

Office Of Municipal corporation Bhilai-Charoda Dist-Durg(C.G.)

Estimate

Name of Work- Digging of borewell and instalation of hand pump /Submersible pump at varous wards of Zone-02 ofMunicipal area
sor- PWD sor Building w.e.f.-1/1/2015 and Electrical Sor 2015

Sn	Item no.	Descreption of item	N	L	B	H	Q	Unit	Rate	Amount
	21.17	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well within the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable)	10				10	POINT	1502	15020
	21.1	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tube well, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	10	7			70	hour	654	45780
	21.11	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:								
	21.11.2	125 mm dia	5				5	EACH	200	1000
	21.11.3	150 mm dia	5				5	EACH	217	1085
1	21.1	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.								
	21.1.1	All types of soil	5	30			150	metre	321	48150
	21.1.1.3	150 mm dia.	5	30			150	metre	339	50850
	21.1.1.2	125 mm dia.								
2	21.1.2	Rocky strata including Boulders.								
	21.1.2.2	125 mm dia.	5	60			300	metre	349	104700
	21.1.2.3	150 mm dia.	5	60			300	metre	396	118800

3	21.2	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.							
	21.2.2	Rocky strata including Boulders.							
	21.2.2.2	125 mm dia.	5	20		100	metre	371	37100
	21.2.2.3	150 mm dia.	5	50		250	metre	424	106000
4	21.5	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.							0
	21.5.2	125 mm nominal dia	5	35		175	metre	1131	197925
	21.5.3	150 mm nominal dia	5	35		175	metre	1304	228200
	26.4	Supplying and fixing of following sizes 'B' class G I pipe with welded steel flange of suitable size at both the end of every pipe length, fixing with submersible pump and lowering with the pump in the bore well including necessary rubber gasket, nuts & bolts etc. as required.							
	26.4.5	40 mm dia.							
			5	50		250	Metre	296.00	74000
	26.7	Supplying and fixing of following sizes GM gate valve ISI mark in the suction/ delivery line etc. as required.							
	26.7.5	40 mm dia.	5	2		10	Each	659.00	6590
	26.3	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 required.							
	26.3.4	3.0 HP, three phase	5			5	Each	22669.00	113345
	26.11	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 inter-connection 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 e) Ammeter 0-10 A 1 set	5						
						5	Each	4125.00	20625

26.14	Supplying, laying and fixing following size submersible cable along with GI/PVC/HDFC pipe line or laid in ground etc as required								
26.14.4	3x6.0 sqmm	5	70			350	Metre	146.00	51100
21.15	Providing and placing in position India Mark II hand pump with 32 mm diameter riser pipe assembly complete with all accessories (riser pipe and plunger rod to be paid separately).	5				5	each	6114.00	30570
21.16	Providing ISI Mark 32 mm dia G.I. (B class) riser pipe and M.S. plunger rod in 3 meter length socketed on one end as per IS: 1239 (Part I) 1990 with up to date amendments and socket as per IS: 2062/1990 up to date amendments.	5	30			150	metre	275.00	41250
31.4	Construction of cement concrete platform as per design around the hand pump in 1:2:4 cement concrete including excavation, centering, shuttering, cost of all the materials and labours and curing etc. complete.					5	Each	4190	20950
								Total	1313040

SAY 13.13LAKH

Sub Engineer

Assistant Engineer

T.S.No. 556 Date 05/05/22

Technical Sanction for Work विधिनिधि

से ओन 2 (वर्षिक 30 से 40) में नलकपरकन 'स्वल्प' स्थापना/पावरपंप स्थापना कार्य

Accorded for Rs. 13.13 लाख

In Words Rs. तेरह लाख तेरह हजार

कपये भन्न

[Signature]
Executive Engineer
Municipal Corporation
Bhilai-Charoda