution Water Pump House” “The sump of this pump house shall receive the supernatant, centrate, filtrate from sludge dewatering units / Sludge drying beds / and sludge thickener. Also it will receive the treated effluent for balance quantity of dilution water, required for thickened sludge, from effluent channel. Sump shall be of suitable size to accommodate required numbers of submersible pumps along with required standby pumps. RCC slab shall be constructed over the sump with 1.0 m high SS pipe railing. The sump shall be designed and constructed as water retaining structure. Necessary lifting arrangement in the form of HOT crane shall be provided for maintenance of the equipments/machineries. Clearance of 4.5m shall be kept between plinth and ceiling of the pump house. A clear space of 1m shall be provided between pumps for easy access to the pump. A clear space of 1.5m shall be provided from the end walls.”

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13.	Dilution Water Pump House / Treating Effluent for dilution / filtrate	2 / 6	4.14	6-21	4.14 Dilution Water Pump House / Treating Effluent for dilution / filtrate	Pease treat it as "Deleted"
14.	Sludge drying beds	2 / 6	4.15	6-22	<u>2nd para; 2nd line:</u> "The digested sludge from thickenerpipe of"	<u>2nd para; 2nd line:</u> "The thickened sludge from thickenerpipe of"
15.	-do-	2 / 6	4.15	6-23	<u>1st para; 9th line:</u> "each bed i.e. at 1.0 m and 20 mm depending upon length of bed over a 75 mm thick"	<u>1st para; 9th line:</u> "each bed i.e. at 1.0 m and 20 m depending upon length of bed over a 75 mm thick"
16.	-do-	2 / 6	4.15	6-23	"Depth of digested sludge Application on the drying bed"	"Depth of thickened sludge Application on the drying bed"
17.	DI piping shall be as per specification below:	2 / 6	5.0	6-24	<u>Heading:</u> "DI piping shall be as per specification below:"	<u>Heading:</u> "CI / DI piping shall be as per specification below:"
18.	Final Effluent Channel/Bypass Channel	2 / 6	6.0	6-26	<u>1st para; 3rd line:</u> "3370 with velocity of not less than 0.8 m/s at average flow and exceeding 2.5 m/s at"	<u>1st para; 3rd line:</u> "3370 with velocity of not less than 0.8 m/s at average flow and not exceeding 2.5 m/s at"
19.	Administrative cum Laboratory Building	2 / 6	7.0	6-29	<u>3rd para:</u> "Internal concealed electric wiring, light and fan fixtures and fittings with light/power points shall also be provided for the whole building. Waterbidder."	<u>3rd para:</u> "Internal concealed electric wiring, light and fan fixtures and fittings with light/power points shall also be provided for the whole building. The contractor shall provide required power pints (plus 2 nos. as spare) at laboratory suitable for laboratory equipment. Water bidder."
20.	Laying and Joining of D.I. Pipes	2 / 6	11.0	6-33	<u>Heading:</u> "Laying and Joining of D.I. Pipes"	<u>Heading:</u> "Laying and Joining of C. I. / D.I. Pipes"

Sl. No.	ITEM	VOLUME / SECTION	CLAUSE	PAGE NO.	EXISTING DETAILS	REVISED DETAILS
21.	-do-	2 / 6	11.0	6-35	<u>1st para; 4th line:</u> “Engineer-in-charge to keep the distribution system ready to supply water to the city.”	<u>1st para; 4th line:</u> “Engineer-in-charge.”
22.	Sewage Characterization	2 / 6	1.9 B	6-49	“The contractor is required to elsewhere in this document.”	Please treat as ‘Deleted’
23.	Building and Structures	2 / 6	1.14(37) & 1.14(46)	6-56	37. “Unless specified otherwise one meter high (above floor level) railing1.5m with 40mm internal dia GI pipes in two rows as per direction of the Engineer-in-Charge.” The GI pipes used for railing shall be of class-B.” 46. “Necessary concrete / brick.....and foot rests of PVC of size 35 x 35 mm and 35 mm long.”	37. “Unless specified otherwise one meter high (above floor level) railing shall be provided on the outer face of all walkways or at other specified places with SS railings, C/C distance not exceeding 1.5m, with NB 32mm SS pipes in two rows as per direction of the Engineer-in-Charge.” 46. “Necessary concrete / brick.....and foot rests of encapsulated PVC of the required size as per relevant ISS.”
24.	-do-	2 / 6	1.14(51)	6-58	The R C C walls and floor in contact with sewage shall be painted with two or more coats of coal tar epoxy paint with minimum thickness of 300 microns.	Epoxy painting on the walls and floors of RCC structures, in contact with sewage, shall be optional and the cost shall be indicated separately in the price break up.
25.	-do-	2 / 6	1.14 (52)	6-58	“The floor of the clarifies, aeration tank and digesters shall be grade M-20 R.C.C and provided withfilled with graded filter media.”	“The floor of the clarifies, aeration tank and digesters shall be grade M-20 R.C.C. The floor slab shall be designed for withstanding uplift pressure (tank in empty condition)”
26.	Technical Data / Drawings to be furnished by Bidder with the Bid	2 / 6	D.1.6	6-87	-	<u>Add the following as (xvii):</u> (xvii) - “Electric Single Line Diagram”

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27.	Centrifugal type Pumps (Materials of Construction)	2 / 6	1.3.2.3	6 – 96	“Stuffing box - Asbestos yarn coated with MOS packing”	“Stuffing box – CI conforming to IS: 210”
28.	-do-	2 / 6	1.3.2.3	6 – 96	-	<u>Add the following as (k):</u> k. “Gland Packing - Asbestos yarn coated with MOS packing”
29.	Centrifugal type Pumps (Design Feature)	2 / 6	1.3.3.4	6-98	-	<u>Add the following as (v):</u> v. “Maximum speed of motor shall not exceed 1500 rpm”
30.	Submersible Pump Non Clog Type (1.3.3.5 Construction)	2 / 6	1.3.4.2	6-100	-	<u>Please add the following as 7:</u> 7. Materials of Construction 1. Pump Casing: 2% Ni. C.I .conforming to IS: 210 (M) 2.Impeller: S.S.; C.F. – 8 (M) 3.Impeller shaft: S.S.; A.I.S.I.- 410 (M) 4. Shaft sleeve: St. steel AISI – 410 with 350 BHN hardness (M) 5.Impeller key: S.S.A.I.S.I. – 316 (M) 6.Impeller bolt: A.I.S.I. – 316 (M) 7. Wearing ring: St. steel CA- 6 NM with 195 BHN(M) 8. Mechanical seal: Silicon carbide v/s Silicon carbide. 9.Chain: S.S.; AISI 304 (M) 10.Guide Rail: S.S.; AISI 316 (M) 11.Eye Bolt: S. S.; A.I.S.I. 316 12.Bush: S. S.; A.I.S.I. 316 13.Hardware in contact with sewage: S. S. AISI -316 Note: For these components marked

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						(M), material test certificate shall be furnished.
31.	Filtrate Pumps (Design Requirement)	2 / 6	1.3.4.1	6-100	-	Add the following as last para: "Maximum speed of motor shall not exceed 1500 rpm"
32.	Filtrate Pumps (Materials of Construction)	2 / 6	1.3.4.2	6-100	Clause 1.3.4.2	Please treat this clause as "Deleted"
33.	Data (To Be Furnished By Contractor after the Award of Contract)	2 / 6	1.3.11 (3)	6-107	"Cross sectionalmaterial and relevant standards. Recommended spare parts for 3 years normal working shall be indicated."	"Cross sectionalmaterial and relevant standards. Recommended spare parts for 5 years normal working shall be indicated."
34.	Primary/ Secondary clarifier (General)	2 / 6	6.1	6-122	<u>4th para; 1st line:</u> "The renewable inserts shall be not less than 100 mm by 15 mm in cross-section and"	<u>4th para; 1st line:</u> "The renewable inserts shall not be less than 100 mm wide x 2 mm thick and"
35.	-do-	2 / 6	6.2 (ii)	6-124	=	Add the following as 3 rd para: "The collected scum shall be disposed off to distance of 20 kms (approximately) from the site"
36.	-do-	2 / 6	6.2 (vi)	6-125	Handrail – 25 NB Medium SS	Handrail – 32 NB (Minimum) SS Schedule 40
37.	Grit Removing Equipment	2 / 6	11.2 (v)(c)	6 - 145	3.7 KW	May be treated as "Deleted"
38.	Thickener	2 / 6	12(ii)	6 - 146	Walkway and hand rails from the edge to the center of the tank.	Walkway and hand rails from the edge up to 1 meter beyond the center of the tank.
39.	Sludge Dewatering (Centrifuge) Units (centrifuge)	2 / 6	13.0 (c)	6-147	<u>1st para; 4th line:</u> "dewatered cake shall have a minimum consistency of 25% weight dry solids." <u>2nd para; 3rd & 4th line:</u> "be stainless steel 304 in construction. The tungsten conveyor across surface,	<u>1st para; 4th line:</u> "dewatered cake shall have a minimum dryness of 25%." <u>2nd para; 3rd & 4th line:</u> "be stainless steel 304 in construction. The tungsten Carbide hard surfacing on

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					feed chamber and solid discharge inlet shall be provided. Differential speed.....”	conveyor scroll surface, feed chamber and solid discharge outlet shall be provided. Differential speed...”
40.	Sludge Dewatering (Centrifuge) Units (Polymer Dosing System) & Belt Press Filtration (Chemical Addition)	2 / 6	13(d) & 14.4	6-147 & 6-151	-	<u>Add the following as last para:</u> The bidder shall indicate quantity of chemicals required per ton (dry solid weight) of sludge dewatered by the dewatering machines.
41.	Belt Press Filtration (Belt Tracking)	2 / 6	14.5.9	6-153	-	<u>Add the following as last para:</u> “Pneumatic belt tracking system can be considered as an alternative”
42.	Belt Press Filtration (Belt Tensioning)	2 / 6	14.5.10	6-153	-	<u>Add the following as last para:</u> “Pneumatic belt tensioning system can be considered as an alternative”
43.	Supernatant & Centrate Pump House	2 / 6	16.0	6-154	(i) <u>Heading:</u> “SUPERNATANT & CENTRATE PUMP HOUSE” (ii) <u>2nd para; 2nd line:</u> “flanged and the rising main to digesters shall have to be suitably supported.....”	(i) <u>Heading:</u> “SUPERNATANT , CENTRATE & DILUTION WATER PUMP HOUSE” (ii) <u>2nd para; 2nd line:</u> “flanged and the rising main to the inlet chamber / thickened sludge sump shall have to be suitably supported.”
44.	Dilution Water Pump	2 / 6	17.0	6-154	17.0 DILUTION WATER PUMP	<u>As this is covered under item 16.0 hence item 17.0 may be treated as deleted</u>
45.	Water Level Measuring / Indicator And Control Instrument (Operation Philosophy)	2 / 6	20.0	6-157	<u>2nd para; Lines 4 & 5:</u> “automatically and will trip at its low level. The auto operation will be controlled by means of 4 float switches to be mounted in each Sludge	<u>2nd para; Lines 4 & 5:</u> “automatically and will trip at its low level. The auto operation will be controlled by means of 4 capacitance type level probe controllers to be

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					Sump, as under:"	mounted in each Sludge Sump, as under:"
46.	Scope of Work	2 / 6	2	6-167	-	<p><u>Add the following as last para:</u></p> <p>All the equipment shall be provided with voltmeter, ammeter, hour meter and KWh meter at the control panel, Full load current of the equipment shall be marked on the respective ammeters.</p> <p>Local control panel shall be provided for all equipment with Start, Stop, and Emergency Stop Push Buttons. Indicating lamps to indicate status of the drive shall also be provided. Local control panels shall be of Fibre Glass material and shall be weather- proof.</p> <p>Indicating lamps shall also be provided at the main control panel to indicate status.</p> <p>All the equipment shall have Tag nos. The successful bidder shall submit the Tag Nos. of equipment through P & D / other drawing to the Employer for approval. The approved Tag nos. of equipment shall be fixed on the respective equipment.</p> <p>The contractor shall provide calibration certificates from an approved agency for all meters and gauges supplied to the project. During O & M period periodical calibration, as required, shall</p>

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						be done by the contractor free of cost.
47.	Scope and Schedule of items	2 / 6	2.1	6-167	Note: 2. For correct understanding of the scope of work, refer following drawings in conjunction with scope and schedule of items mentioned herein. a. SLD Drg. No.(Schematic Drawing attached) b. Legends	<u>This may be treated as “Deleted”</u>
48.	Bus Duct	2 / 6	4.5	6-175	<u>2nd para; 1st & 2nd lines:</u> “Rain hood/canopy shall be provided for outdoor portion of the bus-duct. Rain hood/canopy shall be provided for outdoor portion of the bus-duct. Rain hood/canopy shall be designed to”	<u>2nd para; 1st & 2nd lines</u> “Rain hood/canopy shall be provided for outdoor portion of the bus-duct. Rain hood/canopy shall be designed to”
49.	Induction Motor	2 / 6	4.7	6-177	<u>8th para:</u> “Unless other wise specified, motors shall be designed for direct - on-line starting.”	<u>8th para:</u> “Motors only up to 5 HP, .shall be designed for Direct On Line starting. Starting for Motors above 5 HP shall be as under: i. For motors up to 25 HP – by Star Delta Starter ii. For motors above 25 HP and up to 75 HP – by ATS Starter iii. For motors above 75 HP - by Soft Starter ”
50.	Automatic PFIC Panel and capacitor banks	2 / 6	4.9	6-179	<u>1st para:</u> “Each capacitor bank and its automatic control panel shall be coupled to each other to form one composite unit. The unit shall be free standing, floor mounting, with a 3mm	<u>1st para:</u> “Each capacitor bank and its automatic control panel shall be coupled to each other to form one composite unit. The unit shall be free standing, floor mounting, with base channel of required

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					thick base channel with foundation bolt holes.”	size and foundation bolts etc.”
51.	Diesel Generator Set (A M F Type) (Diesel Engine)	2 / 6	4.11	6-182	<u>3rd para; 1st line:</u> “Diesel Engine shall be started by DG starter and Battery mounted on engine complete with”	<u>3rd para; 1st line:</u> “Diesel Engine shall be started by D. C. starter and Battery mounted on engine complete with”
52.	Instrumentation Works	2 / 6	6.0 (G) (h)	6-189	To supply optionally consumable recommended spares for instruments for 3 years maintenance requirements as envisaged.	To supply optionally consumable recommended spares for instruments for 5 years maintenance requirements as envisaged.
53.	Annexure IV & Annexure I	2 / 6	Annexure IV & Annexure I	6-165 6-192	Annexure IV & Annexure I	<u>Add the following:</u> where ever make is mentioned add the following: “or equivalent meeting fully specifications and as approved by the Employer”
54.	Panel Board Instruments and Wiring	2 / 6	4.2.3	6-201	” For alarm – annunciator at least 20% windows with cards shall be provided”	” For alarm – annunciator at least 20% spare windows with cards shall be provided”
55.	Annexure - III	2 / 6	Annexure - III	6-203	<u>Last para:</u> Besides Low Level Interlock pumps PI (2 Nos) and P 3(2Nos) shown in PID No. B2471 – XA4-01, shall have facility of automatic ‘start’ and ‘stop’ after preset time by a suitable timer having adjustable range of 1 to 3 hours. However, when a pump trips due to Low Level, the same can be restarted manually with the help of ‘start’ push – buttons.	<u>Last para:</u> Besides Low Level Interlock pumps shall have facility of automatic ‘start’ and ‘stop’ after preset time by a suitable timer having adjustable range of 1 to 3 hours. However, when a pump trips due to Low Level, the same can be restarted manually with the help of ‘start’ push – buttons. Besides all automatic control system for equipment shall have manual over ride facility.

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56.	Operation and Maintenance (General Requirements for Operation and Maintenance)	2 / 6	F.1	6-207	<u>2nd para; 1st & 2nd lines:</u> “The price for O & M bill shall include supply of all tools, tackles, spares, lubricants, laboratory chemical, and glassware. The water and power supply shall be made available by.....”	<u>2nd para; 1st & 2nd lines:</u> “The price for O & M contract shall include supply of all tools, tackles, spares, lubricants, laboratory chemical, and glassware and all other consumables (excluding power and water). The water and power supply shall be made available by.....”
57.	Operation and Maintenance (Down Time)	2 / 6	F.1	6-208	-	<u>Add the following as 2nd / last para:</u> Applicable rate for penalty would be charged at the rate of 0.1 % of the O&M contract amount for every day of delay as penalty for the delay.
58.	Operation and Maintenance (Spare Parts)	2 / 6	F.1	6-208 & 6-209	-	<u>Add the following as 2nd / last para:</u> “The contractor may be allowed to use the spare parts supplied with the construction contract. The spare parts taken from the stock for O & M by the contractor shall have to be replenished by him within a period of 3 months. An audit of spare parts shall be done every year and the expenses of procuring the spare parts, not replenished within 3 months by the contractor, shall be recovered from him. The expenses shall be the cost of procuring the same by the Employer plus 20% extra charges.”
59.	Operation and Maintenance (Operation Services)	2 / 6	F.3.1	6-209	-	<u>Add the followings as last para:</u> Maximum transportation distance for grit, screening and sludge shall be about 20 Kms.
60.	Performance data	2 / 6	F.6.3	6-215	Existing Table	<u>Revised Table is enclosed</u>

Sl. No.	ITEM	VOLUME / SECTION	CLAUSE	PAGE NO.	EXISTING DETAILS	REVISED DETAILS																		
61.	Daily Report	2 / 6	-	6-219	-	<u>This schedule may be treated as "Deleted"</u>																		
62.	Monthly Report	2 / 6	-	6-220	-	<u>This schedule may be treated as "Deleted"</u>																		
63.	Schedule I	2 / 6	6	6-243	Pump House	Sump																		
64.	Technical Parameters Proposed by the Bidder	2 / 6	-	6-253	-	<u>Add the following as Sl.No. 30:</u> <table border="1" style="margin-left: 20px;"> <tr> <td>30</td> <td>Sludge Dewatering Unit</td> <td></td> </tr> <tr> <td>i</td> <td>Type</td> <td></td> </tr> <tr> <td>ii</td> <td>Capacity of each unit</td> <td></td> </tr> <tr> <td>iii</td> <td>Materials of construction</td> <td></td> </tr> <tr> <td>iv</td> <td>Drive of the unit</td> <td></td> </tr> <tr> <td>v</td> <td>Wear Protection for centrifuge</td> <td></td> </tr> </table>	30	Sludge Dewatering Unit		i	Type		ii	Capacity of each unit		iii	Materials of construction		iv	Drive of the unit		v	Wear Protection for centrifuge	
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v	Wear Protection for centrifuge																							
65.	Schedule IX Functional Guarantees	2 / 6	-	6-270	Schedule IX	<u>This schedule may be treated as deleted</u>																		
66.	Schedule No. 1 - Plant and Unit and Mandatory Spare Parts Supplied	4 / -	Schedule No. 1	4	-	<u>Revised Schedules No. 1-A and 1-B, separately for Civil Works & Plant and Unit and Mandatory Spare Parts Supplied, are enclosed along with Schedule No. 1 – A (i) and 1 – A (ii)</u>																		
67.	Schedule No. 2 -Design Services	4 / -	Schedule No. 2	5	-	<u>Revised Schedule No. 2 is enclosed</u>																		
68.	Schedule No. 3 - Installation of Plant and Unit and Other Services	4 / -	Schedule No. 3	6	-	<u>Revised Schedule No. 3 is enclosed along with Schedule No. 3 - A</u>																		

Sl. No.	ITEM	VOLUME / SECTION	CLAUSE	PAGE NO.	EXISTING DETAILS	REVISED DETAILS
69.	Schedule No. 3 - Installation of Plant and Unit and Other Services	4 / -	Schedule No. 3	7	-	<u>Please treat it as 'Deleted'</u>
70.	Schedule No. 5 - Grand Summary	4 / -	Schedule No. 5	9	-	<u>Revised Schedule No. 5 is enclosed</u>

O&M Services

Date	Aeration tank								Secondary Clarifier			Operator	Officer on duty
	Inlet				outlet				outlet				
	a	c	e	f	a	c	e	f	b	d	g		