



SAMARTH

CONSTRUCTION & INFRASTRUCTURE, SHIRPUR

CHARTERED ENGINEER & CONSULTING ENGINEERS

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ESTIMATE

Name of work :- Construction of Working shed Unit of Cleaning / Grading/Packing /Oil Mill/ Farmers Equipment Bank For "Shindkheda Producer Company Limited"at - Varpade in Gat No. 79/2B , Tal-Shindkheda , Dist- Dhule Under

Chairman : Mr. Hemant Devidas Salunkhe

ESTIMATE FOR THE YEAR 2021-2022

Under बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन(स्मार्ट)योजना

Name of work :- Construction of Working Shed 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
जागतिक बँक सहायत उपक्रम

Estimated Cost Rs 88,50,877.00

Name of work :- Construction of Working shed Unit of Cleaning / Grading/Packing /Oil Mill/ Farmers Equipment Bank 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

RECAPITULATION SHEET

Sr.No.	PARTICULERS	Amount In Rs.
A	Cost of Civil Work for Proposed Construction	7622181.87
B	Add Labour Insurance Charges @ 1%	76221.82
	Total Amount A+B+C	7698403.69
C	Add Goods and Services Tax @ 12%	923808.44
D	Add 3% Fire Fighting on A	228665.46
	Total Estimated Cost	8850877.59
	Say Rs.	88.50
In words- Eighty Eight Lakh Fifty Thousand Rupees Only		



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

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 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	13.46	Cum	6481.33	87206.30
					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 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	30.71	Cum	12170.23	373729.46
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 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	24.80	Cum	10816.63	268273.11
					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	2.86	Cum	12281.83	35150.60
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] 80702.00/MT	6.80	Mt	71926.81	489271.98
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	0.68	Mt	83326.00	56681.34
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	19.38	Cum	7473.45	144838.90
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	57.82	Cum	7927.45	458381.01



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	762.906	Sqm	1095.00	835382.51
					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	209.040	Sqm	271.32	56716.73
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	441.921	Sqm	377.01	166608.64
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	425.745	Sqm	846.00	360180.10
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	25.440	Mt	105909.00	2694324.96
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	45.000	Sqm	1845.00	83025.00

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	209.040	Sqm	70.00	14632.80
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	441.921	Sqm	74.00	32702.15
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],	18.000	Sqm	4310.00	77580.00
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	3.000	No	468.00	1404.00
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]	36.000	Sqm	5471.00	196956.00
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/Rom	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.	103.55	Nos	237.37	24580.69
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.	708.20	Nos	216.18	153098.86
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	2600.00	2600.00
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	2175.00	2175.00
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	690.00	690.00
				Total	7622181.87
				SAY	Rs. 76.22 Lakhs



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

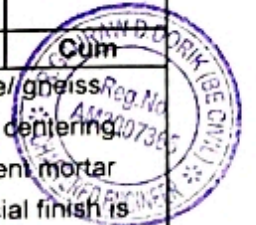
Name of work :- Construction of Working shed Unit of Cleaning / Grading/Packing /Oil Mill/ Farmers Equipment Bank For "Shindkheda Producer Company Limited" at - Varpade in Gat No. 79/2B , Tal-Shindkheda , Dist- Dhule Under मा.बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन (स्मार्ट) योजना जागतिक बँक 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	18	3.300	0.300	0.300	5.348	100.714
	Gr.II Outer Beams	8	3.080	0.300	0.300	2.218	
	C1 to C26	26	1.50	1.50	1.50	87.750	
	Steps	2	3.00	2.00	0.45	5.400	
							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 C26	26	1.50	1.50	0.30	17.550	29.250
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)						
		26	1.50	1.50	0.20	11.700	77.362
	Hall	1	24.44	17.42	0.15	63.862	
	Steps	2	3.00	2.00	0.15	1.800	
							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	24.44	17.42	0.95	404.458	404.458
							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 C26	26	1.50	1.50	0.15	8.775	72.637
	Hall	1	24.44	17.42	0.15	63.862	
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 C26	26	1.20	1.20	0.23	8.611	13.455

Item No	Description	26	0.90	0.90	0.23	4.844	
	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]	26	0.23	0.53	0.99	3.138	30.708
7.0		26	0.23	0.53	1.20	3.803	
		26	0.23	0.53	3.05	9.667	
		26	0.23	0.45	0.99	2.664	
		26	0.23	0.45	1.20	3.229	
		26	0.23	0.45	3.05	8.208	
							Cum
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 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]	18	3.300	0.230	0.450	6.148	24.802
		8	3.080	0.230	0.380	2.154	
		7	17.420	0.230	0.380	10.658	
		2	24.920	0.230	0.300	3.439	
		2	17.420	0.230	0.300	2.404	
							Cum
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 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]	25	1.800	0.450	0.120	2.430	2.862
		2	3.000	0.600	0.120	0.432	
							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, 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]	1	13.46	1.00	87.00	1170.59	6802.36
		1	30.71	1.00	98.00	3009.43	Kg
		1	24.80	1.00	98.00	2430.59	6.802
		1	2.86	1.00	67.00	191.75	
							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					0.68	
							MT
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						
	For Steps block two sides	2	3.000	2.000	0.400	4.800	19.380
		2	3.000	1.750	0.150	1.575	
		2	3.000	1.500	0.150	1.350	
		2	3.000	1.250	0.150	1.125	
		2	3.000	1.000	0.150	0.900	
		2	3.000	0.750	0.150	0.675	
		2	3.000	0.500	0.150	0.450	
		2	3.000	0.250	0.150	0.225	
	Gr.I Outer Beams	18	3.300	0.230	0.450	6.148	
Gr.II Outer Beams	8	3.050	0.230	0.380	2.133		
						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]						
	Gr.I Outer Beams	18	3.300	0.230	3.000	40.986	72.312
	Gr.II Outer Beams	8	3.050	0.230	3.000	16.836	
	Deduction (Shutters)	2	3.000	0.230	3.000	4.140	14.490
	Windows W1	25	1.500	0.230	1.200	10.350	57.822
						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	1	24.920	17.420		434.106	762.906
	L/s & R/s Wall	2	24.920	3.000		149.520	
	Front & Rear Wall	2	17.420	3.000		104.520	
	For Gable End(1/2xBxH)	2	0.500	24.920	3.000	74.760	
						Sqm	
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]						
	Hall L/W	2	24.920		3.000	149.520	272.040
	Hall C/W	2	17.420		3.000	104.520	
	Deduction (Shutters)	2	3.000		3.000	18.000	63.000
	Windows W1	25	1.500		1.200	45.000	209.040
						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]						
	Hall LW	2	24.920		4.200	209.328	441.921
	Hall CW	2	17.420		4.200	146.328	
	Column offset	54	0.300		4.200	68.040	
	Chajja	27	1.500		0.450	18.225	Sqm
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	24.440	17.420		425.745	425.745
							Sqm
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 24.44 x 17.42 = 425.74 x 60Kg/Sqm = 25444.68 Kg						25.440
							MT
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	25	1.500		1.200	45.000	45.000
							Sqm
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 Item No.15						209.040
							Sqm
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						441.921
							Sqm
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	2	3.000		3.000	18.000	18.000
							Sqm
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]						
		3					3.000
							No.
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						
	Applying without box [SSR Item No.20.42. Page No.246]						

	W1	20	1.500		1.200	36.000	36.000
							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 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 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 includign 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 consistancy Fineness specific Gravity setting Time (Intial & 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) comporessive 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.




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

Name of work :- Construction of Working shed Unit of Cleaning / Grading/Packing /Oil Mill/ Farmers
Equipment Bank For "Shindkheda Producer Company Limited" at - Varpade in Gat No. 79/2B,
Shindkheda , Dist- Dhule Under



मा.बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन (स्मार्ट) योजनाजागतिक 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%		-553.80
			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

DEDUCT FOR NON SCADA	10%		6666.00
			-666.60
			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
			11688.30
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
			10334.70
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
			11799.90
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
ADD LEAD CHARGES FOR STEEL

71778.00

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]
ADD LEAD CHARGES FOR CEMENT
ADD LEAD CHARGES FOR SAND
ADD LEAD CHARGES FOR BRICKS

7116.00

0.07900 148.81 11.76
0.32000 368.88 118.04
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]
ADD LEAD CHARGES FOR CEMENT
ADD LEAD CHARGES FOR SAND
ADD LEAD CHARGES FOR BRICKS

7570.00

0.07900 148.81 11.76
0.32000 368.88 118.04
0.47500 479.26 227.65

TOTAL RATE Rs. 7927.45

Per Cu.M.

ITEM NO. 14 :-



- 14) 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- [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]
[SSR Item No.33.03, Page No.261]

			846.00
TOTAL RATE Rs.			846.00

Per Sq.m

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

Per Sq.m

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 Working shed Unit of Cleaning / Grading/Packing /Oil Mill/ Farmers Equipment Bank 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


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	Const. t. Val	
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).	77.36	Cum			1.20	92.83										
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)	404.46	Cum													1.20	485.35
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	72.64	Cum	0.22	15.98			0.90	65.37	0.470	34.14						
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	13.46	Cum	0.035	0.47			0.90	12.11	0.425	5.72						
					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.	6.80	Sqm	0.00	32.40	92.83	Cum	130.02	Cum	103.55	Cum	6.80	Cum	36.67	Cum	485.35
	Total Quantity	1361.25														
	Total Quantity of Sand For Royalty					103.55	Cum									
	Total Amount of Royalty for Sand @ Rs. 237.37/Cum				103.55	x	237.37									
	Total Quantity of other items For Royalty				228.79	Cum	708.20	Cum								
	Total Amount of Royalty for Other minerals @ Rs. 21				708.20	x	216.18									
	Total Amount of Royalty in Rs.															
							<u>177679.55</u>									




 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**



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 absorprtion	1 test/200 m3	1	4	3	2600	2600
			b) Sieve Analysis	1 test/200 m3	1	4	3	690	690
			c) Abration Value	1 test/200 m3	1	4	3	1170	1170
			d) Flakiness index & Elongation index	1 test/200 m3	1	4	3	850	850
			e) Stripping Value	1 test/200 m3	1	0	0	745	745
3	Cement	41.45	f) Soundness	1 test/200 m3	1	4	3	2495	2495
			g) Bulk density	1 test/200 m3	1	4	3	300	300
			x) Stabdard consistency 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)	9	18	18	690	6210	
			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 day)						
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	1	1	1275	1275	
6	Bricks	148.1333	Crushing Value, Water absorption, Efflorescences	0	0	0	1595	0	
				3	3	2	2175	6525	
							Total Rs.	28730	



Gaurav
Er. Gaurav D. Dorik (B.E. Civil)
 Consulting Engineer
 Shirpur, Tal. Shirpur
 Dist-Dhule
 Reg. No. TP/29/PM/13

Name of work :- Construction of Working shed Unit of Cleaning / Grading/Packing /Oil Mill/ Farmers Equipment Bank 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

QUARRY CHART

LEAD CHART [PWD SSR OF 2021-2022]

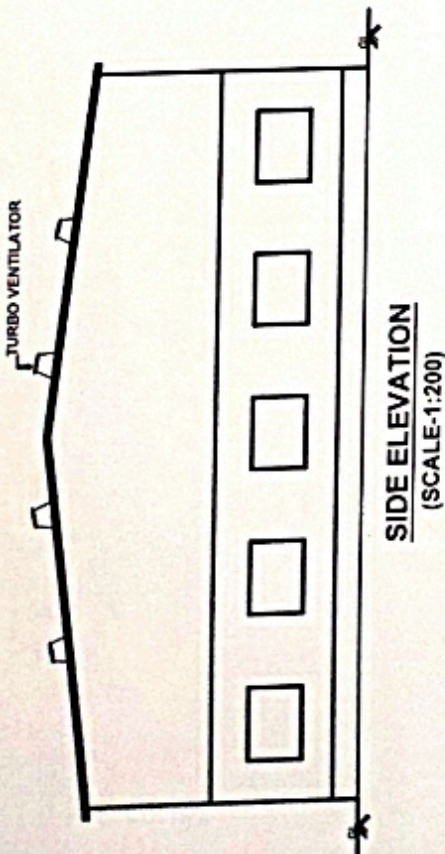
S.No	MATERIAL	KM.	LEAD	INITIAL	NET	REMARK
1)	CEMENT	5.0	148.81	0.00	148.81	
2)	SAND	16.0	368.88	0.00	368.88	
3)	CR METAL	15.0	355.50	0.00	355.50	
4)	40MM METAL CB	15.0	340.69	0.00	340.69	
5)	BRICKS	10.0	479.26	0.00	479.26	
6)	SOLING/RUBBLE	15.0	434.92	0.00	434.92	
7)	STEEL	5.0	148.81	0.00	148.81	
8)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

CERTIFICATE

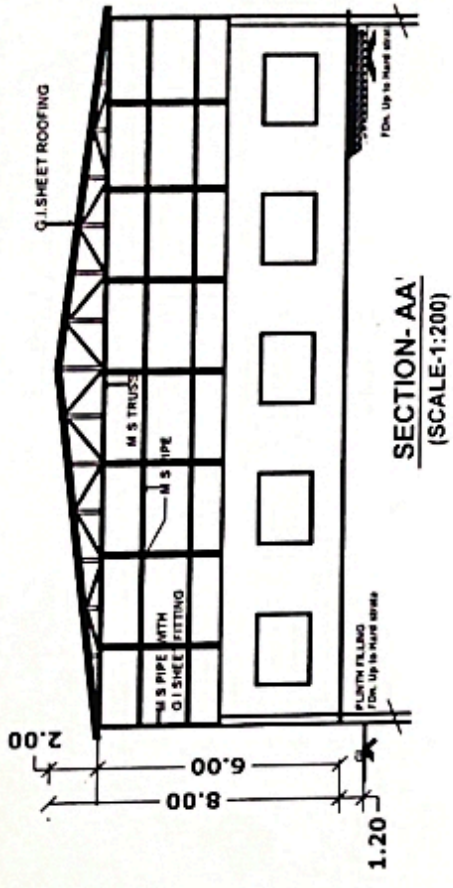
Certified that I have visited the quarry sites & distance shown as lead is corrects & sufficient quantity will be available from quarry.



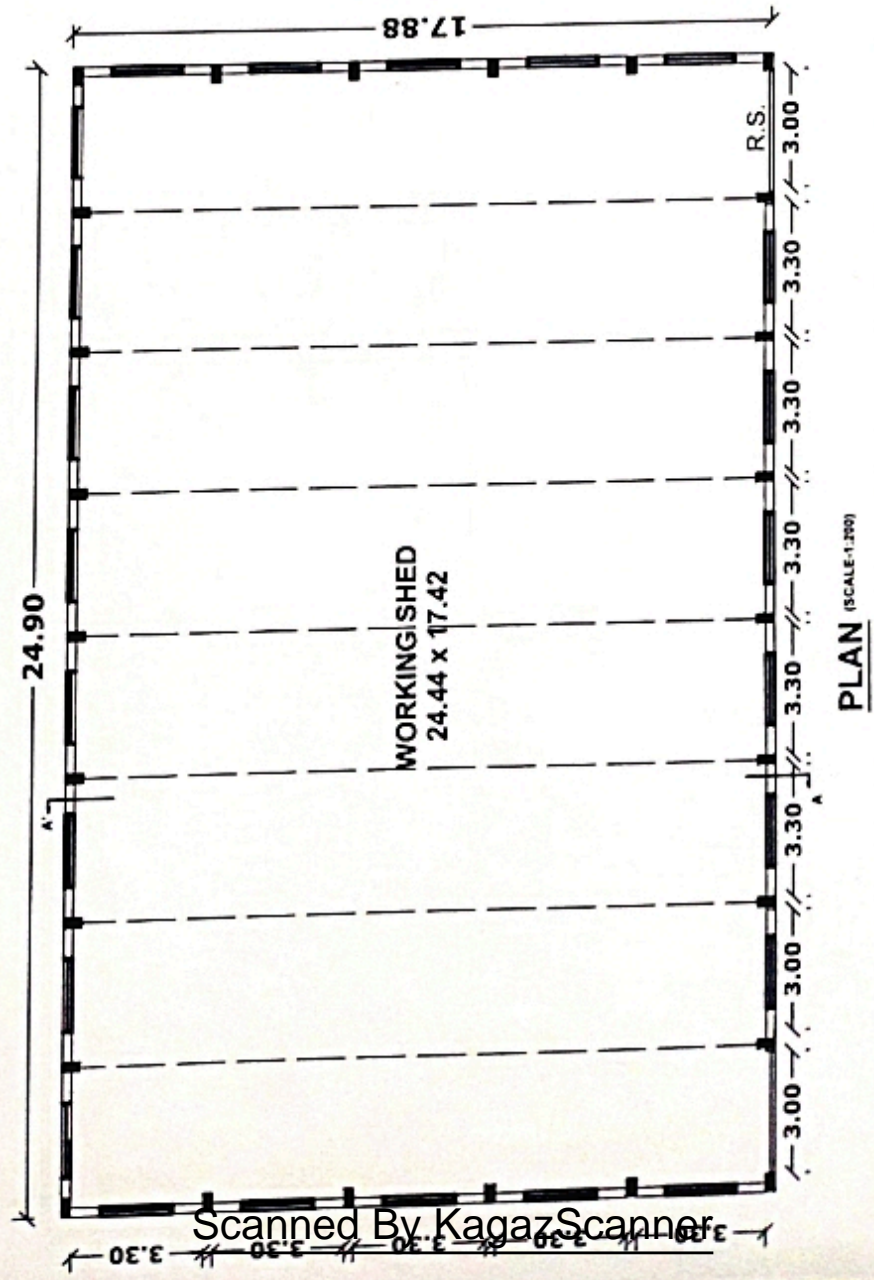
Gaurav D. Dorik
Er. Gaurav D. Dorik (B.E. Civil)
Consulting Engineer
Shirpur, Tal. Shirpur
Dist- Dhule.
Reg No-TRD/PPD/113



SIDE ELEVATION
(SCALE-1:200)



SECTION-AA'
(SCALE-1:200)



AREA STATEMENT

24.90 X 17.88 = 445.21 SQ.M

TOTAL BUILT UP AREA = 445.21 SQ.M

PROPOSED CONSTRUCTION PLAN OF WORKING SHED
FOR SHINKHEDA PRODUCER COMPANY LTD.
G.NO-79/2B AT- VARPADE , TAL-SHINKKHEDA,
DIST- DHULE

Er. Gaurav D. Dorik

Er. Gaurav D. Dorik (B.E. Civil)
Consulting Engineer
Shirpur, Tal Shirpur
Dist- Dhule
Reg. No. 1001001665

