



ESTIMATE

**Proposed Warehouse & Flour Mill Building For Boradi Parisar Shetkari Utpadak Co.ltd,At-
Boradi,Tal-Shirpur,,Dist: Dhule(MH)**

Estimated Cost of Works (Rs.) :- 20365125.00

Rupees Two Crore Three Lacks Sixty Five Thousand One Hundred Twenty Five Only.



Boradi Parisar Shetkari Utpadak Co. Ltd.

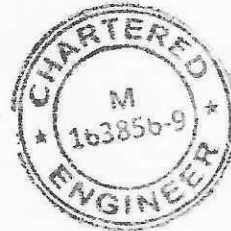
Proposed Warehouse & Flour Mill Building For Boradi Parisar Shetkari Utpadak Co.ltd,At-Boradi,Tal-Shirpur,,Dist: Dhule(MH)

RECAPITUALTION SHEET

1	Work A Road Work (Part A)	Rs.	17482685.00
2	Add Royalty	Rs.	260037.00
3	Add. 1.00 % Insurance on Part B	Rs.	174827.00
4	Add. Electrification Charges	Rs.	349654.00
5	Add. 15 % Compound Wall	Rs.	0.00
5	Add. 5 % Office & Furniture	Rs.	0.00
6	Add.12.00 % GST Part A	Rs	2097922.00
	Total Rs.		20365125.00
7	Add. 3% Contigencies on Total	Rs	0.00
	Say Rs.		20365125.00

Rupees Two Crore Three Lacks Sixty Five Thousand One Hundred Twenty Five Only.

Consulting Engineer



(Signature)
PAVANAKAN F. SHIRSHATH
 B.E.(Civil)
 Consulting Engineer
 RCC Consultant & Panel Valuer
 SHIRPUR-4254(05) Dist-Dhule

(Signature) *(Signature)*
 सचिव
 बोराडी परिसर शेतकरी उत्पादक
 कंपनी ता शिरपुर जि धुळे

**Proposed Warehouse & Flour Mill Building For Boradi Parisar Shetkari Utpadak Co.ltd,At-
Boradi,Tal-Shirpur,,Dist: Dhule(MH)**

ABSTRACT

Quantity	L.No	Item of work	Rate	unit	Amount
291.12	1	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	193.00	Cubic Metre	56186.16
174.67	2	Excavation for foundation in Hard murum including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 to 3.0m.) By Mechanical Means	265.00	Cubic Metre	46287.55
398.42	3	Providing dry trap/ granite/ quartzite/ gneiss rubble stone soiling 15 cm to 20 cm thick including hand packing and compacting complete. Spec.No. : Bd.A.12 Page No. 264 ;	1712.42	Cubic Metre	682262.38
465.79	4	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.	113.00	Cubic Metre	52634.27
736.78	5	Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20 cm including watering and compaction etc.complete.	828.56	Cubic Metre	610466.44
87.43	6	Providing and filling in the foundation with sand of approved quality including watering, compacting etc. complete. (To be executed with prior approval of Superintending Engineer)	2462.67	Cubic Metre	215311.24




Quantity	I.No	Item of work	Rate	unit	Amount
179.41	7	Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete ,with fully automatic microprocess or base dPLCwith SCADA enable dreversible Drum Type mixer/ concrete Batch mix plant (Panmixer) etc.complete. With fine aggregate (Crushed sand VSI Grade)	5950.05	Cubic Metre	1067498.47
74.34	8	Providing and laying in situ cement concrete of M-25 grade of trap / granite/quartzite/gneiss metal for R.C.C. work like raft, grillages, strips, foundations and footings of R.C.C.columns and steel stanchions including bailing-out water manually, including centering formwork of plywood / steel, compaction, covering newly laid concrete by gunny bag, plastic or tarpaulin, finishing the formed surface 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) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. (Wooden planks / shuttering will not be allowed) Spec.No.:Bd.F.2 Page No. 298 /IS 456 (1978)	7242.01	Cubic Metre	538371.02

Quantity	I.No	Item of work	Rate	unit	Amount
70.75	9	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)	13563.01	Cubic Metre	959582.96
61.08	10	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)	12040.91	Cubic Metre	735458.78

Quantity	I.No	Item of work	Rate	unit	Amount
2.26	11	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite/gneiss/ quartzite metal for R.C.C. fins of required thickness in positionas shown on the drawings or as directed by Engineer -in-charge including steel centering, plywood / steel form work, steel props, laying/ pumping, compaction ,finishing uneven and honey combed surface with C.M.1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block) Newly laid concrete shall be covered by gunny bag, plastic, tarp aulin etc. with fully automatic microprocess or based PLC with SCADA enable dreversible Drum Type mixer/ concrete Batchmix plant (Panmixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	17600.59	Cubic Metre	39777.33
2.85	12	Providing and casting in situ cement concrete of M-25 grade of trap granite / quartzite / gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings or as directed including fixing plastic cover block of requird size at 27 Nos in per 10 Sqm to reinforcement to give a clear cover of 15mm in RCC slabs, fixing fan hook box of 100mm diameter PVC or MS material with required depth with holes or notches as required, bottom with 12mm diameter M.S. bar bend to shape with hooked ends for fan hook and painting to exposed surface, centering, formwork of steel, compaction, covering newly laid concrete by gunny bag, plastic or tarpaulin, finishing the formed surface 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. The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Wooden planks / shuttering will not be allowed). Bd.F.8 Page No. 302 / IS 456:2000	14520.01	Cubic Metre	41382.03

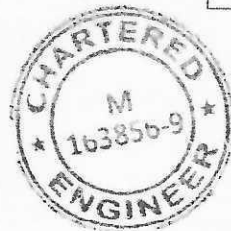
Quantity	I.No	Item of work	Rate	unit	Amount
19.60	13	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	71778.00	Metric Tonne	1406848.80
103.68	14	Providing dry rubble stone pitching 23cm (about 9) thick including all material, quarry spalls, labour etc.complete.	804.42	Square Metre	83402.27
52.54	15	Providing Brick masonry in cement mortal 1.6 using second Class Burnt Bricks in foundation and plinth of inner walls/ in plinth of external walls including bailing out water manually, striking joints on unexposed faces ,watering and scaffolding complete Bd. G. 1, Page No.313,	7398.10	Cubic Metre	388696.17
280.65	16	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	7625.10	Cubic Metre	2139984.32
2453.62	17	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 kg 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.	605.09	Square Metre	1484660.93
56.16	18	Providing and fixing steel ventilat or fully glazed partly fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain/ obscured glass pans 5mm thick and approved type quality and iron oxidized fixtures and fastening with guards quare bars 12mm 10cmc /cand oil painting 2coats etc. complete.	4449.00	Square Metre	249855.84

Quantity	I.No	Item of work	Rate	unit	Amount
2453.62	19	Providing and applying white-wash in one coat on old/ new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	7.00	Square Metre	17175.34
2453.62	20	Providing and applying plastic emulsion paint of approved quality, colour and shade to old and new surfaces in two coats including scaffolding, preparing the surface. (excluding the primer coat) etc. complete.	70.00	Square Metre	171753.40
21.00	21	Providing and fixing rolling shutter fabricated from steel at hsofminimum thickness 0.9mm with lock plate of 3.15 mm thickness reinforced with 35x35x5mm angle section fitted with sliding bolts and handles for both sides, deep M.S.channel section of depth and thickness not less than 65mm and 3.15mm respectively with hold fastarr angements, M.S.Brace plate 300x300x3.15mm minimum size and shape with square bar, suspension shaft of minimum 32mm diameter, hood cover of M.S. sheet not less than 0.9mm thickness and of any size atopand safety device sincluding mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade castir on or mild steel and one coat of redlead primer etc. complete.(I.S.62481979) (Without mechanical gear)	4310.00	Square Metre	90510.00
1538.19	22	Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.	786.02	Square Metre	1209048.10
30.45	23	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anti corrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.	105909.00	Metric Tonne	3224929.05

(Handwritten signatures and stamps)

Quantity	I.No	Item of work	Rate	unit	Amount
1636.09	24	Providing and fixing colour coated Zinalume (R) AZ 150 (min 150 gms /sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45mm Base Metal Thickness (BMT) (0.5mm TCT), Hi-strength steel with min. 550 MP a yield strength, metallic hot dip coated with Aluminium- Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLOR BOND (R) steel quality super durable polyester paint coat (with in organic pigment). The paint shall have a total coating thickness of nominal 35um, comprising of nominal 25 um exterior coat on top surface and nominal 10um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five panat nominal 180-250 mm center-to-center. The endrib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval including fasteners with min fastened with min. 25um Zinc-Tin alloy coated, Hexhead, self-drilling screw etc. complete. (weight of profile 4.52Kilogram / Square Metre).	1095.00	Square Metre	1791518.55
13.00	25	Turbo ventilator 24" MATERIAL RATES FOR SSR For Year 2021-22, Page no. 374, Building (Bd-R : Roofing and ceiling)	8680.00	No.	112840.00
44.85	26	Providing and fixing UPVC Roof made up of 3 layers roofing material of thickness 2mm having width of 1130mm and of required Length having Tensile strength not less than 330Kilo gram/ cm ² , including fastening with self drilling screw having washers made of stainless steel etc. complete.	1477.00	Square Metre	66243.45
				Total Rs.	17482684.85
			Part A)	Say Rs.	17482685.00
514.50	27	Royalty Charges for sand	158.29	Cum	81440.21
1238.88		Royalty Charges for Rubble and HM	144.16	Cum	178596.94
				Total Rs.	260037.15
			Part B)	Say Rs.	260037.00

Consulting Engineer



[Signature]
PAV. MAKAR P. S. SHATH
 B.E. (Civil)
 Consulting Engineer
 RCC Consultant & Panel Valuer
 SHIRPUR-425405 Dist-Dhule

[Signature] *[Signature]*

Proposed Warehouse & Flour Mill Building For Boradi Parisar Shetkari Utpadak Co.ltd,At-Boradi,Tal-Shirpur,,Dist: Dhule(MH)

MEASUREMENT SHEET

L.No.

- 1 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

For RCC Coloumn Type C1	26	x	1.80	x	1.80	x	1.50	=	126.36	Cum
For RCC Coloumn Type C2	10	x	1.80	x	1.80	x	1.50	=	48.60	
For RCC Coloumn Type C3	4	x	2.00	x	2.00	x	1.50	=	24.00	
For RCC Coloumn Type C4	8	x	1.60	x	1.60	x	1.50	=	30.72	
For RCC Coloumn Type C5	8	x	1.60	x	1.60	x	1.50	=	30.72	
For RCC Coloumn Type C6	8	x	1.60	x	1.60	x	1.50	=	30.72	
Total Qty								=	291.12	Cum

- 2 Excavation for foundation in Hard murum in cluding removing the excavated material upto adistance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 to 3.0m.) By Mechanical Means

For RCC Coloumn Type C1	26	x	1.80	x	1.80	x	0.90	=	75.82	Cum
For RCC Coloumn Type C2	10	x	1.80	x	1.80	x	0.90	=	29.16	
For RCC Coloumn Type C3	4	x	2.00	x	2.00	x	0.90	=	14.40	
For RCC Coloumn Type C4	8	x	1.60	x	1.60	x	0.90	=	18.43	
For RCC Coloumn Type C5	8	x	1.60	x	1.60	x	0.90	=	18.43	
For RCC Coloumn Type C6	8	x	1.60	x	1.60	x	0.90	=	18.43	
Total Qty								=	174.67	Cum

- 3 Providing dry trap/ granite/ quartzite/ gneiss rubble stone soiling 15 cm to 20 cm thick including hand packing and compacting complete. Spec.No. : Bd.A.12 Page No. 264 ;

For RCC Coloumn Type C1	26	x	1.80	x	1.80	x	0.23	=	19.38	Cum
For RCC Coloumn Type C2	10	x	1.80	x	1.80	x	0.23	=	7.45	
For RCC Coloumn Type C3	4	x	2.00	x	2.00	x	0.23	=	3.68	
For RCC Coloumn Type C4	8	x	1.60	x	1.60	x	0.23	=	4.71	
For RCC Coloumn Type C5	8	x	1.60	x	1.60	x	0.23	=	4.71	
For RCC Coloumn Type C6	8	x	1.60	x	1.60	x	0.23	=	4.71	
Ware House Plinth	1	x	63.30	x	24.30	x	0.23	=	353.78	
Total Qty								=	398.42	Cum

- 4 Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete.

Qty As per Exavated Quaity								=	465.79	cum
Item no.1 & 2										
Total Qty								=	465.79	cum

- 5 Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20 cm including watering and compaction etc.complete.

Ware House Plinth	1	x	63.30	x	24.30	x	0.52	=	799.86	cum
Deduction Internal side WH.	2	x	63.30	x	0.60	x	0.60	=	45.58	
Periphery Rubble fillig	2	x	24.30	x	0.60	x	0.60	=	17.50	
									63.08	
Total Qty								=	736.78	cum

- 6 Providing and filling in the foundation with sand of approved quality including watering, compacting etc. complete. (To be executed with prior approval of Superintending Engineer)

Deduction Internal side WH.	2	x								
Periphery Rubble fillig			63.30	x	0.60	x	0.10	=	7.60	cum

	2	x	24.30	x	0.60	x	0.10	=	2.92
Ware House Flooring Soling	1	x	63.30	x	24.30	x	0.05	=	76.91
								Total Qty	= 87.43 cum

7 Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of trap/granite/quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete with fully automatic microprocessor or base dPLC with SCADA enable dreversible Drum Type mixer/ concrete Batch mix plant (Panmixer) etc.complete. With fine aggregate (Crushed sand VSI Grade)

For RCC Coloumn Type C1	26	x	1.80	x	1.80	x	0.10	=	8.42 cum
For RCC Coloumn Type C2	10	x	1.80	x	1.80	x	0.10	=	3.24
For RCC Coloumn Type C3	4	x	2.00	x	2.00	x	0.10	=	1.60
For RCC Coloumn Type C4	8	x	1.60	x	1.60	x	0.10	=	2.05
For RCC Coloumn Type C5	8	x	1.60	x	1.60	x	0.10	=	2.05
For RCC Coloumn Type C6	8	x	1.60	x	1.60	x	0.10	=	2.05
Ware House Plinth	1	x	64.00	x	25.00	x	0.10	=	160.00 cum
								Total Qty	= 179.41 cum

8 Providing and laying in situ cement concrete of M-25 grade of trap / granite/quartzite/gneiss metal for R.C.C. work like raft, grillages, strips, foundations and footings of R.C.C.columns and steel stanchions including bailing-out water manually, including centering formwork of plywood / steel, compaction, covering newly laid concrete by gunny bag, plastic or tarpaulin, finishing the formed surface 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) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. (Wooden planks / shuttering will not be allowed) Spec.No.:Bd.F.2 Page No. 298 /IS 456 (1978)

1st Step of Footing

For RCC Coloumn Type C1	26	x	1.50	x	1.50	x	0.45	=	26.33 cum
For RCC Coloumn Type C2	10	x	1.50	x	1.50	x	0.38	=	8.55
For RCC Coloumn Type C3	4	x	1.70	x	1.70	x	0.45	=	5.20
For RCC Coloumn Type C4	8	x	1.30	x	1.30	x	0.30	=	4.06
For RCC Coloumn Type C5	8	x	1.30	x	1.30	x	0.30	=	4.06
For RCC Coloumn Type C6	8	x	1.30	x	1.30	x	0.30	=	4.06

2nd Step of Footing

For RCC Coloumn Type C1	26	x	1.20	x	1.20	x	0.30	=	11.23
For RCC Coloumn Type C2	10	x	1.20	x	1.20	x	0.23	=	3.31
For RCC Coloumn Type C3	4	x	1.40	x	1.40	x	0.35	=	2.74
For RCC Coloumn Type C4	8	x	1.00	x	1.00	x	0.20	=	1.60
For RCC Coloumn Type C5	8	x	1.00	x	1.00	x	0.20	=	1.60
For RCC Coloumn Type C6	8	x	1.00	x	1.00	x	0.20	=	1.60
								Total Qty	= 74.34 cum

9 Providing and laying Cast in situ/Ready Mix cement concrete M-25 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)

For RCC Coloumn Type C1	26	x	0.30	x	0.525	x	9.00	=	36.86 cum
For RCC Coloumn Type C2	10	x	0.30	x	0.525	x	9.00	=	14.18

For RCC Coloumn Type C3	4	x	0.35	x	0.525	x	9.00	=	6.62
For RCC Coloumn Type C4	8	x	0.23	x	0.45	x	9.00	=	7.45
For RCC Coloumn Type C5	8	x	0.23	x	0.45	x	3.40	=	2.82
For RCC Coloumn Type C6	8	x	0.23	x	0.45	x	3.40	=	2.82
							Total Qty	=	70.75 cum

10 Providing and laying Cast in situ/Ready Mix cement concrete M-25 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 (Natural Sand / Crushed sand VSI Grade finely washed etc)

Long Wall Ground Beams	24	x	4.20	x	0.35	x	0.45	=	15.88
	4	x	4.50	x	0.35	x	0.45	=	2.84
Short Wall Ground Beams	12	x	4.00	x	0.35	x	0.45	=	7.56
Varandah Plinth Beams Long	4	x	3.90	x	0.23	x	0.38	=	1.36
Varandah Plinth Beams Short	8	x	1.43	x	0.23	x	0.38	=	1.00
Long & Short Wall above V2	62	x	0.95	x	0.35	x	0.15	=	3.09
Long Wall Lintel Beams	20	x	4.20	x	0.35	x	0.30	=	8.82
Long Wall Beams Above RS	4	x	4.80	x	0.35	x	0.45	=	3.02
Long Wall Floor Beams	24	x	4.20	x	0.35	x	0.30	=	10.58
	4	x	4.50	x	0.35	x	0.30	=	1.89
Short Wall Ground Beams	12	x	4.00	x	0.35	x	0.30	=	5.04
							Total Qty	=	61.08 cum

11 Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite/gneiss/ quartzite metal for R.C.C. fins of required thickness in position as shown on the drawings or as directed by Engineer -in-charge including steel centering, plywood / steel form work, steel props, laying/ pumping, compaction, finishing uneven and honey combed surface with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block) Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. with fully automatic microprocess or based PLC with SCADA enable dreversible Drum Type mixer/ concrete Batchmix plant (Panmixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)

Long Wall Ventilators V2 Top	31	x	1.56	x	0.45	x	0.075	=	1.63
Long Wall Ventilators V2 Sides	62	x	0.45	x	0.30	x	0.075	=	0.63
							Total Qty	=	2.26 cum

12 Providing and casting in situ cement concrete of M-25 grade of trap granite / quartzite / gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings or as directed including fixing plastic cover block of required size at 27 Nos in per 10 Sqm to reinforcement to give a clear cover of 15mm in RCC slabs, fixing fan hook box of 100mm diameter PVC or MS material with required depth with holes or notches as required, bottom with 12mm diameter M.S. bar bend to shape with hooked ends for fan hook and painting to exposed surface, centering, formwork of steel, compaction, covering newly laid concrete by gunny bag, plastic or tarpaulin, finishing the formed surface 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. The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Wooden planks / shuttering will not be allowed). Bd.F.8 Page No. 302 / IS 456:2000

Varandah Plinth Slab	4	x	4.34	x	1.43	x	0.115	=	2.85
							Total Qty	=	2.85 cum

13 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.

For RCC Footing	74.34	@	80.00	Kg	=	5947.20	Kg
For RCC Coloumn	70.75	@	100.00	Kg	=	7075.00	Kg
For RCC Beam	61.08	@	100.00	Kg	=	6108.00	Kg
For RCC Fins	2.26	@	80.00	Kg	=	180.80	Kg
For RCC Slab	2.85	@	100.00	kg	=	285.00	kg
					Total Qty	=	19596.00 Kg
					Say	=	19.60 MT

14 Providing dry rubble stone pitching 23cm (about 9) thick including all material, quarry spalls, labour etc.complete.

Long Wall Internal Side Over size Metal in 2 Layers	2	x	63.30			x	0.60	=	75.96	Sqm	
Short Wall Internal Side Over size Metal in 2 Layers	2	x	23.10			x	0.60	=	27.72		
Total Qty									=	103.68	Sqm

15 Providing Brick masonry in cement mortar 1:6 using second Class Burnt Bricks in foundation and plinth of inner walls/ in plinth of external walls including bailing out water manually, striking joints on unexposed faces ,watering and scaffolding complete Bd. G. I, Page No.313,

Long Wall Ground Beams	24	x	4.20	x	0.35	x	0.90	=	31.75	cum	
	4	x	4.50	x	0.35	x	0.90	=	5.67		
Short Wall Ground Beams	12	x	4.00	x	0.35	x	0.90	=	15.12		
Total									=	52.54	
Total Qty									=	52.54	cum

16 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

Long Wall Superstructure	24	x	4.20	x	0.35	x	4.79	=	168.99	cum	
	4	x	4.50	x	0.35	x	4.79	=	30.18	cum	
Short Wall Superstructure	12	x	4.00	x	0.35	x	4.79	=	80.47	cum	
Short Gable Wall	2	x	10.67	x	0.35	x	3.75	=	28.01		
Total									=	307.65	
Deduction For V2	62	x	0.60	x	0.60	x	0.35	=	7.81		
Deduction For V1	40	x	1.41	x	0.60	x	0.35	=	11.84		
Deduction For RS	4	x	2.10	x	2.50	x	0.35	=	7.35		
Total									=	27.00	
Total Qty									=	280.65	cum

17 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 kg 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.

Long Wall	2	x	64.00			x	6.60	=	844.80	Sqm
Short Wall	2	x	25.00			x	6.60	=	330.00	
Long Wall	2	x	64.00			x	5.60	=	716.80	
Short Wall	2	x	25.00			x	5.60	=	280.00	
Short Span Gable Walls External	2	x	12.15			x	4.00	=	97.20	
Short Span Gable Walls Internal	2	x	12.15			x	4.00	=	97.20	
Long Wall Coloumn Offsets C1	26	x	0.36			x	6.60	=	61.78	
Long Wall Coloumn Offsets C2	10	x	0.36			x	6.60	=	23.76	
Long Wall Coloumn Offsets C3	4	x	0.72			x	6.60	=	19.01	
Long Wall Coloumn Offsets C4	8	x	0.55			x	5.60	=	24.64	
Long Wall Coloumn Offsets C5	8	x	1.36			x	1.00	=	10.88	
Verandah Slab	4	x	4.80			x	1.66	=	31.87	
Verandah Slab Sides	8	x	1.66			x	0.30	=	3.98	
Verandah Slab Front	4	x	4.80			x	0.30	=	5.76	
V2 Top	62	x	1.56			x	0.45	=	43.52	

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V2 Sides	124	x	0.45		x	0.30	=	16.74
								<u>2607.94</u>
Deduction								
Deduction For V2 Both Side	124	x	0.60		x	0.60		44.64
Deduction For V1 Both Side	80	x	1.41		x	0.60		67.68
Deduction For RS Both Side	8	x	2.10		x	2.50		42.00
								<u>154.32</u>
Total Qty							=	2453.62 Sqm

18 Providing and fixing steel ventilat or fully glazed partly fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain/ obscured glass pans 5mm thick and approved type quality and iron oxidized fixtures and fastening with guards quare bars 12mm 10cmc /cand oil painting 2coats etc. complete.

V2	62	x	0.60		x	0.60	=	22.32	Sqm
V1	40	x	1.41		x	0.60		33.84	
Total Qty							=	56.16	Sqm

19 Providing and applying white-wash in one coat on old/ new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.

Qty.As per Item no.17							=	2453.62	Sqm
Total Qty							=	2453.62	Sqm

20 Providing and applying plastic emulsion paint of approved quality, colour and shade to old and new surfaces in two coats including scaffolding, preparing the surface. (excluding the primer coat) etc. complete.

Qty.As per Item no.17							=	2453.62	Sqm
Total Qty							=	2453.62	Sqm

21 Providing and fixing rolling shutter fabricated from steell at hsofminimum thickness 0.9mm with lock plate of 3.15 mm thickness reinforced with 35x35x5mm angle section fitted with sliding bolts and handles for both sides, deep M.S.channel section of depth and thickness not less than 65mm and 3.15mm respectively with hold fastarr angements, M.S.Bracket plate 300x300x3.15mm minimum size and shape with square bar. suspension shaft of minimum 32mm diameter, hood cover of M.S. sheet not less than 0.9mm thickness and of any size attopand safety device sincluding mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade castir on or mild steel and one coat of redlead primer etc. complete.(I.S.62481979) (Without mechanical gear)

RS	4	x	2.10		x	2.50	=	21.00	Sqm
Total Qty							=	21.00	Sqm

22 Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.

Warehouse Flooring	1	x	63.30	x	24.30		=	1538.19	Sqm
Total Qty							=	1538.19	Sqm

23 Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anti corrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.

Total No. of Truss With Purlin	13	x	2250.00	x			=	29250.00	MT
Varandah Canopy	4	x	300.00	x			=	1200.00	
								<u>30450.00</u>	
Total Qty							=	30.45	MT

- 24 Providing and fixing colour coated Zincalume (R) AZ 150 (min 150 gms/sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45mm Base Metal Thickness (BMT) (0.5mm TCT), Hi-strength steel with min. 550 MPa yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLOR BOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35um, comprising of nominal 25 um exterior coat on top surface and nominal 10um reverse coat on back surface. Profile sheet shall have nominal 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five panat nominal 180-250 mm center-to-center. The endrib shall be designed for anti-capillary groove, and return leg. The feed material should have coil manufacturers product details marked at regular interval. Including fasteners with min. fastened with min. 25um Zinc-Tin alloy coated, Hexhead, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram / Square Metre).

Roof Slop	2	x	13.00	x	63.30	=	1645.80	Sqm
Verandah	4	x	4.80	x	1.83	=	35.14	
							Total	1680.94
Deduction For Turbo Ventilator & Sky light Upvc roof	13.00	x	3.00	x	1.150	=	44.85	
							Total	44.85
							Total Qty	= 1636.09 Rmt

- 25 Turbo ventilator 24" MATERIAL RATES FOR SSR For Year 2021-22, Page no. 374, Building (Bd-R : Roofing and ceiling)

At Roof Level Ventilation		=	13.00	No.
			Total Qty	= 13.00 No.

- 26 Providing and fixing UPVC Roof made up of 3 layers roofing material of thickness 2mm having width of 1130mm and of required Length having Tensile strength not less than 330Kilo gram/cm², including fastening with self drilling screw having washers made of stainless steel etc. complete.

13.00	x	3.00	x	1.15	=	44.85	Sqm
						Total Qty	= 44.85 Sqm

- 27 Royalty Charges

	Material		Qty		Qty of Material	Cum	
6	Providing and filling in the fundatic	1	x	87.43	x	1.000	= 87.43 Cum
7	Providing and laying Cast in situ/ Re	1	x	179.41	x	0.470	= 84.32
8	Providing and laying in situ cement c	1	x	74.34	x	0.425	= 31.59
9	Providing and laying Cast in situ/Re	1	x	70.75	x	0.425	= 30.07
10	Providing second class Burnt Brick r	1	x	61.08	x	0.425	= 25.96
11	Providing sand faced plaster external	1	x	2.26	x	0.425	= 0.96
12	Providing and casting in situ cement	1	x	2.85	x	0.425	= 1.21
15	Providing Brick masonry in cement s	1	x	52.54	x	0.320	= 16.81
16	Providing second class Burnt Brick r	1	x	280.65	x	0.320	= 89.81
17	Providing sand faced plaster external	1	x	2453.62	x	0.033	= 80.97
22	Providing and laying in situ cement c	1	x	1538.19	x	0.043	= 65.37

					Sand	Total Qty	= 514.50	Cum
3	Providing dry trap/ granite/ quartzite	1	x	398.42	x	1.00	= 398.42	
5	Filling in plinth and floors with cont	1	x	736.78	x	1.00	= 736.78	
14	Providing dry rubble stone pitching	1	x	103.68	x	1.00	= 103.68	
				Hm and Rubble	Total Qty	= 1238.88	Cum	

Consulting Engineer



Signature
PADMAKAR F. SHIKSHATH
 B.E. (Civil)
 Consulting Engineer
 RCC Consultant & Panel Valuer
 SHIRPUR-425405 Dist-Dhule

Signature
 वाराडी परिसर शेतकरी सहकार
 शिरपुर

Proposed Warehouse & Flour Mill Building For Boradi Parisar Shefkari Utpadak Co.ltd,AI-Boradi,Tal-Shirpur,,Dist: Dhule(MH)

RATE ANALYSIS AS PER PWD SSR 2021-22 For MAHARASHTRA STATE

Sl. No	Description of Item	S.S.R. Page No. & It. No.	Basic Rate	Add extra lead charges for....						Deduct For Sand Royalty	Total Lead charges	Gross Rate
				Rubble/Cr. Metal	Stand	Cr. Metal	Murum	Cement/Steel				
1	Excavation for foundation in earth, soil of all types, sand, grav	21.02	193.00	418.42	290.67	342.02	278.56	4.63		0.00	193.00	
2	Excavation for foundation in Hard murum in chiding removing	21.08	265.00							0.00	265.00	
3	Providing dry trap granite quartzite gneiss rubble stone soil	21.38	1294.00	1.00	418.42					418.42	1712.42	
4	Filling in plinth and floors with approved excavated materials	21.36	113.00							0.00	113.00	
5	Filling in plinth and floors with contractors material brought	21.37	590.00							278.56	828.56	
6	Providing and filling in the foundation with sand of approved	21.39	2172.00		1.00	290.67				290.67	2462.67	
7	Providing and laying Cast in situ Ready Mix cement concrete	24.01	5538.00		0.47	136.61	0.940	321.50	4.40	20.37	478.48	
8	Providing and laying in situ cement concrete of M-25 grade of	25.13	6836.00		0.425	123.53	0.90	307.82	7.50	34.73	466.08	
9	Providing and laying Cast in situ/Ready Mix cement concrete	25.33	13157.00		0.425	123.53	0.90	307.82	7.50	34.73	466.08	
10	Providing and laying Cast in situ Ready Mix cement concrete	25.52	11652.00		0.425	123.53	0.85	290.72	7.50	34.73	448.98	
11	Providing and laying Cast in situ Ready Mix cement concrete	26.31	17214.00		0.425	123.53	0.85	290.72	7.90	32.41	446.66	
12	Providing and casting in situ cement concrete of M-25 grade c	25.72	14114.00		0.425	123.53	0.90	307.82	7.50	34.73	466.08	
13	Providing and fixing in position TMT - FE - 500 bar reinforce	26.33	21778.00							0.00	21778.00	
14	Providing dry rubble stone pitching 23cm (about 9) thick incli	2.34	386.00	1.00	418.42					418.42	804.42	
15	Providing Brick masonry in cement mortar 1:6 using second C	27.01	7343.00		0.32	93.01			1.58	7.32	100.33	
16	Providing second class Burnt Brick masonry with contentio	27.05	7570.00		0.32	93.01			1.58	7.32	100.33	
17	Providing sand faced plaster externally in cement mortar using	32.11	509.00		0.033	9.59			0.25	1.16	10.75	
18	Providing and fixing steel ventilat or fully glazed partly fixed	39.30	4449.00								4449.00	
19	Providing and applying white-wash in one coat on old/ new pl	36.02	7.00								7.00	
20	Providing and applying plastic emulsion paint of approved que	36.12	70.00								70.00	
21	Providing and fixing rolling shutter fabricated from steel at h	39.24	4310.00								4310.00	
22	Providing and laying in situ cement concrete M20 with trim	33.30	746.00								746.00	
23	Providing structural steel work in trusses, other similar trusse	23.04	10509.00								10509.00	
24	Providing and fixing colour coated Zinshane (R) AZ 150 cm	38.34	1095.00								1095.00	
25	Turbo ventilator 24" MATERIAL, RATES FOR SSR For Vent	SSR 21-22, Page no. 374 List-42	8680.00								8680.00	
26	Providing and fixing UPVC Roof made up of 3 layers roofing	38.37	1477.00								1477.00	
27	Royalty Charges for Rubble and HM		144.16								144.16	



PADMAKAR F. SHIRSHATH
 Consulting Engineer
 RCC Consultant & Estimator

Consulting Engineer

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585
575

Proposed Warehouse & Flour Mill Building For Boradi Parisar Shetkari Utpadak Co.ltd,A4-Boradi,Tal-Shirpur,,Dist: Dhule(MH)

Appendix - I

Sr. No.	Description	Rubble	Murum	Crush metal	Crush metal 40 mm above	Sand	Cement	Steel	Asphalt
1	2	3	4	4	4	5	6	7	8
	Source	Restricted	Local	Restricted	Restricted	Local	Local	Local	
1	Average lead as per Quarry chart in km	15.00	10.00	15.00	15.00	10.00	1.00	1.00	
2	Lead charges	418.42	278.56	342.02	327.77	290.67	92.61	92.61	
4	Extra lead charges	418.42	278.56	342.02	327.77	290.67	92.61	92.61	
5	Extra lead charges per bag of cement						4.63		

Consulting Engineer



(Handwritten Signature)

MAKAR F. SHIRSHATH
B.E.(Civil)
Consulting Engineer
REG. Consultant & Panel Valuer
SHIRPUR-425405 Dist-Dhule

(Handwritten Signatures)
अध्यक्ष
बोराडी परिसर शेतकरी उत्पादक