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SAMARTH
CONSTRUCTION & INFRASTRUCTURE, SHIRPUR
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ESTIMATE

Name of work :- Construction of 1000 MT Warehouse Unit For "Shindkheda
Producer Company Limited"
at -Varpade, in Gat No. 79/2B, Tal-Shindkheda , Dist- Dhule Under
बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन(स्मार्ट)योजना

Chairman : Mr. Hemant Devidas Salunkhe

ESTIMATE FOR THE YEAR 2021-2022

**Name of work :- Construction of 1000 MT Warehouse Unit For "Shindkheda Producer Company
Limited"**

Under बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन(स्मार्ट)योजना
जागतिक बँक सहायत उपक्रम

Estimated Cost Rs 1,08,88,000.00

Name of work :- Construction of 1000 MT Warehouse Unit For "Shindkheda
Producer Company Limited"
at -Varpade, in Gat No. 79/2B, Tal-Shindkheda , Dist- Dhule Under

मा.बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन (स्मार्ट) योजना
जागतिक बँक सहायत उपक्रम

RECAPITULATION SHEET

Sr.No.	PARTICULERS	Amount In Rs.
A	Cost of Civil Work for Proposed Construction	9217962.06
B	Add Labour Insurance Charges @ 1%	92179.62
	Total Amount A+B+C	9310141.68
C	Add Goods and Services Tax @ 12%	1117217.00
D	Add 3% Fire Fighting on A	184359.24
E	Add 3% Electrification on A	276538.86
	Total Estimated Cost	10888256.79
	Say Rs.	108.88
In words- One Hundred Eight Lakh Eight Eight Thousand Rupees Only		



Gaurav D. Dorik
Er. Gaurav D. Dorik (B.E. Civil),
Consulting Engineer
Shirpur, Tal. Shirpur
Dist- Dhule.
Reg. No-TPDIRPD/143

Name of work :- Construction of 1000 MT Warehouse Unit For "Shindkheda Producer Company Limited"
at -Varpade, in Gat No. 79/2B, Tal-Shindkheda , Dist- Dhule Under



मा.बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन (स्मार्ट) योजनाजागतिक बँक सहायत उपक्रम

Abstract Sheet

Sr.No.	Description	Quantity	Unit	Rate	Amount
1.0	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 1.5 m.) By Mechanical Means [SSR Item No.21.02, Page No.259] 193.00/Cum	45.30	Cum	193.00	8743.02
2.0	Excavation for foundation in earth, soils of all types, sand, gravel and soft-murum, including removing the excavated material up to a distance of 50 meters 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 from 1.5m to 3.0m) By Mechanical Means [SSR Item No.21.04, Page No.189] 258.00/Cum	16.56	Cum	241.00	3990.96
3.0	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand-packing and compacting etc. complete. (SSR Item No 21.38, Page No 194) 1382.00/Cum	69.91	Cum	1815.90	126958.43
4.0	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. [SSR Item No 21.37, Page No 194] 795.00/Cum	561.59	Cum	730.90	410469.37
5.0	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 centring, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic microprocessor 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.) [SSR Item No.24.01, Page No. 215] 5830.00/Cum	69.91	Cum	5499.89	384524.15



6.0	<p>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 centring 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 microprocessor 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) [SSR Item No.25.11, Page No.219] 7104.00/cum</p>	16.56	Cum	6481.33	107330.82
					0.00
7.0	<p>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 microprocessor 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.) [SSR Item No.25.31, Page No.221] 13783.00/cum</p>	31.85	Cum	12170.23	387623.04
8.0	<p>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 centring, 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 microprocessor 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) [SSR Item No.25.50, Page No.223] 12269.00/cum</p>	16.45	Cum	10816.63	177970.45
					0.00



9.0	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 centring, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic microprocessor 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) [SSR Item No.26.05, Page No. 237]13932.00/cum	0.00	Cum	12281.83	0.00
10.0	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. [SSR Item No.26.33, Page No.233] 89702.00/MT	6.17	Mt	71926.81	444109.50
11.0	Providing and fixing in position HCRM / CRS (Corrosion Resistant Steel) 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. [SSR Item No.26.34, Page No.233] 94136.00/MT	0.62	Mt	83326.00	51449.34
12.0	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in plinth as backing in composite masonry including bailing out water manually, striking joints, raking out joints and watering etc Complete. SSR I.NO. 27.03 @ 7116.00 Per Cum	13.55	Cum	7473.45	101235.95
13.0	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. [SSR Item No.27.05, Page No.242] 7994.00/Cum	134.59	Cum	7927.45	1066933.30



14.0	Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm 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 COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um 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 pan at nominal 180-250 mm centre- to-centre. The end rib 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.25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (Weight of profile 4.52 Kilogram/Square Metre) [SSR Item No. 38.34, Page no.291] 1173.00/Sqm	611.675	Sqm	1095.00	669783.91
					0.00
15.0	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.[SSR Item No.32.04 Page No.256] 278.00/Sqm	565.168	Sqm	271.32	153341.38
16.0	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. Complete. [SSR Item No.32.07 Page No.256] 382.00/Sqm	442.596	Sqm	377.01	166863.12
17.0	Providing and laying Rough Shahabad Stone Flooring 50mm to 60mm thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. etc. complete. [SSR Item No.33.03, Page No.261] 900.00/Sqm	591.149	Sqm	846.00	500111.88
18.0	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 anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete. [SSR Item No.23.04, Page No.212] 110450.00/MT	35.460	Mt	105909.00	3755533.14
19.0	Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sq.m as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete. [SSR Item No.40.01, Page No.329] 2097.00/Sqm	11.520	Sqm	1845.00	21254.40



20.0	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. [SSR Item No.36.12, Page No.280], 80.00/Sqm	565.168	Sqm	70.00	
21.0	Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. [SSR Item No.35.13, Page No.276], 79.00/Sqm	442.596	Sqm	74.00	32752.10
22.0	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) (Without mechanical gear) [SSR Item No.39.24, Page No.307],	21.000	Sqm	4310.00	90510.00
23.0	Providing and fixing screw down 15 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete [SSR Item No.41.43, Page No.337], 516.00/No	2.000	No	468.00	936.00
24.0	Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer-in-charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self-locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc., complete. With colour anodising without box [SSR Item No.39.42, Page No.316]	24.960	Sqm	5471.00	136556.16

25.0	Providing and fixing on walls/ceiling/floor 20 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. [SSR Item No.42.56, Page No.349], 310.00/Ram	20.000	Rgm	285.00	5700.00
26.0	Providing and fixing H.D.P container one piece moulded water tank made out of high density polythylar and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow pipe inclusive of all tanks capacity between 200 to 1000 litres [SSR Item No.42.53, Page No.349], 14.00/lit	5000.000	Ltr	13.00	65000.00
27.0	Turbo Ventilator 24" : Providing and fixing wind operated turbo ventilator system of various sizes over the existing roof including cutting CGI sheet, proper fixing in position to true line and level with all fixtures and fastenings including etc. complete. [SSR I.No. 42 on P.No. 67219702.00/No	8.000	No	8680.00	69440.00
28	Sand Royalty Charges for this work.As per Government Of Maharashtra Revenue and Forest Departments Gazette No. 146 Dt. 04 June 2021, States that the Royalty Charges of Rs.600/- Per Brass (i.e. Rs.211.95/Cu.M.) are to be considered. The surcharge levied on Royalty shall also be payable to the contractor.	127.37	Nos	237.37	30234.30
29	Other Minerals Royalty Charges for this work.As per Government Of Maharashtra Revenue and Forest Departments Gazette No. 146 Dt. 04 June 2021, States that the Royalty Charges of Rs.600/- Per Brass (i.e. Rs.211.95/Cu.M.) are to be considered. The surcharge levied on Royalty shall also be payable to the contractor.	879.11	Nos	216.18	190045.58
30	Carrying out Tests for CEMENT, Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness including all leads and Stacking etc Completed	1.00	Nos	3770.00	3770.00
31	Carrying out Tests for AGGREGATES, Water Absorption, Specific Gravity, Impact Value /Crushing Value of Aggregates including all leads and Stacking etc Completed	1.00	Nos	2495.00	2495.00
32	Carrying out Tests for BRICKS, Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks) of Bricks including all leads and Stacking etc Completed	1.00	Nos	6525.00	6525.00
33	Carrying out Tests for CONCRETE, Compressive Strength OF C.C. Cube(Set of 3 cubes) of Concrete including all leads and Stacking etc Completed	1.00	Nos	6210.00	6210.00
				Total	9217962.06
				SAY	Rs. 92.18 Lakhs



Gaurav
Er. Gaurav D. Dorik (B.E. Civil),
 Consulting Engineer
 Shirpur, Tal. Shirpur
 Dist-Dhule.
 Reg.No-TPD/RPD/143

Name of work :- Construction of 1000 MT Warehouse Unit For "Shindkheda Producer Company Limited"
at -Varpade, in Gat No. 79/2B, Tal-Shindkheda , Dist- Dhule Under

मा.बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन (स्मार्ट) योजना
जागतिक बँक सहायत उपक्रम



Measurement Sheet

It.No.	Item of Work	No	Lenth	Breadth	Depth	Qty	T.Qty
1.0	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 1.5 m.) By Mechanical Means [SSR Item No.21.02, Page No.259]						
	Gr.I Outer Beams	9	4.300	0.300	0.450	5.225	45.301
	Gr.II Outer Beams	2	4.430	0.300	0.450	1.196	
	Gr.III Outer Beams	3	4.28	0.30	0.45	1.733	
	Gr.IV Outer Beams	6	4.32	0.30	0.45	3.499	
	Gr.V Outer Beams	2	4.62	0.30	0.45	1.247	
	C1 to C32	32	1.50	1.50	0.45	32.400	
							Cum
2.0	Excavation for foundation in earth, soils of all types, sand,gravel and soft 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 back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means [SSR Item No.21.04, Page No.187]						
	C1 to C32	32	1.50	1.50	0.23	16.560	16.560
3.0	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete. (SSR Item No.21.38, Page No.192)						
	C1 to C32	32	1.50	1.50	0.15	10.800	69.915
		1	34.21	17.28	0.10	59.115	
							Cum
4.0	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. [SSR Item No.21.37, Page No.191]						
		1	34.21	17.28	0.95	561.591	561.591
							Cum
5.0	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 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) [SSR Item No.24.01, Page No. 217]						
	C1 to C32	32	1.50	1.50	0.15	10.800	69.915
	WH	1	34.21	17.28	0.10	59.115	
							Cum
6.0	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 (Natural Sand / Crushed sand VSI Grade finely washed etc) [SSR Item No.25.11, Page No.222]						

Ist Portion	C1 to C32	32	1.20	1.20	0.23	10.598	16.560
II nd Portion	C1 to C32	32	0.90	0.90	0.23	5.962	



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 (Natural Sand / Crushed sand VSI Grade finely washed etc) [SSR Item No.25.31, Page No.224]

7.0

Upto Ground Level		16	0.30	0.45	0.99	2.138	31.850	
		4	0.35	0.45	0.99	0.624		
		6	0.30	0.45	0.99	0.802		
		4	0.23	0.45	0.99	0.410		
		6	0.57	0.30	0.99	1.016		
Upto Plinth Level		16	0.30	0.45	0.75	1.620		
		4	0.35	0.45	0.75	0.473		
		6	0.30	0.45	0.75	0.608		
		4	0.23	0.45	0.75	0.311		
		6	0.57	0.30	0.75	0.770		
Up above plinth Level		16	0.30	0.45	5.75	12.420		
		4	0.35	0.45	5.75	3.623		
		6	0.30	0.45	5.75	4.658		
		4	0.23	0.45	5.75	2.381		
								Cum

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 (Natural Sand / Crushed sand VSI Grade finely washed etc) [SSR Item No.25.50, Page No.225]

8.0

Gr.I Outer Beams	9	4.300	0.300	0.450	5.225	16.453	
Gr.II Outer Beams	2	4.430	0.300	0.450	1.196		
Gr.III Outer Beams	3	4.28	0.300	0.45	1.733		
Gr.IV Outer Beams	6	4.32	0.300	0.45	3.499		
Gr.V Outer Beams	2	4.62	0.300	0.45	1.247		
Lintel Beams	1	34.21	0.230	0.300	2.360		
	1	17.280	0.230	0.300	1.192		
							Cum

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 compacting , curing , finishing 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 (Natural Sand / Crushed sand VSI Grade finely washed etc) [SSR Item No.26.05, Page No. 230]

9.0

	0	0.00	0.00	0.000	0.00	0.000
	0	0.00	0.00	0.000	0.00	
	0	0.00	0.00	0.000	0.00	
	0	0.00	0.00	0.000	0.00	

							Cum
10.0	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. [SSR Item No. 26.33, Page No.236]						
	Qty of Footing	1	16.56	1.00	87.00	1440.72	6174.46
	Qty of Column	1	31.85	1.00	98.00	3121.31	Kg
	Qty of Beam	1	16.45	1.00	98.00	1612.43	6.174
	Qty of Chajja	1	0.00	1.00	67.00	0.00	
							MT
11.0	Providing and fixing in position HCRM / CRS (Corrosion Resistant Steel) 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. [SSR Item No.26.34, Page No.306]						
	10% Qty of Total Steel						0.62
12.0	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in plinth as backing in composite masonry including bailing out water manually, striking joints, raking out joints and watering etc Complete. SSR I.NO. 27.03 @ 7116.00 Per Cum						
	Gr.I Outer Beams	9	4.150	0.300	0.400	4.482	13.546
	Gr.II Outer Beams	4	4.280	0.300	0.150	0.770	
	Gr.III Outer Beams	6	4.16	0.300	0.150	1.123	
	Gr.IV Outer Beams	4	4.19	0.230	0.900	3.469	
	Gr.V Outer Beams	4	4.47	0.230	0.900	3.701	
							Cum
13.0	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. [SSR Item No.27.05, Page No.246]						
		9	4.150	0.300	5.600	62.748	134.587
		2	4.280	0.300	5.600	14.381	
		6	4.16	0.300	5.600	41.933	
		2	4.19	0.300	5.600	14.078	
		2	4.47	0.300	5.600	15.019	
	Deduction (Shutters)	4	2.500	0.300	2.100	6.300	13.572
	Windows W1	14	0.600	0.300	0.600	1.512	
		32	1.000	0.300	0.600	5.760	
							Cum
14.0	Providing and fixing colour coated Zinalume (R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm 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 COLORBOND (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 um, comprising of nominal 25 um exterior coat on top surface and nominal 10 um 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 pan at nominal 180-250 mm centre- to-centre. The end rib 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. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (Weight of profile 4.52 Kilogram/Square Metre) [SSR Item No. 38.34, Page no.291]						
	For Roofing	2	34.210	8.940		611.675	611.675

15.0	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish, to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. [SSR Item No.32.04. Page No.256]						
	L/W	2	34.210		5.600	383.152	442.596
	C/W	2	17.280		5.600	193.536	
	Deduction (Shutters)	4	2.500		2.100	21.000	
	Windows W1	32	0.600		0.600	11.520	565.168
							Sqm
16.0	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. Complete. [SSR Item No.32.07. Page No.256]						
	L/W	2	34.810		4.200	292.404	442.596
	C/W	2	17.880		4.200	150.192	
	Chajja	0	0.600		0.450	0.000	
17.0	Providing and laying Rough Shahabad Stone Flooring 50mm to 60mm thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. etc. complete. [SSR Item No.33.03. Page No.261]						
	Inside of Godown	1	34.210	17.280		591.149	591.149
18.0	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 anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete. [SSR Item No.23.04. Page No.214]						
	PEB Building Godown 34.21 x 17.28 = 591.14 x 60Kg/Sqm = 35468.93 Kg						35.460
19.0	Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete. [SSR Item No.40.01. Page No.329]						
	W1	32	0.600		0.600	11.520	11.520
20.0	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. [SSR Item No.36.12. Page No.285]						
	Qty Same as Itwm No.15						565.168
21.0	Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. [SSR Item No.35.13. Page No.281]						
	Qty Same as Item No.16						442.596
22.0	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) (Without mechanical gear) [SSR Item No.39.24, Page No.311]						
	Rs1	4	2.500		2.100	21.000	21.000
23.0	Providing and fixing screw down 15 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete [SSR Item No.41.43. Page No.337]						
							2.000

24.0	Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour As per drawing without box [SSR Item No.20.42, Page No.216]						
	W1	32	1.300		0.600	24.960	24.960
							Sqm
25.0	Providing and fixing on walls/ceiling/floor 20 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. [SSR Item No.42.56, Page No.351]						
	For inlet of Roof Tank	1	20.000				20.000
							Rgm
26.0	Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of high density polythylene and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet, outlet overflow pipe inclusive of all tanks capacity between 200 to 1000 liters [SSR Item No.42.53, Page No.350]						
	Water Tank	5	1000.000				5000.000
							Lit
27.0	Turbo Ventilator 24" : Providing and fixing wind operated turbo ventilator system of various sizes over the existing roof including cutting CGI sheet, proper fixing in position to true line and level with all fixtures and fastenings including etc. complete. [SSR I.No. 42 on P.No. 374]						
		8					8.000
							No.
28.0	Qty. of Material Utilised for Royalty for Sand as per statement attached.						
29.0	Qty. of Material Utilised for Royalty for Metal & Murum as per statement attached.						
30.0	BASIC TEST OF CEMENT Standard consistency Fineness specific Gravity setting Time (Initial & Final) Compressive strength Soundness						
		1					1.000
							No.
31.0	BASIC TEST OF AGGREGATE Water absorption, specific gravity impact value crushing value						
		1					1.000
							No.
32.0	BRICKS Water Absorption (set of 5 Bricks) compressive strength set of 4 Brick (Efflorescence						
		1					1.000
							No.
33.0	CONCRETE Compressive strength of C.C. Cube (Set of 3 Cubes)						
		1					1.000
							No.



Gaurav D. Dorik
Er. Gaurav D. Dorik (B.E. Civil)
 Consulting Engineer
 Shirpur, Tal. Shirpur
 Dist-Dhule.
 Reg.No-TPD/RPD/143

Name of work :- Construction of 1000 MT Warehouse Unit For "Shindkheda Producer Company Limited"

at -Varpade, in Gat No. 79/2B, Tal-Shindkheda , Dist- Dhule Under

मा.बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन (स्मार्ट) योजना
जागतिक बँक सहायत उपक्रम



S.No	MATERIAL	KM.	LEAD	INITIAL	NET
(1)	CEMENT	5.00	148.81	0.00	148.81
(2)	SAND	16.00	368.88	0.00	368.88
(3)	CR METAL	15.00	355.50	0.00	355.50
(4)	40MM METAL CB	15.00	340.69	0.00	340.69
(5)	BRICKS	10.00	479.26	0.00	479.26
(6)	SOLING/RUBBLE	15.00	434.92	0.00	434.92
(7)	STEEL	5.00	148.81	0.00	148.81
(8)	HARD MURUM	3.00	192.42	0.00	192.42

RATE ANALYSIS [SSR OF 2021-2022]

I.No	DESCRIPTION OF ITEM	QTY.	NET LEAD	RATE/UNIT
ITEM NO. 1 :-				
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 and stacking and spreading as directed, dewatering, preparing the bed for the SSR OF 2021-2022 ITEM NO. 21.02			193.00
TOTAL RATE Rs.				193.00 Per Cu.M.
ITEM NO. 2 :-				
2)	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. SSR OF 2021-22 ITEM NO. 21.06			241.00
TOTAL RATE Rs.				241.00 Per Cu.M.
ITEM NO. 3 :-				
3)	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete. Bd.A. 12 Page No. 264 SSR OF 2021-22 ITEM NO. 21.38 ADD LEAD CHARGES FOR RUBBLE	1.20000	434.92	1294.00 521.90
TOTAL RATE Rs.				1815.90 Per Cu.M.
ITEM NO.4 :-				
4)	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.[SSR Item No.21.37, Page No.194] 795.00/Cum [SSR Item No.21.37, Page No.194]			500.00

ADD LEAD CHARGES FOR HM

1.20000 192.42 230.90

TOTAL RATE Rs. 730.90



- 5) 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 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) Bd. E. 1 Page No. 287 [NOTE:- WITHOUT/NON SCADA]

SSR OF 2021-22 ITEM NO. 24.01			5538.00
DEDUCT FOR NON SCADA	10%		<u>-553.80</u>
			4984.20
ADD LEAD CHARGES FOR CEMENT	0.220	148.81	32.74
ADD LEAD CHARGES FOR SAND	0.470	368.88	173.37
ADD LEAD CHARGES FOR CR METAL	0.200	355.50	71.10
ADD LEAD CHARGES FOR 40MM METAL CE	0.700	340.69	238.48

TOTAL RATE Rs. 5499.89 Per Cu.M.

ITEM NO. 6 :-

- 6) 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. SSR OF 2021-22 ITEM NO. 25.11

			6666.00
DEDUCT FOR NON SCADA	10%		<u>-666.60</u>
			5999.40
ADD LEAD CHARGES FOR CEMENT	0.035	148.81	5.21
ADD LEAD CHARGES FOR SAND	0.425	368.88	156.77
ADD LEAD CHARGES FOR CR METAL	0.900	355.50	319.95

TOTAL RATE Rs. 6481.33 Per Cu.M.

ITEM NO. 7 :-



7) 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 SSR OF 2021-22 ITEM NO. 25.31

			12987.00
DEDUCT FOR NON SCADA	10%		-1298.70
			<u>11688.30</u>
ADD LEAD CHARGES FOR CEMENT	0.035	148.81	5.21
ADD LEAD CHARGES FOR SAND	0.425	368.88	156.77
ADD LEAD CHARGES FOR CR METAL	0.900	355.50	319.95

TOTAL RATE Rs. 12170.23 Per Cu.M.

ITEM NO. 8 :-

8) 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 SSR OF 2021-22 ITEM NO. 25.50

			11483.00
DEDUCT FOR NON SCADA	10%		-1148.30
			<u>10334.70</u>
ADD LEAD CHARGES FOR CEMENT	0.035	148.81	5.21
ADD LEAD CHARGES FOR SAND	0.425	368.88	156.77
ADD LEAD CHARGES FOR CR METAL	0.900	355.50	319.95

TOTAL RATE Rs. 10816.63 Per Cu.M.

ITEM NO. 9 :-

9) 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 centring, formwork, cover blocks compacting , curing , finishing and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic microprocessor based PLC with [SSR Item No.26.05, Page No. 230]

			13111.00
DEDUCT FOR NON SCADA	10%		-1311.10
			<u>11799.90</u>
ADD LEAD CHARGES FOR CEMENT	0.035	148.81	5.21
ADD LEAD CHARGES FOR SAND	0.425	368.88	156.77

ADD LEAD CHARGES FOR CR METAL

0.900 355.50 319.95

TOTAL RATE Rs. 12281.83



ITEM NO. 10 :-

- 10) 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 Bd F 17 Page No. 306 SSR OF 2021-22 ITEM NO. 26.33

71778.00

ADD LEAD CHARGES FOR STEEL

1.00 148.81 148.81

TOTAL RATE Rs. 71926.81

Per M.T.

ITEM NO. 11 :-

- 11) Providing and fixing in position HCRM / CRS (Corrosion Resistant Steel) bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins. [SSR Item No.26.34, Page No.306]

83326.00

TOTAL RATE Rs. 83326.00

Per M.T.

ITEM NO. 12 :-

- 12) Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in plinth as backing in composite masonry including bailing out water manually, striking joints, raking out joints and watering etc Complete [SSR Item No.27.03, Page No.314]

7116.00

ADD LEAD CHARGES FOR CEMENT

0.07900 148.81 11.76

ADD LEAD CHARGES FOR SAND

0.32000 368.88 118.04

ADD LEAD CHARGES FOR BRICKS

0.47500 479.26 227.65

TOTAL RATE Rs. 7473.45

Per Cu.M.

ITEM NO. 13 :-

- 13) 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. [SSR Item No.27.05, Page No.246]

[SSR Item No.27.05, Page No.315]

7570.00

ADD LEAD CHARGES FOR CEMENT

0.07900 148.81 11.76

ADD LEAD CHARGES FOR SAND

0.32000 368.88 118.04

ADD LEAD CHARGES FOR BRICKS

0.47500 479.26 227.65

TOTAL RATE Rs. 7927.45

Per Cu.M.

ITEM NO. 14 :-



- 14) Providing and fixing colour coated Zincalume (R) AZ150 (min 150 gms/sq.mt. Total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT) (0.5 mm TCT). Hi- [SSR Item No. 38.34, Page no.291]

	1095.00	
TOTAL RATE Rs.	1095.00	Per Sq.m

ITEM NO. 15 :-

- 15) Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.[SSR Item No.32.04, Page No.256]

[SSR Item No. 32.04, Page no.256]			264.00
ADD LEAD CHARGES FOR CEMENT	0.01200	148.81	1.79
ADD LEAD CHARGES FOR SAND	0.01500	368.88	5.53

TOTAL RATE Rs.	271.32	Per Sq.M.
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ITEM NO. 16 :-

- 16) Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. Complete. [SSR Item No.32.07, Page No.256]

[SSR Item No.32.07, Page No.256]			366.00
ADD LEAD CHARGES FOR CEMENT	0.01200	148.81	1.79
ADD LEAD CHARGES FOR SAND	0.02500	368.88	9.22

TOTAL RATE Rs.	377.01	Per Sq.M.
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ITEM NO. 17 :-

- 17) Providing and laying Rough Shahabad Stone Flooring 50mm to 60mm thick and of required width in plain/ diamond pattern on a bed of 1:6 C.M. including cement float, striking joints, pointing in cement mortar 1:3 curing and cleaning etc. etc. complete. [SSR Item No.33.03, Page No.261]

			846.00
TOTAL RATE Rs.			846.00

ITEM NO. 18 :-

- 18) 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 [SSR Item No.23.04, Page No.214]

			105909.00
TOTAL RATE Rs.			105909.00

ITEM NO. 19 :-



- 19) Providing and fixing mild steel grill work for windows, ventilators etc. 20 kg/sqm as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete. [SSR Item No.40.01, Page No.329]
[SSR Item No.40.01, Page No.329]

1845.00	
TOTAL RATE Rs.	1845.00

Per Sq.m

ITEM NO. 20 :-

- 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. [SSR Item No.36.12, Page No.285]
[SSR Item No.36.12, Page No.285]

70.00	
TOTAL RATE Rs.	70.00

Per Sq.m

ITEM NO. 21 :-

- 21) Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. [SSR Item No.35.13, Page No.281]

74.00	
TOTAL RATE Rs.	74.00

Per Sq.m

ITEM NO. 22 :-

- 22) 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 [SSR Item No.39.24, Page No.311]

4310.00	
TOTAL RATE Rs.	4310.00

Per Sq.m

ITEM NO. 23 :-

- 23) Providing and fixing screw down 15 mm dia. wheeled stop tap of brass including necessary sockets/union nut complete [SSR Item No.41.43, Page No.337]

468.00	
TOTAL RATE Rs.	468.00

Nos

ITEM NO. 24 :-

- 24) Providing and fixing in position (as per 1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter [SSR Item No.39.42, Page No.316]

5471.00	
TOTAL RATE Rs.	5471.00

Per Sq.m

ITEM NO. 25 :-

- 25) Providing and fixing on walls/ceiling/floor 20 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.

[SSR Item No.42.56, Page No.351]

285.00

TOTAL RATE Rs.

285.00

Per Rgm

ITEM NO. 26 :-

- 26) Providing and fixing H.D.P container Syntex or alike one piece moulded water tank made out of high density polythylene and built corrugated inclusive of delivery up to destination hoisting and fixing of accessories such as inlet,outlet overflow pipe inclusive of all tanks capacity between 200 to 1000 liters [SSR Item No.42.53, Page No.350]

13.00

TOTAL RATE Rs.

13.00

Per lit

ITEM NO. 27 :-

- 27) Turbo Ventilator 24" : Providing and fixing wind operated turbo ventilator system of various sizes over the existing roof including [SSR I.No. 42 on P.No. 374]

8680.00

TOTAL RATE Rs.

8680.00

Nos



Name of work :- Construction of 1000 MT Warehouse Unit For "Shindkheda Producer Company Limited"

at -Varpade, in Gat No. 79/2B, Tal-Shindkheda , Dist-Dhule Under

मा. बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन (स्मार्ट) योजना
जागतिक बँक सहायत उपक्रम



MATERIAL COMPONENT

Item No.	Description	Total Qty.	Unit	Cement		Metal 40mm and Above		Metal 40mm and Below		Sand		Steel		Bricks		SM / HM	
				Const. Val	Qty	Const. Val	Quantity	Const. Val	Qty	Const. Val	Qty	Const. t. Val	Qty	Const. t. Val	Qty	Quantity	
3.0	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand-packing and compacting etc. complete. (SSR)	69.91	Cum	1.20	83.90												
4.0	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. (SSR Item No.21.37, Page No.1041.205.00/C-10)	561.59	Cum													1.20	673.91
5.0	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for	69.91	Cum	0.22	15.38	0.90	62.92	0.470	32.86								
6.0	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	16.56	Cum	0.035	0.58	0.90	14.90	0.425	7.04								
					0.00												



7.0	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	31.85	Cum	0.035	1.11					0.90	28.67	0.425	13.54					
					0.00													
8.0	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	16.45	Cum	0.035	0.58					0.90	14.81	0.425	6.99					
					0.00													
9.0	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	0.00	Cum	0.035	0.00					0.90	0.00	0.425	0.00					
					0.00													
12.0	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	13.55	Cum	0.079	1.07							0.320	4.33		0.475	6.43		
13.0	Providing Second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in Superstructure including s	134.59	Cum	0.079	10.63							0.320	43.07		0.475	63.93		
15.0	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces	565.17	Sqm	0.012	6.78							0.015	8.48					
18.0	Providing internal cement plaster 20mm thick in two coats in cement mortar 1:4 without	442.60	Sqm	0.012	5.31							0.025	11.06					
					0.00													




**Name of work :- Construction of 1000 MT Warehouse Unit For "Shindkheda Producer Company Limited"
at -Varpade, in Gat No. 79/2B, Tal-Shindkheda , Dist-Dhule Under**

FREQUENCY TEST									
Sr. No.	Item of work	Total Estimate Quantity	Type of test	Frequency of test	Total No. of test	No. of test to be carried out at site lab	No. Of carried out in nearest quality control lab of vigilance & Quality control circle dhule	Rate as per VCC Nashik	Rate as per VCC Nashuk (6 X 9)
1	2	3	4	5	6	7	8	9	10
1	Sand	127.37	a) Site test b) gradation	1 test/Source 1 test/Source	1 1	2 2	3 3	800 1300	800 1300
2	Crush Metal	121.30	a) water absorption b) Sieve Analysis c) Abration Value d) Flakiness index & Elongation index e) Stripping Value f) Soundness g) Bulk density	1 test/200 m3 1 test/200 m3 1 test/200 m3 1 test/200 m3 1 test/200 m3 1 test/200 m3 1 test/200 m3	1 1 1 1 1 1 1	4 4 4 4 4 4 4	3 3 3 3 3 3 3	2600 690 1170 850 745 2495 300	2600 690 1170 850 745 2495 300
3	Cement	41.45	x) Stabdard consistancy Fineness, Specific Gravity Setting (Initial & Final), compressive strength	1 test/50 Tonnes	1	10	8	3770	3770

4	Cement Concrete	118.325	Y) Compressive strength (Kg/Sqm)	f) Cement concrete compressive strength Qty of 3 cubes upto section 5 cum-1 set 6-15 cum-2 set 16-30 cum-3 set 31/50 cum-4 set 51 and above-4 set + Addition for each additional 50 cum or part the of (per	9	18	18	690	6210
5	Steel	6.174464	Upto 16 mm (Set of 3 Bars) 1 Test 1200 Above 16 mm (Set of 3 Bar) (Tensile strength, %, Elongation, Yield)	1 Test per 5 mt 1 Test per 5 mt	1	1	1	1275	1275
6	Bricks	148.1333	Crushing Value, Water absorption, Efflorescences	1 Test per 50000 consignment or part	3	0	0	2175	6525
								Total Rs.	28730




Er. Gaurav D. Dorik (B.E. Civil)
 Consulting Engineer
 Shirpur, Tal. Shirpur
 Dist-Dhule.
 Reg.No.-TPD/RPD/143

Name of work :- Construction of 1000 MT Warehouse Unit For "Shindkheda
Producer Company Limited"
at -Varpade, in Gat No. 79/2B, Tal-Shindkheda , Dist- Dhule Under

मा.बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन (स्मार्ट) योजना
जागतिक बँक सहायत उपक्रम

QUARRY CHART

LEAD CHART [PWD SSR OF 2021-2022]

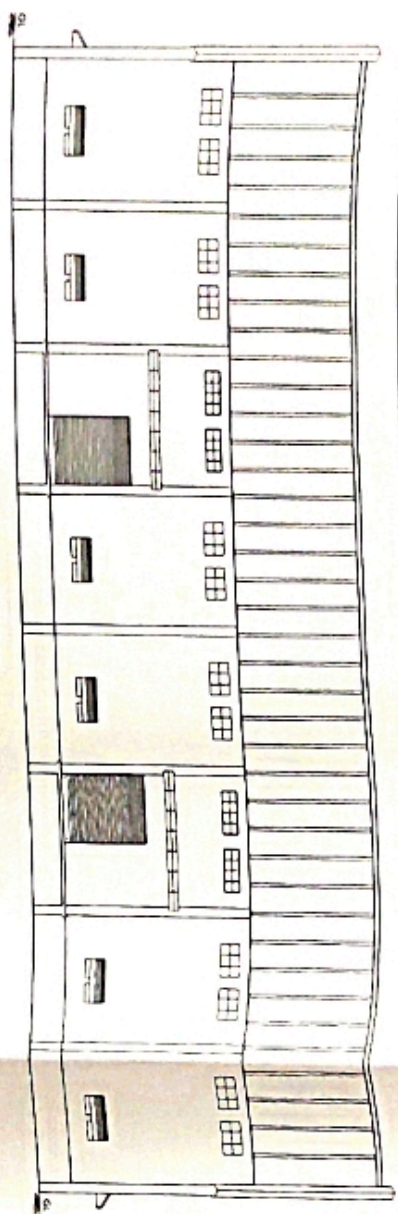
S.No	MATERIAL	KM.	LEAD	INITIAL	NET	REMARK
1)	CEMENT	5.0	148.81	0.00	148.81	
2)	SAND	16.0	368.88	0.00	368.88	
3)	CR METAL	15.0	355.50	0.00	355.50	
4)	40MM METAL CB	15.0	340.69	0.00	340.69	
5)	BRICKS	10.0	479.26	0.00	479.26	
6)	SOLING/RUBBLE	15.0	434.92	0.00	434.92	
7)	STEEL	5.0	148.81	0.00	148.81	
8)	HARD MURUM	3.0	192.42	0.00	192.42	
	0					

CERTIFICATE

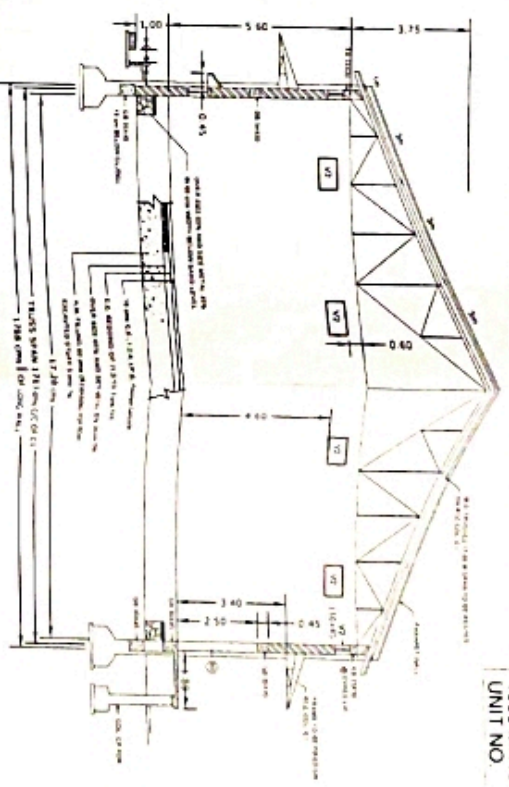
Certified that I have visited the quarry sites & distance shown as lead is
corrects & sufficient quantity will be available from quarry.



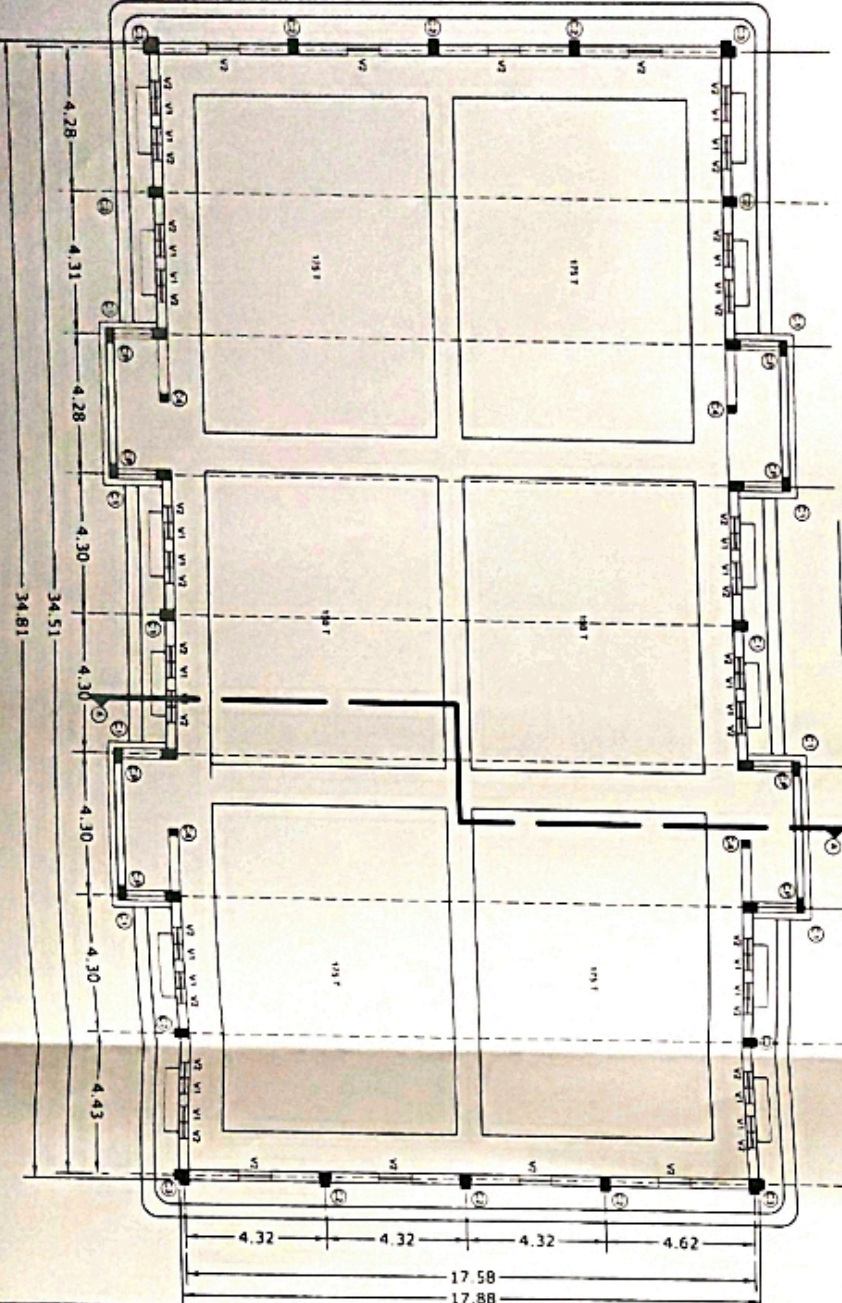
Gaurav D. Dorik
Er. Gaurav D. Dorik (B.E. Civil)
Consulting Engineer
Shirpur, Tal. Shirpur
Dist- Dhule.
Reg. No-TPD:RPD/143



ELEVATION



SECTION A-A



PLAN FOR 1/1000 MT. WH.

SCHEDULE OF R. C. C. COLUMNS

TYPE	SIZE	NO	REMARKS
C1	30 X 45	10	@ LONG WALLS
C2	30 X 45	10	@ CABLE WALLS
C3	35 X 45	04	@ CABLE WALLS
C4	21 X 35	04	TO BE POSTED ON @ RS PANNELS
C5	21 X 35	08	FOR PLATFORM B/L/O/R



BUILT UP AREA CALCULATIONS
 MAIN BUILDING @ 34.81 X 17.88 = 622.40 SQ M
 PLATFORM @ 4.62 X 180 = 831.60 SQ M
 TOTAL BUILT AREA = 1454.00 SQ M

SCHEDULE OF ROLLING SHUTTERS/MENILATORS

TYPE	SIZE (H. DPTH)	NO	DESCRIPTION
M	210 X 150	4	ROLL & RIDE TYPE (STD) FROM M/SDF STILL ROLLING SHUTTER REF. SPECIFICATION
V1	60 X 60	16	STYL VENTILATORS TILT GUARDED WITH SHUTTER (TO BE FIXED BY 10mm x 10mm x 5mm L-STEEL SA PANS (7 NOS.) IN VERTICAL POSITION @ 10mm C/C (FIXED TO TRAILER FROM OUTSIDE)
V2	100 X 60	24	25mm SD PANS (17 NOS.) IN VERTICAL POSITION @ 10mm C/C (FIXED TO TRAILER FROM OUTSIDE)
V3	150 X 45	8	25mm SD PANS (13 NOS.) IN VERTICAL POSITION @ 10mm C/C (FIXED TO TRAILER FROM OUTSIDE)

PLAN FOR 1000 MT TRAILER MOBILE
 SHINDKHEDA PRODUCER COMPANY LTD
 CAT NO 79/2B AT - VARPADE, TAL. SHINDKHEDA
 DIST DHULE.

CHARTERED ENGINEERS' STAND B. SIGN



Er. Gaurav D. Dorkar (B.E. CIVIL)
 Consulting Engineer
 Shipur, Tal. Shipur
 Dist. Dhule
 Reg. No. TPDR/PPD/145

1000 MT CAPACITY
 UNIT NO.