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NAGAR NIGAM BHILAI


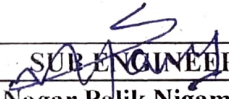
NIT

वार्ड क्र.-22 कुरुद ट्रेडिंग ग्राउण्ड में गौठान हेतु केयर टेकर भवन निर्माण कार्य।

AS PER PWD BUILDING S.O.R 01.01.2015

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S.N.	PARTICULAR	QTY	UNIT
1	Excavation for all types and sizes of foundations, trenches and drains or forupto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.In all types of soil		
		13.82	cum
2	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).		
		6.03	cum
3	Providing and laying nominal mix reinforcement cement concrete with crushed stone.. excluding cost of reinforcement and form work.1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
		15.08	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 in foundation and plinth all complete: Thermo-Mechanically treated bars FE 415		
		1508.00	kg
5	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:		
5.a	Foundations, footings, base of columns and plinth beam in any shape and size.		
		20.88	sqm
5.b	Columns, Pillars, Piers and likes- rectangular or square in shape		
		40.80	sqm
5.c	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)		
		66.37	sqm
5.d	Beams, lintels, cantilevers & walls		
		17.92	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)		
		4.20	cum
7	super structureBrick 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)		
		13.28	cum
8	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.		
		20.94	cum
9	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork		
		0.26	sqm
10	Providing and fixing steel door with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer..		
		149.40	kg
11	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 of red oxide zinc chromate primer..		
		43.20	kg
12	6 mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)		
		48.60	sqm

3	12mm thick cement plaster of mix: Cement Mortar 1:6 (1 cement : 6 fine sand)		
14	15mm thick cement plaster of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand)	156.00	sqm
15	Providing and laying vitrified floor tiles with soluble salt printing, of size 600x600mm with water absorption less than 0.5% and conforming to IS: 15622 of approved make, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.	197.60	sqm
16	Distempering with acrylic washable distemper to give an even shade: on new work.(two or more coats)	41.40	sqm
17	Painting new exterior surface (two or more coats) with PREMIUM TEXTURED paint as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with: On new work (Two or more coats)	204.60	sqm
18	Painting on new work (two or more coats) to give an even shade with.Premium synthetic enamel paint (2nd top most approved branded quality) to give an even shade .	197.60	sqm
		21.36	sqm
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  ASSTT.ENGINEER Nagar Palik Nigam, Bhilai </div> <div style="text-align: center;">  SUB ENGINEER Nagar Palik Nigam, Bhilai </div> </div>			

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MUNICIPAL CORPORATION BHILAI
NIT

वार्ड क्र.-22 कुरुद ट्रेडिंग ग्राउण्ड में गौठान में प्रकाश व्यवस्था हेतु द्यूबलर पोल लगाने का कार्य।

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

S. No.	Details of Item	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	15	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	15	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	15	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	100.00	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	60	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.	60	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.	15.00	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	15	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.	15	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.	60.00	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. 40 amps	15	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.	15	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	30	Nos
15	Supplying of following LED lamps with inbuilt electronic driver heat sink for conventional holder and furnishing 2 rs Guarantee certificate from manufacturer. 15 Watt	30	Nos


ASSTT. ENGINEER
Nagar Palik Nigam, Bhilai


S.W. ENGINEER
Nagar Palik Nigam, Bhilai



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NAGAR PALIK NIGAM BHILAI

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वार्ड क्र.-22 कुरुद ट्रेचिंग ग्राउण्ड में गौठान हेतु नाली एवं सीसी रोड निर्माण कार्य।

(As per P.W.D BUILDING S.O.R. W.E.F. 01.01.2015)

S.NO	PARTICULAR	Q	U
1	Excavation for all types and sizes of foundations, trenches and drains o.....m (at least 5m away from the excavated area), including dressing and leveling of pits. In all types of soil	40.00	cum
2	Providing and laying nominal mix cement concrete with crushed form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	8.00	cum
3	Providing and fixing formwork including centering, Foundations, footings, base of columns and plinth beam in any shape and size.	148.05	sqm
4	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five levelxcluding cost of reinforcement and form work.1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	15.40	cum
5	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 in foundation and plinth all complete:Thermo-Mechanically treated bars FE 415	924.15	kg
6	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	8.00	cum
7	Carriage by mechanical transport for 5 km lead: Earth	32.00	cum
8	Providing and laying cement concrete for plain concrete/ reinforced concrete i/c form work, shuttering complete in as per drawings and specifications.(For Village roads)	17.50	cum
	P.C.C. M-25	26.25	cum
	P.C.C. M-25		
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NAGAR PALIK NIGAM BHILAI



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वार्ड क्र.-22 कुरुद ट्रेडिंग ग्राउण्ड में गौठान हेतु पेयजल बोर खनन, पाईप लाईन बिछाने का कार्य।

AS PER P.W.D BUILDING S.O.R (01.01.2015 & PHED S.O.R. 01.06.2020)

S.No.	PARTICULARS	QTY	UNIT
1	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)	1.00	NO
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 upto 90 metre depth below ground level. All types of soil 150 mm dia.	40.00	M
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 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. 150 mm dia.	56.00	M
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 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	41.00	M
5	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).	1.00	NOS
6	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.	40.00	M
7	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).	0.75	CUM
8	Supplying and laying of submersible flat cable ISI marked 3 core copper wire of suitable size with proper clamping of approved make.	116.00	Per Mitr.
	4.0 Sq.mm. multi strand		
9	Supplying & Installation of Energy efficient five star BEE rating ISI Marked required capacity single phase, 50 Hz, 220V, deep well submersible pump Stainless Steel body, suitable for 4"/6" tube well with Contral Panel Starter suitable for Submersible pump with dry run protection, connections, including clamps, bore cap etc. as required as per specifications but excluding pipe, SS/Nylon wirer opeand connection cable.	1.00	Each
	1 H.P. with upto 5 stages, Head Mt. 35-15 Discharge LPM 40-125		
10	Providing and Supplying Blue MDPE pipes conforming to ISO 4427:1996 manufactured from virgin resin PE 80 Food grade compounded Raw Material having Blue Colour only with quality assurance certificate from quality agencies like WRC/CIPET (India)/ DVGW /KIWA /SPGN etc. for usage in Drinking Water System The cost shall include testing of all materials, Inspection charges, transportation up to site, transit insurance, loading, unloading, stacking etc. complete.	99.00	R. Metre
	25 mm dia HDPE black/Blue Pipe		
11	Labour only for lowering of single phase submersible pumping set of capacity 1 to 3 HP in the tube well with flexible/ rigid pipe line assembly, electrical cable, nylon rope, testing etc. complete including connecting the electrical cable from pump & starter - Depth up to 150mtr.	1.00	Job
12	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:	110.00	meter
	25 mm dia. nominal bore	65.00	meter
	40 mm dia. nominal bore		

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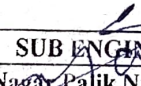
3	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	8.00	each
14	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end): 40 mm dia. nominal bore	4.00	each
15	Providing and placing on terrace (at all floor 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	3000.00	Ltr
16	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.	1000.00	kg
<div><div> ASSTT.ENGINEER Nagar Palik Nigam, Bhilai</div><div> SLP ENGINEER Nagar Palik Nigam, Bhilai</div></div>			

NAGAR NIGAM BHILAI

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वार्ड क्र.-22 कुरुद ट्रेचिंग ग्राउण्ड में गौठान हेतु कोटना, पानी टंकी, चबूतरा निर्माण कार्य।

AS PER PWD BUILDING S.O.R 01.01.2015

S.N.	PARTICULAR	QTY	UNIT
1	Excavation for all types and sizes of foundations, trenches and drains or forupto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.In all types of soil		
2	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	27.72	cum
3	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)	9.24	cum
4	super structureBrick 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)	25.92	cum
5	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.	11.52	cum
6	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork	38.52	cum
7	12mm thick cement plaster of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand)	1.92	sqm
8	15mm thick cement plaster of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand)	259.20	sqm
	Neat Cement punning.	31.20	sqm
	12mm+15mm	290.40	sqm
9	Providing and laying vitrified floor tiles with soluble salt printing, of size 600x600mm with water absorption less than 0.5% and onforming to IS: 15622 of approved make, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.		
		12.00	sqm
10	Distempering with acrylic washable distemper to give an even shade: on new work.(two or more coats)		
	12mm+15mm	290.40	sqm
11	Painting new exterior surface (two or more coats) with PREMIUM TEXTURED paint as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with: On new work (Two or more coats)		
	12mm+15mm	290.40	sqm
12	Lettering with black Japan paint, per cm height.		
		30000.00	sqm
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NAGAR NIGAM BHILAI

NIT

वार्ड क्र.-22 कुरुद ट्रेडिंग ग्राउण्ड में गौठान शौचालय निर्माण कार्य।

AS PER BUILDING S.O.R 01.01.2015

S.N	PARTICULAR	QTY	UNIT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal 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 soil	22.72	CUM
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. 1:3:6	7.35	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).	6.30	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 in foundation and plinth all complete:	630.40	kg
	100 KG/CUM		
5	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for Columns, Pillars, Piers and likes- rectangular or square in shape	13.44	sqm
6	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.	8.28	sqm
7	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	15.20	sqm
8	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)	0.94	CUM
9	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) Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	1.50	sqm
10	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level: Cement Mortar 1:4 (1 cement : 4 coarse sand)	2.07	sqm
11	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.	0.14	sqm
12	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:4 (1 cement : 4 fine sand)	14.09	sqm
13	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand)	1.30	sqm
14	Providing and making 15mm 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)	17.30	sqm
15	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size above 200x300mm		

	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade 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., completeSize 300x300mm	18.64	sqm
		19.00	sqm
17	Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)		sqm
18	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade.On new work (two or more coats)		cum
19	Painting on new work (two or more coats) to give an even shade with:Satin synthetic enamel paint		sqm
20	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. @25 KG /SQM	145.50	kg
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 ramming and watering, including dressing etc. complete.		CUM
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