MUNICIPAL CORPORATION OF BHILAI



वार्ड क्र. 48 जोन 03 के विभिन्न स्थानों में पाईप लाईन विस्तारीकरण कार्य।

(As Per PWD Building SOR 01.01.2015 & Electrical SOR 01.06.2020)

| SN | PARTICULERS OF ITEMS | QTY. | UNIT |
|----|--|--------|-------|
| 1 | Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of fube 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 navable) | 3 | Point |
| 2 | Bornagdrilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in 18: 2800 (part 1), 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 nominal dia | 75.00 | Metre |
| | Rocky strata including Boulders 150 mm nominal dia | 195.00 | Metre |
| 3 | 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 chard/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 metric depth below ground level. | 45.00 | Metre |
| 4 | 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 and fitted with socket as per IS: 1239 (Part-I&Part-2) 1992 with IVth revision (Up-10-data mandments), 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 | 78.00 | Metre |
| 5 | 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, ranning the compressor for hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engin-charge. | 12.00 | Hrs |
| 6 | 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: 130 mm nominal dia | 3 | Each |
| 7 | Electrical SOR 01.06.2020 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 30 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as per specification and 1S: 694 (2010). 50 HP, three phase | 3 | Each |
| 8 | Supply, installation, testing and commissioning of 5-7.5 HP 3 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 per specification. a) Phase indicating lamps with fluses and toggle switches 1 set b) 57.5 HP 3 phase DOL starter with over load and no volt relay 1 No c) 32.4 TC* curve TPMCB 1 No d) Voltmeter 0-500 V with selector switch 1 set e) Ammeter 0-10 A with CT's and selector switch 1 set. | 3 | Each |
| 9 | Providing following size ISI marked FR PVC insulated, PVC sheathed, 3 core submersible copper conductor wired and 15: 694 (2010) | 210.00 | Metre |
| 10 | Supplying and fixing of following sizes 'B' class G I pipe with all necessary Tee's, bends, sockets in the suction/ delivery line including cutting and threading etc. as per specification. | 90.00 | Metre |

| b 40 mm dia. nominal bore 135.00 Metro c 25 mm dia. nominal bore 120.00 Metro d 20 mm dia. nominal bore 60.00 Metro | SN | PARTICULERS OF ITEMS | QTY. | *************************************** |
|--|----|---|---------|---|
| b 40 mm dia. nominal bore | 11 | 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 60.00 Metro 60.00 Metro 15 mm dia. nominal bore 60.00 Metro 15 mm dia. nominal bore 60.00 Metro 15 mm dia. nominal bore 60.00 Metro 16 mm dia. nominal bore 60.00 Metro 12 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): a 50 mm dia. nominal bore 2 20 Each 10 mm dia. nominal bore 15 Each 10 Each 10 Each 10 mm dia. nominal bore 15 mm dia. nominal bore 16 mm dia. nominal bore 16 mm dia. nominal bore 17 mm dia. nominal bore 17 mm dia. nominal bore 18 mm dia. nominal bore 19 mm dia. nominal bore 10 Each 10 Each 10 mm dia. nominal bore 10 Each 10 Each 10 mm dia. nominal bore 10 Each 10 mm dia. nominal bore 10 Each 10 mm dia. nominal bore 10 Each 10 Each 10 mm dia. nominal bore 10 Each 10 Each 10 mm dia. nominal bore 10 Each 10 Each 10 mm dia. nominal bore 10 Each 10 Each 10 mm dia. nominal bore 10 Each 10 Each 10 mm dia. nominal bore 10 Each 10 Each 10 mm dia. nominal bore 10 Each 1 | a | 50 mm dia. nominal bore | 255.00 | Metre |
| d 20 mm dia. nominal bore 60.00 Metre 15 mm dia. nominal bore 60.00 Metre 15 mm dia. nominal bore 60.00 Metre 61 mm dia. nominal bore 60.00 Metre 61 mm dia. nominal bore 70 mm dia. nominal bore 71 mm dia. nominal bore 72 mm dia. nominal bore 73 mm dia. nominal bore 74 mm dia. nominal bore 75 mm dia. nominal bore 85 mm dia. nominal size 75 m | b | 40 mm dia. nominal bore | 135.00 | Metre |
| 15 mm dia. nominal bore 20 Each 40 mm dia. nominal bore 30 mm dia. nominal bore 40 mm dia. nominal bore 51 Each 52 mm dia. nominal bore 52 mm dia. nominal bore 53 mm dia. nominal bore 64 do mm dia. nominal bore 75 mm dia. nominal bore 76 providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete: 78 mm dia. nominal bore 79 moviding and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete: 80 mm dia. nominal bore 81 do mm dia. nominal bore 82 mm dia. nominal bore 83 mm dia. nominal bore 84 providing and fixing 15 mm nominal bore loss and dia. Nominal bore loss and lo | e | 25 mm dia. nominal bore | 120.00 | Metre |
| 20 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): a 50 mm dia. nominal bore 10 mm dia. nominal bore 11 Each 12 Smm dia. nominal bore 13 Providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete: a 50 mm dia. nominal bore 10 Each 11 DEACH 12 Smm dia. nominal bore 10 Each 10 Each 11 Providing and ixing 15 mm nominal bore 10 Each 11 Providing and jain the screws etc. complete: 12 Smm dia. nominal bore 13 Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked with cover and suitable locking arrangement and marked greessary holes for intet, outlet and overflow pipes but without fittings and the base support for tank. Excavation for all types and sizes of floundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m tal teast 5m away from the excavated area), including disposal of excavated stuff upto 1.5 m lift and lead upto 50m tal teast 5m away from the excavated area, including disposal of excavated stuff upto 1.5 m lift and lead upto 50m tal teast 5m away from the excavated area, including disposal of excavated stuff upto 1.5 m lift and lead upto 50m tal teast 5m away from the excavated area, including disposal of excavated stuff upto 1.5 m lift and lead upto 50m tal teast 5m away from the excavated area, including disposal of excavated stuff upto 1.5 m lift and lead upto 50m tal teast 5m away from the excavated area, including disposal of excavated stuff upto 1.5 m lift and lead upto 50m talest 5m away from the excavated area, including disposal of excavated stuff upto 1.5 m lift and lead upto 50m talest 5m away from the excavated area, including disposal of excavated stuff upto 1.5 m lift and lead upto 50m talest 5m away from the excavated area including disposal of excavated stuff upto 1.5 m lift and lead upto 50m talest 5m away from the excavated area inc | d | 20 mm dia. nominal bore | 60.00 | Metre |
| a 50 mm dia. nominal bore 20 Each 21 midia. nominal bore 21 stimula nominal bore 22 stimula nominal bore 23 Providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete: 33 Providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete: 40 mm dia. nominal bore 10 Each 40 mm dia. nominal bore 110 Each 125 mm dia. nominal bore 126 Troviding and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams) 137 Providing and placing on terrace (at all floor levels) polyethylene water storage tank [S1: 12701 marked with cover and satished locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank Exeavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of exessing and leveling of pits. In all types of poils. Providing and laying nominal mix plain ecement concrete with crushed stone aggregate using concrete mixer in all works upon plinth level excluding cost of form work. 1-4:8 (I cement: 4 coarse sand; 8 graded stone aggregate 11.80 Cum 11.88 Cum 128 Providing and laying nominal mix plain ecement concrete with crushed stone aggregate using concrete mixer in all works upon plinth level excluding cost of form work. 1-4:8 (I cement: 4 coarse sand; 8 graded stone aggregate 129 Brick work with modulus fly-sash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: 120 Cum 131 Providing and Laying damp proof course (up to 50mm thick) with plain cement concrete li2:4 including formwork. 140 Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. 141 Providing and making 12 pure mixer the coura | e | 15 mm dia, nominal bore | 60.00 | Metre |
| b d0 mm dia, nominal bore 25 mm dia, nominal bore 15 Each 16 Each 17 Providing and fixing G1. Union in G1. pipe (New work) including cutting and threading the pipe and making long screws etc. complete: 3 50 mm dia, nominal bore 4 0 mm dia, nominal bore 10 Each 40 mm dia, nominal bore 10 Each 10 Eac | 12 | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): | | |
| c 25 mm dia. nominal bore 10 Each Providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making leng serves etc. complete: a 50 mm dia. nominal bore 10 Each 11 | a | 50 mm dia. nominal bore | 20 | Each |
| Providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete: 5 | ь | 40 mm dia. nominal bore | 15 | Each |
| long screws etc. complete: a 50 mm din nominal bore b 40 mm dia nominal bore c 25 mm dia nominal bore 10 Each 11 Providing and Inking 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams) 10 Each 11 Providing and placing on terrace (at all floor levels) polyethylene water storage tank [S1: 12701 marked with 11 cover and satishel locking arrangement and making necessary holes for inlet, outlet and overflow pipes but 11 without fittings and the base support for tank 12 Exeavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of exessing and leveling of pits. In all types of poils. 12 Providing and laying nominal mix plain ecement concrete with crushed stone aggregate using concrete mixer in all works upon plinth level excluding cost of form work. 1:4:8 (I cement: 4 coarse sand; 8 graded stone aggregate using concrete mixer in all works upon plinth level excluding cost of form work. 1:4:8 (I cement: 4 coarse sand; 8 graded stone aggregate using concrete mixer in all works upon plinth level excluding cost of form work. 1:4:8 (I cement: 4 coarse sand; 8 graded stone aggregate 11.80 Cum 11 foundation and plinth in: 12 Cement Mortar 1:6 (I cement: 6 coarse sand) 11 Providing & Laying damp proof course (up to 50mm thick) with plain cement concrete 1:2:4 including formwork. 20 Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. 11 Providing and making 12 paster on the rough side of single or half brick wall of mix: 42.75 Sqm | c | 25 mm dia. nominal bore | 10 | Each |
| b 40 mm dia. nominal bore 10 Each 10 Each 11 Each 11 Each 12 S mm dia. nominal bore 110 Each 12 Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams) 45 Each 12 Providing and placing on terrace (at all floor levels) polyethylene water storage tank [SI: 12701 marked with 12 | 13 | Providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete: | | |
| b d0 mm dia. nominal bore 2 Smm dia nominal bore 2 Smm dia nominal bore 3 Each Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams) 45 Each Providing and placing on terrace (at all floor levels) polycithylene water storage tank [S1: 12701 marked with cover and suitable locking arrangement and making necessary holes for incl., outlet and overflow pipes but without fittings and placing on sizes of foundations, trenches and drains or for any other purpose including disposal of exeavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the exeavated area), including dressing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of from work. 14:8 (1 cement: 4 coarse sand: 8 graded stone aggregate Brick work with modular fly-sab lime bricks (FaLG Bricks) confirming to 15:12894-2002 of class designation 4.0 Brick work with modular fly-sab lime bricks (FaLG Bricks) confirming to 15:12894-2002 of class designation 4.0 The formwork. 20 Providing and Linging damp proof course (up to 50mm thick) with plain cement concrete 1:2:4 including formwork. 21 Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramning and watering, including dressing etc. complete. 21 Providing and making 1 2 mm thick cement plaster on the rough side of single or half brick wall of mix: 42.75 Sqm 28 29 20 20 20 21 21 21 22 22 23 24 25 26 26 27 27 28 28 27 28 28 27 28 28 | a | 50 mm dia. nominal bore | 10 | Each |
| 14 Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams) 45 Each Providing and placing on terrace (at all floor levels) polyethylene water storage tank [S1: 12701 marked with 15 cover and suitable locking arrangement and making necessary holes for intel, utlet and overflow pipes but without fittings and the base support for tank. Execuation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of exeavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the exeavated area), including dressing and leveling of pits. In all types of 50ils. 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. 14:8 (1 cement: 4 coarse sand : 8 graded stone aggregate and the stop of the stop o | ь | 40 mm dia. nominal bore | | |
| Providing and placing on terrace (at all floor levels) polyethylene water storage tank [S1: 1270] marked with 15 cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but 26 cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but 27 cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but 28 cavarion for all types and sizes of foundations, trenches and drains or for any other purpose including disposal 28 of excavated area), including 29 draws and leveling of pits. In all types of soils. 20 Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all 29 works upto plinth level excluding cost of form work. 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 19 Providing & Laying damp proof course (up to 50mm thick) with plain cement concrete 1:2:4 including 20 formwork. 20 Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm 21 in cement Mortar 1:6 (1 cement: 6 coarse sand) 22 Providing and falling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm 21 in cement Mortar 1:6 (1 cement: 15 mesand) 22 Providing and making 12mm thick cement plaster on the rough side of single or half brick wall of mix: 23 Next Creater purplice. | c | 25 mm dia. nominal bore | 5 | Each |
| Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked with cover and solitable locking arrangement and making necessary bloes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Exewation for all types and sizes of froundations, trenches and drains or for any other purpose including disposal of exewated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the exeavated area), including dressing and leveling of pits. In all types of soils. 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. 14:4 8 (1 cement: 4 coarse sand : 8 graded stone aggregate and the standard stuff and standard s | 14 | Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams) | 45 | Each |
| 10 of exeavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the exeavated area), including 10.80 Cum dressing and leveling of pits. In all types of soils. Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of from work. 14:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 10.80 Cum dominal size). Brick work with modular fly-sab lime bricks (FaLG Bricks) confirming to 15:12894-2002 of class designation 4.0 life foundation and plinth in: Cement Mortar 1:6 (1 cement: 6 coarse sand) 11.88 Cum Providing & Laying damp proof course (up to 50mm thick) with plain cement concrete 1:2:4 including 1.98 Cum formwork. 20 Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. 21 Providing and making 12 plaster on the rough side of single or half brick wall of mix: 42.75 Sqm located the constraint of the coment Mortar 1:5 (1 cement: 5 fine sand) | 15 | 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 | 6000.00 | Litre |
| 17 works upto plinth level excluding cost of form work.14:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 4 1.80 Cum 4 | 16 | of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. In all types of soils | 10.80 | Cum |
| 18 in foundation and plinth in: Cement Mortar 1:6 (I cement : 6 coarse sand) Providing & Laying damp proof course (up to 50mm thick) with plain cement concrete 1:2:4 including Providing & Laying damp proof course (up to 50mm thick) with plain cement concrete 1:2:4 including Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. Providing and making 12 mm thick cement plaster on the rough side of single or half brick wall of mix: 12 Providing and making 12 mm thick cement plaster on the rough side of single or half brick wall of mix: 13 Note Comment Mortar 1:5 (I cement : 5 fine sand) | 17 | works upto plinth level excluding cost of form work.1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size). | 1.80 | Cum |
| formwork. 1.98 Cum Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. Providing and making 12mm thick cement plaster on the rough side of single or half brick wall of mix: 12.1 Providing and making 12mm thick cement plaster on the rough side of single or half brick wall of mix: 12.2 Sept. Compared purposes. | 18 | in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand) | 11.88 | Cum |
| in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. 18.52 Cum Providing and making 12mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand) 20 Next Compute purposes | 19 | Providing & Laying damp proof course (up to 50mm thick) with plain cement concrete 1:2:4 including formwork. | 1.98 | Cum |
| In Cement Mortar 1:5 (I cement : 5 fine sand) 42.75 Sqm | 20 | in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete. | 18.52 | Cum |
| 22 Neat Cement punning 42.75 Sqm | 21 | Providing and making 12mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand) | 42.75 | Sqm |
| | 22 | Neat Cement punning | 42.75 | Sqm |

Executive Engineer Municiapal Corporation Bhilai Assistant Engineer Municipal Corporation Bhilai

Sub Engineer Municipal Corporation Bhilai