

NAGAR PALIK NIGAM BHILAI

NIT

वार्ड क्र.-22 ढांचा भवन कुरुद के पास गार्डन निर्माण कार्य।

AS PER BUILDING S.O.R 01.01.2015 & NON SOR

S.NO	PARTICULAR	QTY	UNIT
1	Excavation of all types of soils for all types size of foundations and drains i/c Dressing and leveling of pits.	17.04	cum
2	Providing and laying mechanically mixed cement concrete with 40mm nominal size inplinth and foundation. 1:4:8	6.72	cum
3	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	7.20	cum
4	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: Thermo-Mechanically treated bars FE 415	648.00	kg
5	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, base of columns and plinth beam in any shape and size.	72.00	sqm
6	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:Cement Mortar 1:6 (1 cement : 6 coarse sand)	13.76	cum
7	12 mm Thick Cement Plaster of mix: In C.M. 1:5 (1 Cement : 5 Sand)	137.60	sqm
8	Providing and placing in position angle iron and sturt of required size i/c bottom to be split and bent at right angle in opposite direction for required length and drilling holes up to 10 mm dia as per requirement i/c priming coat with red oxide zinc chromate primer and placing the post/strut in cement concrete block>	1020.00	kg
9	Painting on new work (two or more coats) to give an even shade with. Aluminium paint.	288.00	sqm
10	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works. gate	200.00	kg
11	Painting new exterior surface (two or more coats) with PREMIUM TEXTURED paint as ...finish including cleaning washing of surface etc. complete with:On new work (Two or more coats)	155.20	sqm
12	Providing and fixing in position chain linked steel wire fabric made of 4 mm dia G.I. wire of required width in mesh to concrete/ wooden/ angle iron posts including securing and screwing with 2mm dia G.I. wire, G.I. staples, G.I.U-nails or steel pins etc., complete. Aperture 50x50mm	144.00	sqm
13	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 32 mm dia. nominal bore	65.00 60.00	mtr. mtr.
14	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kp/sq.cm Pigment Coloured (rubber mould) precast interlock concrete blocks	208.00	Sqm
15	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		

	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size)	2.20	cum
15	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 5 km (earth measured in stacks will be reduced by 20% for payment).	12.00	cum
16	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).	12.00	cum
17	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertiliers, soil and sand: Hedges like Alife, Dorenta, Tikoma etc Carpet grass (well developed)	300.00 350.00	each sqm
18	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.	30.00	cum
19	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 125 mm dia.	30.00	M
20	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. Rocky strata including Boulders. 125 mm dia.	60.00	M
21	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. 125 mm nominal dia	27.50	M
22	Structural steel work riveted or bolted or welded in built-up sections, trusses and frames work upto a height of 5m above plinth level, including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer. For pannel Box.	55.00	kg
23	Supplying of submersible pump set for water supply system with submersible motor as per specification. 5.0 HP, three phase	1.00	Each
24	Supply of 5-7.5 HP 3 phase submersible motor starter cum control	1.00	Each
25	Supplying, laying and fixing following size submersible cable along with GI/PVC/HDPC 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. 3x4.0 sqmm	80.00	mtr.
26	Supplying and laying following sizes one number FRLS PVC insulated/XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground at a depth not less than 40 cm and upto 90 cm including excavtion, sand cushioning, protective covering and refilling the trench etc as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1). 4 x 10 sq. mm.	50.00	mtr.
27	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete: 32 mm dia. nominal bore	60.00	mtr.
28	C.S.E.B. Charges for electricity connection in power pump	1.00	LS
29	Steel Bench providing & Fixing Steel Bench Area- 1.2 m x 0.7m height - 0.45m above G.L. seating:- capsule pipe 22 nos (35 mm x 15 mm) support :- stand 25x 2.5 mm (thickness) NB pipe painthing stucture have bo be powder coated by best quality polyurethane paints. Benches should be procinded with hole passes for proper grip. fixing with 1:2:4 cement concrete		

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	NON SOR ITEM	10.00	No
	CHILDREN PLAYING EQUIPMENTS - Supply and fixing MGR 4 seater - height-4 ft from G.L. Base Plate- 5mm thickness Base pipe-90 od Material: Galvanized steel capacity: 4 seats		
		1.00	No
31	Double swing - height 3 mtr, Width 3.0m Length 3.0m Clamp- S.P. Casting clam with bearing fixing the upper body of pipe with support of 40x5 flat. Seat capacity - 2 nos. F.R.P. laminated steel sheet with the support of 30x30x3 angle and 25x5 flat. Main frame 50x2.5 mm() @NB Pipe Frame have to be supported with 50x50x5 angle of the both sides and sides to be supported with 20 mm pipe with nut bolting system. chain - 8mm thick m.s. nickel coated high tensile chain with 's' hook. ideal for the age group 4-14 yrs. painting structure have to be powder coated by best quality polyurethane paints and should be provided with hole passes for proper grip fixing with 1:2:4 cement concrete.		
		1.00	No
21	Seasaw height 0.4 m, width 1.5 m length 3.0m vertical support - 90 mm x 2mm (thickness) NB pipe center pipe - 2 nos 90mm x 2mm (thickness) NB pipe middle pipe 50mm x 2mm (thickness) base 25mm x 2mm (thickness) pipe with support of 10 mm plate. Handle 25 mm x 2mm (thickness) pipe on both the ... H.P. casting system with bush & bearing . seat capacity - 4nos. F.R.P. laminated steel sheet gripped with the pipe. ideal for the age group 4-14 yrs. painting structure have to be powder coated by best quality poly...paints. and should be provided with hole passes for proper grip Fixing with 1:2:4 cement concrete.		
		2.00	No
32	Dustbin FRP Dust Bins are made of 5 mm thickness frp of different size and shape for example rabbit kangaroo penguin, donal duck etc and painted properly with different colours.		
		6.00	No
	Open Gym Equipement		
33	SKY WALKER	1.00	No
34	AIR WALKER	1.00	No
35	BACK EXTENSIONAL	1.00	No
36	SIT UP BOARD	1.00	No
37	STANDING SEATING TWISTER	1.00	No
38	CROSS TRAINER	1.00	No
39	CYCLE	1.00	No
40	SHOULDER BUILDER	1.00	No

Rama

ASSTT.ENGINEER	SUB ENGINEER
Nagar Palik Nigam, Bhilai	Nagar Palik Nigam, Bhilai

MUNICIPAL CORPORATION BHILAI

NIT

वार्ड क्र.-22 ढांचा भवन कुरुद के पास गार्डन में ट्यूबलर पोल लगाने का कार्य।

(As Per Electrical S.O.R. 01.06.2020)

S. No.	Details of Item	D/H	Qty.	Unit
1	Supply of swaged steel tubular pole as per IS2713 with base plate of size 300x300x6mm welded at bottom, necessary hole for cable entry and earthing stud welded at specified height including painting with one coat red oxide zinc chromate primer Designation 410 SP-30 height 9.00 meter		2	Nos
2	Erection of steel tubular or rail pole in cement concrete 1:3:6 graded stone aggregate 40mm nominal size foundation including excavation and refilling etc. as required of length: 7metre to 10 metre		2	Nos
3	Supply and fixing water tight terminal box made of 1.6mm thick M S Sheet with detachable gland plate in bottom, hinged front open able cover, rubber gasket, having 2nos 4 way connector and 1No, SPMCB inside the box for cable connection, fixed to pole with 2 nos. clamp mad from 40X3mm M.S. lat with 2 Nos. nut bolt dully painted with 2 coat of red oxide paint and 2 coats aluminium paint complete as required 30X20X15 cms. Item 19.16.2		2	Nos
4	Supply and laying following sizes one number PVC insulated, PVC sheathed steel armored, aluminium conductor power cable of 1.1KV grade in existing RCC/ HUME/ STONEWARE/ METAL pipe as required : 4X 16sq.mm		60.00	Mtr
5	Supply and making end termination with brass compression gland and aluminium lugs for following size armored aluminium conductor power cable of 1.1KV grade as required : 4X 16sq.mm		2	Nos
6	Supply, fixing and cramping suitable size and all type aluminium ferule/lugs to following size 1.1 KV grade power cable core/lead, pressed with high pressure cramping tool including connection to switch gear/MCCB etc as required: 16sqmm		100	Nos
7	Supply of GI PIPE POLE made of "B" class GI pipe making necessary hole for cable entry and providing earthing stud (welded at specified height) including painting with one coat of red oxide zinc chromate primer. 50mm dia.		20	Mtr
8	Painting new steel and other metallic surface with red oxide zinc chromate primer paint complete with supply of material labuor etc. including preparation of surface.		2.00	Sqm
9	Painting of following height steel tubular poles with two coat of approved colour and shade synthetic enamel paint including cleaning the surface as required: Above 8 metre and upto 10 metre		2	Each
10	Earthing with G.I. earth pipe 4.5m long 40mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement watering pipe etc. (But without charcoal and salt) as required.		2	Nos
11	Supply and drawing following size of FR PVC insulated copper conductor, single core cable in the existing surface/ concealed, steel/PVC conduit/PVC casing as required: 2 X 1.50sqmm.		40.00	Mtr
12	Supplying and fixing SP MCB, 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as required.		2	Nos
13	Supplying fixing of 32 mm dia X 2meter long G.I. pipe (light) bracket for mounting street light fitting of all types on poles including bending the pipe to the required shape, 2 Nos 40 X 3mm flate iron clamp with bolts and nuts including wiring with 1.5Sqmm W.P./PVC wire etc. as required.		4	Nos
14	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 5 KV surge protection on pole bracket complete as required and furnishing 2 Yrs Guarantee certificate from manufacturer. 25-30 watt		4	Nos
15	Supplying of following LED lamps with inbuilt electronic driver heat sink for conventional holder and furnishing 2 Yrs Guarantee certificate from manufacturer. 15 Watt		4	Nos

ASSTT.ENGINEER

Nagar Palik Nigam, Bhilai

(Signature)
SUB ENGINEER

Nagar Palik Nigam, Bhilai