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ABSTRACT ESTIMATE

Work ID : 201920040523 Name of the Work : Drinking Water Supply
U-DISE Code : 28145200502 School Name : MPPS UPPUDI
Estimate Amount (in Rs.) : 2,21,916/-

Sl.No.	Description of Item	Quantity	Rate (in Rs.)	Unit	Amount (in Rs.)
1	Earth work excavation for foundations and depositing on bank for all lifts and with an initial lead of 10m including all operational, incidental, labour charges such as shoring, sheeting, planking, strutting etc., complete for finished item of work. [Ordinary Soil - Manual means - Upto 3m depth]	42.05	267.54	cum	11,250
2	Plain Cement Concrete (1:4:8) using 40mm nominal size SS5 hard broken granite metal including cost and conveyance of all materials like cement, fine aggregate (sand), coarse aggregate, water etc., to site and including all operational, incidental and labour charges such as machine mixing, laying concrete, curing etc., complete for finished item of work	3.4	3761.47	cum	12,789
3	VRCC 1:1.5:3 nominal mix (Cement: fine aggregate: coarse aggregate) corresponding to table 9 of IS 456 using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry, using a minimum quantity of 400 Kgs of cement per 1 cum of concrete including cost and conveyance of all materials like cement, fine aggregate (sand), coarse aggregate, water etc., to site and including all operational, incidental and labour charges such as machine mixing, laying concrete, curing, centering, shuttering etc., complete but excluding cost of steel and its fabrication charges for finished item of work.[RCC SLABS 125mm thick]	1.44	7813.62	cum	11,252

4	VRCC 1:1.5:3 nominal mix (Cement: fine aggregate: coarse aggregate) corresponding to table 9 of IS 456 using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry, using a minimum quantity of 400 Kgs of cement per 1 cum of concrete including cost and conveyance of all materials like cement, fine aggregate (sand), coarse aggregate, water etc., to site and including all operational, incidental and labour charges such as machine mixing, laying concrete, curing, centering, shuttering etc., complete but excluding cost of steel and its fabrication charges for finished item of work.[RCC Side walls]	0.26	11828.35	cum	3,075
5	Providing Impervious coat to exposed RCC roof slab surface with CM(1:3), 20mm thick with 1kg of water proof compound per bag of cement laid over roof when it is green including cost and conveyance of all materials all operational, incidental and labour charges for mixing mortar, laying, rendering smooth and thread lining, curing, rounding off junctions of wall and slab etc., complete for finished item of work.	15.33	342.61	sqm	5,252
6	Supplying, fitting and placing HYSD bar reinforcement complete as per drawings and technical specifications for bars below 36mm dia. including overlaps and wastage where they are not welded.	550	48.41	Kgs	26,626
7	Supplying & fixing Ashirvad/Astral flow guard for equivalent CPVC Pipes with fittings in ground or on wall including cost of tees, elbows, bends, reducers, couplings, running joints, union flanges, unions etc. with necessary excavation in all types of soils except rock requiring blasting, refilling, chiselling masonry walls and making good the walls & floors to the original surface and fixing MS clamps on TW blocks on walls including cost and conveyance of all materials and labour charges complete for finished item of work[15.90 mm dia CPVC SDR 13.50].	15	53.00	rmt	795
8	Supplying & fixing Ashirvad/Astral flow guard for equivalent CPVC Pipes with fittings in ground or on wall including cost of tees, elbows, bends, reducers, couplings, running joints, union flanges, unions etc. with necessary excavation in all types of soils except rock requiring blasting, refilling, chiselling masonry walls and making good the walls & floors to the original surface and fixing MS clamps on TW blocks on walls including cost and conveyance of all materials and labour charges complete for finished item of work[22.20 mm dia CPVC SDR 13.50].	30	85.00	rmt	2,550

9	Supplying & fixing Ashirvad/Astral flow guard for equivalent CPVC Pipes with fittings in ground or on wall including cost of tees, elbows, bends, reducers, couplings, running joints, union flanges, unions etc. with necessary excavation in all types of soils except rock requiring blasting, refilling, chiselling masonry walls and making good the walls & floors to the original surface and fixing MS clamps on TW blocks on walls including cost and conveyance of all materials and labour charges complete for finished item of work[28.60 mm dia CPVC SDR 13.50].	30	123.00	rmt	3,690
10	Supplying & fixing Ashirvad/Astral flow guard for equivalent CPVC Pipes with fittings in ground or on wall including cost of tees, elbows, bends, reducers, couplings, running joints, union flanges, unions etc. with necessary excavation in all types of soils except rock requiring blasting, refilling, chiselling masonry walls and making good the walls & floors to the original surface and fixing MS clamps on TW blocks on walls including cost and conveyance of all materials and labour charges complete for finished item of work[34.90mm ODPipe - SDR 13.5].	12	193.00	rmt	2,316
11	Supply and erecting of 1.00 HP (25 mm x 25 mm) single phase ISI Monoblock CI body motor pump set conforming to IS 9079:2002 approved make centrifugal water pump with impeller, priming funnel cork, companion metallic flanges with bolts and nuts and mounted on a common shaft of high coefficient squirrel cage induction motor totally enclosed and fan cooled tyupe suitable to operate on 230 V single phase 50 HZ , 1440 RPM AC power supply excluding suction/delivery pipe with nuts duly grouted on existing CC foundation and bolts, spring washer of requistie size for monoblock motor and pump	1	8175.00	Nos	8,175
12	Supply and Run of 2 of 10sqm WPTC (Weather Proof Twin Core) ISI Alluminium Wire.	60	33.85	rmt	2,031
13	Supply and fixing of 16A Flush type socket with shutter	1	60.00	Nos	60
14	VRCC 1:1.5:3 nominal mix (Cement: fine aggregate: coarse aggregate) corresponding to table 9 of IS 456 using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry, using a minimum quantity of 400 Kgs of cement per 1 cum of concrete including cost and conveyance of all materials like cement, fine aggregate (sand), coarse aggregate, water etc., to site and including all operational, incidental and labour charges such as machine mixing, laying concrete, curing, centering, shuttering etc., complete but excluding cost of steel and its fabrication charges for finished item of work.[COLUMNS]	0.38	8577.35	cum	3,259

15	VRCC 1:1.5:3 nominal mix (Cement: fine aggregate: coarse aggregate) corresponding to table 9 of IS 456 using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry, using a minimum quantity of 400 Kgs of cement per 1 cum of concrete including cost and conveyance of all materials like cement, fine aggregate (sand), coarse aggregate, water etc., to site and including all operational, incidental and labour charges such as machine mixing, laying concrete, curing, centering, shuttering etc., complete but excluding cost of steel and its fabrication charges for finished item of work.[RCC SLABS 150mm thick]	0.34	7369.62	cum	2,506
16	Cost, supply and delivery of 75 mm diameter 6.00 kgs/cm ² test pressure Unplasticised PVC pipes suitable for potable water supplies conforming to IS 4985/200 (3rd revision) as per specifications including labour charges for laying, fixing and commissioning the PVC pipes including couplers/bends/tees etc., including fixing with necessary fittings like bends, plugs, couplers, junctions, tees etc., with solvent jointing as per standard practise including cost and conveyance of all materials to site for finished item of work at all floor levels.	30	262.00	rmt	7,860
17	Supplying & Fixing 12.7mm NP stop cock Indian make heavy duty including Labour charges (BMW-E.01& E.02))	10	435.00	Nos	4,350
18	Water purifier (Drinking water solution) detailed circular will be issued later	3	25000.00	Nos	75,000
19	Supplying and fixing PPR Ball valve as per ISI Class - I , Indian make heavy type including cost and conveyance of all materials , labour charges etc. complete for finished item of work[20mm PPR Ball valve]	10	207.00	Nos	2,070
20	Supplying and fixing PPR Ball valve as per ISI Class - I , Indian make heavy type including cost and conveyance of all materials , labour charges etc. complete for finished item of work[40 mm PPR Ball valve]	10	445.00	Nos	4,450
21	Provision for SEIGNIORAGE CHARGES @ 1.00%	1	1893.56	Percentage	1,894
22	Provision for PS Charges @ 3.00%	1	6432.34	Percentage	6,432
23	Provision for Quality Control Charges @ 0.50%	1	1072.06	Percentage	1,072
24	Provision for NAC Charges @ 0.1%	1	189.36	Percentage	189

25	Provision for GST @ 12.00%	1	22972.65	Percentage	22,973
	Total	-	-		2,21,916

DETAILED ESTIMATE

Work ID : 201920040523 Name of the Work : Drinking Water Supply
 U-DISE Code : 28145200502 School Name : MPPS UPPUDI
 Estimate Amount (in Rs.) : 2,21,916/-

Description of Item	Number	Length	Width	Thickness	Total Quantity	Units	Rate in Rs.	Amount in Rs.
Earth work excavation for foundations and depositing on bank for all lifts and with an initial lead of 10m including all operational, incidental, labour charges such as shoring, sheeting, planking, strutting etc., complete for finished item of work. [Ordinary Soil - Manual means - Upto 3m depth]								
For Cistern Foundation	1	2.55	2.55	2.15	13.98			
For Reservoir	1	3.5	3.5	2.15	26.34			
Hand Wash Platform	2	2.4	1.2	0.3	1.73			
Total					42.05	cum	267.54	11,250
Plain Cement Concrete (1:4:8) using 40mm nominal size SS5 hard broken granite metal including cost and conveyance of all materials like cement, fine aggregate (sand), coarse aggregate, water etc., to site and including all operational, incidental and labour charges such as machine mixing, laying concrete, curing etc., complete for finished item of work								
For Cistern Foundation	1	2.55	2.55	0.15	0.98			
For Reservoir	1	3.5	3.5	0.15	1.84			
Hand Wash Platform	2	2.4	1.2	0.1	0.58			
Total					3.4	cum	3761.47	12,789
VRCC 1:1.5:3 nominal mix (Cement: fine aggregate: coarse aggregate) corresponding to table 9 of IS 456 using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry, using a minimum quantity of 400 Kgs of cement per 1 cum of concrete including cost and conveyance of all materials like cement, fine aggregate (sand), coarse aggregate, water etc., to site and including all operational, incidental and labour charges such as machine mixing, laying concrete, curing, centering, shuttering etc., complete but excluding cost of steel and its fabrication charges for finished item of work.[RCC SLABS 125mm thick]								
Bottom Slab	1	2.4	2.4	0.13	0.72			
Top Slab with manhole	1	2.4	2.4	0.13	0.72			
Total					1.44	cum	7813.62	11,252

VRCC 1:1.5:3 nominal mix (Cement: fine aggregate: coarse aggregate) corresponding to table 9 of IS 456 using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry, using a minimum quantity of 400 Kgs of cement per 1 cum of concrete including cost and conveyance of all materials like cement, fine aggregate (sand), coarse aggregate, water etc., to site and including all operational, incidental and labour charges such as machine mixing, laying concrete, curing, centering, shuttering etc., complete but excluding cost of steel and its fabrication charges for finished item of work.[RCC Side walls]								
Side Walls	1	8.8	0.2	0.15	0.26			
Total					0.26	cum	11828.35	3,075
Providing Impervious coat to exposed RCC roof slab surface with CM(1:3), 20mm thick with 1kg of water proof compound per bag of cement laid over roof when it is green including cost and conveyance of all materials all operational, incidental and labour charges for mixing mortar, laying, rendering smooth and thread lining, curing, rounding off junctions of wall and slab etc., complete for finished item of work.								
Side walls	1	8.4	0	1.3	10.92			
Bottom Slab	1	2.1	2.1	0	4.41			
Total					15.33	sqm	342.61	5,252
Supplying, fitting and placing HYSD bar reinforcement complete as per drawings and technical specifications for bars below 36mm dia. including overlaps and wastage where they are not welded.								
8mm HYSD bars	250	0	0	0	250			
10mm HYSD bars	300	0	0	0	300			
Total					550	Kgs	48.41	26,626
Supplying & fixing Ashirvad/Astral flow guard for equivalent CPVC Pipes with fittings in ground or on wall including cost of tees, elbows, bends, reducers, couplings, running joints, union flanges, unions etc. with necessary excavation in all types of soils except rock requiring blasting, refilling, chiselling masonry walls and making good the walls & floors to the original surface and fixing MS clamps on TW blocks on walls including cost and conveyance of all materials and labour charges complete for finished item of work[15.90 mm dia CPVC SDR 13.50].								
15.90 MM OD Pipe	1	15	0	0	15			
Total					15	rmt	53	795
Supplying & fixing Ashirvad/Astral flow guard for equivalent CPVC Pipes with fittings in ground or on wall including cost of tees, elbows, bends, reducers, couplings, running joints, union flanges, unions etc. with necessary excavation in all types of soils except rock requiring blasting, refilling, chiselling masonry walls and making good the walls & floors to the original surface and fixing MS clamps on TW blocks on walls including cost and conveyance of all materials and labour charges complete for finished item of work[22.20 mm dia CPVC SDR 13.50].								
22.20 MM OD Pipe	1	30	0	0	30			
Total					30	rmt	85	2,550
Supplying & fixing Ashirvad/Astral flow guard for equivalent CPVC Pipes with fittings in ground or on wall including cost of tees, elbows, bends, reducers, couplings, running joints, union flanges, unions etc. with necessary excavation in all types of soils except rock requiring blasting, refilling, chiselling masonry walls and making good the walls & floors to the original surface and fixing MS clamps on TW blocks on walls including cost and conveyance of all materials and labour charges complete for finished item of work[28.60 mm dia CPVC SDR 13.50].								

28.60 MM OD Pipe	1	30	0	0	30			
Total					30	rmt	123	3,690
Supplying & fixing Ashirvad/Astral flow guard for equivalent CPVC Pipes with fittings in ground or on wall including cost of tees, elbows, bends, reducers, couplings, running joints, union flanges, unions etc. with necessary excavation in all types of soils except rock requiring blasting, refilling, chiselling masonry walls and making good the walls & floors to the original surface and fixing MS clamps on TW blocks on walls including cost and conveyance of all materials and labour charges complete for finished item of work[34.90mm ODPipe - SDR 13.5].								
34.90 MM OD Pipe	1	12	0	0	12			
Total					12	rmt	193	2,316
Supply and erecting of 1.00 HP (25 mm x 25 mm) single phase ISI Monoblock CI body motor pump set conforming to IS 9079:2002 approved make centrifugal water pump with impeller, priming funnel cork, companion metallic flanges with bolts and nuts and mounted on a common shaft of high coefficient squirrel cage induction motor totally enclosed and fan cooled tyupe suitable to operate on 230 V single phase 50 HZ , 1440 RPM AC power supply excluding suction/delivery pipe with nuts duly grouted on existing CC foundation and bolts, spring washer of requistie size for monoblock motor and pump								
Erecting of 1 HP mono block mator pump set	1	0	0	0	1			
Total					1	Nos	8175	8,175
Supply and Run of 2 of 10sqm WPTC (Weather Proof Twin Core) ISI Alluminium Wire.								
Electrical connection to mono block motor pump set	60	0	0	0	60			
Total					60	rmt	33.85	2,031
Supply and fixing of 16A Flush type socket with shutter								
16A Switch	1	0	0	0	1			
Total					1	Nos	60	60
VRCC 1:1.5:3 nominal mix (Cement: fine aggregate: coarse aggregate) corresponding to table 9 of IS 456 using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry, using a minimum quantity of 400 Kgs of cement per 1 cum of concrete including cost and conveyance of all materials like cement, fine aggregate (sand), coarse aggregate, water etc., to site and including all operational, incidental and labour charges such as machine mixing, laying concrete, curing, centering, shuttering etc., complete but excluding cost of steel and its fabrication charges for finished item of work.[COLUMNS]								
Columns up to Ground level	4	0.23	0.23	0.9	0.19			
Above ground level	4	0.23	0.23	0.9	0.19			
Total					0.38	cum	8577.35	3,259
VRCC 1:1.5:3 nominal mix (Cement: fine aggregate: coarse aggregate) corresponding to table 9 of IS 456 using 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry, using a minimum quantity of 400 Kgs of cement per 1 cum of concrete including cost and conveyance of all materials like cement, fine aggregate (sand), coarse aggregate, water etc., to site and including all operational, incidental and labour charges such as machine mixing, laying concrete, curing, centering, shuttering etc., complete but excluding cost of steel and its fabrication charges for finished item of work.[RCC SLABS 150mm thick]								

Bottom Slab	1	1.5	1.5	0.15	0.34			
Total					0.34	cum	7369.62	2,506
Cost, supply and delivery of 75 mm diameter 6.00 kgs/cm2 test pressure Unplasticised PVC pipes suitable for potable water supplies conforming to IS 4985/200 (3rd revision) as per specifications including labour charges for laying, fixing and commissioning the PVC pipes including couplers/bends/tees etc., including fixing with necessary fittings like bends, plugsm couplers, juctions, tees etc., with solvent jointing as per standard practise including cost and conveyance of all materials to site for finished item of work at all floor levels.								
75 mm PVC Pipe for waste water pipe line	1	30	0	0	30			
Total					30	rmt	262	7,860
Supplying & Fixing 12.7mm NP stop cock Indian make heavy duty including Labour charges (BMW-E.01& E.02))								
Taps	10	0	0	0	10			
Total					10	Nos	435	4,350
Water purifier (Drinking water solution) detailed circular will be issued later								
Water purifier Aquaguard	3	0	0	0	3			
Total					3	Nos	25000	75,000
Supplying and fixing PPR Ball valve as per ISI Class - I , Indian make heavy type including cost and conveyance of all materials , labour charges etc. complete for finished item of work[20mm PPR Ball valve]								
Water Supply Line	10	0	0	0	10			
Total					10	Nos	207	2,070
Supplying and fixing PPR Ball valve as per ISI Class - I , Indian make heavy type including cost and conveyance of all materials , labour charges etc. complete for finished item of work[40 mm PPR Ball valve]								
Water Supply Line	10	0	0	0	10			
Total					10	Nos	445	4,450
Provision for SEIGNIORAGE CHARGES @ 1.00%								
Total					1	Perce ntage	1893.56	1,894
Provision for PS Charges @ 3.00%								
Total					1	Perce ntage	6432.34	6,432
Provision for Quality Control Charges @ 0.50%								
Total					1	Perce ntage	1072.06	1,072
Provision for NAC Charges @ 0.1%								
Total					1	Perce ntage	189.36	189
Provision for GST @ 12.00%								
Total					1	Perce ntage	22972.65	22,973

Signature of FE/AE/AEE

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Signature of Deputy Executive Engineer

GBV Ramesh