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SAMARTH

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ESTIMATE

Name of work :- Construction of 1000 MT Warehouse Unit With Ancillary Work For "Gorakshanath Farmers Producer Company Limited" at -Waghari ,Post- Tehu , in Gat No. 47/2, Tal-Parola , Dist- Jalgaon Under

बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन(स्मार्ट)योजना

Director : Mr. Bhatu Ashok Patil

ESTIMATE FOR THE YEAR 2021-2022

Name of work :- Construction of 1000 MT Warehouse Unit With Ancillary Work For "Gorakshanath Farmers Producer Company Limited" at -Waghari ,Post- Tehu , in Gat No. 47/2, Tal-Parola , Dist- Jalgaon Under बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन(स्मार्ट)योजना जागतिक बँक सहायत उपक्रम

Estimated Cost Rs 95,75,000.00

Name of work :- Construction of 1000 MT Warehouse Unit With Ancillary Work For
"Gorakshanath Farmers Producer Company Limited"
at -Waghari ,Post- Tehu , in Gat No. 47/2, Tal-Parola , Dist- Jalgaon 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	7557397.67
B	Cost of Civil Work for Proposed Construction Of Weighing Automation Scale	688366.00
C	Add Labour Insurance Charges @ 1% on A&B	82457.64
	Total Amount A+B+C	8328221.30
C	Add Goods and Services Tax @ 12%	999386.56
E	Add 3% Electrification on A & B	247372.91
	Total Estimated Cost	9574980.77
	Say Rs.	95.75
In words- Ninety Five Lakhs Seventy Five Thousand Rupees Only		



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

A.WAREHOUSE BUILDING

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Name of work :- Construction of 1000 MT Warehouse Unit With Ancillary Work For "Gorakshanath
Farmers Producer Company Limited"

at -Waghari ,Post- Tehu , in Gat No. 47/2, Tal-Parola , Dist- Jalgaon Under

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



Measurement Sheet

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	6	4.650	0.300	0.420	3.515	35.230
	Gr.II Outer Beams	4	4.350	0.300	0.420	2.192	
	Gr.III Outer Beams	2	4.65	0.30	0.420	1.172	
	C1 to C30	30	1.50	1.50	0.42	28.350	
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 C30	30	1.50	1.50	0.20	13.500	13.500
	Cum						
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 C30	30	1.50	1.50	0.12	8.100	78.007
		1	27.35	21.30	0.12	69.907	
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	27.35	21.30	0.90	524.300	524.300
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 C30	30	1.50	1.50	0.10	6.750	65.006
	WH	1	27.35	21.30	0.10	58.256	
	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 C30	30	0.80	0.85	0.22	4.488	5.544

II nd Portion	C1 to C30	30	0.40	0.40	0.22	1.056
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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 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]							Cum	
	Upto Ground Level		8	0.30	0.45	0.99	1.069	9.212	
			2	0.35	0.45	0.99	0.312		
			1	0.30	0.45	0.99	0.134		
			1	0.23	0.45	0.99	0.102		
	Upto Plinth Level		8	0.30	0.45	0.75	0.810		
			2	0.35	0.45	0.75	0.236		
			1	0.30	0.45	0.75	0.101		
			1	0.57	0.30	0.75	0.128		
	Up above plinth Level		8	0.23	0.45	5.55	4.595		
			2	0.23	0.45	5.55	1.149		
			1	0.23	0.45	5.55	0.574		
									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]							
	Gr.I Outer Beams		6	4.650	0.300	0.450	3.767	6.065
	Gr.II Outer Beams		4	4.350	0.300	0.300	1.566	
	Gr.III Outer Beams		2	5.31	0.23	0.30	0.733	
								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]							
			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	5.544	1.00	87.00	482.33	1979.46
	Qty of Column		1	9.212	1.00	98.00	902.74	Kg
	Qty of Beam		1	6.065	1.00	98.00	594.40	1.979



	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				0.20
							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						
		2	4.650	0.230	0.400	0.856	13.076
		2	4.350	0.230	0.150	0.300	
		2	5.360	0.230	0.150	0.370	
	Gr.I Outer Beams	12	4.650	0.230	0.900	11.551	
							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	13	4.650	0.230	4.960	68.961	67.105
	Gr.II Outer Beams	2	4.350	0.230	2.700	5.403	
	Deduction (Shutters)	4	2.500	0.230	2.400	5.520	7.259
	Windows W1	18	0.600	0.230	0.700	1.739	
							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	27.350	11.000		601.700	601.700
							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]						
	L/W	2	28.050		5.600	314.160	584.560
	C/W	2	22.000		5.600	246.400	
	Deduction (Shutters)	4	2.500		2.400	24.000	28.536
	Windows W1	18	0.600		0.420	4.536	556.024
							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	27.350		4.005	219.074	389.687
	C/W	2	21.300		4.005	170.613	
	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	27.350	21.300		582.555	582.555
							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 27.35 x 21.30 = 582.55 x 60Kg/Sqm = 34953.3 Kg						34.950
	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	16	0.600		0.600	5.760	5.760
	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						556.024
	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						389.687
	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	4	2.500		2.100	21.000	21.000
	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 incharge 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 Anodizing without box [SSR Item No 20.42 Page No 216]						
	W1	16	0.600		0.600	5.760	5.760
	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						10.000
		1	10.000				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	4	1000.000				4000.000
							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]						
		5					5.000
							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) compressieve 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/SPD/143

Producer Company Limited"

at -Waghari .Post- Tehu . In Gat No. 47/2. Tal-Parola . Dist- Jalgaon Under

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

Abstract Sheet



r.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	35.23	Cum	193.00	6799.31
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	13.50	Cum	241.00	3253.50
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	78.01	Cum	1815.90	141652.18
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	524.30	Cum	730.90	383212.60
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	65.01	Cum	5499.89	357523.10



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>	5.54	Cum	6481.33	35932.49
					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>	9.21	Cum	12170.23	112107.17
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>	6.07	Cum	10816.63	65605.89
					0.00



9.0	<p>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</p>	0.00	Cum	12281.83	0.00
10.0	<p>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</p>	1.98	Mt	71926.81	142376.33
11.0	<p>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</p>	0.20	Mt	83326.00	16494.06
12.0	<p>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</p>	13.08	Cum	7473.45	97724.25
13.0	<p>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</p>	67.11	Cum	7927.45	531973.59



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	601.700	Sqm	1095.00	658861.50
					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 2561 278 00/Sqm	556.024	Sqm	271.32	150860.43
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 2561 382 00/Sqm	389.687	Sqm	377.01	146915.71
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.2611 900.00/Sqm	582.555	Sqm	846.00	492841.53
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	34.950	Mt	105909.00	3701519.55
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	5.760	Sqm	1845.00	10627.20



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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	556.024	Sqm	70.00	38921.68
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	389.687	Sqm	74.00	28836.80
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	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]	5.760	Sqm	5471.00	31512.96

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	10.000	Rgm	285.00	2850.00
26.0	Providing and fixing H.D.P container 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 litres [SSR Item No.42.53, Page No.349], 14.00/Lit	4000.000	Ltr	13.00	52000.00
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	5.000	No	8680.00	43400.00
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.	83.14	Nos	237.37	19735.43
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.	800.01	Nos	216.18	172946.39
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	7557397.67
				SAY	Rs. 75.57 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 1000 MT Warehouse Unit With Ancillary Work For "Gorakshanath Farmers Producer Company Limited"

at -Waghari ,Post- Tehu , in Gat No. 47/2, Tal-Parola , Dist- Jalgaon 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			1294.00
	ADD LEAD CHARGES FOR RUBBLE	1.20000	434.92	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 PI C 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 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.

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.

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 :-



9) 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 [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 :-

5) 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 :-

5) 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]

	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 LNo. 42 on P.No. 374]

	8680.00	
TOTAL RATE Rs.	8680.00	Nos



Gaurav D. Dorik

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

B. WEIGHING AUTOMATION SCALE

Name of work :- Construction of One Room Building and Pit For Industrial Process Weighing Automation Scale For "Gorakshanath Farmers Producer Company Limited" at -Waghari, Post- Tehu in Gat No. 47/2 , Tal-Parola , Dist- Jalgaon Under

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



Measurement Sheet

.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]						
	For Room C1 to C4	4	1.500	1.500	1.500	13.500	13.500
							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]						
	For Room C1 to C4	4	1.500	1.500	0.300	2.700	2.700
							Cum
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)						
	For Room C1 to C4	4	1.500	1.500	0.10	0.900	5.294
	For Room	1	4.57	3.05	0.10	1.394	
	For Weighing Plate	1	10.00	3.00	0.10	3.000	
						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]						
	For Room	1	4.57	3.05	0.35	4.878	223.050
	For Weighing Plate	1	10.00	3.00	2.00	60.000	
	For Parking	1	18.96	18.96	0.44	158.172	
						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]						
	For Room C1 to C4	4	1.50	1.50	0.10	0.900	5.294
	For Room	1	4.57	3.05	0.10	1.394	
	For Weighing Plate	1	10.00	3.00	0.10	3.000	
						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 C4	4	1.20	1.20	0.25	1.440	4.725
		4	0.75	0.75	0.20	0.450	
II nd Portion	C1 to C4	6	1.20	1.20	0.25	2.160	
		6	0.75	0.75	0.20	0.675	
							Cum

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 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]

Upto Ground Level		4	0.23	0.38	1.10	0.385	2.930
Upto Plinth Level		4	0.23	0.38	0.60	0.210	
Up above plinth Level		4	0.23	0.38	3.08	1.077	
Column Of Weighing Plate		6	0.23	0.38	2.40	1.259	
							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]

Plinth Beams- B1		2	4.270	0.230	0.300	0.589	2.391
B2		2	3.050	0.230	0.300	0.421	
Floor Beams- B1		2	4.270	0.230	0.260	0.511	
B2		2	3.050	0.230	0.260	0.365	
Lintel Beams- B1		2	4.270	0.230	0.150	0.295	
B2		2	3.050	0.230	0.150	0.210	
							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]

C/W Chajja		1	3.05	0.45	0.075	0.10	0.391
Front Chajja		2	4.27	0.45	0.075	0.29	
							Cum



1.0	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade). SSR I.NO. 25.70 @ 13943.00 Per Cum						
	Slab	1	5.03	3.51	0.120	2.12	2.119 Cum
1.0	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	4.73	1.00	87.00	411.08	1100.63
	Qty of Column	1	2.93	1.00	98.00	287.11	Kg
	Qty of Beam	1	2.39	1.00	98.00	234.29	1.101
	Qty of Chajja	1	0.39	1.00	67.00	26.21	
	Qty of Slab	1	2.12	1.00	67.00	141.95	
							MT
12.0	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						0.11 MT
13.0	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						
	In Plinth	2	4.270	0.230	0.300	0.589	1.010
		2	3.050	0.230	0.300	0.421	
							Cum
14.0	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]						
	In superstructure B1	2	4.270	0.230	3.080	6.050	8.943
	B2	2	3.050	0.230	3.080	4.321	
		2	5.05	0.300	2.500	7.575	
		8	4.660	0.230	2.200	18.864	
		4	5.150	0.230	2.200	10.424	
		2	5.05	0.230	2.200	5.111	
	Deduction (Shutters)	1	0.90	0.230	2.100	0.435	1.428
Windows W1	3	1.20	0.230	1.200	0.994		
							Cum
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	1	4.570		3.050	13.939	58.135
	C/W	2	4.570		2.900	26.506	
		2	3.050		2.900	17.690	
	Deduction (Shutters)	1	0.900		2.100	1.890	6.210
Windows W1	3	1.200		1.200	4.320	51.925	
							Sqm

16.0	Providing 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	5.030		3.600	36.216	61.488
	C/W	2	3.510		3.600	25.272	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	4.570	3.050		13.939	13.939
							Sqm
18.0	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	3	1.200		1.200	4.320	4.320
							Sqm
19.0	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						51.925
							Sqm
20.0	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						61.488
							Sqm
21.0	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	1	0.780		1.950	1.521	1.521
							Sqm
22.0	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]						
		0					0.000
							No.
23.0	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 o.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge 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]						
	W1	3	1.150		1.150	3.968	3.968
							Sqm
24.0	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	0.000				0.000
							Rgm



25.0	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	1	0.000			0.000
26.0	Qty. of Material Utilised for Royalty for Sand as per statement attached.					Lit
27.0	Qty. of Material Utilised for Royalty for Metal & Murum as per statement attached.					



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 One Room Building and Pit For Industrial Process
Weighing Automation Scale For "Gorakshnath Farmer Producer Company Limited at-
Waghari Post- Tehu in Gat No.47/2, Tq. Parola, Dist. Jalgaon Under

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

Certificate for DSR of work

The estimate prepared is as per Public Works State Schedule of Rates for the year 2021-2022. The work will be carried out as per standard Specifications in pink book and as directed by Engineer in charge.




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



Name of work :- Construction of One Room Building and Pit For Industrial Process Weighing Automation Scale For "Gorakshanath Farmers Producer Company Limited" at -Waghari, Post- Tehu in Gat No. 47/2 , Tal-Parola , Dist- Jalgaon Under
मा.बाळासाहेब ठाकरे कृषी व्यवसाय आणि ग्रामीण परिवर्तन (स्मार्ट) योजनाजागतिक बँक सहायत उपक्रम

Abstract Sheet

Description	Quantity	Unit	Rate	Amount
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	13.50	Cum	193.00	2605.50
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	2.70	Cum	241.00	650.70
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	5.29	Cum	1815.90	9613.10
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	223.05	Cum	730.90	163028.41
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	5.29	Cum	5499.89	29115.59



<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>	4.73	Cum	6481.33	30624.28
				0.00
<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>	2.93	Cum	12170.23	35654.49
<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>	2.39	Cum	10816.63	25859.45
				0.00

255



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	0.39	Cum	12281.83	4804.19
Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade). SSR I.NO. 25.70 @ 13943.00 Per Cum	2.12	Cum	12548.70	26586.13
Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. Including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. [SSR Item No.26.33, Page No.233] 89703.00/MT	1.10	Mt	71926.81	79164.57
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	0.11	Mt	83326.00	9171.08



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	1.01	Cum	7473.45	
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	8.94	Cum	7927.45	70892.62
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	51.925	Sqm	271.32	14088.16
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] 382.00/Sqm	61.488	Sqm	377.01	23181.59
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	274.500	Sqm	846.00	232227.00
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	4.320	Sqm	1845.00	7970.40
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	51.925	Sqm	70.00	3634.72
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	61.488	Sqm	74.00	4550.11



<p>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], 4829.00/Sqm</p>	1.521	Sqm	4310.00	6555.51
<p>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.</p>	0.000	No	468.00	0.00
<p>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]</p>	3.968	Sqm	5471.00	21706.19
<p>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/Rgm.</p>	0.000	Rgm	285.00	0.00

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.	0.000	Ltr	13.00	0.00
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.	13.33	Cum	237.37	3162.96
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.	23.43	Cum	216.18	5064.87
Total				847481.01

688366.00

SAY Rs. 6.17 Lakhs
6.88



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

Name of work :- Construction of One Room Building and Pit For Industrial Process Weighing Automation Scale For "Gorakshanath Farmers Producer Company Limited" at -Waghari, Post- Tehu in Gat No. 47/2 , Tal-Parola , Dist- Jalgaon Under



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

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			1294.00
	ADD LEAD CHARGES FOR RUBBLE	1.20000	434.92	521.90
			TOTAL RATE Rs.	1815.90 Per Cu.M.
ITEM NO.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] 795.00/Cum
ADD LEAD CHARGES FOR HM

1.20000	192.42	500.00	230.90
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TOTAL RATE Rs. 730.90 Per Cu.M.

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
DEDUCT FOR NON SCADA

10%	5538.00	-553.80	4984.20
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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 CB 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. complete, with fully

SSR OF 2021-22 ITEM NO. 25.11
DEDUCT FOR NON SCADA

10%	6666.00	-666.60	5999.40
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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 :-

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

SSR OF 2021-22 ITEM NO. 25.31

DEDUCT FOR NON SCADA

10%

12987.00

-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 :-

) 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

SSR OF 2021-22 ITEM NO. 25.50

DEDUCT FOR NON SCADA

10%

11483.00

-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 :-

) 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

[SSR Item No.26.05, Page No. 230]
DEDUCT FOR NON SCADA

ADD LEAD CHARGES FOR CEMENT
ADD LEAD CHARGES FOR SAND
ADD LEAD CHARGES FOR CR METAL

10%		13111.00
		-1311.10
		<u>11799.90</u>
0.035	148.81	5.21
0.425	368.88	156.77
0.900	355.50	319.95



TOTAL RATE Rs. 12281.83 Per Cu.M.

ITEM NO. 11 :-

Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel

SSR I.NO. 25.70 @ 13943.00 Per Cum
DEDUCT FOR NON SCADA

ADD LEAD CHARGES FOR CEMENT
ADD LEAD CHARGES FOR SAND
ADD LEAD CHARGES FOR CR METAL

			13943.00
			-1394.30
			<u>12548.70</u>
0.000	0.00	0.00	0.00
Cum	NET LEAD		0.00
Cum		0.00	0.00

TOTAL RATE Rs. 12548.70 Per Cu.M.

ITEM NO. 11 :-

11) 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. 12 :-

12) 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 [SSR Item No.26.34, Page No.306]

TOTAL RATE Rs. 83326.00 Per M.T.

ITEM NO. 13 :-

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 @ [SSR Item No.27.03, Page No.314]

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

0.07900	148.81	7116.00	11.76
0.32000	368.88		118.04
0.47500	479.26		227.65

TOTAL RATE Rs. 7473.45 Per Cu.M.

ITEM NO. 14 :-

- 1) 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

0.07900	148.81	7570.00	11.76
0.32000	368.88		118.04
0.47500	479.26		227.65

TOTAL RATE Rs. 7927.45 Per Cu.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]

ADD LEAD CHARGES FOR CEMENT
ADD LEAD CHARGES FOR SAND

0.01200	148.81	264.00	1.79
0.01500	368.88		5.53

TOTAL RATE Rs. 271.32 Per Sq.M.

ITEM NO. 16 :-

- 16) Providing 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]

ADD LEAD CHARGES FOR CEMENT
ADD LEAD CHARGES FOR SAND

0.01200	148.81	366.00	1.79
0.02500	368.88		9.22

TOTAL RATE Rs. 377.01 Per Sq.M.

ITEM NO. 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 :-

3) 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. 19 :-

19) 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. 20 :-

20) 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]

[SSR Item No.35.13, Page No.281]

74.00	
TOTAL RATE Rs.	74.00

Per Sq.m

ITEM NO. 21 :-

21) 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 [SSR Item No.39.24, Page No.311]

[SSR Item No.39.24, Page No.311]

4310.00	
TOTAL RATE Rs.	4310.00

Per Sq.m

ITEM NO. 22 :-

22) 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. 23 :-

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 [SSR Item No.39.42, Page No.316]

	5471.00	
TOTAL RATE Rs.	5471.00	Per Sq.m

ITEM NO. 24 :-

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. 25 :-

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]

	13.00	
TOTAL RATE Rs.	13.00	Per lit



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

Name of work :- Construction of One Room Building and Pit For Industrial Purpose
Weighing Automation Scale For "Gorakshanath Farmers Producer Company Limited"
at -Waghari, Post- Tehu in Gat No. 47/2, Tal-Parola, Dist- Jalgaon 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	Qty	Const. Val	Qty	Const. Val	Qty	Const. Val	Qty	Const. Val	Qty	Const. Val	Qty
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)	5.29	Cum			1.20	6.35										
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	223.05	Cum													1.20	267.66
5.0	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for	5.29	Cum	0.22	1.16	0.90	4.76	0.470	2.49								
					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] 89703.00/MT	1.10	Sqm	0.00	3.75	6.35	Cum	16.06	Cum	###	Cum	1.10	Cum	4.73	Cum	267.66
	Total Quantity	370.66														

Total Quantity of Sand For Royalty 13.33 Cum
 Total Amount of Royalty for Sand @ Rs. 237.37/- 13.33 x 237.37 = 3163
 Total Quantity of other items For Royalty 23.43 Cum 290.08 Cum
 Total Amount of Royalty for Other minerals @ Rs. 290.08 x 216.18 = 62709
 Total Amount of Royalty in Rs. 65871.85




 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 With Ancillary Work For "Gorakshanath Farmers Producer Company Limited" at -Waghari ,Post- Tehu , in Gat No. 47/2, Tal-Parola , Dist- Jalgaon 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	Rate as per VCQ Nashik	Rate as per VCQ Nashuk (6 X 9)
1	2	3	4	5	6	7	8	9	10
1	Sand	83.14	a) Site test b) gradation	1 test/Source 1 test/Source	1 1	2 2	3 3	800 1300	800 1300
2	Crush Metal	77.24	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
3	Cement	32.71	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
			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	79.7611	Y) Compressive strength (Kg/Sqm)	9	18	18	690	6210
			1) 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	1.97946	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	80.1815	Crushing Value, Water absorption, Efflorescences	0	0	0	1595	0
			1 Test per 50000 consignment or part	3	3	2	2175	6525
							Total	28730
							Rs.	



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

Name of work :- Construction of 1000 MT Warehouse Unit With Ancillary Work
For "Gorakshanath Farmers Producer Company Limited"
at -Waghari ,Post- Tehu , in Gat No. 47/2, Tal-Parola , Dist- Jalgaon 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 Dorik
Er. Gaurav D. Dorik (B.E. Civil)
Consulting Engineer
Shirpur, Tal. Shirpur
Dist- Dhule.
Reg.No-TPD/RPD/143