

## Office Of Municipal Corporation, Bhilai-Charoda

### N.I.T.

Name of work :		<b>Repair Work at Middle School , Ganiyari, Udise Code : 22101115002</b>				
S.O.R. :		<b>P.W.D. S.O.R. 2015 Building (01-01-2015)</b>				
No	Code	Description	Unit	Quantity	Rate	Amount
<b>Repair works</b>						
1	7.5.4	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand)	cum	18.00	3263.00	58,734.00
2	9.15	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.	kg	535.00	68.00	36,380.00
3	3.1	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.				
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	cum	7.50	2659.00	19,942.50
	3.1.5	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	cum	7.50	4073.00	30,547.50
4	9.1.3	Providing and fixing steel door/ window 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.	kg	500.00	75.00	37,500.00
5	14.22.1	Painting on new work (two or more coats) to give an even shade with: 14.22.1 Satin synthetic enamel paint	sqm	200.00	55.00	11,000.00
6	14.9.2	Distemping with acrylic washable distemper to give an even shade. 14.9.2 On old work (one or more coats)	sqm	200.00	17.50	3,500.00
7	11.2.4	Providing and making 12mm thick cement plaster of mix: 1:6	sqm	520.00	91.50	47,580.00
8	11.3.4	Providing and making 15mm thick cement plaster of mix: 1:6	sqm	204.00	107.00	21,828.00
9	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.	sqm	724.00	94.50	68,418.00
10	14.16.1	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	724.00	74.50	53,938.00
11	14.22.2	Premium synthetic enamel paint	sqm	25.20	55.00	1,386.00
12	12.65.2	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 Pigment Coloured (rubber mould) precast interlock concrete blocks	sqm	116.00	632.00	73,312.00
13	14.16.2	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)	sqm	679.00	47.50	32,252.50
Water and Drainage related works						
14	18.1.3	Providing and fixing water closet squatting pan (Indian type W.C. pan ), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required : White Orissa pattern W.C. pan of size 580x440 mm	each	2.00	2899.00	5,798.00
15	18.4.1	Providing and fixing vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : 18.4.1 White pedestal type	each	2.00	2882.00	5,764.00
16	18.13.1	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete: 18.13.1 Flat back half stall urinal of size 460x380x250mm	each	2.00	1776.00	3,552.00

No	Code	Description	Unit	Quantity	Rate	Amount
17	18.17.1	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : 18.17.1 White Size 550x450 mm	each	2.00	1430.00	2,860.00
18	18.76.1	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. 18.76.1 75 mm dia pipe.	m	110.00	182.00	20,020.00
19	19.4.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. INTERNAL WORK - EXPOSED ON WALL 19.4.2 20 mm nominal outer dia .Pipes	m	270.00	151.00	40,770.00
20	19.13.1	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: 19.13.1 Bib cock (250 grams)	each	10.00	185.00	1,850.00
21	19.42	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	litres	4000.00	7.30	29,200.00
		Electrification works				
1	21.3	Supply of swaged steel tubular pole as per IS 2713 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 of red oxide zinc chromate primer.				
	21.3.11	Designation 410 SP-32 height 9.00 metre	Each	6.00	12430.00	74,580.00
2	21.9	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 required.				
	21.9.2	Single Over Hang 1.00 metre Long	Each	6.00	1030.00	6,180.00
3	21.12	Designing and providing suitable RCC foundation in Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for 3 mere to 12 metre high GI octagonal pole including steel reinforcement (minimum 90kg per cum), form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as required.	cum	6.78	4906.00	33,274.45
4	17.5	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as required.				
	17.5.14	4 x 16 sq. mm.	Metre	150.00	153.00	22,950.00
5	21.16	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 required.				
	21.16.1	20x15x15 cms.	Each	6.00	653.00	3,918.00
6	16.2	Supplying and laying HDPE pipe of 4kg/sqcm in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required.				
	16.2.2	75 mm outer dia	Metre	6.00	179.00	1,074.00
7	21.22	Painting of following height steel tubular poles with two coat of approved colour and shade synthetic enamel paint including cleaning the surface as required:				
	21.22.4	Above 10 metre and upto 12 metre	Each	6.00	332.00	1,992.00
8	1.4	Wiring for light plug point with 2x2.5 sq mm FR PVC insulated stranded copper conductor cable in concealed steel conduit along with piano type 6 amp switch and 3 pin 6 amps socket outlet with suitable size M.S. box, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable etc. as required.				
	1.4.1	Short Point	each	56.00	413.00	23,128.00
	1.4.2	Medium Point	each	56.00	752.00	42,112.00
	1.4.3	Long Point	each	56.00	1153.00	64,568.00
9	6.3	Supplying and fixing of following sizes PVC switch box suitable for modular switches with modular base and cover plates on surface complete as required				

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	6.3.4	205mmX94mm (6 Module)	Each	112.00	163.00	18,256.00
10	7.1	Supplying and fixing following piano type switch, socket, other accessories on the existing switch box/ cover including connections etc. as required.				
	7.1.8	Plug Top 3 pin 16 Amps (For power plug).	Each	56.00	54.00	3,024.00
	7.1.12	Fan regulator Electronic, step type moving all round	Each	56.00	178.00	9,968.00
	7.1.13	Ceiling rose 3 pin 5 amps	Each	56.00	28.00	1,568.00
	7.1.14	Pendent holder	Each	56.00	38.00	2,128.00
	7.1.15	Batten/ angle holder	Each	56.00	37.50	2,100.00
11	8.22	Supplying, fixing, testing and commissioning of following LED lamps with inbuilt electronic driver heat sink and all other accessories in existing holder/ luminaries as required and furnishing 2 Yrs Guarantee certificate from manufacturer.				
	8.22.4	9 Watt	Each	280.00	973.00	2,72,440.00
12	26.3.4	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 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as required. 3 phase	each	1.00	22669.00	22,669.00
13	26.10	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 required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 5/7.5 HP 3 phase DOL starter with over load and no volt relay 1 No c) 32 A "C" 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.	each	1.00	4253.00	4,253.00
14	8.30	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.				
	8.30.2	40-45 watt	Each	6.00	9534.00	57,204.00
15	14.4	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe, with charcoal and salt as required.	Set	1.00	6754.00	6,754.00
						12,80,272.95
						12,80,000.00