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MUNICIPAL CORPORATION OF BHILAI
NIT

कार्य का नाम :- वार्ड क्रमांक 54 सेक्टर 01, नेहरू भवन के पास पेयजल हेतु
सार्वजनिक वाटर एटीएम लगाने हेतु।


(As Per PWD Building SOR 01.01.2015, Electrical SOR 1.06.20 & NON SOR ITEM)

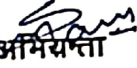
S.N.	PARTICULERS OF ITEMS	Quantity	UOM
1	Supply and fixing of precoated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	9.00	Sqm
2	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	0.90	Cum
3	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick-Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. Size 300x300mm	9.00	Sqm
4	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.	350.00	Kg
5	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	1000.00	Litre
6	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete: 25 mm dia. nominal bore	150.00	Mtr.
7	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level. All types of soil 150 mm dia.	20.00	meter
8	Rocky strata including Boulders. 150 mm dia.	40.00	meter



S.N.	PARTICULARS OF ITEMS	Quantity	UOM
9	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge beyond 90 metre & upto 150 metre depth below ground level. Rocky strata including Boulders. 150 mm dia.	30.00	meter
10	Supplying, assembling, lowering and fixing in vertical position in bore well, ISI marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per IS: 1239 (Part-1&Part-2) 1992 with IVth revision (Up-to-date amendments), of reputed & approved make, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer- in-charge. 150 mm nominal dia.	30.00	meter
11	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of: 150 mm dia	1.00	each
12	Supplying, installation, testing and commissioning of submersible pump set for water supply system with submersible motor directly coupled to multi-stage submersible pump of specified discharge capacity, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as per specification and IS: 694 (2010). Note: submersible Cable should be rust proof, safe from oil / Grease and under water Chemical / abrasion Resistant. 1.5 HP, single phase	1.00	each
13	Supply, installation, testing and commissioning of 1-3 HP 1 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection interconnection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 1/2/3 HP 1 phase DOL starter with over load and no volt relay 1 No c) 25 A "C" curve DPMCB 1 No d) Voltmeter 0-250 V 1 set	1.00	Each
14	Supplying, laying and fixing following size submersible cable along with GI/PVC/HDFC pipe line or laid in ground etc as per specification and IS: 694 (2010). Note: Cable should be rust proof, safe from oil / Grease and under water Chemical / abrasion Resistant. 3x2.5 sqmm	102.00	M
15	Providing ISI Mark 32 mm dia Black H.D.P.E Roll Pipe with Bottom and Top Socket Assembly Fiting all Complete	102.00	M
16	02 phase energy meter connection with 3x10 sqmm Service Cable Inculding all installation Charge	1.00	Nos
17	Providing and fixing Water Treatment plant based on Reverse Osmosis Technology Design to produce product water at the flow rate of 250,500,1000. The Proposed water treatment based on RO Technology can even Work continuously for 10-15½ Hrs. per day. TREATMENT SCHEME : A. RAW WATER PUMP B. MEDIA FILTER UNIT C. SPECIAL ANTI-SCALENT DOSING SYSTEM D. MICRON CARTRIDGER FILTER E. HIGH PRESSURE PUMP (NON BOR ITEM)	1	No.

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
	F. R.O. MODULES G. MEMNRANE CLEANING SYSTEM H. SV WITH FLUSHING SYSTEM. I. PROFILE SHEET STRUCTURE FOR RO SYSTEM (SIZE 2.00 x 2.00 Mtr.) J. Maintenance for 1 Year. CLIENT TO PROVIDE : a. Control Supply : 250 Volts (1 Phase, 50 Hz for all Instructios.) b. Power supply : 440±10 Volts, Three phase 50Hz for high-pressure pump. c. Labour : As and when required.		


 सहायक अभियन्ता
 नगर पालिक निगम, मिलाई


 उप अभियन्ता
 नगर पालिक निगम, मिलाई