## MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नामः-वार्ड 63 सड़क 82 सेक्टर 06 मैदान में उद्यान एवं खेल मैदान निर्माण कार्य।

S.N.	As Per PWD Building & Road SOR 01 01 2015 Flootrical SOP 01 06 2020 a 2020			*	
5.11		ITEM	TIOM	_	
1		Quantity	UOM	1	
	including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the	85.160	Cum		
	excavated area), including dressing and leveling of pits.	05.100	O	A	
2	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level				
4	excluding cost of form work.	34.480	Cum		
	11:4:8 (1 cement : 4 coarse sand : 8 graded store assess to 10	34.400	Cum		
	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works and a likely larger than the concrete with crushed stone aggregate using				
	concrete mixer in all works upto plinth level	1			
,3	excluding cost of form work.	22.150			
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm	22.158	Cun	n	
	Indimar size).	_	-2	1.	
	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not		<del> </del>		
4	peacecung 20cm in depth consolidating each deposited layer by ramming and watering including	59.778	Cu		
	Turessing etc. complete.	37.113		In In	
	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305		+		
_	pattern, over 40 mm thick average complete coarse sand bed with joints of 3 mm	1	1.	1	
5	unck filled by file sand including leveling with surface vibrator, temping and sweeping etc. complete	137.920	s	sqm	
	of multium compressive strength of 250 kg/sq cm			١	
	Plain/normal coloured precast interlock concrete blocks	1			
١,	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting			1	
6	bending, binding etc. complete as per drawings	1181.2	1	kg	
	including cost of binding wire in foundation and plinth all complete:		1		
_	Supply Of Swaged steel tubular Pole as per IS 2713 with base plate of size 300 x 3000 x 6 mm welded				
7	at bottom specified height including painting with one coat of red oxide zinc chromate primer	4		Each	
	Designation 410 SP-26 height 9 00 metre		1	Luci	
	Erection of STEEL TUBULAR or "H" BEAM/ ISMB pole in cement concrete 1:3:6 (1 cement: 3				
8	coarse sand: 6 graded stone aggregate 40 mm nominal size) foundation and cement concrete collar of		1		
	size 0.4 metre dia and 0.50 metre height from ground level including excavation and refilling etc. as	4		Each	
1,	per specification of length: 7 metre to 10 metre		1		
	Supplying and fixing water tight terminal box made of 1.6mm thick M.S. sheet with detachable gland				
5 4	plate in bottom, hinged front open able cover, rubber gasket, having 1 Nos 4way connector and 1 No.				
9	SPMCB inside the box for cable connection, fixed to pole with 2 Nos clamp made from 40x3mm M.S.		1		
٦	flat with 2 No nut bolt dully painted with 2 coat of red oxide paint and 2 coat aluminium paint	S. 4		Each	
	complete as per specification.		1		
	30 x 20 x 15 cms				
	Supplying and making end termination with brass compression gland and aluminum lugs for following				
10	supplying and making one termination with orass compression grant and aluminum lugs for follows	ng			
10	size armoured aluminum conductor power cable of 1.1 KV grade as per specification.3 X 25 sq. mm (25 mm	n 16		Each	
* ,	Supply & fixing & cramping suitable size & all type aluminum ferule/lugs for following size 1.1 KV	I			
11	grade power cable core/lead pressed with high pressure cramping tool including connection to switc	ch   16			
1	gear/MCCB etc as required 25 sq.mm.	16	,	Each	
	<u>Item - 17.28.4</u>				
	Supplying and fixing G.I. pipe along with wall or pole/ support with 2 Nos MS clamps for protection	20			
12	of under ground cable in approved manner including bolts and nuts or metal dash fasteners complete	te 90	^	Meter	
	as per specification. 32 mm dia	ie	,	MICICI	
13	Painting new steel and other metallic surface with red oxide zinc chromide primer paint complete v		27.0		
13	supply of material labour etc. including preparation of surface	with 25	.2	Sqm	
B 1 8 2	supply of material labour etc. including preparation of surface				

## - चिर्माण कार्य।

	Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" having MS triangular stiffner of size 150 X 50 X 5 mm thick, making agree of 102-50 including the stiffner of size 150 X 50 X 5 mm thick, making agree of 102-50 including the stiffner of size 150 X 50 X 5 mm thick, making agree of 102-50 including the stiffner of size 150 X 50 X 5 mm thick, making agree of 102-50 including the stiffner of size 150 X 50 X 5 mm thick, making agree of 102-50 including the stiffner of size 150 X 50 X 5 mm thick, making agree of 102-50 including the stiffner of size 150 X 50 X 50 X 5 mm thick, making agree of 102-50 including the stiffner of size 150 X 50 X 50 X 5 mm thick, making agree of 102-50 including the stiffner of size 150 X 50					
	Class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 mm dia MS "B" bracket with pole by providing suitable size heavy duty nuts and both in the state of th					
14	class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle out of 50 mm dia MS "B" bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with the coat of approved steel primer etc. as per specification. Double Over H.					
	bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one  Painting wood steel and at a pole canopy of suitable dia at a angle of 102.50 including coat of approved steel primer etc. as per specification. Double Over Hang 1.50 metre long.					
	coat of approved steel primer etc. as per specification. Double Over Hang 1.50 metre Long					
	or steer primer etc. as per specification. Double Over Hang 1 50. painting with one	16	-	Each		
15	Painting wood steel and other metallic surface with Aluminium Paint complete with material and  Providing and laying Cast-in-situ complete with material and				100	
16	Providing and laying Cast-in-situ cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone currying etc. complete but excluding a fixed of the complete but excluding a fixed of					
.0	aggregate 40mm including mixing with mechanical mixer, compacting with vibrator, finishing and Providing timber / steel form work.	25.2		Sqm		
	Providing etc. complete but excluding form work	-				
17	Providing timber / steel form work for cement concrete work at all levels including removing of the  Earthing with G.I. earth pine 4.5 many states.	1.02	02 Cum		e G	
	Farthing it as				18 JH	
18	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry per specification and IS Code 2012, the specification and IS Code 2012, t	11.	3	Sqm		
	enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as Supplying and drawing following size.				-	
	Supplying and IS Code 3043: 1987(R 2016)			C-4		
19	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in 694 (2010), 3 x 2.50 sq. may.	4	.	Set	-  -	
	the existing surface/ concealed, FRLS PVC insulated copper conductor, multi strand wire in 694 (2010). 3 x 2.50 sq.mm  Providing and fixing posselsing as it is a surface.					
	Drawiti 2010). 3 x 2.50 sq.mm	7	12	Sqı	,,	
20	rioviding and fixing porcelain re-wireble fuse carrier and have	,	-	Squ	qiii	
20	Providing and fixing porcelain re-wireble fuse carrier and base unit on wooden board including drilling holes on the board, screws, connections etc. as per specification. (Third I would be a separately) 22					
		\	4	Fa	ch	
	PP13 mg, mistallation testing and have the	1		1		
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 supplying protection on pole bracket, including connection garthing. Supplying the content of the co				,	
21	Isunge protection on note bracket install	1		1		
	complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio ≥ 120	1	8 Each		ach	
	Humens /watt45 watt	1				
	Supplying and laying following sizes are the supplying sizes are the	1				
	armoured, aluminium conductor power cable of 1.1 KV grade direct in ground at a depth not less that 40 cm and upto 90 cm including excavtion, sand cushioning protective conductors.					
22	40 cm and upto 90 cm including exception	1		1		
	trench etc as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1).	1	100			
	2 x 16 sq. mm	- 1	100		Meter	
		1		1		
	Supplying, installation esting and commissioning of submersible pump set for water supply system was submersible motor directly coupled to multi-stage submersible.	- 1		\	1	
	submersible motor directly county to a submersible pump set for water supply system w	ith		-+		
	submersible motor directly coupled to multi-stage submersible pump of specified discharge capacities delivery size in existing hore well including 2 set of with him.	ity				
23	head ,delivery size in existing bore well including 2 set of suitable size holding clamps made out 50mm x 6mm MS flat with suitable submersible gebbs of each to be size holding clamps made out	of		1	1	
			1.00	1	each	
	2.0HP,singlephase	1			1	
		1		1		
	supply installation testing and commissioning 1-3 Hp 1 phase submersible motorstarter cum corwall /floor mounted type made out of not be submersible motorstarter cum cor	4==1				
	many froof mounted type filade out of not less than I 6 mm thick Mc about a 1	1				
24 1	parter mounting switchgerds of there in including connection inter-connection	_				
~	indicating lamps with fuses and toggle switches 1 set b. 1/2/3 HP 1 phase DOL starter with	hase	e 1.00		anah	
	loadand no volt relay 1 no	over	1.0		each	
	c 25 A Course DBMCD I NO D	1				
	c. 25 A C curve DPMCB 1 NO D.ammeter 0-1- A set					
25	Supplying, laying and fixing following sizes ubmersible cable along with GI/PVC/HDFC pipe line or la	id in				
	ground etc as per specification 3x4.0samm		50.	.00	METER	
26	Providing and laying in trenches G.l. pipes medium class complete with G.l. fittings including					
	excavation of trenches, refilling the same and testing of joints a) 50 mm dia nominal bare		5	0	m	
	b) 40 mm dia. nominal bore			-		
	c) 25 mm nominal bore		30		m	
			40		m	
27	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fi	xing				
~ /	tee, including cutting and threading the pipe etc. complete: (Dia of main line to be measured) 25.	mm	1	4	nos	
	bore		1		nos	
	Providing and fixing gun metal gate valve with C.l. wheel of approved quality (screwed end): a)		1			
20	50mm, nominal bore.			2	nos	
			1			
	Providing and filling sand all around the G.I. pipes in external work.		1			
	a) 50mm dia pipe.			80	m	
-	b) 25mm dia pipe.			50	m	
				50	10	

		Providis		
	30	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not  Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not  Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not		
	7.	Providing and Soil Control Providing and Soil Co		
	31	The state of the s	4	nos
		making long screws etc. complete: 50 mm nominal bore	4	
	32	mixer in all works upto plints lead to a sing concern with crushed stone aggregate using concern	4	uo2
		11:2:4 (1 cement · 2 coarse and 4		
		Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc.	0.68	Cum
	33	complete and including its representating centuring, structuring, stru		
		Columns, beams & walls- circular or any other geometrical shape other than square and rectangular in		7
-		all sizes and rectangular in	7.68	Cum
		Steel work welded in built up goeties 1.6		
3	34	applying a priming coat of red oxide zinc		
		chromate primer. In stringers, treads, landings etc. of stair cases including use of chequered plate  Providing and medical complete.	107	
		Wherever required, all complete.  Providing and the last of chapters of the providing use of chapters of the providing and the last of the last	107.77	kg
3	) I	and making 12mm thick come is		
2	6	In Cement Mortar 1:4 (1 cement : 4 fine sand)	5.52	
3	6	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 com)	5.52	sqm
3	7	On new work (Two or more coats applied @ 3.84 kg/10 sqm)	5.52	sqm
		Satin synthetic enamel point		sqiii
	ľ	Frenching in ordinary soil upto a double G. Co.	5.10	sqm
	1	naterials and then disposing of by spreading and		
38	, ի	leatly leveling with in a lead of some		Σ.,
	e	earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding	44.00	0
		OSI OI imported earth al., I	44.00	Cum
	5	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 5		
39	)   k	m (earth measured in stacks will be		
	r	educed by 20% for payment)	22.00	Cum
40	15	supplying and stacking sludge at site including the stacking sludge at site including		Cum
	(	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).	22.00	
1	S	upplying and stacking at site well decreased over for payment).	22.00	Cum
41	le	pading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for mayment).	_	
	n	nayment).	22.00	Cum
42	R	ough dressing the trenched ground including breaking clods.		
43	U	prooting weeds from the trenched area after 10 to 15 days of its flooding with water including	110.00	sqm
43	d	isposal of uprooted vegetation.	110.00	
44	F	ine dressing the ground	110.00	sqm
	S	preading of sludge dump manura or/and and the	110.00	sqm
45	m	preading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump		1
46	$-\frac{1}{N}$	anure or/ and good earth to be paid separately).	110.00	sqm
-10	- ID	lixing earth and sludge or manure in proportion specified or directed.	110.00	cum
	1,1	reparation of beds for hedging and shrubbery by excavating 60cm deep and trenching the excavated	2.0.00	cum
	100	ise to a further depth of 30cm, refilling the excavated earth after breaking clode and minimum.		
47	121	udge of manure in the ratio of 8:1 (8 parts of stacked volumeincluding stacking and disposal ac		
	1111	aterials declared unserviceable and surplus earth by spreading and leveling as directed within a last	110.00	cum
	Of	50m lift upto 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately).		
	U	igging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or		
	SI	udge in the ratio of 2:1 by volume (2 parts of		
	st	acked volume of earth after reduction by 20%: 1 part of stacked volume of manure after reduction		
48	by	8%) flooding with water, dressing including	110.00	no.
	re	moval of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra	110.00	110.
1	g	ood earth if needed to be paid for separately):	196	
	ΗН	oles 60 cm dia, and 60 cm deep.		1
1	E	dging with modular well burnt clay bricks of crushing strength not less than 25kg/ sqcm laid dry		
49	le	ngth wise including excavation, refilling, consolidating with hand packing and spreading neatly	110.00	no.
	Si	irplus earth within a lead of 50 m:		
	P	roviding and planting following herbs in garden including preparation of soil, base plantation,		
50	p	roviding and spreading different fertilizers, soil and	70.00	each
	Sa	and: Hedges like Alife, Dorenta, Tikoma etc		

51 52	Furn like Arica, China etc (3 year old)	70.00	1	each		
22	Hibiscus (Flower)/ Rose	70.0	0	each	1	
3	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.	00 sqm		7.	
4	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)	3(				
5	Distempering with acrylic washable distemper to give an even shade. On old work (one or more coats)	2	.00	sq	m	
6	Painting on new work (two or more coats) to give an even shade with:	2	200	sc	m	
	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).	5	6.00	5.00 sq		
	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 : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).		2.10		Cum	
9	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).		4.82		Cum	
50	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 class designation 4.0 in foundation and plinth in:Cement Mortar 1:6 (1 cement : 6 coars	of e	6.33		Cum	
- 1	sand) 15mm thick cement plaster on the rough side of single or half brick wall of mix:		77.00		Sqm	
1	White washing with whiting to give an even shade. On new work (Three or more coats)		77.00		Sqm	
52	Distempering with acrylic washable distemper to give an even shade. On new work (Two	or	77.00		Sqm	
53					<u>.</u>	
54	Providing and placing in position angle iron post and strut of required size including bottom be split and bent at right angle in opposite direction for required length and drilling holes u 10 mm dia as per requirement including priming coat with red oxide zinc chromate prin	ner	693.105		Kg	
55	Painting on new work (two or more coats) to give an even street	etic	253.70		Sqn	
66	enamel paint  Providing and fixing in position welded steel wire fabric to concrete/ wooden/ angle iron p including securing and screwing with G.I. tying wire, G.I. staples, G.I.U-nails or steel pins	osts etc.,	126		Sqm	
	NON SOR ITEM  11 (6) and above) ornamental plants with dig	gging			-	
67	NON SOR ITEM  Providing and planting well developed and healthy(5' and above) ornamental plants with dig holes, soil filling and chemical and biological treatment like Ficus, cycas Chhatim,bottle holes, soil filling and chemical and biological treatment like Ficus, cycas Chhatim,bottle by holes, soil filling and avenue palm, tree i/c six month maintenance till well Estabalish.as discourse palm, musanda and avenue palm, tree i/c six month maintenance till well Estabalish.as discourse palm, musanda and avenue palm, tree i/c six month maintenance till well Estabalish.as discourse palm, musanda and avenue palm, tree i/c six month maintenance till well Estabalish.as discourse palm, musanda and avenue palm, tree i/c six month maintenance till well Estabalish.as discourse palm, musanda and avenue palm, tree i/c six month maintenance till well Estabalish.as discourse palm, musanda and avenue palm, tree i/c six month maintenance till well Estabalish.as discourse palm, tree i/c six month maintenance till well Estabalish.as discourse palm, tree i/c six month maintenance till well Estabalish.	rected	60.00		each	
<b>SQ</b>	Providing and planting well established flowering and ornamental plants/shrubs like No Providing and planting well established flowering and chemical treatment. i/c six is provided by the providing and plants, with digging holes and chemical treatment.	erium month			each	
68	Bougainvilla ,Crotons,Vidhya etc. with digging notes and enominate the state of the	es and	1		each	

Asstt. Engineer Municipal Corporation Bhilai(C.G.)

Sub Engineer Municipal Corporation Bhilai(C.G.)

