

## BOQ

**Name of work:** Construction of RCC slow sand filter at 132 KV Tezpur II GSS, AEGCL.

**NIT No:-** AEGCL/DGM/TTC/TEZ/T-20/2023-24/204      **Dated** 12/07/2023

### Name of Bidder:

SL NO	DESCRIPTIONS OF ITEMS	QNTY	UNIT	UNIT RATE(Rs.)	AMOUNT(Rs.)
1	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. 2.6.1 All kinds of soil	4.97	Cum		
2	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :	4.97	Cum		
3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.	33.12	Sqm		
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :	1.65	Cum		
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	1874.51	kg		
6	Centering and shuttering including strutting, propping etc. and removal of form for filter base	1.58	Sqm		
	Filter walls	85.56	Sqm		
	Filter Slab	9.23	Sqm		
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	8.65	Cum		
8	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.	8.00	Each		
9	12 mm cement plaster finished with a floating coat of neat cement of mix :1:4	44.96	Sqm		
10	Supply and Laying of Coarse Sand for Filter Bed ( including related item i.e gravel of minimum 2 sizes and Coarse sand)	11.22	Cum		
11	Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm, 10 cm long, forked at end 60cm apart (minimum three lugs to be provided), including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete.	77.76	kg		
12	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 0.63 mm thick with zinc coating not less than 275 gm/ m <sup>2</sup>	17.64	sqm		

13	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes conforming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge.PN - 10 Pipe, 50 mm OD (SDR-11)	14.00	Rm		
14	Providing and fixing Polyethelene-Aluminium-Polyethelene PE-ALPE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes testing of joints complete as per direction of the Engineer-in-charge.4050 (50 mm OD) pipe	6.00	Rm		
15	Providing and fixing gunmetal gate valve with CI wheel of approved quality	2.00	Each		
16	2 HP Centrifugal monoblock pump set (Cromton Greaves/Aquatic/CRI/V-Guard/Calma make) 2900 rpm A class insulation with DOL Starter (Cromton Greaves/Control & Switch Gear/ BCH/ L&T/Siemens make).	1.00	Each		
<b>Total=</b>					
<b>Add 18% GST=</b>					
<b>Grand Total (Including GST)=</b>					