

Item Rate BoQ

Tender Inviting Authority: Commissioner, Thoothukudi City Municipal Corporation

Name of Work : Construction of Storm Water Drain With Culvert and Pump room with HDPE Pipe line arrangements at Rajagopal Nagar 10th street and Cross

Contract No: 4/22-23/AEE(W) , File No: A2/ 5584/ 2021

Name of the Bidder/ Bidding Firm / Company :							
<u>PRICE SCHEDULE</u>							
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)							
NUMBER #	TEXT #	NUMBE R #	TEXT #	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	6	7	8
1	Earth work excavation for foundation in Hard stiff clay, stiff black cotton, hard red earth, shales murrum, gravel,stone earth and earth mixed with small size boulders SS.20B and Sand, silt or other loose soil, wet sand,or silt not under water, light black cotton soil, sandy loam ordinary soil and to full depth as may be directed except in hardrock requiring blasting inclusive of shoring shuttering and baling out water and cleaning and levelling the site etc.,complete						

1.1	Pump Room	34.00	1M3 (One cubic metre)			0.00	INR Zero Only
2	Plain Cement Concrete 1:4:8 (one cement four fine aggregates and eight coarse aggregates) using 40mm size ISS HBG metal including cost and conveyance of all materials to site and including for the mixing, laying and labour charges and all incidental charges such as water providing etc., complete as per standard specification	24.00	1M3 (One cubic metre)			0.00	INR Zero Only
3	Centering for soffits of RCC slabs of plane surface like lintels, beams ,etc.,including strutting 3m high using mild steel sheets of size 90cm X 60cm X and B.G 10 stiffened with M.S angles of size 25mm X 25mm X 3mm laid over silver Oak (C.W) joists of size 10cm X 6.5cm (spaced at about 90cm c/c)and supported dy casurina props of 10cm to 13cm dia (spaced of 75cm C/C) complying with standard specification and directed						
3.1	Roof	15.00	1M2 (One square metre)			0.00	INR Zero Only
4	Suppling and fabricating and placing in position MS (or) R.T.S. bar for reinforcement to all RCC works as per the design given including cost of steel and binding wire also in all floors.	1100.00	1KG(one kilogram)			0.00	INR Zero Only

5	Providing and laying in position Standardised Concrete Mix M-20 Grade in accordance with IS 456 - 2000 using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 3250Kg/ cum and maximum water cement ratio of 0.55 including admixture (Plasticiser / super plasticiser) in recommended proportions as per IS 9103 to accelerate, related setting of concrete, improve workability without impairing strength and durability with about (5.0cum), 7730Kg of 20mm machine crushed stone jelly and with about (3.3 cum), 5156kg of 10 - 12mm machine crushed stone jelly and with about (4.79cum) 7670 kg of sand, but excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary without claiming extra cost etc., complete complying with standard specification and as directed by the departmental officers - The Coarse and Fine aggregates to be used should comply with the requirements of IS standards. (No separate payment will be made by the Department for the excess usage of materials)						
5.1	Roof	2.00	1M3 (One cubic metre)			0.00	Zero Only
6	Supplying and fixing in position SFRC 600x600 of best approved quality and as per standard specifications etc., complete.	2.00	1Nos(One Number)			0.00	INR Zero Only

7	Brick work in CM 1:5 (one cement & five sand) using Country bricks of size 83/4"x41/4"x23/4" including finishing, curing, etc., complete complying with standard specification	5.00	1M3 (One cubic metre)			0.00	INR Zero Only
8	Plastering with cement mortar 1:3,10 mm ,thick in all floors including cost and conveyance of all materilas to site and labour charges etc,complete as per standard specifications	8.00	1M2 (One square metre)			0.00	INR Zero Only
9	Plastering with cement mortar (1:5) 12mm ,thick in all floors including cost and conveyance of all materilas to site and labour charges etc,complete as per standard specifications	46.00	1M2 (One square metre)			0.00	INR Zero Only
10	Supply and fixing of M.S Grills with Doors and Windows with one coat of Red oxide with Primer including all costs such as welding,grinding and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.	110.00	1KG(one kilogram)			0.00	INR Zero Only
11	White washing two coats with freshly burnt shell lime white in colour in all floors including cost of lime and other materials brushes scaffolding charges etc.complete complying with standard specification and as directed.	5.50	1M2 (One square metre)			0.00	INR Zero Only
12	Painting two coats with ready mixed interior Plastic Emulsion Paint approved quality and colour , including thorough scrapping, clean removal of dirt, etc complete and including necessary plaster of paris, putty, wherever required etc, complete as per standard specification.	15.00	1M2 (One square metre)			0.00	INR Zero Only

13	Painting two coats with ready mixed Exterior Emulsion Paint approved quality and colour including thorough scrapping, clean removal of dirt, etc complete and including necessary plaster of paris, putty, wherever required etc, complete as per standard specification.	23.50	1M2 (One square metre)			0.00	INR Zero Only
14	Painting Two Coat with Ready Mixed Enamel Paint over the new Iron works of approved quality and colour with priming coat including the cost all materials etc.,complete, in all floors.	12.00	1M2 (One square metre)			0.00	INR Zero Only
15	Wiring with 2x1.5sq.mm. (22/0.3) PVC insulated unsheathed SC copper conductor of 1100 V grade insuitable PVC rigid pipe concealed in wall and ceiling with PVC accessoires with TW switch box and 5AFT switch inflush with wall with 3mm thick hylum sheet cover for making good of the concealed portion with suitable colour for PVC concealed light point / fan point (for electronic regulator) (SD - 25)	1.00	1Nos(on e number)			0.00	INR Zero Only
16	Wiring with 2x4sq.mm. (56/0.3) PVC insulated SC unsheathed copper conductor cable of 1100V grade insuitable PVC rigid pipe concealed in wall and ceiling with PVC accessories inflush with wall with 150mmx100mmx113mm TW switch box with 3mm thick hylemsheet for 15A3 pinnon inter locking wall socket with 15A flush type switch with continuous earth wire connection of 14SWGTC wire and making good of the concealed portion with suitable colour for concealed power plug point (SD - 40)	1.00	1Nos(on e number)			0.00	INR Zero Only

17	Supply and fixing of TNEB meter Board suitable for 32A Three Phase service connection with 3 Nos. 32A Fuse unit (500V) 32A neutral link and earth link (1" x 1/8" Copper flat) on TW plank of size 600mm x 450mm x 19mm with supporting TW reepers of 1" thick an either side with painting with suitable bolt and nuts for fixing the TW plank on wall with earth connection and inter connection with 7/20 PVC insulated copper wire from EB meter to fuse unit. (SD - 127)	1.00	1Nos(one number)			0.00	INR Zero Only
18	Supply and fixing of 32 Amps DP Switch of 500V with metal clad with fuse and neutral (Side Handle) on suitable TW Board with PWD Earthing (SD - 143)	1.00	1Nos(one number)			0.00	INR Zero Only
19	Supply and fixing of single box type 4'36W fluorescent fitting complete with electronic ballast with TW round blocks on wall or ceiling with flu tube with PVC unsheathed Copper leads from terminals to the fitting (SD-88)	1.00	1Nos(one number)			0.00	INR Zero Only
20	Supply and run of 4 x 6 sq.mm (84/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V grade in 32mm dia GI pipe (Class 'B') suitably bent at both ends with necessary angle iron up right and end supports for mains (SD - 73)	20.00	1Mtr(one running metre)			0.00	INR Zero Only

21	Supply and delivery of submersible centrifugal sewage non-clog pumps, vertical spindle type pump , wear resistance with submersible motor for the various duty conditions as stated in the annexure. Pump shall be capable of handling min 100 mm solid size with sewage specific gravity of up to 1.05. Pump shall be of robust construction . Liquid passages shall be finished smooth and designed as to allow free passage to solids. Pump Impeller should be of Non-clog semi open type , single vane / multi vane preferably contra bloc or vortex impeller design. Double mechanical seal with silicon carbide faces should be provided to protect the motor from ingress of sewage along the shaft. The critical speed of the rotor shall be at least 30% above the operating speed. Pumps to have double bearings between the pump & motor. The bearings life shall be minimum 100,000 hrs of operation with greased for life. Pump should be provided with automatic coupling device including pedestal, duck foot bend, stainless steel guide pipe or related accessories of suitable size including all cost etc., complete						
21.1	Discharge 100 to 200 M3/hour	1.00	1Nos			0.00	Zero Only
22	Supply and delivery of 180mm HDPE pipes PE 100 as per ISI 4984/2016 (PN6) the rate icluds cast of pipe and transport etc coup 180mm dia pipe.	160.00	1Mtr(one runing metre)			0.00	INR Zero Only

23	Supply delivery of specials for HDPE pipes as per ISI 8360/1977 part I, (Reaffirmed 1992)Part II and Part III (Reaffirmed 2002) 180 mm 90 degree Bend	2.00	1Nos(one number)			0.00	INR Zero Only
24	Earth work excavation for pipe line trenches with proper gradient in both trench without any damaged to the water pipe line including all cost and conveyance of labour charges etc.,	41.00	1M3 (One cubic metre)			0.00	INR Zero Only
25	Jointing the 180 mm HDPE pipe and specials by but fusion welding / electro fusion welding joints using fusion equipment as per ISO 21307-2011 and as per IS 7634(part-2) : 2012 including cost of hire charges for butt fusion equipment power supply arrangements etc., complete as per directed by department officers.	27.00	1Nos(one number)			0.00	INR Zero Only
26	Lowering HDPE pipes and specials to trench and laying to proper grade and alignment and as directed by the TWAD officer of Over 180mm to 250mm dia (OD) HDPE pipe	160.00	1Mtr(one running metre)			0.00	INR Zero Only
27	Refilling for pipe line trench after laying the pipe without any damaged to the water pipe line including all cost and conveyance of labour charges etc.,	73.00	1M3 (One cubic metre)			0.00	INR Zero Only
28	DUCTILE IRON CLASS PN10 FLANGED PIPES AS PER IS 8329/2000 the above rates are basic rates with inclusive of transportation charges Diameter 200mm						
28.1	1 m length of pipes	3.00	1Nos(one number)			0.00	Zero Only
28.2	1.5m length of pipes	1.00	1Nos(one number)			0.00	INR Zero Only

29	Supply and delivery of DUCTILE IRON SPECIALS AS PER IS 9523/2000 all flange, The above rates are basic rates with inclusive of transportation charges						
29.1	100mm (D/F Bend 90 deg	48.00	1KG(one kilogram)			0.00	Zero Only
29.2	100mm x 200mm dia D/S Reducer	20.00	1KG(one kilogram)			0.00	INR Zero Only
30	Supply and delivery of 150mm DI D/F Gate sluice valves (soft seated) resilient seated soft sealing Gate Valves(Sluice Valves) with body Bonnet of Ductile cast iron of Grade GGG 40 or equivalent grade, Wedge fully rubber lined with EPDM replaceable spindle nut without gland packing and with 3 ORing protection on the shaft and seals of NBR and the valves should be of Vacuum tight and 100% leak proof with face to face dimensions as per BS 5163-89/ISI 4846-2000/DIN 3202 F4. All the valves should be with electrostatic powder coating both inside and out side with pocket less straight through body passage. All the valves are to be compatible for buried application with pressure rating PN 10/16, The above rates are basic rates with inclusive of transportation charges	1.00	1Nos(one number)			0.00	INR Zero Only

31	Manufacture, Supply and Delivery of DI D/F Slanted seat Swing Check Valve. Body of ductile cast iron of Grade GGG 40 or equivalent grade and disc of ductile cast iron GGG 40 or equivalent grade with fully encapsulated EPDM rubber, where both faces can be used. Electrostatic epoxy powder/liquid coating (EP-P) inside and outside color blue RAL 5005 with minimum coating thickness of 250 microns. The EPDM rubber & Epoxy Powder should be approved by W 270. (EPP) it is a resi-coat powder approved for drinking water application, applied through fusion bonding process by dipping the shot-blasted casted components heated up to 200 deg C). Face to face dimensions as per EN558-1, series 48 and flange connections as per EN 1092-2/IS 1538. The above rates are basic rates with inclusive of transportation charges (DI Non - Return Valve)(100mm)	1.00	1Nos(one number)			0.00	INR Zero Only
32	Supply delay and fixing of PVC Mould CI steps for sump	10.00	1Nos(one number)			0.00	INR Zero Only
33	Supply delay and fixing of MS BOLTS AND NUTS 20mm dia and above x 90mm to 120mm length fully he above rates are basic rates with inclusive of transportation charges	50.00	1KG(one kilogram)			0.00	INR Zero Only
34	Supply delay and fixing of RUBBER INSERTION SHEET, 3 Ply R.I. Sheet,he above rates are basic rates with inclusive of transportation charges	30.00	1KG(one kilogram)			0.00	INR Zero Only
Total in Figures						0.00	INR Zero Only

Quoted Rate in Words

INR Zero Only