

Abstract Sheet

Abstract Sheet							
Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details	QTY	UNIT	UNIT RATE	AMOUNT
Excavation (BDA)							
1	BDA1/21.01	726 /194	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means UNDER GROUND	114.48	CUM	217.35	24882.23
2	BDA10/21.36	727 /194	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m to 3.0 m) By Mechanical Means GROUND FLOOR	114.48	CUM	329.70	37744.06
3	BDA10/21.36	726 /194	Providing soling using 80mm. size trap metal in 15cm. layer including filling voids with crused sand/grit, ramming, watering etc. complete. Spec. no. As directed by Engineer in charge . GROUND FLOOR	15.26	CUM	1526.70	23303.55
4	BDA10/21.36	755/ 194	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete GROUND FLOOR	81.54	CUM	126.00	10274.04
5	BDA10/21.37	756/ 194	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete. GROUND FLOOR	110.12	CUM	834.75	91926.01
6	2.28	101/24	Providing Earth work embankment with approved materials obtained from other sources upto lead of 50m including all lifts laying in layers of 20cm to 30 cm thickness breaking clods ,dressing to the requirement lines curves grades ^& sectins watering and compaction with vibrator roller with v-sat attachment to acheive not less than 97% of standard ptoctor density etc complete GROUND FLOOR	540.00	CUM	794.85	429219.00
7	2.29A	102/24	Supplying hard murum /kankar at the road side including conveying and stacking complete GROUND FLOOR	252.00	CUM	627.90	158230.80
8	2.29B	103/24	Supplying soft murum at the road side including conveying and stacking complete GROUND FLOOR	240.00	CUM	614.25	147420.00
9	2.3	104/24	Picking the road surface including sectioning etc. complete (WBM surface.) GROUND FLOOR	240.00	CUM	82.95	19908.00
10	2.34	108/24	Providing dry rubble stone pitching 23cm (9") including all material quarry spalls,labour etc.complete GROUND FLOOR	246.00	SQMT	433.65	106676.90
BD-E : PLAIN CEMENT CONCRETE							

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details	QTY	UNIT	UNIT RATE	AMOUNT
11	BDE2/24.04	833/215	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for plain or molded sills, cornice, jambs, block in course, or architraves of required size and shapes including steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided,finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
			GROUND FLOOR	11.45	CUM	6676.95	76437.72
BD -F : REINFORCED CEMENT CONCRETE							
12	BDF3/25.11	841/219	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
			BELOW GROUND	8.64	CUM	7104.00	61378.56
13	BDF5/25.31	846/221	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
			GROUND FLOOR	21.76	CUM	14472.15	314942.93
14	BDF6/25.50	851/223	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
			GROUND FLOOR	21.28	CUM	12882.45	274133.38
15	BDF9/26.05	856/225	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
			GROUND FLOOR	1.12	CUM	14682.15	16479.25

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details	QTY	UNIT	UNIT RATE	AMOUNT
16	BDF12/26.23	867/229	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate				
			GROUND FLOOR	4.94	CUM	7549.50	37301.02
17	BDF17/26.33	876/233	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.				
			GROUND FLOOR	10.30	MT	94188.15	970493.60

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details	QTY	UNIT	UNIT RATE	AMOUNT
BD -G : BRICK WORK							
18	BDG 1/27.01	894/242	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.				
			GROUND FLOOR	16.11	CUM	8142.75	131191.92
19	BDG 5/27.05	897/242	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete				
			GROUND FLOOR	65.52	CUM	8393.70	549956.06
BD -L : PLASTERING & POINTING							
20	BDL2/ 32.03	962/256	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc.				
			GROUND FLOOR	284.87	SQ.MT	284.55	81059.76
21	BDL 7/ 32.11	968/257	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.				
			GROUND FLOOR	378.27	SQ.MT	670.95	253800.26
BDM 1:- PAVING FLOORING AND DADO							
22	BDM-1	1023/270	Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete				
			GROUND FLOOR	478.80	SQ.MT	1537.20	736011.36
BD -P: COLOUR/WHITE WASHING, DESTEMPERING							
23	BDP 1A	1103/ 284	Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by				
			GROUND FLOOR	284.87	SQ.MT	12.60	3589.36
24	BDP 5A	1111/284	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces.				
			GROUND FLOOR	378.27	SQ.MT	50.40	19064.81
25	BDW	1090 /281	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary,				
			GROUND FLOOR	378.27	SQ.MT	101.85	38526.80
26	BDW	742 /197	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area				
			GROUND FLOOR	478.80	SQ.MT	112.35	53793.18
BD -U: IRON WORK							
27	BDU 1/ 40.1	1296/329	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.				
			GROUND FLOOR	12.78	SQ.MT	2201.85	28139.64
BD -C : STRUCTURAL STEEL WORK							

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details	QTY	UNIT	UNIT RATE	AMOUNT
28	BDC/23.07	827/219	Supplying, fabricating, erecting and fixing in position of steel structures at all elevations using fusion welding quality steel E-350 (Fe490) conforming to IS:2062 - 2006. Rate shall include cost of cutting, welding, splice plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in position welded/bolted Structural steelwork in columns, beams, trusses, purlins, platforms, ladders, monorails, staircases ,supports, strengthening of steel members etc. at site to line and level, supply of approved bolts/nuts/washers etc. complete as per drawings including painting as per G4/G5/G6 before erection and all materials and labour charges etc., complete and including Sand blasting & painted with 1 coats of enamel paint (Berger EPILUX SG – HHI 664002) of 35-50 micron each coat with air less spray gun over a coat of zinc chromate primer - 35-50 micron etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge / Construction Manager. (The rate quoted shall include cost of bolts, nuts, washers, welding and electrodes required for the complete work).				
			GROUND FLOOR	10.31	MT	120572.55	1242814.39
29	BDR5/38.04	1150/286	Supply & Fixing of PPGI sheets of 0.5 mm thick as shown in drawing or as directed by engineer incharge with all necessary accessories.				
			GROUND FLOOR	806.70	SQMT	1195.95	964772.87
30	BDT55/39.24	1222/307	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear)				
			GROUND FLOOR	35.20	SQMT	5070.45	178479.84
31	As directed by Engineer in charge	1563/399	Supplying, fabricating and erecting in position PPGI Eaves Gutter of required size with stop ends,all fixing accessories, drop ends, etc., at all elevations levels & heights including aligning, leveling, providing and fixing bolts, nuts, washers etc., conforming to latest specification including straightening, cutting, welding, bending to shape, bolting etc., complete and as directed as per engineer incharge / Construction Manager.				
			GROUND FLOOR	65.00	RMT	525.00	34125.00
32	As directed by Engineer in charge	1563/399	Providing and fixing of the rain water down take pipes of PPGI, the sectional area of rain water down take pipes provided shall be generally at the rate of 1 square cm per 70 to 80 square decimetre of roof area drained. No spout shall be less than 80 mm in diameter. The spacing of spouts shall be arranged to suit the position of openings in the wall including necessary accessories for fixing the pipe and including all materials and labour charges etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge / Construction Manager.				
			GROUND FLOOR	80.00	RMT	315.00	25200.00
33	IRC 67 2015	307/89	Supply & Fixing of 2mm thk polycarbonate sheets as per drawing & as directed by engineer in-charge.				
			GROUND FLOOR	23.04	SQ.MT	2616.60	60286.46

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34	IRC 67 2015	307/89	Supply & Fixing of turbo ventilator with 610 mm throat, having base ring & top plate in stainless steel of 0.8 mm thick, rotated using twin bearings of SKF - 600122 & 600322 permanently lubricated & sealed. Fixed in FRP base plate of 2mm thk clear 1.020 mtr wide & 1.7 mtr long.				
			GROUND FLOOR	8.00	NO	2520.00	20160.00
35	As directed by	1563/399	Management Strategies and Implementation Plan (MSIP) to manage the Environmental, Social, Health and Safety (ESHS) risks and ESHS Code of Conduct				
			GROUND FLOOR	1.00	NO	42000.00	42000.00
TOTAL AMOUNT FOR ARCHITECTURAL WORK							7263722.75

ARCHITECTURAL MEASUREMENT SHEET

MEASUREMENT SHEET FOR INDIVIDUAL ITEM

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details						
Excavation (BDA)									
1	BDA1/21.01	726 /194	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	BUILDING WORK	24.00	1.50	1.80	1.50	97.20	CUM
				8.00	1.20	1.20	1.50	17.28	CUM
			TOTAL					114.48	CUM
2	BDA1/21.01	727 /194	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m to 3.0 m) By Mechanical Means						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	BUILDING WORK	24.00	1.50	1.80	1.50	97.20	CUM
				8.00	1.20	1.20	1.50	17.28	CUM
			TOTAL					114.48	CUM
3	BDA1/21.01	725/ 189	Providing soiling using 80mm. size trap metal in 15cm. layer including filling voids with crushed sand/grit, ramming, watering etc. complete. Spec. no. As directed by Engineer in charge .						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	BUILDING WORK	24.00	1.50	1.80	0.20	12.96	CUM
				8.00	1.20	1.20	0.20	2.30	CUM
			TOTAL					15.26	CUM
4	BDA10/ 21.36	755/ 194	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	BUILDING WORK	24.00	1.50	1.80	0.15	9.72	CUM
		2	Below Floor	1.00	31.50	15.20	0.15	71.82	CUM
			TOTAL QTY FOR MURUM FILLING					81.54	CUM
5	BDA10/ 21.37	756/ 194	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Below Floor	1.00	31.50	15.20	0.23	110.12	CUM
			TOTAL QTY FOR MURUM FILLING					110.12	CUM
6	2.28	101/24	Providing Earth work embankment with approved materials obtained from other sources upto lead of 50m including all lifts laying in layers of 20cm to 30 cm thickness breaking clods ,dressing to the requirement lines curves grades A& sections watering and compaction with vibrator roller with v-sat attachment to acheive not less than 97% of standard ptoctor density etc complete						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details							
			1	Land Leveling	1.00	18.00	40.00	0.45	324.00	CUM
			2	Road Leveling	1.00	40.00	12.00	0.45	216.00	CUM
			TOTAL QTY FOR MURUM FILLING						540.00	CUM
7	2.29A	102/24	Supplying hard murum /kankar at the road side including conveying and stacking complete							
				DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			1	Land Leveling	1.00	18.00	40.00	0.21	151.20	CUM
			2	Road Leveling	1.00	40.00	12.00	0.21	100.80	CUM
			TOTAL QTY FOR MURUM FILLING						252.00	CUM
8	2.29B	103/24	Supplying soft murum at the road side including conveying and stacking complete							
				DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			1	Land Leveling	1.00	18.00	40.00	0.20	144.00	CUM
			2	Road Leveling	1.00	40.00	12.00	0.20	96.00	CUM
			TOTAL QTY FOR MURUM FILLING						240.00	CUM
9	2.3	104/24	Picking the road surface including sectioning etc. complete (WBM surface.)							
				DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			1	Land Leveling	1.00	18.00	40.00	0.20	144.00	CUM
			2	Road Leveling	1.00	40.00	12.00	0.20	96.00	CUM
			TOTAL QTY FOR MURUM FILLING						240.00	CUM
10	2.34	108/24	Providing dry rubble stone pitching 23cm (9") including all material quarry spalls,labour etc.complete							
				DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			1	Land Leveling	1.00	18.00	40.00	0.21	147.60	SQMT
			2	Road Leveling	1.00	40.00	12.00	0.20	98.40	CUM
			TOTAL QTY FOR MURUM FILLING						246.00	SQMT
BD-E : PLAIN CEMENT CONCRETE										
11	BDE2/ 24.04	833/ 215	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for plain or molded sills, cornice, jambs, block in course, or architraves of required size and shapes including steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided,finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)							
				DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			1	Building Work	24.00	1.50	1.80	0.15	9.72	CUM
					8.00	1.20	1.20	0.15	1.73	CUM
			TOTAL QTY FOR PCC						11.45	CUM
BD -F : REINFORCED CEMENT CONCRETE										

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details						
12	BDF3/ 25.11	841/219	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Building Work	24.00	0.90	1.20	0.30	7.78	CUM
				8.00	0.60	0.60	0.30	0.86	CUM
			TOTAL					8.64	CUM
13	BDF5/ 25.31	846/221	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Building Work	24.00	0.30	0.45	3.00	9.72	CUM
		2	Building Work	24.00	0.30	0.45	3.05	9.88	CUM
		2	UPTO PLINTH	8.00	0.30	0.30	3.00	2.16	CUM
			TOTAL QUANTITY OF COLUMNS					21.76	CUM
14	BDF6/ 25.50	c	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)						
			Building Work						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Plinth PB1	2.00	31.50	0.23	0.30	4.35	CUM
				10.00	15.20	0.23	0.30	10.49	CUM
			Top Level	2.00	31.50	0.23	0.30	4.35	CUM
				2.00	15.20	0.23	0.30	2.10	CUM
			Total Qty For Ground Floor					21.28	CUM
			TOTAL QUANTITY FOR PLINTH BEAMS AND COPING					21.28	CUM
15	BDF9/ 26.05	856/225	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Window/Door	10.00	2.44	0.46	0.10	1.12	CUM
			Total Qty For Ground Floor					1.12	CUM
			TOTAL QUANTITY OF chajja					1.12	CUM

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16	BDF12/26.23	867/229	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/pumping, compacting , curing , finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Long Wall	2.00	31.50	0.23	0.23	3.33	CUM
			short Wall	2.00	15.20	0.23	0.23	1.61	CUM
			Total Qty For Ground Floor					4.94	CUM
			TOTAL QUANTITY OF Coping					4.94	CUM
17	BDF17/ 26.33	876/233	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.						
			STEEL						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Building Work	1.00	478.80	10.76	5151.89	10303.78	
			TOTAL QUANTITY OF STEEL					10.30	MT
BD -G : BRICK WORK									
18	BDG 1/27.01	894/242	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Long Wall	2.00	31.50	0.23	0.75	10.87	CUM
			short Wall	2.00	15.20	0.23	0.75	5.24	CUM
			Total					16.11	CUM
			TOTAL QUANTITY OF BRICK WORK					16.11	CUM
19	BDG 5/27.05	897/242	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Long Wall	2.00	31.50	0.23	3.05	44.19	CUM
			short Wall	2.00	15.20	0.23	3.05	21.33	CUM
			Total					65.52	CUM
			Total Qty For Ground Floor					65.52	CUM
			TOTAL QUANTITY OF BRICK WORK					65.52	CUM
BD -L: PLASTERING AND POINTING									
20	BDL2/ 32.03	962/256	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Internal Plaster	2.00	31.50		3.05	192.15	SQ.MT
				2.00	15.20		3.05	92.72	SQ.MT
			Total					284.87	SQ.MT

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details						
			Total Qty For Ground Floor					284.87	SQ.MT
			TOTAL QUANTITY OF INTERNAL PLASTER					284.87	SQ.MT
21	BDL 7/ 32.11	968/257	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Building Work	2.00	31.50		4.05	255.15	SQ.MT
				2.00	15.20		4.05	123.12	SQ.MT
			Total					378.27	SQ.MT
			Total Qty For Ground Floor					378.27	SQ.MT
			TOTAL QUANTITY OF EXTERNAL PLASTER					378.27	SQ.MT
BDM 1:- PAVING FLOORING AND DADO									
22	BDM-1	1023/270	Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			M30 FLOORING	1.00	31.50	15.20		478.80	SQ.MT
			TOTAL QUANTITY OF M30 FLOORING					478.80	SQ.MT
BD -P: COLOUR/WHITE WASHING, DESTEMPERING									
23	BDP 1A	1103/ 284	Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			TOTAL QUANTITY OF INTERNAL PLASTER					284.87	SQ.MT
			TOTAL QUANTITY OF CEMENT PAINT					284.87	SQ.MT
24	BDP 5A	1111/284	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			TOTAL QUANTITY OF INTERNAL PLASTER					378.27	SQ.MT
			TOTAL QUANTITY OF CEMENT PAINT					378.27	SQ.MT
25	BDW	1090 /281	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary,						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			TOTAL QUANTITY OF EXTERNAL PLASTER					378.27	SQ.MT
			TOTAL QUANTITY OF CEMENT PAINT					378.27	SQ.MT
26	BDW	742 /197	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrisfos per square meter of surface area covering 10 years guarantee on bond paper.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			Antitermite	1.00	31.50	15.20		478.80	SQ.MT

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details							
			TOTAL QUANTITY OF TREATMENT					478.80	SQ.MT	
BD -U: IRON WORK										
27	BDU 1/ 40.1	1296/329	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.							
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT	
		1	M.S Grill							
			W1	10.00	2.13		0.60	12.78	SQ.MT	
			Total Qty For Ground Floor					12.78	SQ.MT	
			TOTAL QUANTITY OF M.S GRILL					12.78	SQ.MT	
BD -C : STRUCTURAL STEEL WORK										
28	BDC/23.07	827/219	Supplying, fabricating, erecting and fixing in position of steel structures at all elevations using fusion welding quality steel E-350 (Fe490) conforming to IS:2062 - 2006. Rate shall include cost of cutting, welding, splice plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in position welded/bolted Structural steelwork in columns, beams, trusses, purlins, platforms, ladders, monorails, staircases ,supports, strengthening of steel members etc. at site to line and level, supply of approved bolts/nuts/washers etc. complete as per drawings including painting as per G4/G5/G6 before erection and all materials and labour charges etc., complete and including Sand blasting & painted with 1 coats of enamel paint (Berger EPILUX SG – HHI 664002) of 35-50 micron each coat with air less spray gun over a coat of zinc chromate primer - 35-50 micron etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge / Construction Manager. (The rate quoted shall include cost of bolts, nuts, washers, welding and electrodes required for the complete work).							
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT	
		1	Building Work	1.00	31.50	15.20	478.80	5153.80		
								10307.61		
			TOTAL QUANTITY OF STEEL					10.31	MT	
29	BDR5/38.04	1150/286	Supply & Fixing of PPGI sheets of 0.5 mm thick as shown in drawing or as directed by engineer incharge with all necessary accessories.							
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT	
		1	Building Work	1.00	32.50	16.20		526.50	SQMT	
				2.00	31.50	3.00		189.00	SQMT	
				2.00	15.20	3.00		91.20	SQMT	
			TOTAL QUANTITY OF SHEET					806.70	SQMT	
30	BDT55/39.24	1222/307	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear)							
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT	
		1	Building Work	4.00	3.20	2.75		35.20	SQMT	
			TOTAL QUANTITY OF SHEET					35.20	SQMT	

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details						
31	As directed by Engineer in charge		Supplying, fabricating and erecting in position PPGI Eaves Gutter of required size with stop ends, all fixing accessories, drop ends, etc., at all elevations levels & heights including aligning, leveling, providing and fixing bolts, nuts, washers etc., conforming to latest specification including straightening, cutting, welding, bending to shape, bolting etc., complete and as directed as per engineer incharge / Construction Manager.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Eaves Gutter	2.00	32.50	1.00		65.00	RMT
			TOTAL QUANTITY					65.00	RMT
32	As directed by Engineer in charge		Providing and fixing of the rain water down take pipes of PPGI, the sectional area of rain water down take pipes provided shall be generally at the rate of 1 square cm per 70 to 80 square decimetre of roof area drained. No spout shall be less than 80 mm in diameter. The spacing of spouts shall be arranged to suit the position of openings in the wall including necessary accessories for fixing the pipe and including all materials and labour charges etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge / Construction Manager.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	DOWN TAKE PIPE	8.00	10.00	1.00		80.00	RMT
			TOTAL QUANTITY					80.00	RMT
33	As directed by Engineer in charge	1563/399	Supply & Fixing of 2mm thk polycarbonate sheets as per drawing & as directed by engineer in-charge.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Polycarbonate Sheet	8.00	1.20	2.40		23.04	SQ.MT
			TOTAL QUANTITY					23.04	SQ.MT
34	As directed by Engineer in charge	1563/399	Supply & Fixing of turbo ventilator with 610 mm throat, having base ring & top plate in stainless steel of 0.8 mm thick, rotated using twin bearings of SKF - 600122 & 600322 permanently lubricated & sealed. Fixed in FRP base plate of 2mm thk clear 1.020 mtr wide & 1.7 mtr long.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Turbo Ventilator	8.00				8.00	NO
			TOTAL QUANTITY					8.00	NO
35	As directed by Engineer in charge	1563/399	Management Strategies and Implementation Plan (MSIP) to manage the Environmental, Social, Health and Safety (ESHS) risks and ESHS Code of Conduct						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Safety (ESHS)	1.00				1.00	NO
			TOTAL QUANTITY					1.00	NO

Rate Analysis

Rate Analysis

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details			
Excavation (BDA)						
1	BDA1/21.0 1	726 /194	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means			
			Details	%	Amount	Total
			Basic Rates for 2022-2023		207.00	
			Carporation area	5.0%	10.35	
			Ground Floor		217.35	
						217.35 Rs./ CUM
2	BDA1/21.0 1	727 /194	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m to 3.0 m) By Mechanical Means			
			Details	%	Amount	Total
			Basic Rates for 2022-2023		314.00	
			Carporation area	5.0%	15.70	
			Ground Floor		329.70	
						329.70 Rs./ CUM
3	BDA1/21.0 1	759/ 199	Providing soling using 80mm. size trap metal in 15cm. layer including filling voids with crused sand/grit, ramming, watering etc. complete. Spec. no. As directed by Engineer in charge .			
			Details	%	Amount	Total
			Basic Rates for 2022-2023		1454.00	
			Carporation area	5.0%	72.70	
			Ground Floor		1526.70	
						1526.70 Rs./ CUM
4	BDA10/ 21.36	755/ 194	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete			
			Details	%	Amount	Total
			Basic Rates for 2022-2023		120.00	
			Carporation area	5.0%	6.00	
			Ground Floor		126.00	
						126.00 Rs./ CUM
5	BDA10/ 21.37	756/ 194	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer			
			Details	%	Amount	Total
			Basic Rates for 2022-2023		795.00	
			Carporation area	5.0%	39.75	
			Ground Floor		834.75	
						834.75 Rs./ CUM
6	2.28	101/24	Providing Earth work embenkment with approved materials obtained from other sources upto lead of 50m including all lifts laying in layers of 20cm to 30 cm thickness breaking clods ,dressing to the requirement lines curves grades ^& sectins watering and compaction with vibrator roller with v-sat attachment to acheive not less than 97% of standard pctor density etc complete			
			Details	%	Amount	Total
			Basic Rates for 2022-2023		757.00	
			Carporation area	5.0%	37.85	
			Ground Floor		794.85	

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details			
					794.85	Rs./ CUM
7	2.29A	102/24	Supplying hard murum /kankar at the road side including conveying and stacking complete			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		598.00	
			Carporation area	5.0%	29.90	
			Ground Floor		627.90	
					627.90	Rs./ CUM
8	2.29B	103/24	Supplying soft murum at the road side including conveying and stacking complete			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		585.00	
			Carporation area	5.0%	29.25	
			Ground Floor		614.25	
					614.25	Rs./ CUM
9	2.3	104/24	Picking the road surface including sectioning etc. complete (WBM surface.)			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		79.00	
			Carporation area	5.0%	3.95	
			Ground Floor		82.95	
					82.95	Rs./ CUM
10	2.34	108/24	Provding dry rubble stone pitching 23cm (9") including all material quarry spalls,labour etc.complete			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		413.00	
			Carporation area	5.0%	20.65	
			Ground Floor		433.65	
					433.65	Rs./ CUM
BD-E : PLAIN CEMENT CONCRETE						
11	BDE2/24.04	833/ 215	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for plain or molded sills, cornice, block in course, or architraves of required size and shapes including steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided,finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		6359.00	
			Carporation area	5.0%	317.95	
			Ground Floor		6676.95	
					6676.95	Rs./ CUM
BD -F : REINFORCED CEMENT CONCRETE						
12	BDF3/25.11	841/219	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		7104.00	

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details				
			Corporation area	5.0%	355.20		
			Ground Floor		7459.20		
						7459.20	Rs./ CUM
13	BDF5/25.31	846/221	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		13783.00		
			Corporation area	5.0%	689.15		
			Ground Floor		14472.15		
						14472.15	Rs./ CUM
14	BDF6/25.50	851/223	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		12269.00		
			Corporation area	5.0%	613.45		
			Ground Floor		12882.45		
						12882.45	Rs./ CUM
15	BDF9/26.05	856/225	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		13983.00		
			Corporation area	5.0%	699.15		
			Ground Floor		14682.15		
						14682.15	Rs./ CUM
16	BDF12/26.23	867/229	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		7190.00		
			Corporation area	5.0%	359.50		
			Ground Floor		7549.50		
						7549.50	Rs./ CUM

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details			
17	BDF17/26.33	876/233	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		89703.00	
			Corporation area	5.0%	4485.15	
			Ground Floor		94188.15	
						94188.15 Rs./M.T.
BD -G : BRICK WORK						
18	BDG 1/27.01	894/242	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		7755.00	
			Corporation area	5.0%	387.75	
			Ground Floor		8142.75	
						8142.75 Rs./ CUM
19	BDG 5/27.05	897/242	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		7994.00	
			Corporation area	5.0%	399.70	
			Ground Floor		8393.70	
						8393.70 Rs./ CUM
BD -L: PLASTERING AND POINTING						
20	BDL2/32.03	962/256	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc.			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		271.00	
			Corporation area	5.0%	13.55	
			Ground Floor		284.55	
						284.55 Rs./ SQMT
21	BDL 7/32.11	968/257	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		639.00	
			Corporation area	5.0%	31.95	
			Ground Floor		670.95	
						670.95 Rs./ SQMT
BDM 1:- PAVING FLOORING AND DADO						
22	BDM-1	1023/270	Providing and laying in situ cement concrete M30 with tremix treatment for 200 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		1464.00	
			Corporation area	5.0%	73.20	

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details			
			Ground Floor		1537.20	
					1537.20	Rs./ SQMT
BD -P: COLOUR/WHITE WASHING, DESTEMPERING						
23	BDP6A/36.14	1114/280	Providing and applying white-wash in two coats on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		12.00	
			Carporation area	5.0%	0.60	
			Ground Floor		12.60	
					12.60	Rs./ SQMT
24	BDP6A/36.14	1114/280	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		48.00	
			Carporation area	5.0%	2.40	
			Ground Floor		50.40	
					50.40	Rs./ SQMT
25	BDP6A/36.14	1114/280	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		97.00	
			Carporation area	5.0%	4.85	
			Ground Floor		101.85	
					101.85	Rs./ SQMT
26	BDW	742 /197	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on bond paper.			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		107.00	
			Carporation area	5.0%	5.35	
			Ground Floor		112.35	
					112.35	Rs./ SQMT
BD -U: IRON WORK						
27	BDU 1/40.1	1296/329	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.			
			Details	%	Amount	Total Unit
			Basic Rates for 2022-2023		2097.00	
			Carporation area	5.0%	104.85	
			Ground Floor		2201.85	
					2201.85	Rs./ SQMT
BD -C : STRUCTURAL STEEL WORK						

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details				
28	BDC/23.07	827/219	Supplying, fabricating, erecting and fixing in position of steel structures at all elevations using fusion welding quality steel E-350 (Fe490) conforming to IS:2062 - 2006. Rate shall include cost of cutting, welding, splice plates and packing plates, transporting, straightening, cleaning, fabricating and erecting in position welded/bolted Structural steelwork in columns, beams, trusses, purlins, platforms, ladders, monorails, staircases ,supports, strengthening of steel members etc. at site to line and level, supply of approved bolts/nuts/washers etc. complete as per drawings including painting as per G4/G5/G6 before erection and all materials and labour charges etc., complete and including Sand blasting & painted with 1 coats of enamel paint (Berger EPILUX SG – HHI 664002) of 35-50 micron each coat with air less spray gun over a coat of zinc chromate primer - 35-50 micron etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge / Construction Manager. (The rate quoted shall include cost of bolts, nuts, washers, welding and electrodes required for the complete work).				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		114831.00		
			Corporation area	5.0%	5741.55		
			Ground Floor		120572.55		
						120572.55	Rs./M.T.
29	BDR5/38.05	1150/286	Supply & Fixing of PPGI sheets of 0.5 mm thick as shown in drawing or as directed by engineer incharge with all necessary accessories.				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		1139.00		
			Corporation area	5.0%	56.95		
			Ground Floor		1195.95		
						1195.95	Rs./SQ.FT
30	BDT55/39.2 4	1222/307	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear)				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		4829.00		
			Corporation area	5.0%	241.45		
			Ground Floor		5070.45		
						5070.45	Rs./SQ.FT
31	As directed by Engineer in charge	1563/399	Supplying, fabricating and erecting in position PPGI Eaves Gutter of required size with stop ends,all fixing accessories, drop ends, etc., at all elevations levels & heights including aligning, leveling, providing and fixing bolts, nuts, washers etc., conforming to latest specification including straightening, cutting, welding, bending to shape, bolting etc., complete and as directed as per engineer incharge / Construction Manager.				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		500.00		
			Corporation area	5.0%	25.00		
			Ground Floor		525.00		
						525.00	Rs./SQ.FT

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details				
32	As directed by Engineer in charge	1563/399	Providing and fixing of the rain water down take pipes of PPGI, the sectional area of rain water down take pipes provided shall be generally at the rate of 1 square cm per 70 to 80 square decimetre of roof area drained. No spout shall be less than 80 mm in diameter. The spacing of spouts shall be arranged to suit the position of openings in the wall including necessary accessories for fixing the pipe and including all materials and labour charges etc., complete as shown in drawings, as per specifications and as directed by the Engineer-in-Charge / Construction Manager.				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		300.00		
			Corporation area	5.0%	15.00		
			Ground Floor		315.00		
						315.00	Rs./SQ.FT
33	As directed by	1563/399	Supply & Fixing of 2mm thk polycarbonate sheets as per drawing & as directed by engineer in-charge.				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		2492.00		
			Corporation area	5.0%	124.60		
			Ground Floor		2616.60		
						2616.60	Rs./SQ.FT
34	As directed by Engineer in charge	1563/399	Supply & Fixing of turbo ventilator with 610 mm throat, having base ring & top plate in stainless steel of 0.8 mm thick, rotated using twin bearings of SKF - 600122 & 600322 permanently lubricated & sealed. Fixed in FRP base plate of 2mm thk clear 1.020 mtr wide & 1.7 mtr long.				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		2400.00		
			Corporation area	5.0%	120.00		
			Ground Floor		2520.00		
						2520.00	RS./NOS
35	As directed by	1563/399	Management Strategies and Implementation Plan (MSIP) to manage the Environmental, Social, Health and Safety (ESHS) risks and ESHS Code of Conduct				
			Details	%	Amount	Total	Unit
			Basic Rates for 2022-2023		40000.00		
			Corporation area	5.0%	2000.00		
			Ground Floor		42000.00		
						42000.00	Rs./SQ.FT

PROPOSED ESTIMATE OF CONSTRUCTION GRAIN GODOWN UNDER HON. BALASAHEB THAKRE AGRIBUSINESS AND RURAL TRANSFORMATION (SMART) PROJECT BELONGING TO VIDHARBHA BADIRAJA PRODUCER COMPANY LIMITED ON GAT NO127/2,116, TEH SAKOLI DIST BHANDARA

SR .NO	Description	Quantity	Unit	Rate	Amount
1	Supplying, erecting & terminating XLPE armoured cable 3 core 6 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	15.00	RMT	290.00	4350.00
2	Making trench of suitable width and depth in hard murum /tar road for laying provided LT cable up to and including 16 sq. mm complete as per specification no. CW-EXNCTR	15.00	RMT	205.00	3075.00
3	Making trench of suitable width and depth in soft soil for laying provided LT cable up to and including 16 sq.mm complete as per specification no. CW-EXN-CTR	10.00	RMT	175.00	1750.00
4	Supplying & erecting mains PVC unarmoured cable 1100 Volt grade ISI mark 3 core 6	130.00	RMT	135.00	17550.00
5	Supplying erecting weatherproof powder coated distribution board 4 way with 2 x 6/10 Amp S. P. M. C. B. with industrial two pin plug socket 10 A and 3 pin plug top 10 A with top cover necessary connection etc complete with approved make.	8.00	NOS.	1310.00	10480.00
6	Providing point wiring for street light with PVC unarmoured cable 1100Volt grade ISI mark 3 core 1.5 sqmm stranded / solid copper erected on wall with G. I. Saddle duly painted @ 0,25 m C/C rigidly grouted in the wall with the help of plated screw including 4" x 4" M. S. box 2 way with epoxy painting. 7 Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.	8.00	NOS.	1225.00	9800.00
7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.	1.00	NOS.	230.00	230.00
8	Supplying and erecting LED street light fitting suitable for 20 to 25W, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FG-ODF/FLS	1.00	NOS.	2015.00	2015.00
9	Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	1.00	NOS.	715.00	715.00
10	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP	1.00	NOS.	4350.00	4350.00
11	Providing pipe type earthing with 40mm, dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification no. EA-EP	1.00	NOS.	1450.00	1450.00
12	Supplying, erecting & marking DPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB	1.00	NOS.	495.00	495.00
13	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SW-SWR/MCB	1.00	NOS.	165.00	165.00

14	Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint.	1.00	SQM	2270.00	2270.00
15	Supplying and erecting marine plywood 18/19 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners, supports, nut bolts etc.	1.00	SQM	1345.00	1345.00
16	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB	1.00	NOS.	4735.00	4735.00
17	Supplying & erecting G.I. pipe 'A' class 25 10.00 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	1.00	RMT	198.00	198.00
18	Supplying & erecting G.I. pipe 'A' class 40 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	12.00	RMT	305.00	3660.00
19	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete.	25.00	RMT	3.00	75.00
20	Supplying & erecting 18 guage M.S. Box powder coated (4"x4") 3 way for mains connection.	8.00	NOS.	85.00	680.00
21	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq. mm. /2 to 4 core 10 sq. mm. for XLPE armoured cable as per specification No. CB-GL	6.00	NOS.	60.00	360.00
22	Supplying shockproof type hand lamp with lamp holder, bulb/ lamp 100 W guarded glass and 30 mtr. 3 core PVC flexible	6.00	NOS.	1575.00	9450.00
23	Point wiring for independent plug in 20 mm ISI marked HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW	6.00	NOS.	496.00	2976.00
24	Supplying and erecting Street light bracket made from 25 mm. dia 'B' class G.I. Pipe, 0.6 m in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC	8.00	NOS.	466.00	3728.00
25	Supplying & erecting mains with 2 x 2.5 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing-caping 20 mm on wall / ceiling.	8.00	RMT	135.00	1080.00
26	Supplying & erecting main with 2 x 4.00 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing-caping on wall / ceiling.	8.00	RMT	155.00	1240.00
27	Supplying and erecting double pole switch surface type/ flush type 240V, 32A with indicator lamp & fuse as per specification no. SW-SWR/BDP.	10.00	NOS.	177.00	1770.00
28	Supplying and erecting double pole metal clad switch with HC type fuse and neutral link 240V, 32A on iron / GI frame as per specification no. SW-SWR/MDP..	8.00	NOS.	785.00	6280.00

29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22/E-27 base.	8.00	NOS.	125.00	1000.00
30	Supplying and erecting T8 Fluorescent tube day light 1200 mm 36 W	6.00	NOS.	45.00	270.00
31	Supplying & erecting ready to use Retrofit 1.00 T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.	8.00	NOS.	635.00	5080.00
32	Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as per specification no. FG-FN/CF	10.00	SQM	1895.00	18950.00
33	Supplying and fixing wiremesh (Jali) cover suitable for fitting / fan or for any purpose, complete with necessary materials. The jali cover shall be made from good quality G.I. wire mesh	8.00	NOS.	450.00	3600.00
34	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size	6.00	NOS.	135.00	810.00
35	Supplying and erecting street light Wall bracket made from 25 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	6.00	NOS.	575.00	3450.00
36	Supplying & erecting CRCA sheet metal one wayenclosures suitable for DP MCB/TP MCB /FP MCB erected on angle iron/GI frame complete.	1.00	NOS.	365.00	365.00
37	Supplying, erecting and marking four pole isolators only switch version of miniature circuit breakers of 40 A in provided distribution board complete.	1.00	NOS.	625.00	625.00
		TOTAL			130422.00
(RS.One Lack Thirty Thousand Four Hundred Twenty Two Only)					

S.W V ROYALTY CHARGES										
Quantity of Material for Royalty Cu. M										
Sr. No	Description of item	Ext. Quantity	Cement in bags		SAND	METAL		MURUM	RUBBLE	
Sub Work II Internal Road										
1	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids.	150.00				1.32	25			
2	Supplying 80 mm trap stone metal at the road side including conveying & stacking etc.	100.00				1.32	35			
3	Supplying 40 mm trap stone metal at the road side including conveying & stacking etc.	80.00				1.32	50			
4	Supplying hard murum/kankar at the road site, including conveying and stacking.	75.00						1.2	35	
5	Providing uncoursed rubble masonry of trap/ granite / quartzite / gneiss stones in cement	8.29	1.70	7.00	0.00				1.16	2
6	Supplying & spreading Hard murum for cushioning of RCC pipe including watering.	41.00						1.2	40	
7	Providing earth work in embankment with approved materials obtained from other sources.	300.00						1.2	45	
TOTAL			7.00			110		120	2	

Royalty Charges Recovery Statements							
SR NO	particular	Required Qty. in Cum	Royalty	Surcharge	Distt. Mineral Royalty Surcharge Foundation Cess	Total Rate	Amount
				0.02	10%		
1	Sand	83.00	211.95	4.24	2120%	237.38	19702.54
2	METAL hand broken	110.00	211.95	4.24		216.19	23780.9
3	Murum	119.00	211.95	4.24		216.19	25726.61
4	Rubble	2.00	211.95	4.24		216.19	432.38
			TOTAL AMOUNT				69642.43
			SAY				69642.43

(Rs. Sixty Nine thousands Six Hundred Fourty Two Rupees only)

Material Lab Testing charges

ESTIMATE FOR CONSTRUCTION OF GRAIN GODOWN PRE ENGINEERED PROCESSING

Statement showing the details of requirement of Lab, Tests to be carried out:-

SR.NO	Particulars	QUANTITY	UNIT	TESTS TO Carried Out	Nos of tests	Rate per test	Amount	Remark
1	Cement	600.00	Bags	Cement- Fineness, Standard Consistency, Setting Time (Initial & Final), Compressive strength, Soundness	1.00	7540	7540	one tear per 1000 Bags
2	Concrete M-20 grade	12.00	cum	M10- Concrete cube compressive strength (Set of 3 Cubes)	2.00	1380	2760	1 test for 15 cum
3	Crushed metal for concrete	50.00	cum	Metal-Water absorption, Specific gravity, Impact value, Crushing value	2.00	5200	10400	one test per 200 cum
				Metal- Gradation	4.00	1380	5520	one test per 200 cum
				Metal-Combined Flakiness & Elongation of single metal	1.00	1700	1700	one test per 200 cum
4	Brick			Bricks-Crushing value, Water absorption, Specific Gravity	2.00	4350	8700	one test per 50000 Nos, of bricks or part.
5	masonry			Stone-Crushing value/Compressive strength, water absorption & Specific Gravity	2.00	4040	8080	one test per source
6	tmt steel bar	13.30	M.T	Steel - Tensile strength, Yield stress, ultimate tensile stress, %elongation, weight per running meter, Bend/Rebend test. (Set of 3 Bars)	1.00	2550	2550	
	sand	0.00	CUM	Sand- Fineness Modulus, silt & clay content.	3.00	2760	8280	one test per source
	murum in plinth	626.00	CUM	Murum - Plasticity Index	3.00	2340	7020	1 test per 1000 Cum
				Murum- Field Density of compacted layer	1.00	2230	2230	1 test per 250 Sq.m
				Murum-Proctor Test	1.00	3720	3720	1 test per 1000 Cum
TOTAL							68500	
(Rs. Sixty Eight thousands Five Hundred Rupees only)								