

BILL OF QUANTITY

Name of Work:-(1) Shallow Aquifer Management under AMRUT 2.0 under Itanagar, (SH – injection well with filtration chamber at Gohpur Tinali,SRPL Colony, Police Colony, Between APEDA Office & IG Park, Sangrik Hapa Chimpu and New Helipad, Itanagar.

(2) Shallo Aquifer Management under AMRUT 2.0 under Itanagar, (SH - Rooftop Rainwater Harvesting recharging though existing borewell at 'P' Sector, near DC Office and IMC Office Bldg).

Sl. No.	Description of Item	Qty	Unit	Rate (in figure)	Rate (in word)	Amount (in figure)	Amount (in word)	Remarks
	(1) Shallow Aquifer Management under AMRUT 2.0 under Itanagar, (SH – injection well with filtration chamber at Gohpur Tinali,SRPL Colony, Police Colony, Between APEDA Office & IG Park, Sangrik Hapa Chimpu and New Helipad, Itanagar.							
1	Earth work in excavation in foundation and trenches in soils containing 50% or more of shingle or small size boulders upto 30 cm size, lift upto 1.50 m and stacking the excavated soil not more than 3 m clear from the edge of the excavation and returning the stacked soil in 15 cm layers when required, into plinth, sides of foundation etc consolidating each deposited layer	127.05	Cum					
2	Providing and laying cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) excluding the cost of centring and shuttering in :	45.5	Cum					
3	Centring and shuttering including strutting propping etc. and removal of form work for:							
	b) Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	395.64	Sqm					

4	Ground water exploration (Drilling by DTH-200 Rig machine with ODEX option bore-well size 5" (127 mm) and complete assembling with ERW casing pipe of size 128 mm ID and 142 OD and other required lubricants, accessories in the depth of approximately 100 mtr.							
	i) 100 mm nominal bore	336.00	Mtr					
5	15 mm cement plaster 1 : 3 (1 cement : 3 fine sand)	197.82	Sqm					
	Filling with boulder	16.1	Sqm					
6	Filling with charcoal	16.1	Cum					
7	Filling with Broken Stone Aggregate 50 mm size	16.1	Cum					
8	Filling with Stone shingle 6 mm nominal size	16.1	Cum					
9	Filling in plinth with sand	16.1	Cum					
10	Providing and fixing Silicon mesh	26.81	Sqm					
11	Carriage of material	7	Job					
	(2) Shallo Aquifer Management under AMRUT 2.0 under Itanagar, (SH - Rooftop Rainwater Harvesting recharging though existing borewell at 'P' Sector, near DC Office and IMC Office Bldg).							
1	Earth work in excavation in foundation and trenches in soils containing 50% or more of shingle or small size boulders upto 30 cm size, lift upto 1.50 m and stacking the excavated soil not more than 3 m clear from the edge of the excavation and returning the stacked soil in 15 cm layers when required, into plinth, sides of foundation etc consolidating each deposited layer by ramming and watering and then disposing of all	10.05	Cum					
2	Reinforced concrete work in foundations, footings, bases of columns etc. and mass concrete excluding cost of centring, shuttering and reinforcement in : a) M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size).	58.83	Cum					

3	Reinforced cement concrete in walls (any thickness) including attached pillasters, buttresses, plinth and string course, fillets etc from top of foundation up to floor two level including finishing and plastering the exposed surfaces with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not	6.87	Cum					
4	Reinforced cement concrete in suspended floors, roofs, landings and balconies upto floor two level including finishing and plastering the exposed surface with cement mortar 1 : 3 (1 cement : 3 fine sand) of thickness not exceeding 6 mm to give a smooth and even surface but excluding cost of centring and shuttering and reinforcement with M20 (1 cement : 1.5 coarse sand : 3 stone aggregate 20 mm nominal size)	76.8	Cum					
	Reinforcement of RCC work including bending, binding and placing in position complete.							
	b) Tar/ TMT steel	4727.46	kg					
5	Centring and shuttering including strutting proping etc. and removal of form work for:							
	a) Foundation, footings, bases of columns etc. and mass concrete	32.76	Sqm					
	b) Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	313.62	Sqm					
	c) Suspended floors, roofs, landings shelves and their supports, balconies and chajjas (3.5 m height)	313.62	Sqm					
	15 mm cement plaster 1 : 3 (1 cement : 3 fine sand)	128.79	Sqm					
8	Construction of cement concrete drain 30 cm wide and 23 cm deep in cement concrete 1:3:6 (1cement : 3 sand : 6 hard graded stone chips/shingle 40 mm and down gauge) 8 cm thick on side sand bottom and plastering on all exposed surface swith 12 mm thick cement mortar 1 : 3 (1cement : 3 fine sand) including shuttering complete.	30.00	Mtr					
9	Filling with Broken Stone Aggregate 50 mm size	6.48	Cum					
10	Filling with Stone shingle 6 mm nominal size	8.10	Cum					

11	Filling in plinth with sand	6.48	Cum					
12	Providing and fixing Silicon mesh	32.40	Sqm					
13	Carriage of material	3	Job					