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## ABSTRACT ESTIMATE

Work ID : 201920040627 Name of the Work : Drinking Water Supply  
U-DISE Code : 28145200401 School Name : MPPS BANTUMILLI  
Estimate Amount (in Rs.) : 2,17,572/-

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	3748.78	cum	12,746
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]	1.5	7800.93	cum	11,701

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]	2.29	11815.66	cum	27,058
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	342.40	sqm	5,249
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].	10	193.00	rmt	1,930
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 requisite size for monoblock motor and pump	1	8175.00	Nos	8,175
12	Supply and fixing of 16A Flush type socket with shutter	1	60.00	Nos	60
13	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, 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.	36	262.00	rmt	9,432
14	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

15	Supplying and fixing NP bib taps of size 12.70mm dia of Indian make Seiko including cost and conveyance of all materials, labour charges etc., complete for finished item of work in all floors for 400 Grams	10	351.76	Nos	3,518
16	Water purifier (Drinking water solution) detailed circular will be issued later	2	25000.00	Nos	50,000
17	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
18	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
19	Provision for SEIGNIORAGE CHARGES @ 1.00%	1	1856.49	Percentage	1,856
20	Provision for PS Charges @ 3.00%	1	6306.43	Percentage	6,306
21	Provision for Quality Control Charges @ 0.50%	1	1051.07	Percentage	1,051
22	Provision for NAC Charges @ 0.1%	1	185.65	Percentage	186
23	Provision for GST @ 12.00%	1	22522.97	Percentage	22,523
	Total	-	-		2,17,572

## DETAILED ESTIMATE

Work ID : 201920040627      Name of the Work : Drinking Water Supply  
 U-DISE Code : 28145200401      School Name : MPPS BANTUMILLI  
 Estimate Amount (in Rs.) : 2,17,572/-

Description of Item	Number	Length	Width	Thickness	Total Quantity	Units	Rate in Rs.	Amount in Rs.
<b>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]</b>								
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
<b>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</b>								
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	3748.78	12,746
<b>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]</b>								
Bottom Slab	1	2.4	2.4	0.13	0.75			
Top Slab with manhole	1	2.4	2.4	0.13	0.75			
Total					1.5	cum	7800.93	11,701

<b>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]</b>								
Side Walls	1	8.8	0.2	1.3	2.29			
Total					2.29	cum	11815.66	27,058
<b>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.</b>								
Side walls	1	8.4	0	1.3	10.92			
Bottom Slab	1	2.1	2.1	0	4.41			
Total					15.33	sqm	342.4	5,249
<b>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.</b>								
8mm HYSD bars	250	0	0	0	250			
10mm HYSD bars	300	0	0	0	300			
Total					550	Kgs	48.41	26,626
<b>Supplying &amp; 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 &amp; 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].</b>								
15.90 MM OD Pipe	1	15	0	0	15			
Total					15	rmt	53	795
<b>Supplying &amp; 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 &amp; 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].</b>								
22.20 MM OD Pipe	1	30	0	0	30			
Total					30	rmt	85	2,550
<b>Supplying &amp; 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 &amp; 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].</b>								

28.60 MM OD Pipe	1	30	0	0	30			
Total					30	rmt	123	3,690
<b>Supplying &amp; 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 &amp; 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].</b>								
34.90 MM OD Pipe	1	10	0	0	10			
Total					10	rmt	193	1,930
<b>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</b>								
Erecting of 1 HP mono block mator pump set	1	0	0	0	1			
Total					1	Nos	8175	8,175
<b>Supply and fixing of 16A Flush type socket with shutter</b>								
16A Switch	1	0	0	0	1			
Total					1	Nos	60	60
<b>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.</b>								
75 mm PVC Pipe for waste water pipe line	1	36	0	0	36			
Total					36	rmt	262	9,432
<b>Supplying &amp; Fixing 12.7mm NP stop cock Indian make heavy duty including Labour charges (BMW-E.01&amp; E.02))</b>								
Taps	10	0	0	0	10			
Total					10	Nos	435	4,350
<b>Supplying and fixing NP bib taps of size 12.70mm dia of Indian make Seiko including cost and conveyance of all materials, labour charges etc., complete for finished item of work in all floors for 400 Grams</b>								
NP bib taps of size 12.70mm for 400 Grams	10	0	0	0	10			
Total					10	Nos	351.76	3,518
<b>Water purifier (Drinking water solution) detailed circular will be issued later</b>								
Water purifier Aquaguard	2	0	0	0	2			
Total					2	Nos	25000	50,000

<b>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]</b>								
Water Supply Line	10	0	0	0	10			
Total					10	Nos	207	2,070
<b>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]</b>								
Water Supply Line	10	0	0	0	10			
Total					10	Nos	445	4,450
<b>Provision for SEIGNIORAGE CHARGES @ 1.00%</b>								
Total					1	Percentage	1856.49	1,856
<b>Provision for PS Charges @ 3.00%</b>								
Total					1	Percentage	6306.43	6,306
<b>Provision for Quality Control Charges @ 0.50%</b>								
Total					1	Percentage	1051.07	1,051
<b>Provision for NAC Charges @ 0.1%</b>								
Total					1	Percentage	185.65	186
<b>Provision for GST @ 12.00%</b>								
Total					1	Percentage	22522.97	22,523

**Signature of FE/AE/AEE**

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**Signature of Deputy Executive Engineer**

**GBV Ramesh**