

Gravity Based Drinking Water Supply Scheme at Village Mehraban Kalay Tribe Tirah

S/No.	Activities	Unit	Quantity	Brand offered	Unit Price	Total Amount
A.	Surface Water Tank					
1	Excavation in Foundation					
	Excavation in foundation of building, septic tank, water tank, drainage line, irrigation channel and water pipe line of different dia in all kind of soil including soft soil, hard rock, shingle/gravel etc. as per the provided approved drawings or engineer in charge instructions.	Cft	2,009.38			
2	PCC in Spring development from Locally Available gravel					
	Providing and laying Plain cement concrete including shuttering, mixing, placing, compacting, finishing and curing in 1:4 must be clear from mud/dust & impurities) complete in all respect.	Cft	672.00			
3	P.C.C(1:4:8) as in Foundation	-	-			
	Providing and laying Plain cement concrete including shuttering (using water tight formwork of best quality), mixing (using mixer machine), placing, compacting, finishing and curing up to two weeks (nominal mix ratio 1:4:8) (the crush must be well graded, free from mud/dust and the sand must be coarser & clear from mud/dust & impurities) as in foundation complete in all respect & as per the approved drawings. Required crushing strength of concrete must not be less than 1800 psi when tested.	Cft	76.56			
4	RCC 1:2:4 as in Foundation	-	-			
	Providing and laying/pouring reinforced cement concrete (RCC) 1:2:4 ratio including shuttering (using water tight formwork of best quality), curing up to 28 days, compacting, mixing (using mixer machine) finishing as in foundation, plinth beam, base slab etc. as per the provided approved drawings or engineer in charge instructions. Required crushing strength of concrete must be not less than 3000 psi.	Cft	229.69			
5	RCC 1:2:4 as in Super Structure	-	-			
	Providing and laying/pouring reinforced cement concrete (RCC) 1:2:4 ratio including shuttering (using water tight formwork of best quality), curing up to 28 days, compacting, mixing (using mixer machine) finishing as in columns, slabs, braced beams, stairs etc.as per the provided approved drawings or engineer in charge instructions. Required crushing strength of concrete must be not less than 3000 psi.	Cft	502.25			
6	Supplying/Fixing Grade-60 Steel	-	-			
	Supply & fabricate M.S. reinforcement for cement concrete (Hot rolled deformed bars Grade-60) including cutting, bending, binding, transporting & fixing on specified location as per the approved drawings or engineer in charge instructions.	Kg	2,678.00			
7	Mosaic Work Over Plaster surface on internal surface of Water Tank	-	-			
	Mosaic work including rough cement plaster surface as a base in 1:4 CSM 1/2" upto 60' height as in water tank, parapet wall etc. complete with good finishing, gola and smooth edges.	Sft	553.50			
8	Supplying & fixing of M.S main hole cover 2'x2' or 0.37sqm (2'x2'x 0.25") with lock arrangement)	-	-			
	Supplying & fixing of M.S main hole cover 2'x2' or 0.37sqm (2'x2'x 0.25") with lock arrangement) complete with all necessary fittings etc.	No	6.00			
9	Supply & Installation of G.I pipe best quality as per specified dia	-	-			
	Supplying & installation of G.I pipe Best quality for Wash out, over flow, out let, vent pipe etc. as per specified dia with hoisting & foot duck complete with fixing clamps, flanges, sockets, elbow, welding, cutting, treading, painting where required as per the approved drawings or engineer in charge instructions.	-	-			
a	2" i/d	Rft	30.00			
b	1.5" i/d	Rft	20.00			
10	Earth Fill around Water Tank	-	-			
	Refilling with excavated/out side material up to 2 km lead in layers each not exceeding than 6" including its compaction up to 85% FDT using mechanical machineries i.e. compactor, mini roller etc.	Cft	100.00			
11	Grill at the Top slabs of water tank	-	-			
	Supplying & fixing of MS angle iron grill of 1"x1"x1/16" square or round iron bars in vertical supports and at a distance of 9"c/c, the top rail should be 1.5"x1.5"x1/8" complete with welding and other necessary fittings, as per drawings. The bottom of the support pipes should be welded with extended bars of base slab of water tank or with plate of 4"x4"x1/8". Also Stair should be required of 2"x2"x1/16" Square pipe.	Sft	76.00			
12	Brick Work	-	-			
	First class burnt brick masonry in 1:4 cement sand mortar , comprising 9" or 4.5" including curing up to 7 days, masonry work must be good finished with clean filled vertical and horizontal joints, Size of brick must be 4.5" x 9" x 3" complete in all respects as in core walls of water tank. Required crushing strength must be not less than 1800 psi.	Cft	326.63			
13	Water Stopper (10" Wide)	-	-			
	Supplying and fixing of water stopper of 10" wide complete of best quality.	Rft	66.00			
14	P.C Pointing in (1:3) CSM	-	-			

	Point of cement mortar 1:3 over outer surface of water tank of V-type complete in all respect, curing up to 14 days, proper finishing and edges of masonry should be made of plaster in border shape.	SFT	925.50			
15	2" Thick PCC 1:2:4 as in DPC/Coping	-	-			
	P/L Damp proof course (nominal mix ratio 1:2:4) ,including shuttering, placing, compacting, curing complete in all respect.	Sft	284.00			
16	Plum Concrete 40% boulder	-	-			
	PCC 1:3:6 in mass concrete, formwork using 40% boulders as per approved drawing and instructions of engineer in charge.	Cft	559.38			
17	Chiseling	-	-			
	Demolishing of existing concrete/Road manually or by mechanical means including disposal of unserviceable material within 200 meters lead as per the direction of Engineer-in-charge.	Cft	80.00			
18	Stone Masonry (Coursed rubble masonry)	-	-			
	Stone Masonry in water tank and other structures in cement sand mortar 1:4 using 6" to 18" size boulder stone hammer dressed, covering the gaps with mortar complete as per the specifications. The loss angles/abrasion test should be carried out for boulders using in construction.	Cft	504.00			
19	Sign Board Fixing	-	-			
	Providing and installation of Sign Board size of 4'X3' internal size using 18gauge steel sheet , 16 gauge pipe 1.5" dia as in frame of size 4.5' x 3.5' & 4'high, foots with cross angel iron double strips of 1 feet length, writing of given data double side with IR logo & Donor Logo) and minimum 6x numbers of wall chalking of given data with IR logo & Donorcomplete 5' X 8' size on the near by walls or as directed by Engineer.	No	1.00			
B.	Water Supply Pipes Networking					
20	Excavation for Pipe Lines		-			
	Excavation in trench of water pipe line of different dia in all kind of soil including soft soil, hard rock, shingle/gravel etc., as per the approved drawings or engineer in charge instructions.	Cft	9,281.25			
21	Supply and Installation of HDPE Pipes		-			
	Providing and Laying HDPE pipe PN-12.5 PE-100, Din-8074/Din-8075/ISO-4427 including testing, disinfect, cutting, treading, shifting & installing to specified locations complete as per approved drawings or engineer in charge instructions.		-			
a	63 mm dia	Rft	7,000.00			
b	50 mm dia	Rft	7,500.00			
c	32 mm dia	Rft	2,000.00			
d	25mm dia	Rft	1,000.00			
22	HDPE Fittings (Connection clamps for Distribution Lines)		-			
	Providing and fixing of HDPE fittings clamp of best quality for distribution line from main line. The sizes of clamp should be as per the mentioned pipe dia's (including testing etc. complete in all aspects).		-			
a	63 mm dia	No's	2.00			
b	50 mm dia	No's	50.00			
c	32 mm dia	No's	10.00			
d	25mm dia	No's	5.00			
23	G.I Ball Valve		-			
	Providing and fixing of HDPE fittings clamp of best quality for distribution line from main line. The sizes of clamp should be as per the mentioned pipe dia's (including testing etc. complete in all aspects).		-			
a	3"	No's	-			
b	2-1/2"	No's	-			
c	2"	No's	1.00			
d	1-1/2"	No's	3.00			
e	1"	No's	2.00			
24	HDPE Pipes connectors(Coupler)		-			
	Supplying and Fixing of HDPE pipes connectors of best quality (including testing etc. complete)		-			
a	63 mm dia	No's	15.00			
b	50 mm dia	No's	16.00			
c	32 mm dia	No's	5.00			
d	25mm dia	No's	3.00			
e	20mm dia	No's	3.00			
25	G.I Socket/Flanges with Rubber washer and nut bolts		-			
	Supplying and Fixing of HDPE pipes connectors of best quality (including testing etc. complete)		-			
a	3"	No's	2.00			
b	2.5"	No's	2.00			
c	2"	No's	2.00			
d	1.5"	No's	4.00			
e	1"	No's	2.00			
26	Plaster Work		-			

	Cement plaster in 1:3 CSM 1/2" upto 20' height as in pump house including boundary wall, verandah, parapet wall and rooms.	Sft	1,152.00			
27	Weather Shield as In External Surface		-			
	Providing and laying Three (3) coats of weather shield as in external surface of pump house, Boundary wall and Overhead water tank including, preparation of surface and arrangement of shuttering complete.	Sft	384.00			
28	S/F of Precast Slab		-			
	Supplying and fixing of precast slabs Size (5'x1.5') with 5' girder as per need, including 3" PCC in 1:2:4 on top	No	9.00			
29	Installation of PVC Strainer Pipe		-			
	Providing and installing PVC strainer, in source chamber. BSS Class 'D' working pressure as specified. Complete with sockets and other accessories.		-			
a	4" (100 mm) i/d (internal dia) 5ft long	No	3.00			
b	6" (150 mm) i/d 5ft long	No	3.00			
30	Steel Rope for Pump/Other structures					
	Supplying and fixing of twisted Steel Rope 3/4" dia complete with U-clips, bolts and other associated items as per the instructions of engineer in charge.	Rft	200.00			
31	Installation of Stand Post					
	Supply and installation of 1/2" Valve near road for passengers with 3' long 1/2" dia G.I pipe with all installation accessories, construction of 2'x2'x2' concrete foundation from 1:2:4 concrete complete.	Job	2.00			
Grand Total Including All Govt. Taxes, Transportation, Delivery and Installation						