

**PROPOSED CONSTRUCTION RICE MILL MACHINERY SHED FOR
BALASAHEB THAKRE KRUSHI VYAVSAY AND GRAMIN PARIVARTAN
(SMART) PRAKALPAANTARGATAT GAT NO 422/2, MOUZA BHENDALA
,TAH POUNI DIST BHANDARA BELONGING TO CHINTAMANI FARMER
PRODUCER COMPANY LTD BHANDARA**

RICE MILL MACHINERY SHED (GROUND FLOOR)

General Abstract (Summary)

Sr. No.	Details	Currency	Amount
1	Building Work	Rs.	7,484,702.69
	TOTAL	Rs.	7,484,702.69
2	Electrical work	Rs.	112,270.54
	TOTAL	Rs.	112,270.54
3	Total Cost Of The Project	Rs.	7,596,973.23
	Approx	Rs.	7,596,973.23
Amount In Words: Seventy Five Lack Ninty Six Thousand Nine Hundred Seventy Three Rupees Only			
	RATE PER SQMT	Rs.	17,072.62
	G FLOOR AREA	Rs.	444.98
	RATE/ SQFT	Rs.	1586.08


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Abstract Sheet


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Abstract Sheet							
Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details	QTY	UNIT	UNIT RATE	AMOUNT
Excavation (BDA)							
1	BDA1/21.0 1	718/ 115	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 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 3.00 m.) By Manual Means				
			UNDER GROUND	106.92	CUM	243.60	26045.71
2	BDA10/ 21.36	748/ 117	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete				
			GROUND FLOOR	77.44	CUM	118.65	9188.42
3	BDA10/ 21.37	749/ 117	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	102.35	CUM	577.50	59106.55
4	As Directed by Engineer	101/24	Providing erth 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 ^& sectlins watering and compaction with vibrator roller with v-sat attachment to acheive not less than 97% of standard ptoctor density etc complete				
			GROUND FLOOR	324.00	CUM	573.30	185749.20
5	As Directed by Engineer	102/24	Supplying hard murum /kankar at the road side including conveying and stacking complete				
			GROUND FLOOR	82.80	CUM	417.90	34602.12
6	As Directed by Engineer	103/24	Supplying soft murum at the road side including conveying and stacking complete				
			GROUND FLOOR	82.80	CUM	414.75	34341.30
7	As Directed by Engineer	104/24	Picking the road surface including sectioning etc. complete (WBM surface.)				
			GROUND FLOOR	82.80	SQMT	29.40	2434.32
8	As Directed by Engineer	108/24	Provdng dry rubble stone pitching 23cm (9") including all material quarry spalls.labour etc.complete				
			GROUND FLOOR	82.80	SQMT	405.30	33558.84
BD-E : PLAIN CEMENT CONCRETE							
9	BDE2/ 24.04	826/ 131	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for plain or molded sills, cornice, Jams, 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)				

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details	QTY	UNIT	UNIT RATE	AMOUNT
			GROUND FLOOR	49.45	CUM	6331.50	313089.95
BD - F : REINFORCED CEMENT CONCRETE							
10	BDF3/25.11	834/133	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	22.25	CUM	6666.00	148338.50
11	BDF5/25.31	839/134	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	46.73	CUM	13636.35	637199.36
12	BDF6/25.50	844/135	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	53.01	CUM	12057.15	639113.35
13	BDF9/26.05	854/137	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	4.33	CUM	13766.55	59626.37
14	BDF12/26.23	860/138	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)				
			GROUND FLOOR	5.88	CUM	7140.00	41994.34

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details	QTY	UNIT	UNIT RATE	AMOUNT
15	BDF17/26.33	869/139	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, parris, 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	31.12	MT	75366.90	2345561.22

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details	QTY	UNIT	UNIT RATE	AMOUNT
BD -G : BRICK WORK							
16	BDG 1/27.01	887/144	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	29.41	CUM	7710.15	226738.55
17	BDG 5/27.05	890/144	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	58.82	CUM	7948.50	467495.80
BD -L : PLASTERING & POINTING							
18	BDL2/ 32.03	955/153	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	255.72	SQ.MT	269.85	69006.04
19	BDL 7/ 32.11	961/153	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	255.72	SQ.MT	733.95	187685.69
BD -P: COLOUR/WHITE WASHING, DESTEMPERING							
20	BDP&A/36. 14	1107/167	Providing and applying plastic emulsion paint of approved quality, colour and shade to new surface in three coats including scaffolding, preparing the surface. (excluding primer coat) etc. complete.				
			GROUND FLOOR	511.44	SQ.MT	105.00	53701.20
BD -U: IRON WORK							
21	BDU 1/ 40.1	1289/192	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	37.80	SQ.MT	1937.25	73228.05
BD -C : STRUCTURAL STEEL WORK							
22	BDC/23.0 7	820/129	Providing, fabricating and erecting at site of work the tubular steel structure (shed) as per standard design and specifications having various spans in between trusses and in multiples of standard length of bays as specified as per standard specifications. Inclusive of cost of steel tubular trusses, tubular columns purlins, tie runners, foundation bolts, base plates, nuts and bolts, welding wherever required etc. as per detailed drawing inclusive of one coat of anticorrosive paint and two coats of oil painting of approved quality and shade etc. complete. Spec. Number : As directed by Engineer-in-charge.				
			GROUND FLOOR	4.45	MT	105602.70	469927.47
BD -R: ROOFING AND CEILING							
23	BDR5/38.0 4	1142/171	Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanized iron screws and bolts,lead and bitumen washers etc.complete.(Weight of 6.8 Kilogram/sq.m.).				
			GROUND FLOOR	1091.54	SQMT	1094.10	1194249.54
BD -W: MISCELLANEOUS							

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details	QTY	UNIT	UNIT RATE	AMOUNT
24	BDT55/39.24	1215/181	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	21.60	SQMT	4525.50	97750.80
25	IRC 67 2015	307/89	Providing And fixing Infarmatory sign boards in rectangular shape of size 1.20x0.90 made out of 16 guage aluminium panel bonded with irc specified colour background including M.S angle iron frame of size 35mmx35mmx3mm & 2 m.s angle iron post size 65mmx65m				
			GROUND FLOOR	2.00	NO	11891.25	23782.50
26	As directed by Engineer in charge	1563/399	RWH shallow percolating pit providing constructing 2.0m deep shallow depth percolation pit comprising of 1.0m dia pre cast rcc rings 300mm thk side filling around outside of rcc rings (annular space) with 40mm size boulders including filling of percolatio				
			GROUND FLOOR	1.00	NO	51187.50	51187.50
TOTAL AMOUNT FOR ARCHITECTURAL WORK							7484702.69

ARCHITECTURAL MEASUREMENT SHEET


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MEASUREMENT SHEET FOR INDIVIDUAL ITEM

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details							
Excavation (BDA)										
1	BDA1/21.01	718/ 115	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 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 3.00 m.) By Manual Means							
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT	
			1	BUILDING WORK	22.00	1.80	1.80	1.50	106.92	CUM
			TOTAL						106.92	CUM
2	BDA10/21.36	748/ 117	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	22.00	1.80	1.80	0.15	10.69	CUM
			3	Below Floor	1.00	18.29	24.33	0.15	66.75	CUM
			TOTAL QTY FOR MURUM FILLING						77.44	CUM
3	BDA10/21.37	749/ 117	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	18.29	24.33	0.23	102.35	CUM
			TOTAL QTY FOR MURUM FILLING						102.35	CUM
4	As Directed by Engineer	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 & sections watering and compaction with vibrator roller with v-sat attachment to achieve not less than 97% of standard proctor density etc complete							
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT	
			1	Road Leveling	1.00	12.00	30.00	0.90	324.00	CUM
			TOTAL QTY FOR MURUM FILLING						324.00	CUM
5	As Directed by Engineer	102/24	Supplying hard murum /kankar at the road side including conveying and stacking complete							
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT	
			1	Road Leveling	1.00	12.00	30.00	0.23	82.80	CUM
			TOTAL QTY FOR MURUM FILLING						82.80	CUM
7	As Directed	103/24	Supplying soft murum at the road side including conveying and stacking complete							
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT	
			1	Road Leveling	1.00	12.00	30.00	0.23	82.80	CUM
			TOTAL QTY FOR MURUM FILLING						82.80	CUM
7	As Directed	104/24	Picking the road surface including sectioning etc. complete (WBM surface.)							

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details							
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT	
			1	Road Leveling	1.00	12.00	30.00	0.23	82.80	CUM
				TOTAL QTY FOR MURUM FILLING					82.80	CUM
8	As Directed	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	Road Leveling	1.00	12.00	30.00	0.23	82.80	CUM
				TOTAL QTY FOR MURUM FILLING					82.80	SQMT
BD-E : PLAIN CEMENT CONCRETE										
9	BDE2/ 24.04	826/ 131	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	22.00	1.50	1.50	0.10	4.95	CUM
				Below Floor	1.00	18.29	24.33	0.10	44.50	CUM
				TOTAL QTY FOR PCC					49.45	CUM
BD -F : REINFORCED CEMENT CONCRETE										
10	BDF3/ 25.11	834/133	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	22.00	1.70	1.70	0.35	22.25	CUM
				TOTAL					22.25	CUM
11	BDF5/ 25.31	839/134	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	22.00	0.30	0.60	1.80	7.13	CUM
			2	Building Work	22.00	0.30	0.60	10.00	39.60	CUM
				TOTAL QUANTITY OF COLUMNS					46.73	CUM

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details						
12	BDF6/ 25.50	844/135	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)						
			Building Work						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Plinth PB1	7.00	18.29	0.30	0.50	19.20	CUM
				2.00	24.33	0.30	0.50	7.30	CUM
			Lintel Beam	7.00	18.29	0.30	0.50	19.20	CUM
				2.00	24.33	0.30	0.50	7.30	CUM
			Total Qty For Ground Floor					53.01	CUM
			TOTAL QUANTITY FOR PLINTH BEAMS AND COPING					53.01	CUM
13	BDF9/ 26.05	854/137	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	14.00	2.75	0.75	0.15	4.33	CUM
			Total Qty For Ground Floor					4.33	CUM
			TOTAL QUANTITY OF chajja					4.33	CUM
14	BDF12/26.23	860/138	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	18.29	0.23	0.30	2.52	CUM
			short Wall	2.00	24.33	0.23	0.30	3.36	CUM
			Total Qty For Ground Floor					5.88	CUM
			TOTAL QUANTITY OF Coping					5.88	CUM
15	BDF17/ 26.33	869/139	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, parris, 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	444.98	10.76	4787.98	31121.90	
			TOTAL QUANTITY OF STEEL					31.12	MT
BD -G : BRICK WORK									

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details						
16	BDG 1/27.01	887/144	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	18.29	0.23	1.50	12.62	CUM
			short Wall	2.00	24.33	0.23	1.50	16.79	CUM
			Total					29.41	CUM
			TOTAL QUANTITY OF BRICK WORK					29.41	CUM
17	BDG 5/27.05	890/144	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	18.29	0.23	3.00	25.24	CUM
			short Wall	2.00	24.33	0.23	3.00	33.58	CUM
			Total					58.82	CUM
			Total Qty For Ground Floor					58.82	CUM
			TOTAL QUANTITY OF BRICK WORK					58.82	CUM
BD -L: PLASTERING AND POINTING									
18	BDL2/ 32.03	955/153	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	18.29		3.00	109.74	SQ.MT
				2.00	24.33		3.00	145.98	SQ.MT
			Total					255.72	SQ.MT
			Total Qty For Ground Floor					255.72	SQ.MT
			TOTAL QUANTITY OF INTERNAL PLASTER					255.72	SQ.MT
19	BDL 7/ 32.11	961/153	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 & 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	18.29		3.00	109.74	SQ.MT
				2.00	24.33		3.00	145.98	SQ.MT
			Total					255.72	SQ.MT
			Total Qty For Ground Floor					255.72	SQ.MT
			TOTAL QUANTITY OF EXTERNAL PLASTER					255.72	SQ.MT
BD -P: COLOUR/WHITE WASHING, DESTEMPERING									
20	BDP6A/36.14	1107/167	Providing and applying plastic emulsion paint of approved quality, colour and shade to new surface in three coats including scaffolding, preparing the surface. (excluding primer coat) etc. complete.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
			TOTAL QUANTITY OF INTERNAL PLASTER					255.72	SQ.MT
			TOTAL QUANTITY OF EXTERNAL PLASTER					255.72	SQ.MT

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details						
TOTAL QUANTITY OF CEMENT PAINT							511.44	SQ.MT	
BD -U: IRON WORK									
21	BDU 1/ 40.1	1289/192	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	14.00	1.80		1.50	37.80	SQ.MT
Total Qty For Ground Floor							37.80	SQ.MT	
TOTAL QUANTITY OF M.S GRILL							37.80	SQ.MT	
BD -C: STRUCTURAL STEEL WORK									
22	BDC/23.07	820/129	Providing, fabricating and erecting at site of work the tubular steel structure (shed) as per standard design and specifications having various spans in between trusses and in multiples of standard length of bays as specified as per standard specifications, inclusive of cost of steel tubular trusses, tubular columns purlins, tie runners, foundation bolts, base plates, nuts and bolts, welding wherever required etc. as per detailed drawing inclusive of one coat of anticorrosive paint and two coats of oil painting of approved quality and shade etc. complete. Spec. Number : As directed by Engineer-in-charge.						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Building Work	1.00	18.29	24.33	445.00	4449.96	SQMT
TOTAL QUANTITY OF STEEL							4.45	MT	
BD -R: ROOFING AND CEILING									
23	BDR5/38.04	1142/171	Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanized iron screws and bolts, lead and bitumen washers etc. complete. (Weight of 6.8 Kilogram/sq.m.).						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT
		1	Building Work	1.00	21.00	26.00		546.00	SQMT
				2.00	18.29	6.40		234.11	SQMT
				2.00	24.33	6.40		311.42	SQMT
TOTAL QUANTITY OF SHEET							1091.54	SQMT	
BD -W: MISCELLANEOUS									
24	BDT55/39.24	1215/181	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	3.00	2.40	3.00		21.60	SQMT
TOTAL QUANTITY OF SHEET							21.60	SQMT	
25	IRC 67 2015	307/89	Providing And fixing Infarmatory sign boards in rectangular shape of size 1.20x0.90 made out of 16 guage aluminium panel bonded with irc specified colour background including M.S angle iron frame of size 35mmx35mmx3mm & 2 m.s angle iron post size 65mmx65mmx6mm 3.65 long duly painted with flat oil paint fixing the board in m20 concrete block of size 60mmx60mmx75mm including transportation etc						
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details					QUANTITY	UNIT	
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT			
		1	Sign Board	2.00				2.00	NO	
			TOTAL QUANTITY					2.00	NO	
26	As directed by Engineer in charge	1563/399	RWH shallow percolating pit providing constructing 2.0m deep shallow depth percolation pit comprising of 1.0m dia pre cast rcc rings 300mm thk side filling around outside of rcc rings (annular space) with 40mm size boulders including filling of percolation pit upto 0.5m depth (from bottom) with 25-75mm clean washed gravels followed by 0.5m depth of 10-25mm of clean washed stone followed by 0.5m washed of river fine aggregate (natural sand crushed sand VSI grade finally washed etc including nefflon mesh between each gravel/fine aggregate (natural sand crushed sand VSI grade finally washed etc) media layer including covering with rcc slab manhole frame & cover pvc rungsetc. including arrangment on Inlet & outlet pipe excavation & backfilling as shown in the drawing . the rate shall be inclusive of all labour material wastage scaffolding transportation taxes , including all leads,lifts at all levels.All material should be of approved make .All works complete as per the drawing technical specification and direction of the engineer in charge							
			DESCRIPTION	NO.	LENGTH	BREADTH	DPT/HT	QUANTITY	UNIT	
		1	Rain Water	1.00				1.00	NO	
			TOTAL QUANTITY					1.00	NO	

Rate Analysis


Ar. Atul Sandel
ARS Architects
CV.No. CAT-I/A-4255

Rate Analysis

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details			
Excavation (BDA)						
1	BDA1/21.0 1	718/ 115	Excavation for foundation in earth, soll of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. 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 3.00 m.) By Manual Means			
			Details	%	Amount	Total Unit
			Basic Rates for 2021-2022		232.00	
			Carporation area	5.0%	11.60	
			Ground Floor		243.60	
						243.60 Rs./ CUM
2	BDA10/ 21.36	748/ 117	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers Including watering and compacting etc. complete			
			Details	%	Amount	Total Unit
			Basic Rates for 2021-2022		113.00	
			Carporation area	5.0%	5.65	
			Ground Floor		118.65	
						118.65 Rs./ CUM
3	BDA10/ 21.37	749/ 117	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.			
			Details	%	Amount	Total Unit
			Basic Rates for 2021-2022		550.00	
			Carporation area	5.0%	27.50	
			Ground Floor		577.50	
						577.50 Rs./ CUM
4	As Directed by Engineer	101/24	Providing erth 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 ptoctor density etc complete			
			Details	%	Amount	Total Unit
			Basic Rates for 2021-2022		546.00	
			Carporation area	5.0%	27.30	
			Ground Floor		573.30	
						573.30 Rs./ CUM
5	As Directed	102/24	Supplying hard murum /kankar at the road side including conveyng and stacking complete			
			Details	%	Amount	Total Unit
			Basic Rates for 2021-2022		398.00	
			Carporation area	5.0%	19.90	
			Ground Floor		417.90	
						417.90 Rs./ CUM
6	As	103/24	Supplying soft murum at the road side including conveyng and stacking complete			
			Details	%	Amount	Total Unit
			Basic Rates for 2021-2022		395.00	
			Carporation area	5.0%	19.75	
			Ground Floor		414.75	
						414.75 Rs./ CUM
7	As Directed	104/24	Picking the road surface including sectioning etc. complete (WBM surface.)			
			Details	%	Amount	Total Unit

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details					
			Basic Rates for 2021-2022			28.00		
			Corporation area	5.0%		1.40		
			Ground Floor			29.40		
							29.40	Rs./ CUM
8	As Directed	108/24	Providing dry rubble stone pitching 23cm (9") including all material quarry spalls,labour etc.complete					
			Details	%	Amount	Total	Unit	
			Basic Rates for 2021-2022		386.00			
			Corporation area	5.0%	19.30			
			Ground Floor		405.30			
						405.30		Rs./ CUM
BD-E: PLAIN CEMENT CONCRETE								
9	BDE2/24.04	826/131	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)					
			Details	%	Amount	Total	Unit	
			Basic Rates for 2021-2022		6030.00			
			Corporation area	5.0%	301.50			
			Ground Floor		6331.50			
						6331.50		Rs./ CUM
BD -F : REINFORCED CEMENT CONCRETE								
10	BDF3/25.11	834/133	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 curling 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 2021-2022		6666.00			
			Corporation area	5.0%	333.30			
			Ground Floor		6999.30			
						6999.30		Rs./ CUM
11	BDF5/25.31	839/134	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 2021-2022		12987.00			
			Corporation area	5.0%	649.35			
			Ground Floor		13636.35			
						13636.35		Rs./ CUM

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details				
12	BDF6/25.50	844/135	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 2021-2022		11483.00		
			Corporation area	5.0%	574.15		
			Ground Floor		12057.15		
						12057.15	Rs./ CUM
13	BDF9/26.05	854/137	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 2021-2022		13111.00		
			Corporation area	5.0%	655.55		
			Ground Floor		13766.55		
						13766.55	Rs./ CUM
14	BDF12/26.23	860/138	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 2021-2022		6800.00		
			Corporation area	5.0%	340.00		
			Ground Floor		7140.00		
						7140.00	Rs./ CUM
15	BDF17/26.33	869/139	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, purlins, 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 2021-2022		71778.00		
			Corporation area	5.0%	3588.90		
			Ground Floor		75366.90		
						75366.90	Rs./M.T.
BD - G : BRICK WORK							
16	BDG 1/27.01	887/144	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 2021-2022		7343.00		

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details				
			Corporation area	5.0%	367.15		
			Ground Floor		7710.15		
						7710.15	Rs./ CUM
17	BDG 5/27.05	890/144	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 2021-2022		7570.00		
			Corporation area	5.0%	378.50		
			Ground Floor		7948.50		
						7948.50	Rs./ CUM
BD -L: PLASTERING AND POINTING							
18	BDL2/ 32.03	955/153	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 2021-2022		257.00		
			Corporation area	5.0%	12.85		
			Ground Floor		269.85		
						269.85	Rs./ SQMT
19	BDL 7/ 32.11	961/153	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 1 Kilogram per 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 2021-2022		699.00		
			Corporation area	5.0%	34.95		
			Ground Floor		733.95		
						733.95	Rs./ SQMT
BD -P: COLOUR/WHITE WASHING, DESTEMPERING							
20	BDP6A/36. 14	1107/167	Providing and applying plastic emulsion paint of approved quality, colour and shade to new surface in three coats including scaffolding, preparing the surface. (excluding primer coat) etc. complete.				
			Details	%	Amount	Total	Unit
			Basic Rates for 2021-2022		100.00		
			Corporation area	5.0%	5.00		
			Ground Floor		105.00		
						105.00	Rs./ SQMT
BD -U: IRON WORK							
21	BDU 1/ 40.1	1289/192	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 2021-2022		1845.00		
			Corporation area	5.0%	92.25		
			Ground Floor		1937.25		
						1937.25	Rs./ SQMT
BD -C : STRUCTURAL STEEL WORK							

Sr. No.	SR.NO & CODE NO	Public Work Region Nagpur	Description & Details				
22	BDC/23.07	820/129	Providing, fabricating and erecting at site of work the tubular steel structure (shed) as per standard design and specifications having various spans in between trusses and in multiples of standard length of bays as specified as per standard specifications. Inclusive of cost of steel tubular trusses, tubular columns purlins, tie runners, foundation bolts, base plates, nuts and bolts, welding wherever required etc. as per detailed drawing inclusive of one coat of anticorrosive paint and two coats of oil painting of approved quality and shade etc. complete. Spec. Number : As directed by Engineer-in-charge.				
			Details	%	Amount	Total	Unit
			Basic Rates for 2021-2022		100574.00		
			Corporation area	5.0%	5028.70		
			Ground Floor		105602.70		
						105602.70	Rs./M.T.
BD -R: ROOFING AND CEILING							
23	BDR5/38.04	1142/171	Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete. (Weight of 6.8 Kilogram/sq.m.).				
			Details	%	Amount	Total	Unit
			Basic Rates for 2021-2022		1042.00		
			Corporation area	5.0%	52.10		
			Ground Floor		1094.10		
						1094.10	Rs./SQ.FT
BD -W: MISCELLANEOUS							
24	BDT55/39.2 4	1215/181	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 2021-2022		4310		
			Corporation area	5.0%	215.50		
			Ground Floor		4525.50		
						4525.50	Rs./SQ.FT
25	IRC 67 2015	307/89	Providing And fixing Informatory sign boards in rectangular shape of size 1.20x0.90 made out of 16 guage aluminium panel bonded with irc specified colour background including M.S angle iron frame of size 35mmx35mmx3mm & 2 m.s angle iron post size 65mmx65mmx6mm 3.65 long duly painted with flat oil paint fixing the board in m20 concrete block of size 60mmx60mmx75mm including transportation etc				
			Details	%	Amount	Total	Unit
			Basic Rates for 2021-2022		11325		
			Corporation area	5.0%	566.25		
			Ground Floor		11891.25		
						11891.25	Rs./SQ.FT