

Name of work :- Providing water supply in village Patla (Urban Area), Sonapat. "Construction of One no. pump chamber and boundary wall as per approved drawing in village Patla (Urban Area), Sonapat and all other works contingent thereto".

A/C Rs. 18.37 Lacs

CONTRACT SCHEDULE OF RATES

Sr. No.	H.S.R. Item	Description	Qty	Unit	Rate
A Pump Chamber					
1	6.6	Earth work in excavation in foundations, trenches etc in all kinds of soils, not exceeding 2 meters depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 mm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 meters.	40	Cum	1108.00
2	6.13(a)	Earth filling under floors with surplus soil excavated from foundation and taken only from outside the building plinth in 15 cm layers including ramming watering and consolidating lead upto 30 metres.	5	Cum	343.40
3	10.26	C.C. 1:8:16 with brick ballast 40mm nominal size in foundation and plinth.	8	Per Cum	300.20
4	10.82 + 10.95	Cement conc 1:1 ^{1/2} :3 with stone aggregate 20 mm nominal size for reinforced concrete works in slabs with inclination not exceeding 25 degree with horizontal, excluding steel reinforcement, but including centring and shuttering, laid in position, complete in all respects. 10% extra in payable on labour cum only for inclinations more than 25 degree with RCC slab and nothing extra shall be paid for slab of lesser inclinations.	4	Per Cum	1084.80
5	10.86 + 10.95	Cement concrete 1:1 ^{1/2} :3 with stone aggregate 20 mm nominal size for reinforced concrete works for walls exceeding 20 cm thickness (straight and curved) beam, girders stairs columns, (square and rectangular) battens and lintels etc. excluding steel reinforcement but including centering and shuttering, laid in position, complete in all respects. Extra over item no.10.79 – 10.94, if 1 : 1½ : 3 mix is used instead of 1 : 2 : 4.	3	Per Cum	1188.75

6	10.114	Damp proof course 40 mm thick of cement concrete 1:2:4 using stone aggregate 20 mm nominal size with 2 coats of bitumen 20/30 penetration, at 1.65 kg per Sqm laid hot and sanded.	15	Sqm	Per Sqm	35.05
7	11.22	First class brick work laid in cement, stone dust (from crusher) mortar 1:6 in foundation and plinth	20	Cum	Per Cum	413.55
8	N.S. Item	First class machanised brick work laid in cement, stone dust (from crusher) mortar 1:5 in first storey upto 4 metres above plinth level.	26	Cum	Per Cum	5093.00
9	13.13	Terracing consisting of tiles 22.86cm X 11.43cm X 3.81 cm laid over 87.50 mm and mud filling on a layer of 25 mm mud plaster and an other layer of mud mortar for laying the tiles including two coats of bitumen hot at 1.65kg per Sqm on top of R.C.C slab including grouting with cement sand mortar 1:3 and top surface left clean etc.	18	Sqm	Per Sqm	53.95
10	13.47	Providing and fixing cast iron head for rain water pipe on wooden plugs fixed on wall face including filling the joints with spun yarn and cement mortar 1 : 2.	4	nos	Each	36.55
11	13.49	Providing and fixing C.I. plain bends in position with gutter, etc.	1	nos	Each	57.45
12	13.50	Top khurra 0.6m X 0.6m for rain water pipe in 25mmthick cement conc. 1:2:4 over 50mm thick cement conc. 1:8:16.	1	nos	Each	12.30
13	13.57	Bottom khurra on ground 1.2m X 0.6m consisting of brick on edge laid in cement mortar 1:3 over 75mm cement conc. 1:8:16 including 12mm thick cement plaster 1:3.	1	nos	Each	64.30
14	13.64	Cement conc. 1:2:4 gola 10cm X 10cm quadrant along junction of roof with parapet wall finished smooth where specially specified.	15	mtr	Per Mtr	5.35
15	14.1	Base course of floors consisting of 100mm thick cement conc. 1:8:16 and 100mm sand or stone filling.	20	Sqm	Per Sqm	36.95
16	14.9	Conglomerate floor 40mm thick cement concrete topping 1:2:4.	20	Sqm	Per Sqm	31.50

17	14.18	18mm thick grey polished skirting or dado consisting of bottom layer of 15mm thick cement sand plaster 1 : 3 and finished with 3mm thick topping of neat cement rubbed and polished including rounding off junction with floors.	3	Sqm	Per Sqm	46.30
18	14.66	Kotah stone 20 mm thick in skirting risers of steps, dados and wall facing (lining) and pillars laid on 12 mm thick cement coarse sand plaster 1:3 laid and jointed with neat cement slurry, mixed with pigment to match the shade of stone including rubbing and polishing including labour for fixing cramps, dowels and pins etc.	38	Sqm	Per Sqm	237.00
19	14.79	Providing and fixing glass strips, 4mm thick in floors.				
	(a)	40mm wide	20	Mtr	Per Mtr	3.50
20	15.3	12mm thick cement plaster 1:2.	13	Sqm	Per Sqm	16.60
21	15.6	12mm thick cement plaster 1:5.	50	Sqm	Per Sqm	11.60
22	15.12	15mm thick cement plaster 1:6 on the rough side of single or half brick wall.	13	Sqm	Per Sqm	13.10
23	15.52	10mm thick cement plaster 1:4.	20	Sqm	Per Sqm	12.65
24	15.60	Cement pointing 1:2 deep variety on brick and tile work.	120	Sqm	Per Sqm	9.90
25	16.2	Applying pink primer or aluminium priming coat on wood work including preparation of surface knotting and stopping etc.	20	Sqm	Per Sqm	3.75
26	16.3	Painting two coat excluding primary coat with synthetic enamel paint in all shade on new wood work or metallic or plastered or conc surface to give an even shade.	20	Sqm	Per Sqm	8.05
27	16.48	White washing Three coats.	100	Sqm	Per Sqm	1.25
28	16.61	Finishing walls with exterior decorative cement based paints such as snowcem Robbiacem etc. on new work two coats to give an even shades.	120	Sqm	Per Sqm	7.25
29	17.30	Commercial hard wood such as hillock, champ, chikrasy and chaplash etc. (non-coniferous timber other than teak conforming to I.S. specification no.1003 kiln seasoned), shutters with vertical styles and rails, as specified is the statement no.1 (attached in the end of this chapter), with two nos plywood panels of the specified thickness, mentioned below, tongued and grooved including the cost of iron hinges, screws, chocks / cleats, stops, etc complete fixed in position excluding the cost of tower bolts and handles but including the labour for fixing the same.	8	Sqm	Per Sqm	295.05

30	18.1	Steel work, fixed independently without connecting plates, including cutting, hoisting and fixing in position in :-				
	(a)	R. S. Joists	2	Qtl	Per Qtl	1011.45
	(b)	Flats	1	Qtl	Per Qtl	955.75
	(c)	Tees, angles and channels	1	Qtl	Per Qtl	964.10
31	18.12	Wrought iron and mild steel (using angles flats square bars tees and channels) ladders, grills, grating framing window guards iron doors openable door fixed staircase or barapet any other type or railing gates and tree guares etc. including cost of screws and welding rods and bolts and nuts complete fixed in position.	2	Qtl	Per Qtl	1040.35
32	18.22	T.M.T. F.E.-415 steel bar of TISCO, SAIL, RINL or IISCO bars of RCC works where not including in the complete rate of RCC including bending binding, and placing in position complete.	7	Qtl	Per Qtl	917.05
33	18.24	Supplying open able steel doors and windows, of standard steel sections, joints mitred and electrically flashed welded including provision for arrangement of receiving handles, peg stay, catcher will also be welded with the frame and providing and fixing pressed steel projected hinges iron lugs glazing clips (excluding wooden shutters glazing and fittings such as handles, peg stay and catcher etc.) and finished with one coat of ready mixed red lead non setting primer.	50	K.G.	Per K.G.	14.30
34	18.34	Pressed steel sheet frames (chowkhats) consisting of 2 mm thick steelsheet of the specified section including iron lugs (hold fasts) iron hings conforming to PWD specification including bolts for fixing stops locknotch, provision for receiving tower bolts and finished with one coat of ready mixed paint red lead non setting primer apporoved quality including the cost of cement concrete 1:3:6 for lugs complete.				
	(a)	Door and window frame of size 89mm X 50mm with 40mm with single rebate.	10	Mtr	Per Mtr	71.55
35	18.38	Providing and fixing fan hooks 80 cm long of required shape.				
	(b)	12mm dia.	1	Nos	Each	7.30

36	31.36	Writing in 1:5 Sqm mm PVC insulated copper conductor cable in 1.6 mm thick conduit pipe.				
	(i)	Fan point				
	(b)	Medium point	1	Nos	Each	524.00
	(ii)	Light point				
	(a)	Short point	1	Nos	Each	251.00
	(b)	Medium point	1	Nos	Each	433.00
	(c)	Long point	1	Nos	Each	639.00
37	31.12	Supply and erection of metal clad switches/B.D.B.S. with rag bolts on wall or on existing angle iron board/pedestal including bonding to earth and necessary connections :-				
	(b)	Branch distribution boards (Category 'B').				
	(vii)	B.D.B. double pole 32 amp 240 volts per way 6 way each.	1	Nos	Each	204.00
38	N.S. Item	Earth work (tibba sand) in embankment including excavation in all kinds of soil, rock carriage including loading, unloading and laying of earth as per specification for complete after breaking of clods including cost of rolling, watering. The complete rate to be quoted by the contractor shall be taken into all allowance for labour and wetness and total lead and lift compensation of earth taken from private land owner transportation to the site of the work to the entire satisfaction of the Engineer-in-Charge conforming to P.W.D. specification.	20	Cum	Per Cum	150.00

B Boundry Wall

39	6.6	Earth work in excavation in foundations, trenches, etc. in all kinds of soils, not exceeding 2 metres depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 metres	####	#REF!	100 Per Cum	1108.10
40	10.28	Cement concrete 1:8:16 with stone aggregate 40 mm Nominal size in foundation and plinth	####	#REF!	Per Cum	318.65

41	10.114	Damp proof course 40 mm thick of cement concrete 1:2:4 using stone aggregate 20 mm Nominal size with two coats of bitumen 20/30 penetration at 1.65 Kg. per sqm laid hot and sanded	#### #REF!	Per Sqm	35.05
42	11.22	First class brick work laid in cement, stone dust (from crusher) mortar 1:6 in foundation and plinth.	#### #REF!	Per Cum	413.55
43	11.28	First class brick work laid in cement, stone dust (from crusher) mortar 1:5 in first storey upto 4 metres above plinth level.	#### #REF!	Per Cum	448.70
44	15.6	12 mm cement plaster 1:5 on walls	#### #REF!	Per Sqm	11.60
45	15.60	Cement pointing 1:2 deep variety on brick and tile work	#### #REF!	Per Sqm	9.90
46	10.82	Cement concrete 1:2:4 with stone aggregate 20mm nominal size for reinforced concrete work in slabs with inclination not exceeding 25 degree with horizontal ,excluding steel reinforcement, but including centring and shuttering ,laid in position , complete in all respects	#### #REF!	Per Cum	997.90
47	18.22	FE-500 EQR TMT steel bars for RCC, works, where not included in the complete rate of RCC including bending, binding and placing in position complete	#### #REF!	Per Qtl	917.05
48	16.61	Finishing walls with exterior decorative cement based paints such as snowcem, Robbiacem etc. on new work, two coats to give an even shade	#### #REF!	Per Sqm	7.25
49	18.12	Wrought iron and mild steel (using angle flats, square bars, tee and channels) ladders, grills, grating, frames, window guards, iron doors openable or fixed staircase or parapet or any other type of railing, gates and tree guard etc., including cost of screws and welding rods or bolts and nuts complete fixed in position.	2	qtl Per qtl	1040.35

Executive Engineer
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