

MUNICIPAL CORPORATION OF BHILAI

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का नाम :- वार्ड 61 सेक्टर 6 पूर्व में एचएससीएल गार्डन का सौंदर्यकरण कार्य
NIT

As per building sor 2015, Elec sor 2020 & Non sor

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
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 soils.)	108.15	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. 1:4:8 (1 cement : 1 coarse sand : 4 graded stone aggregate nominal size).	43.10	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).	38.73	Cum
4	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.	70.53	Cum
5	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 kg/sq.cm Plain/ normal coloured precast interlock concrete blocks	164.80	SQM
6	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:	1838.00	kg
7	Supply Of Swaged steel tubular Pole as per IS 2713 with base plate of size 300 x 3000 x 6 mm welded at bottom ----- specified height including painting with one coat of red oxide zinc chromate primer. Designation 410 SP-26 height 9.00 metre	4	each
8	Erection of STEEL TUBULAR or "H" BEAM/ ISMB pole in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation and cement concrete collar of size 0.4 metre dia and 0.50 metre height from ground level including excavation and refilling etc. as per specification of length: 7 metre to 10 metre	4	each
9	Supplying 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 1 Nos 4way connector and 1 No SPMCB inside the box for cable connection, fixed to pole with 2 Nos clamp made from 40x3mm M.S. flat with 2 No nut bolt dully painted with 2 coat of red oxide paint and 2 coat aluminium paint complete as per specification. 30 x 20 x 15 cms	4	each
10	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conducto r power cable of 1.1 KV grade as per specification. 3 X 25 sq. mm (25 mm	16	each
11	Supply & fixing & cramping suitable size & all type aluminum ferule/lugs for 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 25 sq.mm. Item - 17.28.4	16	each



12	Supplying and fixing G.I. pipe along with wall or pole/ support with 2 Nos MS clamps for protection of under ground cable in approved manner including bolts and nuts or metal dash fasteners complete as per specification. 40 mm dia	90	
13	Painting new steel and other metallic surface with red oxide zinc chromide primer paint complete with supply of material labour etc. including preparation of surface	25.2	sqm
14	Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffener of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. as per specification. Double Over Hang 1.50 metre Long	16	each
15	Painting wood steel and other metallic surface with Aluminium Paint complete with material and labour including preparation of surface.	25.2	sqm
16	Providing and laying Cast-in-situ cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm including mixing with mechanical mixer, compacting with vibrator, finishing and currying etc. complete but excluding form work.	1.02	cum
17	Providing timber / steel form work for cement concrete work at all levels including removing of the same.	11.3	sqm
18	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as per specification and IS Code 3043: 1987(R 2016)	4	set
19	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit / PVC casing capping as per specification and IS: 694 (2010). 3 x 2.50 sq.mm	72	sqm
20	Providing and fixing porcelain re-wireable fuse carrier and base unit on wooden board including drilling holes on the board, screws, connections etc. as per specification. (Thimbeling shall be paid separately). 32 amps	4	each
21	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 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio \geq 120 lumens /watt.45 watt	8.00	each
22	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 excavation, sand cushioning, protective covering and refilling the trench etc as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1). 2 x 16 sq. mm	100.00	m
23	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 set of suitable size holding clamps made out of 50mm x 6mm MS flat with suitable submersible cable of standard length. 2.0HP, single phase	1.00	each
24	supply installation testing and commissioning 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 switch gears of 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. ammeter 0-1 - A set	1.00	each
25	Supplying, laying and fixing following sizes submersible cable along with GI/PVC/HDFC pipe line or laid in ground etc as per specification 3x4.0sqmm	50.00	m

	ing and laying in trenches G.I. pipes medium class complete with G.I. fittings		
	King excavation of trenches, refilling the same and testing of joints complete: a) 50 dia. nominal bore	50	m
	40 mm dia. nominal bore		
	c) 25 mm nominal bore	30	m
	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: (Dia of main line to be measured) 25 mm nominal bore	40	m
28	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): a) 50mm. nominal bore.	4	nos
29	Providing and filling sand all around the G.I. pipes in external work.	2	nos
30	a) 50mm dia pipe.		
31	b) 25mm dia pipe.	80	m
		50	m
32	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams): Bib cock	4	nos
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: 50 mm nominal bore	4	nos
34	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. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).	0.68	cum
35	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Columns, beams & walls- circular or any other geometrical shape other than square and rectangular in all sizes	7.68	cum
36	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 stringers, treads, landings etc. of stair cases including use of chequered plate wherever	107.77	kg
37	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	5.52	sqm
38	Finishing walls with water proofing cement paint of required shade to give an even shade. On new work (Two or more coats applied @ 3.84 kg/10 sqm)	5.52	sqm
39	Painting on new work (two or more coats) to give an even shade with: Satin synthetic enamel paint	5.1	sqm
40	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly leveling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding	44	cum
41	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).	22	cum
42	Supplying and stacking sludge at site including royalty, loading, unloading and carriage upto 5 km (sludge measured in stacks will be reduced by 8% for payment).	22	cum
43	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for mayment).	22	cum
44	Rough dressing the trenched ground including breaking clods.	110	sqm
45	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	110	sqm
46	Fine dressing the ground	110	sqm
47	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).	110	sqm
48	Mixing earth and sludge or manure in proportion specified or directed.	110	cum

49	Preparation of beds for hedging and shrubbery by excavating 60cm deep and trenching the excavated base to a further depth of 30cm, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume---including stacking and disposal of materials declared unserviceable and	110	cum
50	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including	110	nos
51	Edging with modular well burnt clay bricks of crushing strength not less than 25kg/sqcm laid dry length wise including excavation, refilling, consolidating with hand packing and spreading neatly surplus earth within a lead of 50 m :	110	m
52	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand: Hedges like Alife, Dorenta, Tikoma etc	70	each
53	Furn like Arica, China etc (3 year old)	70	each
54	Hibiscus (Flower)/ Rose	70	each
55	Grassing with 'Doob' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately). In rows 5 cm apart in either direction.	2000	sqm
56	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 old work (One or more coats applied @ 0.83 ltr/ 10 sqm)	300	sqm
57	Distempering with acrylic washable distemper to give an even shade. On old work (one or more coats)	200	sqm
58	Painting on new work (two or more coats) to give an even shade with:	200	sqm
59	Providing and fixing formwork i/c centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for : a)Foundations, footings; base of columns and plinth beam in any shape and size	114	SQM
60	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.	3.8	cum
61	Carriage by mechanical transport for 5 km lead. Earth	15.2	cum
	NON SOR		
1	Providing and planting well developed and healthy(5' and above) ornamental plants with digging holes, soil filling and chemical and biological treatment like Ficus, cymas Chhatim,bottle Palm, Supari palm,musanda and avenue palm ,tree i/c six month maintenance till well Estabalish.as directed by enginerr incharge. (NON SOR ITEM)	100	EACH
2	Providing and planting well established flowering and ornamental plants/shrubs like Nerium ,Bougainvilla ,Crotons,Vidhya etc. with digging holes and chemical treatment . i/c six month maintenance till well Estabalish.as directed by enginerr incharge. (NON SOR ITEM)	60	EACH
3	Providing and planting well developed succulent healthy ornamental plants with digging holes and chemical treatment like Thuja,cymas,lolina etc. i/c six month maintenance till well Estabalish.as directed by enginerr incharge. (NON SOR ITEM)	110	EACH

W. Khan

Asstt. Engineer
Municipal Corporation

[Signature]
Sub Engineer

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