

कार्यालय, नगर पालिक निगम, भिलाई

निविदा सूचना

क्रमांक/लो.क.वि./जोन-1/257

भिलाई, दिनांक 29/7/24

आयुक्त नगर पालिक निगम भिलाई की ओर से लोक निर्माण विभाग मे ई-रजिस्ट्रेशन में पंजीकृत ठेकेदारों से लोक निर्माण विभाग के भवन एस.ओ.आर. दिनांक 01.01.2015 एवं सड़क एस.ओ.आर. दिनांक 01.01.2015 से लागू एवं अद्यतन संशोधन के आधार पर कम/अधिक एवं आयटम दर पर निम्नांकित कार्य दिनांक 12.08.2024 को सायं 5.30 बजे तक मुहरबंद निविदा आमंत्रित की जाती है। प्राप्त निविदा दिनांक 13.08.2024 को प्रातः 11.00 बजे खोली जावेंगी। निविदा प्रपत्र हेतु आवेदन दिनांक 06.08.2024 को सायं 5:30 बजे तक निर्धारित राशि के साथ आवेदन स्वीकार किये जावेगा।

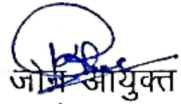
क्र.	कार्य का नाम	निविदा लागत लाख में	धरोहर राशि	निविदा प्रपत्र का मूल्य	समयावधि	ठेकेदार की श्रेणी
1.	वार्ड-01 खम्हरिया पानी टंकी के पास सामुदायिक शौचालय का संधारण कार्य।	3.80	4000.00	750.00	60 दिन	द एवं प्रवर
2.	वार्ड-01 जुनवानी चौक में सामुदायिक शौचालय का संधारण कार्य।	2.80	3000.00	750.00	60 दिन	द एवं प्रवर
3.	वार्ड-04 नेहरू नगर चौक के पास आधुनिक शौचालय का संधारण कार्य।	2.20	2500.00	750.00	60 दिन	द एवं प्रवर
4.	वार्ड-05 कोसानगर सांस्कृतिक भवन के पास सामुदायिक शौचालय का संधारण कार्य।	4.00	4000.00	750.00	60 दिन	द एवं प्रवर
5.	वार्ड-06 भिलाई नगर रेल्वे स्टेशन के पास सामुदायिक शौचालय का संधारण कार्य।	2.00	2000.00	750.00	60 दिन	द एवं प्रवर
6.	वार्ड-06 संजय नगर कुम्हार पारा के पास सामुदायिक शौचालय का संधारण कार्य।	2.50	2500.00	750.00	60 दिन	द एवं प्रवर
7.	वार्ड-06 बर्फ फैक्टरी के पीछे सुविधा 24 शौचालय का संधारण कार्य।	3.00	3000.00	750.00	60 दिन	द एवं प्रवर
8.	वार्ड-06 सुवर मैदान के पास स्थित सामुदायिक शौचालय का संधारण कार्य।	4.00	4000.00	750.00	60 दिन	द एवं प्रवर
9.	वार्ड-08 धनवंतरी स्कूल के पास सामुदायिक शौचालय का संधारण कार्य।	4.10	4500.00	750.00	60 दिन	द एवं प्रवर
10.	वार्ड-10 राजीव नगर लक्ष्मी मार्केट के पास सामुदायिक शौचालय का संधारण कार्य।	3.20	3500.00	750.00	60 दिन	द एवं प्रवर
11.	वार्ड-11 फरीद नगर गांधी कॉलोनी में सामुदायिक शौचालय का संधारण कार्य।	4.15	4500.00	750.00	60 दिन	द एवं प्रवर
12.	वार्ड-13 मंगल बाजार कोहका में सामुदायिक शौचालय का संधारण कार्य।	2.10	2500.00	750.00	60 दिन	द एवं प्रवर
13.	वार्ड-17 सुपेला चौक के पास स्थित आधुनिक शौचालय का संधारण कार्य।	2.00	2000.00	750.00	60 दिन	द एवं प्रवर
14.	वार्ड-17 लाल बहादुर शास्त्री के पीछे सामुदायिक शौचालय का संधारण कार्य।	2.30	2500.00	750.00	60 दिन	द एवं प्रवर
15.	वार्ड-17 आकाश गंगा ज्वलेरी लाईन के पास स्थित सामुदायिक शौचालय का संधारण कार्य।	2.00	2000.00	750.00	60 दिन	द एवं प्रवर



क्रमश : 2

क्र.	कार्य का नाम	निविदा लागत लाख में	धरोहर राशि	निविदा प्रपत्र का मूल्य	समयावधि	ठेकेदार की श्रेणी
16	वार्ड-17 बच्चन पान टेला के पास स्थित सामुदायिक शौचालय का संधारण कार्य।	3.15	3500.00	750.00	60 दिन	द एवं प्रवर
17	वार्ड-17 आकाश गंगा प्रेस क्लब तृतीय लिंग शौचालय का संधारण कार्य।	2.05	2500.00	750.00	60 दिन	द एवं प्रवर
18	वार्ड-17 आकाश गंगा पी.सी. ज्वेलर्स के पास सामुदायिक शौचालय का संधारण कार्य।	4.50	4500.00	750.00	60 दिन	द एवं प्रवर
19	वार्ड-18 सत्संग विहार हरा मैदान के पास स्थित सुविधा 24 शौचालय का संधारण कार्य।	2.95	3000.00	750.00	60 दिन	द एवं प्रवर
20	वार्ड-17 पृथ्वी इलेक्ट्रिकल के पास स्थित सामुदायिक शौचालय का संधारण कार्य।	2.90	3000.00	750.00	60 दिन	द एवं प्रवर

नियम एवं शर्तें:- 1. सशर्त निविदा स्वीकार नहीं की जावेगी। 2. निविदा स्पीड पोस्ट अथवा रजिस्टर्ड डाक से स्वीकार किये जावेंगे। 3. धरोहर राशि कार्यपालन अभियंता /जोन आयुक्त, नगर पालिक निगम, भिलाई एवं संबंधित ठेकेदार के नाम से तथा प्रत्येक कार्य के लिये जीवित ठेकेदारी ई-पंजीयन, पेनकार्ड, आयकर, जीवित बैंक सालवेंसी प्रमाण, GST पंजीयन पत्र की सत्यापित प्रति लिफाफा "क" में प्रस्तुत करना है, एवं निविदा प्रपत्र दर सहित लिफाफा "ख" में प्रस्तुत करना होगा। 4. कर्मकार कल्याण उपकर अधिनियम लागू होगी। 5. सम्पूर्ण निविदा अथवा किसी भी अंश को स्वीकृत करने अथवा न करने का अधिकार निगम के पास सुरक्षित रहेगा। 6. नगर निगम की वाहनों से निर्माण कार्य हेतु पानी लेने पर देयक से 1 % राशि की कटौती की जावेगी, किन्तु निगम वाहनों से जल उपलब्ध कराने हेतु बाध्य नहीं रहेगा। निगम क्षेत्र के स्रोतों से स्वयं के वाहनों से पानी लेने पर 0.5 % की कटौती की जावेगी। 7. ठेकेदार द्वारा निविदा में अंको एवं शब्दों दोनों में स्पष्ट रूप से दरे प्रस्तुत करें नहीं किये जाने पर निविदा फार्म निरस्त किया जावेगा। 8. शासन के आदेश क्रमांक 19 दिनांक 04.06.2016 के सफल निविदाकार की निविदा दर निविदा राशि के 90% से कम होने की स्थिति में अंतर की राशि एफ.डी.आर. के रूप में निविदा के पूर्व जमा करना होगा। 9. शासन के निर्देशानुसार श्रमिकों से संबंधित कार्यों हेतु श्रमिकों का पी.एफ. कटौती किया जाना है तथा बैंकों में खाता खोलकर सीधे उनके बैंक खाते में श्रमायुक्त द्वारा स्वीकृत दरों के अनुरूप प्रतिमाह राशि जमा किया जाना है। 10. प्रस्तुत दस्तावेज असत्य पाये जाने पर पंजीयन निरस्त कर, काली सूची में दर्ज करने की कार्यवाही की जावेगी। 11. यदि निगम द्वारा निर्धारित निविदा प्राप्ति की अंतिम तिथि/निविदा खोलने की तिथि को किसी अपरिहार्य कारणवश अवकाश घोषित होता है तो ऐसी स्थिति में अंतिम तिथि/खोलने की तिथि आगामी कार्य दिवस को माना जायेगा। 12. प्रत्येक कार्य के लिए पृथक-पृथक धरोहर राशि जमा करें एवं समयोजन की कार्यवाही नहीं होगी। 13. शासन के निर्देशानुसार G.S.T. एवं अन्य कर सम्मिलित रहेगा। 14. निविदा में भाग लेने वाले इच्छुक एजेंसी प्रत्येक कार्य के लिए राशि रु. 100.00 स्टाम्प एफिडेविट संलग्न करना अनिवार्य होगा। 15. किसी भी विवाद स्थिति में आयुक्त/जोन आयुक्त नगर पालिक निगम, भिलाई का निर्णय अंतिम एवं मान्य होगा। विस्तृत जानकारी कार्यालयीन समय एवं तिथि में कार्यालय नगर पालिक निगम भिलाई नेहरू नगर जोन-01, नगर निगम भिलाई की वेबसाइट www.bhilainaganigam.com, https://bhilai.urbanecg.gov.in/ अथवा संचालनालय की वेबसाइट www.uad.cg.gov.in से देखी जा सकती है। 16. नियम एवं शर्तों अनुसार दस्तावेज संलग्न करें।


 जोन आयुक्त
 जोन-01
 नगर पालिक निगम,
 भिलाई

MUNICIPAL CORPORATION BHILAI (C.G.)

NIT

कार्य का नाम :- वार्ड-01 खम्हरिया पानी टंकी के पास सामुदायिक शौचालय का संधारण कार्य।

Pwd Building Sor 01.01.2015 & Elecetric Sor 01.06.2020, Non Sor

S.No.	Description and details of work	Qty.	Unit
1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :	50.00	Metre
2	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	5.00	Nos
3	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement. 40 mm thick	40.00	Sqm
4	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design: 100 mm diameter S.W. pipe	30.00	Metre
5	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.	120.00	Kg
6	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	300.00	Kg
7	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	150.00	Kg
8	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. 110 mm dia pipe.	50.00	Metre
9	150 mm dia pipe.	50.00	Metre
10	Neat Cement punning.	30.00	Sqm
11	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	52.50	Sqm
12	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.02	Cum
13	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	15.00	Each
14	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	68.60	Sqm

S.No.	Description and details of work	Qty.	Unit
15	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	277.50	Sqm
16	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	249.00	Sqm
17	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).	2.16	Cum
18	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	6.00	Nos
19	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)	1.60	Cum
20	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.81	Cum
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.	2.37	Cum
22	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	64.80	Kg
23	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)	1.20	Cum
24	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete.	3.60	Sqm
25	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm 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 upto 200x300mm	48.00	Sqm
26	Distempering with acrylic washable distemper to give an even shade. On old work (one or more coats)	100.00	Sqm
27	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	8.00	Each
28	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:	196.80	Sqm

S.No.	Description and details of work	Qty.	Unit
29	Painting on old work (one or more coats) to give an even shade with: Satin synthetic enamel paint	57.75	Sqm
30	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	16.00	Each
31	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 :	4.00	Nos
32	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 ll fittings and fixtures complete including cutting and making good the walls and floors wherever required : White pedestal type	2.00	Each
33	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 : White Size 550x450 mm	2.00	Nos
34	Towel rail (600mm long x 20mm dia)	4.00	Each
35	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) : Ordinary cement without any pigment	13.50	Sqm
36	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	55.00	Kg
37	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes.	20.00	Metre
38	25 mm nominal outer dia .Pipes.	20.00	Metre
39	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and ---- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	500.00	Ltr.
40	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	32.00	Nos
	Rain Water Harvesting		
41	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of ---- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum

S.No.	Description and details of work	Qty.	Unit
42	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.38	Cum
43	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	Nos
44	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
45	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	9.00	Cum
46	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	70.00	Kg
47	Electrification Work Lum-Sum	20000.00	Rs
	Non Sor Item		
1	Slogan Painting & Informative board writing work.	60.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai (C.G)

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

W
Sub. Engineer
Municipal Corporation
Bhilai (C.G)

MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड-01 जुनवानी चौक में सामुदायिक शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01 01 2015 & Electric SOR 01 06 2020, Non Sor Item)

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
1	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)	0.80	CUM
2	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.	5.25	Sqm
3	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floatingcoat of neat cement. 40 mm thick	24.00	Sqm
4	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.	80.00	Kg
5	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	150.00	KG
6	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	40.00	M
7	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	4.00	NO
8	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:100 mm diameter S.W. pipe	24.00	M

9	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	Kc,
10	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. 150 mm dia 110 mm dia	80.00	M
11	Neat Cement punning.	24.00	Sqm
12	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	52.20	Sqm
13	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.02	CUM
14	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10.00	Each
15	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	54.88	Sqm
16	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	222.00	Sqm
17	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	199.20	Sqm
18	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).	1.08	CUM
19	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Each
20	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.54	CUM


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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.	2.37	CUM
22	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	43.20	KG
23	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).	0.80	CUM
24	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete. Size 300x300mm	3.60	Sqm
25	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm	48.00	Sqm
26	Distempering with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	100.00	Sqm
27	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
28	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)	196.80	Sqm
29	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	57.75	Sqm
30	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	16.00	Each
31	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	3.00	Each

32	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 : White pedestal type	2.00	Each
33	Providing and fixing vitreous china wash basin with C.I. brackets, 32mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : White Size 550x450 mm	2.00	Each
34	Towel rail (600mm long x 20mm dia)	4.00	Each
35	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	9.00	Sqm
36	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	KG
WATER SUPPLY WORKS			
37	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.	40.00	M
38	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and --- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr
39	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	24.00	NO
Rain water Harvesting			
40	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of --- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	CUM

41	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately)	2.04	CUM
42	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	nos
43	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
44	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	9.00	Cum
45	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	60.00	KG
46	Electrification Work		
	As electric SOR 01.06.2020 Lum-Sum	15000.00	RS.
47	NON SOR ITEM Slogan Painting & Informative board writing work.	75.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai


Asstt. Engineer
Municipal Corporation
Bhilai


Sub. Engineer
Municipal Corporation
Bhilai

कार्य का नाम :- वार्ड 04 नेहरू नगर चौक के पास आधुनिक शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01 01 2015 & Electric SOR 01 06 2020, Non Sor Item)

S.N.	PARTICULARS OF ITEMS	Quantity	UOM
1	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.	40.00	Kg
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	75.00	Kg
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	20.00	M
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	4.00	No.
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:100 mm diameter S.W. pipe	12.00	M
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	KG
7	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.	40.00	M
8	Neat Cement punning.	6.00	Sqm
9	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	52.20	Sqm
10	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.02	Cum
11	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10.00	Each

12	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	54.88	Sqm
13	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	111.00	Sqm
14	Providing and making 12mm thick cement plaster of mix:	99.60	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	0.54	Cum
16	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Each
17	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).Extra for precast PCC/ RCC work of any mix	0.41	Cum
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.	2.37	Cum
19	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	32.40	KG
20	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).	0.80	Cum
21	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete. Size 300x300mm	3.60	Sqm
22	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm	19.20	Sqm
23	Distemping with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	100.00	Sqm
24	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
25	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)	196.80	Sqm

26	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	46.20	Sqm
27	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	12.00	Each
28	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	3.00	Each
29	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 : White pedestal type	2.00	Each
31	Towel rail (600mm long x 20mm dia)	8.00	Each
32	Chequerred precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	13.50	Sqm
33	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	KG
WATER SUPPLY WORKS			
34	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.	20.00	M
35	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and ---- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr
36	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	8.00	No
Rain water Harvesting			
37	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of ---- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum

38	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).	2.04	Cum
39	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	nos
40	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar, 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
41	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	6.75	Cum
42	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	60.00	KG
43	Electrification Work		
	As electric SOR 01.06.2020 Lum-Sum	15000.00	
44	NON SOR ITEM Slogan Painting & Informative board writing work.	75.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai

Rashmi
Asstt. Engineer
Municipal Corporation
Bhilai

W
Sub Engineer
Municipal Corporation
Bhilai

MUNICIPAL CORPORATION BHILAI (C.G.)

NIT

कार्य का नाम :- वार्ड-05 कोसानगर सांस्कृतिक भवन के पास सामुदायिक शौचालय का संधारण कार्य।

Pwd Building Sor 01.01.2015 & Elecetric Sor 01.06.2020, Non Sor

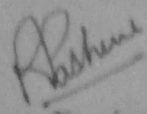
S.No.	Description and details of work	Qty.	Unit
1	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand)	1.70	Cum
2	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.	5.25	Sqm
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :	42.00	Metre
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	4.00	Nos
5	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement. 40 mm thick	60.00	Sqm
6	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design: 100 mm diameter S.W. pipe	30.00	Metre
7	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.	120.00	Kg
8	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	210.00	Kg
9	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	150.00	Kg
10	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. 110 mm dia pipe.	20.00	Metre
11	150 mm dia pipe.	20.00	Metre
12	Neat Cement punning.	30.00	Sqm
13	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	43.50	Sqm


S.No.	Description and details of work	Qty.	Unit	No.
14	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.02	Cum	Painting Satin sy
15	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	12.00	Each	Provid confor
16	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	41.16	Sqm	Provi inclu
17	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	111.00	Sqm	Provi OC
18	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	99.60	Sqm	
19	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).	1.08	Cum	
20	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Nos	
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.	2.37	Cum	
22	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.81	Cum	
23	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	64.80	Kg	
24	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)	1.20	Cum	
25	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete.	3.60	Sqm	
26	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm 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 upto 200x300mm	38.40	Sqm	
27	Distempering with acrylic washable distemper to give an even shade. On old work (one or more coats)	150.00	Sqm	
28	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:	196.80	Sqm	

S No.	Description and details of work	Qty.	Unit
29	Painting on old work (one or more coats) to give an even shade with: Satin synthetic enamel paint	34.65	Sqm
30	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
31	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
32	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 :	4.00	Nos
33	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 ll fittings and fixtures complete including cutting and making good the walls and floors wherever required : White pedestal type	4.00	Each
34	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 : White Size 550x450 mm	3.00	Nos
35	Towel rail (600mm long x 20mm dia)	4.00	Each
36	Chequerred precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	13.50	Sqm
37	Designing, providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade (NORTON or equivalent), on aluminium sections for fixing aluminium/ glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete.	80.00	Kg
38	Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium frame work on face of building. (Frame to be paid separately)	20.00	Sqm
39	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	65.00	Kg
40	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes.	48.00	Metre
41	25 mm nominal outer dia .Pipes.	48.00	Metre

S.No.	Description and details of work	Qty.	Unit
42	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and --- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr.
43	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	20.00	Nos
Rain Water Harvesting			
44	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of --- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum
45	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.38	Cum
46	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	Nos
47	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1cement :1 1/2 coarse sand :3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
48	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	9.00	Cum
49	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	55.00	Kg
50	Electrification Work Lum-Sum	25000.00	Rs
Non Sor Item			
1	Slogan Painting & Informative board writing work.	75.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai (C.G)


Asstt. Engineer
Municipal Corporation
Bhilai (C.G)


Sub Engineer
Municipal Corporation
Bhilai (C.G)

MUNICIPAL CORPORATION BHILAI (C.G.)

NIT

कार्य का नाम :- वार्ड-05 भिलाई नगर रेल्वे स्टेशन के पास सामुदायिक शौचालय का संधारण कार्य।

Pwd Building Sor 01.01.2015 & Elecetric Sor 01.06.2020, Non Sor

S.No.	Description and details of work	Qty.	Unit
1	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.	20.00	Kg
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	30.00	Kg
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :	10.00	Metre
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	2.00	Nos
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design: 100 mm diameter S.W. pipe	6.00	Metre
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	Kg
7	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. 110 mm dia pipe.	15.00	Metre
8	150 mm dia pipe.	15.00	Metre
9	Neat Cement punning.	12.00	Sqm
10	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	45.90	Sqm
11	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	1.68	Cum
12	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	8.00	Each
13	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	34.30	Sqm
14	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	55.50	Sqm
15	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	99.60	Sqm

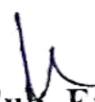
S.No.	Description and details of work	Qty.	Unit
16	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	0.54	Cum
17	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Nos
18	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). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.41	Cum
19	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.	1.58	Cum
20	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	32.40	Kg
21	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)	0.60	Cum
22	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete.	2.70	Sqm
23	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm 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 upto 200x300mm	14.40	Sqm
24	Distempering with acrylic washable distemper to give an even shade. On old work (one or more coats)	100.00	Sqm
25	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
26	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:	393.60	Sqm
27	Painting on old work (one or more coats) to give an even shade with: Satin synthetic enamel paint	11.55	Sqm
28	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	4.00	Each
29	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 :	3.00	Nos

No.	Description and details of work	Qty.	Unit
30	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 II fittings and fixtures complete including cutting and making good the walls and floors wherever required : White pedestal type	2.00	Each
31	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 : White Size 550x450 mm	2.00	Nos
32	Towel rail (600mm long x 20mm dia)	4.00	Each
33	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	12.00	Sqm
34	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	Kg
35	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes.	20.00	Metre
36	25 mm nominal outer dia .Pipes.	20.00	Metre
37	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and --- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr.
38	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	16.00	Nos
Rain Water Harvesting			
39	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of --- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum
40	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.38	Cum
41	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	Nos

S.No.	Description and details of work	Qty.	Unit.
42	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1cement :1 1/2 coarse sand :3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
43	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	13.50	Cum
44	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	60.00	Kg
45	Electrification Work Lum-Sum	15000.00	Rs
	Non Sor Item		
1	Slogan Painting & Informative board writing work.	42.00	Sqm

**Executive Engineer
Municipal Corporation
Bhilai (C.G)**


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


**Sub. Engineer
Municipal Corporatio
Bhilai (C.G)**

MUNICIPAL CORPORATION BHILAI (C.G.)

NIT

कार्य का नाम :- वार्ड-06 संजय नगर कुम्हार पारा के पास सामुदायिक शौचालय का संधारण कार्य।

Pwd Building Sor 01.01.2015 & Elecetric Sor 01.06.2020, Non Sor

S.No.	Description and details of work	Qty.	Unit
1	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.	20.00	Kg
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	45.00	Kg
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :	10.00	Metre
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	4.00	Nos
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design: 100 mm diameter S.W. pipe	12.00	Metre
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	Kg
7	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. 110 mm dia pipe.	25.00	Metre
8	150 mm dia pipe.	25.00	Metre
9	Neat Cement punning.	18.00	Sqm
10	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	45.90	Sqm
11	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	1.68	Cum
12	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	8.00	Each
13	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	34.30	Sqm
14	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	222.00	Sqm
15	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	149.40	Sqm

S.No.	Description and details of work	Qty.	Unit
16	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).	0.54	Cum
17	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Nos
18	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.41	Cum
19	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.	1.58	Cum
20	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	32.40	Kg
21	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)	1.20	Cum
22	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete.	2.70	Sqm
23	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm 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 upto 200x300mm	14.40	Sqm
24	Distemping with acrylic washable distemper to give an even shade. On old work (one or more coats)	100.00	Sqm
25	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
26	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:	393.60	Sqm
27	Painting on old work (one or more coats) to give an even shade with: Satin synthetic enamel paint	46.20	Sqm
28	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
29	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 :	3.00	Nos

S.No.	Description and details of work	Qty.	Unit
30	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 ll fittings and fixtures complete including cutting and making good the walls and floors wherever required : White pedestal type	2.00	Each
31	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 : White Size 550x450 mm	2.00	Nos
32	Towel rail (600mm long x 20mm dia)	4.00	Each
33	Chequerred precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	24.00	Sqm
34	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	Kg
35	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes.	10.00	Metre
36	25 mm nominal outer dia .Pipes.	20.00	Metre
37	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and --- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr.
38	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	16.00	Nos
	Rain Water Harvesting		
39	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of --- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum
40	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.38	Cum
41	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	Nos

S.No.	Description and details of work	Qty.	Unit
42	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1cement :1 1/2 coarse sand :3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
43	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	13.50	Cum
44	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	60.00	Kg
45	Electrification Work Lum-Sum	15000.00	Rs
	Non Sor Item		
1	Slogan Painting & Informative board writing work.	60.00	Sqm

**Executive Engineer
Municipal Corporation
Bhilai (C.G)**

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

V
**Sub Engineer
Municipal Corporatio
Bhilai (C.G)**

MUNICIPAL CORPORATION BHILAI (C.G.)

NIT

कार्य का नाम :- वार्ड-06 बर्फ फैक्टरी के पीछे सुविधा 24 शौचालय का संधारण कार्य।

Pwd Building Sor 01.01.2015 & Elecetric Sor 01.06.2020, Non Sor

S.No.	Description and details of work	Qty.	Unit
1	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.	40.00	Kg
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	75.00	Kg
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :	20.00	Metre
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	6.00	Nos
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design: 100 mm diameter S.W. pipe	12.00	Metre
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	Kg
7	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. 110 mm dia pipe.	30.00	Metre
8	150 mm dia pipe.	30.00	Metre
9	Neat Cement punning.	18.00	Sqm
10	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	52.50	Sqm
11	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.02	Cum
12	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10.00	Each
13	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	41.16	Sqm
14	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	277.50	Sqm
15	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	199.20	Sqm

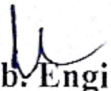
S.No.	Description and details of work	Qty.	Unit
16	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	1.08	Cum
17	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	4.00	Nos
18	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.54	Cum
19	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.	1.58	Cum
20	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	43.20	Kg
21	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)	1.20	Cum
22	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete.	4.50	Sqm
23	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm 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 upto 200x300mm	14.40	Sqm
24	Distempering with acrylic washable distemper to give an even shade. On old work (one or more coats)	100.00	Sqm
25	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
26	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:	393.60	Sqm
27	Painting on old work (one or more coats) to give an even shade with: Satin synthetic enamel paint	46.20	Sqm
28	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
29	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 :	5.00	Nos

No.	Description and details of work	Qty.	Unit
30	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 II fittings and fixtures complete including cutting and making good the walls and floors wherever required : White pedestal type	4.00	Each
31	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 : White Size 550x450 mm	4.00	Nos
32	Towel rail (600mm long x 20mm dia)	8.00	Each
33	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	24.00	Sqm
34	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	Kg
35	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes.	30.00	Metre
36	25 mm nominal outer dia .Pipes.	30.00	Metre
37	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and ---- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr.
38	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	16.00	Nos
Rain Water Harvesting			
39	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of ---- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum
40	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.38	Cum
41	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	Nos

S.No.	Description and details of work	Qty.	Unit
42	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
43	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	13.50	Cum
44	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	60.00	Kg
45	Electrification Work Lum-Sum	15000.00	Rs
	Non Sor Item		
1	Slogan Painting & Informative board writing work.	30.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai (C.G)


Asstt. Engineer
Municipal Corporation
Bhilai (C.G)


Sub-Engineer
Municipal Corporation
Bhilai (C.G)

MUNICIPAL CORPORATION BHILAI (C.G.)

NIT

कार्य का नाम :- वार्ड-06 सुवर मैदान के पास स्थित सामुदायिक शौचालय का संधारण कार्य।

Pwd Building Sor 01.01.2015 & Elecetric Sor 01.06.2020, Non Sor

S.No.	Description and details of work	Qty.	Unit
1	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)	1.10	Cum
2	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.	5.25	Sqm
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :	28.00	Metre
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	4.00	Nos
5	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement. 40 mm thick	60.00	Sqm
6	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design: 100 mm diameter S.W. pipe	36.00	Metre
7	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.	144.00	Kg
8	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	240.00	Kg
9	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	150.00	Kg
10	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. 110 mm dia pipe.	20.00	Metre
11	150 mm dia pipe.	20.00	Metre
12	Neat Cement punning.	30.00	Sqm
13	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	43.50	Sqm

S.No.	Description and details of work	Qty.	Unit.
14	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.02	Cum
15	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	12.00	Each
16	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	41.16	Sqm
17	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	111.00	Sqm
18	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	99.60	Sqm
19	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).	1.08	Cum
20	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:	196.80	Sqm
21	Painting on old work (one or more coats) to give an even shade with: Satin synthetic enamel paint	34.65	Sqm
22	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
23	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
24	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 :	4.00	Nos
25	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 ll fittings and fixtures complete including cutting and making good the walls and floors wherever required : White pedestal type	6.00	Each
26	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 : White Size 550x450 mm	3.00	Nos
27	Towel rail (600mm long x 20mm dia)	4.00	Each
28	Chequerred precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	9.00	Sqm

S No.	Description and details of work	Qty.	Unit
29	Designing, providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade (NORTON or equivalent), on aluminium sections for fixing aluminium/ glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete.	80.00	Kg
30	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Nos
31	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.	2.37	Cum
32	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.81	Cum
33	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	64.80	Kg
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)	1.20	Cum
35	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete.	3.60	Sqm
36	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm 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 upto 200x300mm	38.40	Sqm
37	Distempering with acrylic washable distemper to give an even shade. On old work (one or more coats)	150.00	Sqm
38	Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium frame work on face of building. (Frame to be paid separately)	20.00	Sqm
39	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	65.00	Kg

S.No.	Description and details of work	Qty.	Unit
40	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes.	24.00	Metre
41	25 mm nominal outer dia .Pipes.	24.00	Metre
42	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and ---- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr.
43	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	20.00	Nos
Rain Water Harvesting			
44	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of ---- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum
45	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.38	Cum
46	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	Nos
47	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
48	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	9.00	Cum
49	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	55.00	Kg
50	Electrification Work Lum-Sum	25000.00	Rs
Non Sor Item			
1	Slogan Painting & Informative board writing work.	54.00	Sqm

Rashmi *ll*

MUNICIPAL CORPORATION BHILAI (C.G.)

NIT

कार्य का नाम :- वार्ड-08 धनवंतरी स्कूल के पास सामुदायिक शौचालय का संधारण कार्य।

Pwd Building Sor 01.01.2015 & Elecetric Sor 01.06.2020, Non Sor


S.No.	Description and details of work	Qty.	Unit
1	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)	1.10	Cum
2	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.	5.25	Sqm
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :	28.00	Metre
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	4.00	Nos
5	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement. 40 mm thick	60.00	Sqm
6	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design: 100 mm diameter S.W. pipe	36.00	Metre
7	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.	144.00	Kg
8	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	240.00	Kg
9	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	150.00	Kg
10	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. 110 mm dia pipe.	30.00	Metre
11	150 mm dia pipe.	30.00	Metre
12	Neat Cement punning.	30.00	Sqm
13	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	43.50	Sqm

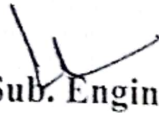
S.No.	Description and details of work	Qty.	Unit
14	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.69	Cum
15	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	12.00	Each
16	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	41.16	Sqm
17	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	111.00	Sqm
18	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	99.60	Sqm
19	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).	1.08	Cum
20	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Nos
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.	2.37	Cum
22	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). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.81	Cum
23	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	64.80	Kg
24	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)	1.20	Cum
25	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete.	3.60	Sqm
26	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm 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 upto 200x300mm	38.40	Sqm
27	Distemping with acrylic washable distemper to give an even shade. On old work (one or more coats)	150.00	Sqm
28	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:	196.80	Sqm

Unit.o.	Description and details of work	Qty.	Unit
29	Painting on old work (one or more coats) to give an even shade with: Satin synthetic enamel paint	34.65	Sqm
30	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
31	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
32	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 :	4.00	Nos
33	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 ll fittings and fixtures complete including cutting and making good the walls and floors wherever required : White pedestal type	6.00	Each
34	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 : White Size 550x450 mm	3.00	Nos
35	Towel rail (600mm long x 20mm dia)	4.00	Each
36	Chequerred precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	9.00	Sqm
37	Designing, providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade (NORTON or equivalent), on aluminium sections for fixing aluminium/ glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete.	80.00	Kg
38	Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium frame work on face of building. (Frame to be paid separately)	20.00	Sqm
39	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	65.00	Kg
40	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes.	36.00	Metre
41	25 mm nominal outer dia .Pipes.	36.00	Metre

S.No.	Description and details of work	Qty.	Unit
42	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and --- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr.
43	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	20.00	Nos
	Rain Water Harvesting		
44	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of --- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum
45	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.38	Cum
46	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	Nos
47	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1cement :1 1/2 coarse sand :3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
48	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	9.00	Cum
49	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	55.00	Kg
50	Electrification Work Lum-Sum	25000.00	Rs
	Non Sor Item		
1	Slogan Painting & Informative board writing work.	48.00	Sqm

**Executive Engineer
Municipal Corporation
Bhilai (C.G)**


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


**Sub. Engineer
Municipal Corporatio
Bhilai (C.G)**

MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड कं. 10 राजीव नगर लक्ष्मी मार्केट के पास शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01 01 2015 & Electric SOR 01 06 2020, Non Sor Item)

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
1	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	11.52	Sqm
2	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	17.60	Sqm
3	Providing and making 12mm thick cement plaster of mix:	19.50	Sqm
4	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floatingcoat of neat cement. 40 mm thick	96.00	Sqm
5	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.	120.00	KG
6	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.	380.00	KG
7	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	35.00	KG
8	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete. Size 300x300mm	96.00	Sqm
9	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm 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.	24.48	Sqm
10	Distemping with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	200.00	Sqm
11	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)	580.00	Sqm

12	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	80.64	Sqm
13	Repairs to plaster in patches of area 2.5 sq. metres and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls with cement mortar 1:4 (1 cement : 4 fine sand) complete including disposal of rubbish to the dumping ground within 50metres lead :	118.00	Sqm
14	Providing and fixing 30mm thick factory made panel PVC door shuttersize of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. rane shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness. 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom complete. (for W.C. and bathroom door shutter).	10.50	sqm

Executive Engineer
Municipal Corporation
Bhilai

Rashmi
Asstt. Engineer
Municipal Corporation
Bhilai

[Signature]
Sub. Engineer
Municipal Corporation
Bhilai



MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड क्र. 11 फरीद नगर गांधी कॉलोनी में सामुदायिक शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01 01 2015 & Electric SOR 01 06 2020, Non Sor Item)

N.	PARTICULERS OF ITEMS	Quantity	UOM
1	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metre lead.	0.54	Cum
2	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	3.00	Cum
3	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	50.00	Sqm
4	Dismantling lime/ cement plaster or skirting at any height raking out joints and cleaning the surface for plaster including disposal of rubbish within 50 metres lead.	300.00	Sqm
5	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10.00	Each
6	Dismantling windows chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10.00	Each
7	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.	0.64	Cum
8	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).	0.16	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).	0.60	Cum
10	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size) + Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	0.24	Cum

11	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 Qty. Of RCC 100.00Kg	84.00	C Kk
12	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:	2.40	Sqm
(D)	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)		
13	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.	2.00	Cum
14	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)	0.50	Cum
15	Providing and fixing aluminium composite panels in approved panel sizes. thickness and shape on aluminium frame work on face of building. (Frame to be paid separately) 3mm thick	52.50	Sqm
16	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	15.00	Sqm
17	Providing and making 12mm thick cement plaster of mix: In Cement mortar 1:5 (1 cement : 5 fine sand)	66.00	Sqm
18	Providing and making 15mm thick cement plaster of mix: In Cement mortar 1:6 (1 cement : 6 fine sand)	78.00	Sqm
19	Neat Cement punning	37.50	Sqm
20	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement. 40 mm thick	37.50	Sqm
21	Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and----- --PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per Manufacturer's specification including 3 nos ISI marked stainless steel hinges of size 100x58x1.9 mm complete. (for W.C. and bathroom door shutter). PVC door shutter	10.50	Sqm
22	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges. .35 mm. thick (single leaf)	2.10	Sqm



3

	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges. 25 mm. thick (double leaf for cupboard shutters with piano type hinges)	1.08	Sqm
24	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and ascompacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer. Single rebate/ mullion 80mmx50mm size, 1.6mm thick sheet	8.40	Metre
25	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. @20.00Kg/Sqm	128.40	Kg
26	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. @40.00Kg Sqm	256.80	Kg
27	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete. SS Grade 304 40 mm dia	35.60	Kg
28	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side having 12 mm air gap including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. complete.	7.20	Sqm
29	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.	104.80	Sqm
30	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete.	22.50	Sqm

31	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm 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.	12.00	Sqm
32	Chequerred precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Dark shade using ordinary cement	8.00	Sqm
35	Providing and applying 2 mm thick ready mix exterior grade putty (manufactured with cow dung processing) on walls to make the surface smooth and even	78.00	Sqm
36	Wall painting with premium emulsion (plastic) manufactures with the cow dung processing emulsion paint of required shade to give an even shade As Per Qty. of 15 mm Thick Plaster	78.00	Sqm
37	Wall painting with premium emulsion (plastic) manufactures with the cow dung processing emulsion paint of required shade to give an even shade One old work (One or more coats) As Per Qty. of 15 mm Thick Plaster	78.00	Sqm
38	Distempering with washable distemper manufacture with the cow dung processing to give an even shade One new work (Two or more coats)	81.00	Sqm
39	Distempering with washable distemper manufacture with the cow dung processing to give an even shade	81.00	Sqm
40	Painting on new work (two or more coats) to give an even shade with: Premium synthetic enamel paint.	1.35	Sqm
41	Painting on old work (one or more coats) to give an even shade with: Premium synthetic enamel paint.	1.35	Sqm
42	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).	0.26	Cum
	Add 8% For Electrification	29382.00	Rs.
	Add 6.00% For Water supply & Sanitation work	18364.00	Rs.

Executive Engineer
Municipal Corporation
Bhilai

Asstt. Engineer
Municipal Corporation
Bhilai

Sub. Engineer
Municipal Corporation
Bhilai



MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड क्रमांक 13 में मंगल बाजार कोहका में सामुदायिक शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01.01.2015 & Electric SOR 01 06.2020, Non Sor Item)

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
1	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metre lead.	0.54	Cum
2	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	3.00	Cum
3	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	50.00	Sqm
4	Dismantling lime/ cement plaster or skirting at any height raking out joints and cleaning the surface for plaster including disposal of rubbish within 50 metres lead.	300.00	Sqm
5	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10.00	Each
6	Dismantling windows chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10.00	Each
7	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.	0.75	Cum
8	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).	0.15	Cum
13	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.	0.90	Cum
14	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)	0.20	Cum
16	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	7.50	Sqm

S.N.	PARTICULARS OF ITEMS	Quantity	UOM
17	Providing and making 12mm thick cement plaster of mix: In Cement mortar 1:5 (1 cement : 5 fine sand)	16.50	Sqm
18	Providing and making 15mm thick cement plaster of mix: In Cement mortar 1:6 (1 cement : 6 fine sand)	39.00	Sqm
19	Neat Cement punning	70.00	Sqm
20	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.	45.00	Sqm
25	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.	50.00	Kg
26	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.	904.80	Kg
27	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete. SS Grade 304	10.00	Kg
	40 mm dia		
29	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.	45.50	Sqm
30	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete.	1.00	Sqm
31	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm 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.	6.00	Sqm

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 & courtyard jointed with
 to match
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 mm thick bed of c
 Dark shade
 Prov:
 c.

UOM	PARTICULERS OF ITEMS	Quantity	UOM
Sqm	Required precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Dark shade using ordinary cement	8.00	Sqm
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. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	0.13	Cum
35	Providing and applying 2 mm thick ready mix exterior grade putty (manufactured with cow dung processing) on walls to make the surface smooth and even	9.00	Sqm
37	Wall painting with premium emulsion (plastic) manufactures with the cow dung processing emulsion paint of required shade to give an even shade One old work (One or more coats) As Per Qty. of 15 mm Thick Plaster	40.00	Sqm
38	Distemping with washable distemper manufacture with the cow dung processing to give an even shade	250.00	Sqm
	One new work (Two or more coats)	250.00	Sqm
39	Distemping with washable distemper manufacture with the cow dung processing to give an even shade	350.00	Sqm
	One old work (One or more coats)		
40	Painting on new work (two or more coats) to give an even shade with: Premium synthetic enamel paint.	25.20	Sqm
	For Electrification	15000.00	Rs
	For Water supply & Sanitation work	14000.00	Rs

Executive Engineer
Municipal Corporation
Bhilai

Asstt. Engineer
Municipal Corporation
Bhilai

Sub. Engineer
Municipal Corporation
Bhilai



MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड 17 सुपेला चौक के पास स्थित आधुनिक शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01 01 2015 & Electric SOR 01 06 2020, Non Sor Item)

S.N.	PARTICULARS OF ITEMS	Quantity	UOM
1	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.	20.00	KG
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	45.00	KG
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	10.00	METER
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	2.00	NOS
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:100 mm diameter S.W. pipe	6.00	METER
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	KG
7	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. 110 mm dia	15.00	METER
	150 mm dia	15.00	METER
8	Neat Cement punning.	12.00	Sqm
9	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base. 6*2 6*1	45.90	Sqm
10	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	1.68	Cum
11	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	6.00	Each

12	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	34.30	Sqm
13	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)	166.50	Sqm
14	Providing and making 12mm thick cement plaster of mix:	149.40	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	0.54	Cum
16	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Each
17	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement	0.41	Cum
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.	1.58	Cum
19	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 @ 80.00 Kg/ m	32.40	KG
20	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).	0.80	Cum
21	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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. complete. Size 300x300mm	2.70	Sqm
22	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm	14.40	Sqm

23	Distemping with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	100.00	Sqm
24	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
25	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)	196.80	Sqm
26	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	34.65	Sqm
27	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
28	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	3.00	Each
29	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 : White pedestal type	2.00	Each
30	Providing and fixing vitreous china wash basin with C.I. brackets. 32mm C.P. brass waste of standard pattern, including painting of brackets. cutting and making good the walls wherever required : White Size 550x450 mm	2.00	Each
31	Towel rail (600mm long x 20mm dia)	4.00	Each
32	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	12.00	Sqm
33	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	Kg

WATER SUPPLY WORKS

34	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.		
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	15 mm nominal outer dia .Pipes.	10.00	METER
	25 mm nominal outer dia .Pipes.	10.00	METER
35	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and --- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr
36	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	8.00	NOS
Rain water Harvesting			
37	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of --- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.	3.38	Cum
38	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.68	Cum
39	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	NOS
40	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar, 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement	0.32	Cum
41	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	6.75	Cum
42	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	60.00	Kg
43	Electrification Work		
	As electric SOR 01.06.2020 Lum-Sum	12000.00	Rs
44	NON SOR ITEM Slogan Painting & Informative board writing work.	24.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai

Asstt. Engineer
Municipal Corporation
Bhilai

Sub Engineer
Municipal Corporation
Bhilai



MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड 17 लाल बहादुर शास्त्री के पीछे सामुदायिक शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01.01.2015 & Electric SOR 01.06.2020, Non Sor Item)

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
1	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.	20.00	Kg
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	45.00	Kg
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	10.00	m
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	2.00	No.
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:100 mm diameter S.W. pipe	6.00	m
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	kg
7	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.	50.00	m
8	Neat Cement punning.	12.00	Sqm
9	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	45.90	Sqm
10	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	1.68	Cum

11	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	8.00	Each
12	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	34.30	Sqm
13	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)	222.00	Sqm
14	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	149.40	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	0.54	Cum
16	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Each
17	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.41	Cum
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.	1.58	Cum
19	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	32.40	kg
20	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).	1.20	Cum
21	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete. Size 300x300mm	2.70	Sqm

22	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm	14.40	Sqm
23	Distemping with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	100.00	Sqm
24	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
25	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)	393.60	Sqm
26	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	46.20	Sqm
27	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
28	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	3.00	Each
29	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 : White pedestal type	2.00	Each
30	Providing and fixing vitreous china wash basin with C.I. brackets, 32mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : White Size 550x450 mm	2.00	Each
31	Towel rail (600mm long x 20mm dia)	4.00	Each
32	Chequerred precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	12.00	Sqm
33	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	kg

WATER SUPPLY WORKS

34	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes. 25 mm nominal outer dia Pipes	20.00	m
35	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and ---- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr
36	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	8.00	no
Rain water Harvesting			
37	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of ---- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum
38	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately). Stone boulders of size range 5 cm to 20 cm, in recharge pit Gravels of size range 5 mm to 10 mm, over the existing layer of boulders Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	2.03	Cum
39	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	nos
40	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum

41	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	13.50	Cum
42	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	60.00	Kg
43	Electrification Work		
	As electric SOR 01.06.2020 Lum-Sum	15000.00	Rs
44	NON SOR ITEM Slogan Painting & Informative board writing work.	30.00	Sqm

**Executive Engineer
Municipal Corporation
Bhilai**

Rashmi
**Asstt.Engineer
Municipal Corporation
Bhilai**

[Signature]
**Sub. Engineer
Municipal Corporation
Bhilai**

MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड 17 आकाश गंगा ज्वेलरी लाईन के पास स्थित सामुदायिक शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01/01/2015 & Electric SOR 01/06/2020, Non Sor Item)

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
1	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.	20.00	KG
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	45.00	KG
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	10.00	METER
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	2.00	NOS
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design: 100 mm diameter S.W. pipe	6.00	METER
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	KG
7	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. 110 mm dia	15.00	METER
	150 mm dia	15.00	METER
8	Neat Cement punning.	12.00	Sqm
9	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base. 6*2 6*1	45.90	Sqm
10	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	1.68	Cum
11	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	6.00	Each

12	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	34.30	Sqm
13	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)	166.50	Sqm
14	Providing and making 12mm thick cement plaster of mix:	149.40	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	0.54	Cum
16	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Each
17	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.41	Cum
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.	1.58	Cum
19	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 @ 80.00 Kg / m	32.40	KG
20	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).	0.80	Cum
21	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete. Size 300x300mm	2.70	Sqm
22	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm	14.40	Sqm

	Distemping with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	100.00	Sqm
24	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
25	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)	196.80	Sqm
26	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	34.65	Sqm
27	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
28	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	3.00	Each
29	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 : White pedestal type	2.00	Each
30	Providing and fixing vitreous china wash basin with C.I. brackets, 32mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : White Size 550x450 mm	2.00	Each
31	Towel rail (600mm long x 20mm dia)	4.00	Each
32	Chequerred precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	12.00	Sqm
33	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	Kg
WATER SUPPLY WORKS			
34	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.		

	15 mm nominal outer dia .Pipes.	10.00	METER
	25 mm nominal outer dia .Pipes.	10.00	METER
35	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and ---- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr
36	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	8.00	NOS
Rain water Harvesting			
37	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of ---- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.	3.38	Cum
38	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.68	Cum
39	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	NOS
40	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement :1 1/2 coarse sand :3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar, 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement	0.32	Cum
41	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	6.75	Cum
42	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	60.00	Kg
43	Electrification Work		
	As electric SOR 01.06.2020 Lum-Sum	12000.00	Rs
44	NON SOR ITEM Slogan Painting & Informative board writing work.	24.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai

Asstt. Engineer
Municipal Corporation
Bhilai

Sub. Engineer
Municipal Corporation
Bhilai



MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड कं. 17 बच्चन पान ठेला के पास सामुदायिक शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01 01 2015 & Electric SOR 01.06 2020, Non Sor Item)

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
1	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.	40.00	Kg
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	75.00	Kg
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	20.00	meter
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	4.00	nos
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:100 mm diameter S.W. pipe	12.00	meter
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	KG
7	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.		
	110 mm dia	20.00	METER
	150 mm dia	20.00	METER
8	Neat Cement punning.	18.00	Sqm
9	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	52.20	Sqm
10	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.02	Cum
11	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10.00	Each



12	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	41.16	Sqm
13	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	277.50	Sqm
14	Providing and making 12mm thick cement plaster of mix:	199.20	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	1.08	Cum
16	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	4.00	Each
17	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). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.54	Cum
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.	1.58	Cum
19	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	43.20	KG
20	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).	1.20	Cum
21	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete. Size 300x300mm	4.50	Sqm
22	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm	24.00	Sqm
23	Distemping with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	100.00	Sqm
24	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	10.00	Each

	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)	590.40	Sqm
26	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	57.75	Sqm
27	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
28	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	5.00	Each
29	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 : White pedestal type	4.00	Each
30	Towel rail (600mm long x 20mm dia)	8.00	Each
31	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	24.00	Sqm
32	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	KG
33	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.		
	15 mm nominal outer dia .Pipes.	20.00	METER
	25 mm nominal outer dia .Pipes.	20.00	METER
34	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and --- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr
35	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	16.00	No

36	Rain water Harvesting		
37	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of ---- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum
38	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.68	Cum
39	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	nos
40	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:11/2:3 (1cement :11/2 coarse sand :3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
41.00	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	22.50	Cum
	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	60.00	KG
43	Electrification Work		
	As electric SOR 01.06.2020 Lum-Sum	15000.00	Rs
44	NON SOR ITEM Slogan Painting & Informative board writing work	60.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai

Asstt. Engineer
Municipal Corporation
Bhilai

Sub. Engineer
Municipal Corporation
Bhilai



MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड 17 आकाश गंगा प्रेस क्लब तृतीय लिंग शौचालय का संधारण कार्य।

S.N.	PARTICULARS OF ITEMS	Quantity	UOM
1	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.	20.00	Kg
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	45.00	Kg
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	10.00	m
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	2.00	
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:100 mm diameter S.W. pipe	6.00	m
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	Kg
7	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.	30.00	m
8	Neat Cement punning.	12.00	Sqm
9	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	45.90	Sqm
10	Deinolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	1.68	Cum
11	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	6.00	Each

12	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	34.30	Sqm
13	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:	166.50	Sqm
14	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	149.40	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	0.54	Cum
16	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	Each
17	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.41	Cum
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.	1.58	Cum
19	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	32.40	Kg
20	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).	0.40	Cum
21	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete. Size 300x300mm	2.70	Sqm
22	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm	14.40	Sqm
23	Distemping with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	100.00	Sqm
24	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each

25	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)	196.80	Sqm
26	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	11.55	Sqm
27	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
28	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	3.00	Each
29	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 : White pedestal type	2.00	Each
30	Providing and fixing vitreous china wash basin with C.I. brackets, 32mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : White Size 550x450 mm	2.00	Each
31	Towel rail (600mm long x 20mm dia)	4.00	Each
32	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	12.00	Sqm
33	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	Kg

WATER SUPPLY WORKS

34	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes. 25 mm nominal outer dia .Pipes.	40.00	m
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35	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and ---- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr
36	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	16.00	no
Rain water Harvesting			
37	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of ---- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum
38	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).	2.03	Cum
39	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	nos
40	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
41	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	11.25	Cum
42	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	60.00	Kg
43	Electrification Work		
	As electric SOR 01.06.2020 Lum-Sum	12000.00	Rs
44	NON SOR ITEM Slogan Painting & Informative board writing work.	48.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai

Rashmi
Asstt. Engineer
Municipal Corporation
Bhilai

[Signature]
Sub. Engineer
Municipal Corporation
Bhilai



MUNICIPAL CORPORATION OF BHILAI

DETAILED ESTIMATE

कार्य का नाम :- वार्ड-17 आकाश गंगा पी.सी. ज्वेलर्स के पास सामुदायिक शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01.01 2015 & Electric SOR 01.06 2020, Non Sor Item)

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
1	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) Boundary Wall	1.90	Cum
2	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.	5.25	Sqm
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	56.00	METER
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	8.00	nos
5	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floatingcoat of neat cement. 40 mm thick	60.00	Sqm
6	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design: 100 mm diameter S.W. pipe	36.00	METER
7	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.	144.00	Kg
8	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	240.00	Kg
9	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	150.00	kg

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exclud:
1:2

10	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.		
	110 mm dia	20.00	METER
	150 mm dia	20.00	METER
11	Neat Cement punning.	30.00	Sqm
12	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	43.50	Sqm
13	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.02	Cum
14	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	12.00	Each
15	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	41.16	Sqm
16	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	Providing and making 12mm thick cement plaster of mix:	99.60	Sqm
	In Cement Mortar 1:4 (1 cement : 4 fine sand)		
18	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).	1.08	Cum
19	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	3.00	each
20	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.	2.37	Cum
21	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).Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.81	cum
22	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	64.80	Kg
		@ 80 00 Kg / m ³	

	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).	1.20	Cum
24	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete. Size 300x300mm	3.60	Sqm
25	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm	38.40	Sqm
26	Distempering with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	150.00	Sqm
27	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)	196.80	Sqm
28	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	34.65	Sqm
29	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
30	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
31	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	6.00	Each
32	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 : White pedestal type	6.00	Each
33	Providing and fixing vitreous china wash basin with C.I. brackets, 32mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : White Size 550x450 mm	3.00	Each
34	Towel rail (600mm long x 20mm dia)	8.00	Each

35	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	18.00	Sqm
36	Designing, providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade (NORTON or equivalent), on aluminium sections for fixing aluminium/ glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete.	80.00	Kg
37	Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium frame work on face of building. (Frame to be paid separately)	20.00	Sqm
38	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	65.00	Kg

WATER SUPPLY WORKS

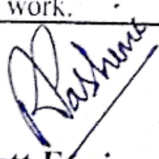
39	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.		
	15 mm nominal outer dia .Pipes.	72.00	METER
	25 mm nominal outer dia .Pipes.	72.00	METER
40	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and ---- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	ltr
41	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	20.00	nos
Rain water Harvesting			
42	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of ---- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum

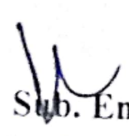


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plying, filling, spreading & leveling stone boulders/ Gravels/
-oarse sand, in recharge pit, in the required layers and thickness, for
all leads & lifts, all complete as per direction of Engineer-in-charge.
(excavation of pit will be paid separately).

43	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.68	Cum
44	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	nos
45	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
46	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	27.00	cum
47	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	55.00	Kg
48	Electrification Work		
	As electric SOR 01.06.2020 Lum-Sum	25000.00	Rs
49	NON SOR ITEM Slogan Painting & Informative board writing work.	72.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai


Asstt. Engineer
Municipal Corporation
Bhilai


Sub. Engineer
Municipal Corporation
Bhilai



MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड 18 सत्संग विहार हरा मैदान के पास स्थित सुविधा 24 शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01 01.2015 & Electric SOR 01 06 2020, Non Sor Item)

S.N.	PARTICULERS OF ITEMS	Quantity	UOM
1	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.	40.00	KG
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	45.00	KG
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	20.00	METER
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	4.00	NOS
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:100 mm diameter S.W. pipe	12.00	METER
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	KG
7	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. 110 mm dia	30.00	METER
	150 mm dia	30.00	METER
8	Neat Cement punning.	18.00	Sqm
9	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base. 6*2 6*1	52.20	Sqm

10	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.02	Cum
11	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10.00	Each
12	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	41.16	Sqm
13	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)	277.50	Sqm
14	Providing and making 12mm thick cement plaster of mix:	199.20	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	1.08	Cum
16	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	4.00	Each
17	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). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement	0.54	Cum
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.	1.58	Cum
19	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 @ 80.00 Kg / m	43.20	KG
20	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).	1.20	Cum
21	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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., complete. Size 300x300mm	4.50	Sqm
22	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm	14.40	Sqm

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24	Distempering with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	100.00	Sqm
24	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each
25	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)	393.60	Sqm
26	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	46.20	Sqm
27	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
28	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	5.00	Each
29	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 : White pedestal type	4.00	Each
30	Providing and fixing vitreous china wash basin with C.I. brackets, 32mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : White Size 550x450 mm	4.00	Each
31	Towel rail (600mm long x 20mm dia)	8.00	Each
32	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	24.00	Sqm
33	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	Kg


WATER SUPPLY WORKS

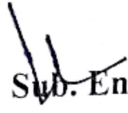
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34	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.		
	15 mm nominal outer dia .Pipes.	30.00	METER
	25 mm nominal outer dia .Pipes.	30.00	METER
35	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and --- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr
36	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	24.00	NOS
Rain water Harvesting			
37	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of ---- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	3.38	Cum
38	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.68	Cum
39	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	NOS
40	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:1 1/2:3 (1 cement : 1 1/2 coarse sand : 3 graded stone aggregate 20 mm nominal size). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.	0.32	Cum
41	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	13.50	Cum

	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	60.00	Kg
43	Electrification Work		
	As electric SOR 01.06.2020 Lum-Sum	15000.00	Rs
44	NON SOR ITEM Slogan Painting & Informative board writing work.	42.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai


Asstt. Engineer
Municipal Corporation
Bhilai


Sub. Engineer
Municipal Corporation
Bhilai

MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम :- वार्ड 17 पृथ्वी इलेक्ट्रिकल के पास स्थित सामुदायिक शौचालय का संधारण कार्य।

(As Per PWD Building SOR 01 01 2015 & Electric SOR 01 06 2020, Non Sor Item)

S.N.	PARTICULARS OF ITEMS	Quantity	UOM
1	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.	40.00	KG
2	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.	45.00	KG
3	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter	2.00	METER
4	Providing and constructing brick masonry road gully chamber 50x45x60cm with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 x 450 mm precast R.C.C. horizontal grating with frame complete as per standard design.	4.00	NOS
5	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete 150mm thick as per standard design:100 mm diameter S.W. pipe	12.00	METER
6	Providing and fixing sliding shutter with M.S. sheet 1mm thick, frame and diagonal braces of 40x40x6mm angle iron, 3.0 mm thick M.S. gusset plates at junctions and corners, 25mm dia pulley, 40x40x6mm angle and T-iron guide at top and bottom respectively including applying a priming coat of red oxide zinc chromate primer.	100.00	KG
7	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. 110 mm dia	30.00	METER
	150 mm dia	30.00	METER
8	Neat Cement punning.	18.00	Sqm
9	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base. 6*2 6*1	52.20	Sqm
10	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	2.02	Cum

11	Dismantling doors chowkhat with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10.00	Each
12	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	41.16	Sqm
13	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)	277.50	Sqm
14	Providing and making 12mm thick cement plaster of mix:	199.20	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	1.08	Cum
16	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	4.00	Each
17	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). Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement	54.00	Cum
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.	1.58	Cum
19	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 @ 80.00 Kg/ m	43.20	KG
20	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).	1.20	Cum
21	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid 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. complete. Size 300x300mm	4.50	Sqm
22	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and --- 12 mm thick bed of cement Mortar 1:3 -----cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. Size upto 200x300mm	14.40	Sqm
23	Distemping with acrylic washable distemper to give an even shade. On oldwork (two or more coats)	100.00	Sqm
24	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete. White	6.00	Each

25 Painting exterior surface of exterior paint of re- specifications to give protection. (One or more coats as per specifications)

26 Painting with: (One or more coats as per specifications)

27 Providing and fixing...

25	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)	393.60	Sqm
26	Painting on old work (two or more coats) to give an even shade with: Satin synthetic enamel paint	46.20	Sqm
27	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia	8.00	Each
28	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	5.00	Each
29	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 : White pedestal type	4.00	Each
30	Providing and fixing vitreous china wash basin with C.I. brackets, 32mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : White Size 550x450 mm	4.00	Each
31	Towel rail (600mm long x 20mm dia)	8.00	Each
32	Chequerred precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tile including cleaning of joint etc complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : Ordinary cement without any pigment	24.00	Sqm
33	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.	50.00	Kg

WATER SUPPLY WORKS

34	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.		
	15 mm nominal outer dia .Pipes.	20.00	METER

	25 mm nominal outer dia. Pipes.	20.00	METER
35	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and --- holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	Ltr
36	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	16.00	NOS
Rain water Harvesting			
37	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of --- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.	3.38	Cum
38	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).		
	Stone boulders of size range 5 cm to 20 cm, in recharge pit	0.68	Cum
	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.68	Cum
	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.68	Cum
39	Providing and fixing 80-100 mm dia PVC ball valve for inlet/ outlet of rain water harvesting pipe and filter.	1.00	NOS
40	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work 1:11/2:3 (1cement :11/2 coarse sand :3 graded stone aggregate 20 mm nominal size), Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement	0.32	Cum
41	Half brick thick honey comb brick work with modular well burnt clay bricks of crushing strength not less than 25 kg/sqcm and water absorption not more than 20% upto plinth level.	13.50	Cum
42	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	60.00	kg
43	Electrification Work		
	As electric SOR 01.06.2020 Lum-Sum	15000.00	Rs
44	NON SOR ITEM Slogan Painting & Informative board writing work.	36.00	Sqm

Executive Engineer
Municipal Corporation
Bhilai

Asstt. Engineer
Municipal Corporation
Bhilai

Sub Engineer
Municipal Corporation
Bhilai

