

Scope of work

Recycling of back wash water received from WTP to proposed recharge pit near bore wells located in India House within Embassy premises

Item	Description	Quantity	Rate	Unit	Amount		
	Name of Work						
	Recycling of back wash water from WTP to recharge pit located in India House garden within Embassy premises						
	Abstract Estimate						
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 disposal of excavated earth, lead up to 50 m and lift up to 1.5m, disposed earth to be leveled and neatly dressed.						
1.1	All kinds of soil	27		cum			
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level						
2.1	1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40 mm nominal size)	2		cum			
3	Constructing masonry Chamber 60x60x 75 cm inside, in brick work in cement mortar 1:4 (1 cement: 4 coarse sand) for sluice valve, with RCC top slab 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement: 5 coarse sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement: 3 fine sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design:						

3.1	With common burnt clay FPS (non-modular) bricks of class designation 5	10	Each				
4	Providing and fixing GI pipes complete with GI fittings including trenching and refilling etc.						
4.1	80 mm dia nominal bore	450	meter				
5	Providing and fixing gun metal gate valve with CI wheel of approved quality (Screwed end)						
5.1	80 mm dia nominal bore	10	Each				
6	Centering and shuttering including strutting, propping etc. and removal of form for :						
6.1	Walls (any thickness) including attached pilasters, buttresses, plinth and string course etc.	54	sqm				
6.2	Suspended floors, roofs, landings, balconies and access platform	6	sqm				
7	Steel reinforcement for RCC work including straitening, cutting, bending, placing in position and bending all complete up to plinth level						
7.1	Thermo-mechanically Treated bars	1000	kg				
8	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 :						
8.1	1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size)	8	cum				
9	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 disposal of excavated earth, lead up to 50 m and lift up to 1.5m, disposed earth to be leveled and neatly dressed.						

9.1	All kinds of soil-For recharge pit	40		cum			
10	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part-I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charge of all equipments, tools & plants and machines required for the job, all complete as per direction of Engineer-in-charge, up to 90 meter depth below ground level						
10.1	All types of soil						
10.1.1	300 mm dia	150					
11	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.						
11.1	150 mm nominal size dia	140		meter			
12	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, over the existing layer of boulders, for all lead & lifts, all complete as per direction of Engineer-in-Charge	12.5		cum			
13	Supplying, filling, spreading & leveling gravel of size range 5 mm to 10 mm, in recharge pit, over the existing layer of boulders, in required thickness, for all lead & lifts, all complete as per direction of Engineer-in-Charge	8		cum			
14	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm, in recharge pit, over the existing layer of gravel, in required thickness, for all lead & lifts, all complete as per direction of Engineer-in-Charge	8		cum			

15	Steel work welded in built up sections/ frame work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.						
15.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	750		kg			
16	Brick work with common burnt clay FPS (non-modular) bricks of class designation 5 in foundation and plinth						
16.1	Cement mortar 1:6 (1 cement: 6 coarse sand)	6		cum			
17	12 mm cement plaster of mix:						
17.1	1:6 (1 cement: 6 fine sand)	26		sqm			
18	Providing and laying Ceramic glazed floor tiles of size 300 x 300 mm of 1 st quality conforming to IS : 15622 of approved make in colors such as white, Ivory, grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	6		sqm			
19	Providing and fixing Ceramic glazed wall tiles of 1 st quality conforming to IS: 15622 of approved make in colors shades except burgundy, bottle green, black of any size as approved by E-in-C, in skirting, risers of steps and dados, over 12 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	20		sqm			
20	Providing and fixing CI cover with frame (Light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)	1		Each			
	Total						

Additional conditions:

Sub: **Recycling of back wash water received from WTP to proposed recharge pit near bore wells located in India House within Embassy premises**

1. The work shall be completed within 30 (Thirty days) from the date of award of the work.
2. 3% Penalty will be recovered from the bill for delay in every Thirty days.
3. 10 % Performance guarantee will be recovered from the bill after completion of the work.
4. The performance guarantee will be released after 6 (Six) months from the date of completion of the work.
5. Only best quality & approved materials should be used for the proposed work.
6. The work shall be carried out strictly as per the latest CPWD specifications along with the updated correction slips issued by the CPWD from time to time.

Sd
Head of Chancery

