

TENDER DOCUMENT: PART – 2 (FINANCIAL BID)

Envelope-2

FINANCIAL BID

NAME OF THE CLIENT: BANK OF BARODA, ZONAL OFFICE, ERNAKULAM

NAME OF THE PROJECT ARCHITECT: M/S VIJITH JAGADEESH ARCHITECTS, ERNAKULAM

NAME OF THE WORK: CONSTRUCTION ,SUPPLY,INSTALLTION ,COMMISSIONING, TESTING (SITC) INCLUDING COMPREHENSIVE OPERATIONS & MAINTENANCE (COMC) OF SEWAGE TREATMNT PLANT WITH 15KLD CAPACITY AND SITC OF WATER TREATMNT PLANT WITH 3000LPH CAPACITY FOR BANK'S RESIDENTAIL CUM COMMERCIAL BUILDINGAT PLOT NEAR KARIKAMURI CROSS ROAD JUNCTION, ERNAKULAM, KERALA, INDIA

SCHEDULE OF QUANTITIES FOR WORKS FOR 3000 LPH WATER TREATNT PLANT(WTP)					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE(Rs.)	AMOUNT(Rs.)
1.0	<p>Planning, Designing, Detailing, Manufacturing, Supply, Installtion, Testin g, Commissioning of 3000 LPH Water Treatment Plant for supply of treated water for the use of bank's building comprising of Pressure Sand Filter, Activated Carbon Filter, Iron Removal Filter, Waater Softeners required pumps etc. to be installed on the desired location at ground floor level including design and execution of all Civil, Structural, Electrical, Mechanical, Plumbing and processing, ancillary equipments & works etc required to complete the work as per drawings/instruction of architect/bank to get satisfactory functioning WTP.</p> <p>The shop drawings & design of WTP(in -3- sets)shall also be prepared by the vendors and submitted to the bank/architect post successful completion of the work.</p>	Nos	1		
	Total(Rs.)				
	Applicable GST(Rs.)				
	NET TOTAL-1(Total+ App GST)(Rs.)				
Net total amount In words:					

SCHEDULE OF QUANTITIES FOR CIVIL WORKS FOR 15KLD STP					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE(Rs.)	AMOUNT(Rs.)
1.0	Earth work excavation for foundation in all classes of soil including hard laterite (except hard rock which requires blasting) cutting protecting the sides of excavation by shoring, strutting,dewatering etc wherever required, conveying and dumping the excavated earth in convenient places with an initial lead of 0 to 50m. and lift 0 to 4.5 m.including charges for back filling the sides of foundation and basement of ground floor with earth excavated and filling the balance earth in various places with in the compound, disposal of surplus earth, including labour charges for breaking clods, watering, ramming, bailing out water etc. complete as directed, complete for Sewage Treatment Plant.	M ³	345.00		
2.0	Sheet piling: Piling with hot-rolled structural Z shape with interlocks on the flange tips. The interlocks to be connected in order to form a continuous steel wall which is earth tight and virtually water resistant.The standards to match ASTM A572-Grade 50.(as per drawing)	Mtr	30.00		
3.0	Sheet piling: Piling with hot-rolled structural Z shape with interlocks on the flange tips. The interlocks to be connected in order to form a continuous steel wall which is earth tight and virtually water resistant.The standards to match ASTM A572-Grade 50.(as per drawing)	Mtr	30.00		
4.0	Providing and laying plain cement concrete 1:4:8 For bottom of STP (1-cement, 4-fine aggregate: 8 coarse aggregate)using Cement ULTRA TECH / Equivalent, 40mm down graded hard granite broken stone aggregates,including form work, cost and conveyance off all materials to site , lead and lift charges, labour charges, leveling, compacting finishing, watering, curing etc....	M ³	12.50		

5.0	Providing and laying 40mm metal with pores filled with M sand in 3 Compacted layers of 10cm each ,including form work, cost and conveyance off all materials to site , lead and lift charges, labour charges, leveling, compacting finishing, watering, curing etc....	M ³	25.20		
6.0	Providing and laying Ready mix Reinforced cement concrete for STP base Slab , Mix M30, added with water proofing compound certaplast (use asper company direction) IWP , Fosroc or equivalent, using Material cement : ultra tech/equivalent , Steel Tata /Vizag/equivalent , 20mm, down graded hard granite broken stone aggregates, mechine mixed and mechanically vibrated, including labour, cost and conveyance of all materials, form work, hire, lead, and lift charges watering, curing, etc. Rates are including chairs,space bars , cover block etc necessary to place/fix the reinforcement in position.	M ³	12.00		
7.0	Providing and laying all Side / internal wall of STP , Reinforced Cement Concrete added with water proofing compound certaplast (use asper company direction) IWP , Fosroc or equivalent using. M30 concrete and fe 500 grade steel . Tata/vizag/equivalent Clear cover to reinforcement 50 mm)Using cement Ultra tech / equivalent , 20mm down graded hard granite broken stone aggrigate, machine mixed and mechanically vibrated, including labour, cost and conveyance of all materials, formwork, hire lead and lift charges, watering, curing, etc complete as directed, but including the cost and labour for reinforcement. (Curing for seven days) Aggregates used for concreting to be approved by the architect/ engineer/client.	M ³	38.00		
8.0	Providing and laying Ready mix Reinforced cement concrete for cover Slab , Mix M30, added with water proofing compound certaplast (use asper company direction) IWP , Fosroc or equivalent, using Material	M ³	10.00		

	cement : ultra tech/equivalent , Steel Tata /Vizag/equivalent , 20mm, down graded hard granite broken stone aggregates, mechine mixed and mechanically vibrated, including labour, cost and conveyance of all materials, form work, hire, lead, and lift charges watering, curing, etc.....				
9.0	Providing and back filling with red earth /murrum in layers not exceeding 15cm, apply watered and consolidated to the correct level and there after flooding the surface with water for atleast 24 hours, allowed to dry and then rammed , consolidated, after making good any settlement , including the all cost of materials,conveyance, lead, lift, labour, watering, ramming etc complete as directed sides of STP tank and other places if any.	M ³	120.00		
10.0	Plastering internal & external surface of STP tank with cement mortar 1:4 (1 cement ; 4 P.sand-Poabs)Using material cement ultra tech/equivalent , with a minimum of 12mm thick one coat floated hard and trowelled smooth, including cost and conveyance of all meterials to site ,labour charges, lead.lift and hire charges for scaffolding,watering ,curing etc	M ²	400.00		
11.0	Ceiling Plastering with cement mortar 1:3 (1 cement : 3 P.sand- Using material Cement : ultra tech/equivalent , with a minimum thickness of 9mm, one coat floated hard and trowelled smooth to the under side of slab, sides of beams etc, to line and levelincluding cost and conveyance of all meterials to site , labour charges, lead, lift and hire charges for scaffolding, watering, curing etc	M ²	30.00		
12.0	Providing and Fixing double seal FRP(Fibre Reinforced Polymer) hinged/lifting type heavy duty manhole cover Size 600mm x 600mm with frame in concrete slab for manholes in water tanks, STP sumps, etc., including cost and conveyance of all materials, labour charges, sundries etc., complete with all lead and lifts as per the drawings, standard	Nos	13.00		

	specification and directions of the Engineer-in-charge. including cost and conveyance of all material to site, lead, lift, labour charges etc....				
13.0	M.S. GRATINGS: Providing & fixing in position M.S.Gratings with 6mm X 32 mm M.S. flat including cost and conveyance of all material to site, lead, lift, labour charges etc....as per drawing.	M ²	12.00		
14.0	Water Proofing STP RCC wall: Applying Chemical crystalline water proofing for Basement floor and RCC wall areas using pidilite / sika / fosroc chemicals. The chemical should be mixed with mortar made of fine aggregate and cement on the concrete floor/Surface. Precautions should be taken such that there is no water or wetness seen on the slab while applying the mix. The mix has to be applied on the wall and the space has to be left to curing for a minimum of 24 hrs without any activities. After curing, water has to be filled in for observation for a minimum of 24 hrs to assure a leak proof finish as per the manufacturer specifications approved by the architect/engineer, including cost and conveyance of all material to site, lead, lift, and hire charges for scaffolding, labour charges etc....	M ²	430.00		
	Total(Rs.)				
	Applicable GST(Rs.)				
	NET TOTAL-2(Total+ App GST)(Rs.)				
Net total amount In words:					
SCHEDULE OF QUANTITIES FOR ELECTRO MECHANICAL WORKS FOR 15KLD STP					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE(Rs.)	AMOUNT(Rs.)
1.0	Supply, installation, testing & commissioning of Stainless Steel Perforated, Corrugated Bar and Net Screens with suitable lifting arrangement for Sewage & Sullage chamber	Nos	2.0		

CONSTRUCTION ,SUPPLY,INSTALLTION ,COMMISSIONING, TESTING (SITC) INCLUDING COMPREHENSIVE OPERATIONS & MAINTENANCE (COMC) OF SEWAGE TREATMNT PLANT WITH 15KLD CAPACITY AND SITC OF WATER TREATMNT PLANT WITH 3000LPH CAPACITY FOR BANK'S RESIDENTIAL CUM COMMERCIAL BUILDINGAT PLOT NEAR KARIKAMURI CROSS ROAD JUNCTION, ERNAKULAM, KERALA, INDIA

2.0	Supply, installation, testing & commissioning of coarse bubble aeration grid pipe having MOC of cPVC on equalization tank catering entire floor area as per the good engineering practice.	Lot	1.0		
3.0	Supply, installation, testing & commissioning of submersible Sewage Transfer Pumps with all accessories, pressure gauge on delivery line with isolation cock, level controller to operate the pump automatically to transfer the effluent to next stage of treatment on a constant flow rate.	Nos.	2.0		
4.0	Supply, installation, testing and commissioning of flower type / corrugated UV Sterilized of HDPE MOC on anaerobic tank.	M ³	2.40		
5.0	Supply, installation, testing & commissioning of submersible centrifugal Pumps in anoxic reactor tank for generating mechanical turbulence all area inside the tank by not allowing to settle the activated sludge inside. And the operation of pump has to be on frequent intervals. HP/Kw: 0.5/0.375	Nos.	1.0		
6.0	Supply, installation, testing & commissioning of Twin lobe air blower with induction motor for process aeration on MBBR tank with all standard accessories Flow Rate: 30m ³ /Hr. @ 0.35kg/Cm ² HP/Kw: 2.0/1.50	Nos.	2.0		
7.0	Supply, installation, testing & commissioning of fine bubble aeration grid pipe having MOC of cPVC on all MBBR tank entire floor area as per the good engineering practice.	Lot	1.0		
8.0	Supply and filling of cylindrical shaped specially designed floating MBBR Media inside MBBR Tank. NB: - Surface area should be 500 m ² /m ³ MOC: - White, Virgin PP / PE	M ³	1.6		
	Supply, installation, testing &				

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9.0	commissioning of electrically actuated chemical dosing pump with adequate capacity i.e. 0-6 lph @3.5Kg/sqm with dozing tank of 30 Lit capacity with all standard accessories and chemical dosing tanks – For Flocculant Dosing	Nos.	2.0		
10.0	Supply, installation, testing & commissioning of centrifugal Monoblock self-priming sludge Transfer / Recirculation pump with all accessories, pressure gauge on delivery line with isolation cock, HP/Kw: 0.50/0.375	Nos.	1.0		
11.0	Supply, installation, testing & commissioning of electrically actuated chemical dosing pump with capacity i.e. 0-6 lph @3.5Kg/sqm with dozing tank of 30 Lit capacity with all standard accessories and chemical dosing tanks – For Dis-infection System	Nos.	1.0		
12.0	Supply, installation, testing & commissioning of centrifugal Monoblock / Submersible filter feed pump with duty flow rate of 1000 – 2000 Ltr/ Hr. @ 18.0 – 20.0 Mtr Head with all accessories, pressure gauge on delivery line with isolation cock, level controller to control the pump automatically.	Nos.	1.0		
13.0	Supply, installation, testing & commissioning of pressure sand filter with MOC of FRP of adequate size with all standard accessories	Nos.	1.0		
14.0	Supply, installation, testing & commissioning of Activated Carbon Filter with MOC of FRP of adequate size with all standard accessories	Nos.	1.0		
15.0	Supply, installation, testing & commissioning of Ultra-Filtration System having capacity of 1500 LPH with all standard accessories	Lot	1.0		

Seal & Signature of the bidder

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	and the operation of the plant with automated control panel. Make of Membrane: Membrane Hi Tech / Inge UF Feed Pump – 1 Nos UF CIP Pump – 1 Nos (SS Pump) UF Back Wash Pump – 1 Nos				
16.0	Supply, installation, testing & commissioning of flow meter.	Nos	3.0		
17.0	Supply, installation, testing & commissioning of TOD Meter	Nos	1.0		
18.0	STP MOTOR CONTROL CENTRE Type: Powder coated, CRCA, 16-gauge sheet, weather proof, non-compartmentalized, wall mounted. Function: Auto / Manual, Rating: Single phase, prevention and overload protection. Contactor make / Over load relay / Push Button, Indicating Lights, Selection Switch, VSS: L & T, MCB: Havells (Electrical Control Panel with Complete internal wiring, switch fuse Units, push buttons, meters, bus bar etc. complete as per the Requirements of the Department of Electrical Inspectorate.)	Lot	1.0		
19.0	Supply, installation, testing and commissioning of Plant Piping with PVC pipes with fittings and approved make valves, gauges, instrumentation etc., for all plumbing lines and MS B Class pipeline with fittings for Blower Air Lines.	Lot	1.0		
	Total(Rs.)				
	Applicable GST(Rs.)				
	NET TOTAL-3(Total+ App GST)(Rs.)				
	Net Total amount In words:				

SCHEDULE OF QUANTITIES FOR COMPREHENSIVE RUNNING OPEARTIONS & MAINTAENANCE OF 15 KLD CAPACITY SEWAGE TREATMWNT PLANT					
ITEM NO.	DESCRIPTION	UNIT	QTY	RATE(Rs.)	AMOUNT(Rs.)
RATES OF (COMC) ARE FOR PER ANNUM AND WILL REMAIN CONSTRAINT FOR UPCOMING CONTINUOUS -5- YEARS.					
1.0	Comprehensive Operations Maintenance Contract (COMC) for 01 Nos 15 KLD Sewage Treatment Plant based on MBBR technology as per the details provided in the tender.	Lot	1		
		Total(Rs.)			
		Applicable GST(Rs.)			
		NET TOTAL-4(Total+ App GST)(Rs.)			
Net Total amount In words:					
GRAND TOTAL (NET TOTAL-1+NET TOTAL-2+NET TOTAL-3+NET TOTAL -4)					
Grand Total amount In words:					

We agree to carry out the Work at the rate quoted above for the duration of one full year. We understand that Bank is not bound to accept the lowest or any other offer and reserves the right to accept or reject any or all the offers either in full or in part without assigning any reason.