

## Bill of Quantities

**Name of Work:-Construction of slow sand water filter at colony campus of 220/132/33 KV GSS, AEGCL, Samaguri.**

**NIT No:- AEGCL/DGM/TTC/TEZ/T-20/2023-24/211**

**Dated 17/07/2023**

**Name of the bidder:** \_\_\_\_\_

Sl. No.	Description of Items	Qty	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	6.21	cum		
2	Providing soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (c).Stone soling of thickness 150mm.	16.56	sqm		
3	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in: 6.2.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	1.13	cum		
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	4.97	cum		
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level . 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	2.06	cum		
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. 5.22A.6Thermo-Mechanically Treated bars of grade Fe-500D or more.	1490.01	kg		
7	Centering and shuttering including strutting, propping etc. and removal of form for 5.9.2 Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	93.00	sqm		
	5.9.3 Suspended floors, roofs, landings, balconies and access platform	10.56	sqm		

8	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 5.2.2 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)	8.62	cum		
9	Providing precast R.C.C slab over drain ,septic tank etc. in prop. 1:2:4 reinforced with 10mm M.S. bar @ 150mm centre both ways tying with 20 gauge black annealed wire with necessary shuttering , curing etc. complete including fixing in position as directed. a) 100mm thick slab	3.25	sqm		
10	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 13.9.1 12 mm cement plaster	4.92	Sqm		
	13.9.2 20 mm cement plaster	108.45	Sqm		
11	Supply and Laying of Coarse Sand for Filter Bed ( including related item) rate as per w/o AEGCL/DGM/TTC/TEZ/T-25/2020/2780 Dated 12/10/2020	9.00	cum		
12	10.25 Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. 10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	106.65	kg		

13	<p>Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge)  0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns  epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto 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.</p>	10.60	Sqm		
14	<p>Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)</p>	30000.00	litre		

15	Supplying fitting and fixing approved uPVC Pipes of different sizes, with all necessary 'R' brand or similar approved P.V.C. Fittings such as bend, tee, elbow, reducer, nipple, plug, long screw fitting, clamps etc. complete at all levels including below G.L. as directed and specified. (A) Exposed or in trenches SUPREME/ PRINCE/ SFMC BRAND or other equivalent approved brand a) 50 mm dia	45.00	metre		
	b) 40 mm dia	10.00	metre		
16	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :	6.00	Each		
<b>Total=</b>					
<b>Add 18% GST=</b>					
<b>Grand Total (Including GST)=</b>					