




VASTU-SANSKRUTI

OPP. B. & C. OFFICE
SAMTA COLONY, OSMANABAD
☎ 9403050003, 8788717415

ESTIMATE

Name Of Work: CONSTRUCTION OF GRAIN GODOWN OF 1200 M.T. CAPACITY
FOR SUMBHEKAR AGRO PRODUCER COMPANY LTD. SUMBHA, IN GAT. NO. 243,
AT SUMBHA, TQ. & DIST. OSMANABAD.
UNDER STATE OF MAHARASHTRA'S AGRI - BUSINESS & RURAL TRANSFORMATION
PROGRAM (SMART) PROJECT WORLD BANK ASSISTED

ESTIMATE COST Rs.: 107.84 Lakhs


Rajendra Ghodake
Consulting Civil Engineer
Reg.No.CBOOM/R/2021/APL/00237
OMC, Osmanabad
Cell 9403050003/8788717415



Er. Rajendra Ghodake (D.C.E)

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ENGINEERS
CONTRACTORS
ESTIMATORS
DESIGNERS
SURVEYORS

Name Of Work: CONSTRUCTION OF GRAIN GODOWN OF 1200 M.T. CAPACITY
FOR SUMBHEKAR AGRO PRODUCER COMPANY LTD. SUMBHA, IN GAT. NO. 243,
AT SUMBHA, TQ. & DIST. OSMANABAD.
UNDER STATE OF MAHARASHTRA'S AGRI - BUSINESS & RURAL TRANSFORMATION PROGRAM (SMART)
PROJECT WORLD BANK ASSISTED


GENERAL REPORT

The work CONSTRUCTION OF GRAIN GODOWN OF 1200 M.T. CAPACITY
FOR SUMBHEKAR AGRO PRODUCER COMPANY LTD. SUMBHA, IN GAT. NO. 243,
AT SUMBHA, TQ. & DIST. OSMANABAD. is proposed through मा. बाळासाहेब ठाकरे कृषी
व्यवसाय व ग्रामीण परिवर्तन (SMART) प्रकल्प under World Bank Assisted.

Accordingly detailed estimate is prepared with following provisions

- 1) Excavation for column footings.
- 2) Providing soling & filling in the foundation with sand.
- 2) C.C. M-10 for bed concrete for Flooring.
- 3) R.C.C.Footing, Column, Beam, Slab, Chajja, Canopy, Pardi, steps.
- 4) TMT steel in R.C..C. work.
- 5) B.B. Masonry in plinth and super structure.
- 6) Internal & External Plastering & Painting.
- 7) cement concrete M20 with tremix treatment for 100 mm thickness for flooring.
- 8) Rolling shutter & windows
- 9) PEB Structural Steel & Colour coated sheets

And all other necessary provisions are made in the estimate. The rates adopted as per S.S.R. 2022-23 Estimated cost Rs. 107.84 /-.Lakh The early Sanction to the estimate is requested.


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GENERAL ABSTRACT

A). COST OF WORK PORTION	Rs.	8931219.00
B) Add For Royalty Charges	Rs.	151538.00
C Add For Testing Charges	Rs.	4140.00
D) Add 18% For GST Charges On A	Rs.	1607619.00
E) Add 1% For Labour Insurance Charges On A	Rs.	89312.00

Total Cost Rs. 10783828.00

Say Rs. 107.84 Lakhs

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Name Of Work: CONSTRUCTION OF GRAIN GODOWN OF 1200 M.T. CAPACITY FOR SUMBHEKAR AGRO PRODUCER COMPANY LTD. SUMBHA, IN GAT. NO. 243, AT SUMBHA, TQ. & DIST. OSMANABAD. UNDER STATE OF MAHARASHTRA'S AGRI - BUSINESS & RURAL TRANSFORMATION PROGRAM (SMART) PROJECT WORLD BANK ASSISTED

ABSTRACT

QTY	DESCRIPTION	RATE	UNIT	AMOUNT
78.04	ITEM No.1: Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area 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 Addnl. Spec.: Bd.A.1 Page One Number 259 SSR 2022-23 Item No. 21.02 Page No. 153	207.00	Cu.M.	16154.00
40.18	ITEM No.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, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means Addnl. Spec.: Bd.A.2 Page One Number 259 SSR 2022-23 Item No. 21.06 Page No. 153	227.00	Cu.M.	9121.00
32.24	ITEM No.3: Filling in plinth and floors with approved excavated material in 15cm. to 20cm. Layers including watering and compacting etc. complete. Addnl. Spec.: Bd.A.10 Page One Number 262 SSR 2022-23 Item No. 21.36 Page No. 157	120.00	Cu.M.	3869.00

QTY	DESCRIPTION	RATE	UNIT	AMOUNT
515.76	<p>ITEM No.4: 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.</p> <p>Addnl. Spec.: Bd.A.11 Page One Number 263 SSR 2022-23 Item No. 21.37 Page No. 157</p>	818.98	Cu.M.	422397.00
185.22	<p>ITEM No.5: Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.</p> <p>Addnl. Spec.: As Directed by Engineer In Charge SSR 2022-23 Item No. 21.40 Page No. 157</p>	1836.54	Cu.M.	340164.00
15.87	<p>ITEM No.6: Providing and filling in the foundation with sand of approved quality including watering, compacting etc. complete. (To be executed with prior approval of Superintending Engineer)</p> <p>Addnl. Spec.: Bd.A.13 Page One Number 264 SSR 2022-23 Item No. 21.39 Page No. 157</p>	2505.15	Cu.M.	39757.00
53.37	<p>ITEM No.7: Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic 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)</p> <p>Addnl. Spec.: Bd. E. 1 Page One Number 287 SSR 2022-23 Item No. 24.01 Page No. 175</p>	6247.86	Cu.M.	333448.00

QTY	DESCRIPTION	RATE	UNIT	AMOUNT
20.25	<p>ITEM No.8: Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite/quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Addnl. Spec.: Bd.F.3 Page One Number 298 and B.7, Page One Number38 SSR 2022-23 Item No. 25.11 Page No. 178</p>	7549.34	Cu.M.	152874.00
10.59	<p>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. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Addnl. Spec.: Bd.F.5 Page One Number 300 and B.7, Page.One Number 38 SSR 2022-23 Item No. 25.31 Page No. 179</p>	14228.34	Cu.M.	150678.00

QTY	DESCRIPTION	RATE	UNIT	AMOUNT
15.63	<p>ITEM No.10: Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite/quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Addnl. Spec.: Bd.F.6 Page One Number 300 and B.7, Page One Number38 SSR 2022-23 Item No. 25.50 Page No. 181</p>	12714.34	Cu.M.	198725.00
1.50	<p>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. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Addnl. Spec.: Bd.F.9 Page One Number 303 and B.7, Page One Number38 SSR 2022-23 Item No. 26.05 Page No. 184</p>	14377.34	Cu.M.	21566.00
4.23	<p>ITEM No.12: 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. Addnl. Spec.: Bd.F.17, Page One Number 306 SSR 2022-23 Item No. 26.33 Page No. 188</p>	89972.45	M.T	380934.00

QTY	DESCRIPTION	RATE	UNIT	AMOUNT
34.64	<p>ITEM No.13: Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.</p> <p>Addnl. Spec.: Bd.G. 1 Page One Number 313 SSR 2022-23 Item No. 27.01 Page No. 197</p>	8321.11	Cu.M.	288243.00
58.75	<p>ITEM No.14: 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</p> <p>Addnl. Spec.: Bd.G.5 Page One Number 315 SSR 2022-23 Item No. 27.05 Page No. 197</p>	8560.11	Cu.M.	502906.00
266.41	<p>ITEM No.15: Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.</p> <p>Addnl. Spec.: Bd. L.2 Page One Number 368 SSR 2022-23 Item No. 32.03 Page No. 209</p>	278.08	Sq.M	74083.00
458.48	<p>ITEM No.16: Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.</p> <p>Addnl. Spec.: Bd.L.7 Page One Number 369 SSR 2022-23 Item No. 32.11 Page No. 209</p>	655.29	Sq.M	300437.00
780.92	<p>ITEM No.17: Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.</p> <p>Addnl. Spec.: As Directed by Engineer In Charge SSR 2022-23 Item No. 33.30 Page No. 216</p>	851.40	Sq.M	664875.00
40.80	<p>ITEM No.18: Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/ One Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.</p> <p>Addnl. Spec.: Bd.U.1 Page One Number 537 SSR 2022-23 Item No. 40.01 Page No. 264</p>	2097.00	Sq.M	85558.00

QTY	DESCRIPTION	RATE	UNIT	AMOUNT
24.12	<p>ITEM No.19: Providing and laying telephone black / Amba White / Cadburybrown / Ruby red / Ocean Brown granite stone of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete.</p> <p>Addnl. Spec.: As Directed by Engineer In Charge SSR 2022-23 Item No. 33.68 Page No. 220</p>	4455.41	Sq.M	107464.00
40.80	<p>ITEM No.20: 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 Kilogram/One Running Metre. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 Kilogram/One Running Metre.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. 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.</p> <p>With powder coating without box</p> <p>Addnl. Spec.: As Directed by Engineer In Charge SSR 2022-23 Item No. 39.44 Page No. 254</p>	4968.00	Sq.M	202694.00


QTY	DESCRIPTION	RATE	UNIT	AMOUNT
	<p>ITEM No.21: Supply and Installation of translucent roof with DPI Flux standing seam multicell polycarbonate panel system. The system with complete assembly of co extruded UV protected multicell panels incorporated into a complete system. Co-extruded UV protected polycarbonate panel system of min 12 mm thick of 900 mm (min.) width with angular daylighting concept. Panels shall have minimum six layers with truss bridge design for higher flexibility & strength. Panels with all fixing accessories to ensure best performance for wind uplift, vibration, oil canning and visual appearance. Panels shall be manufactured with vertical standing seam at both sides of the panel. Panels shall be fixed on Purlin with snap on connectors with double tooth grip lock locking mechanism and will be secured on MS structure (will be paid Separately) with 3 One Numbers self-drilling screws & trapezoid SS fasteners holding the base of the standing seam offering best stability having a pull-out load of min. 7000N (7KN) tested as per ISO 6892:1998 and IS 1608: 2005, as per design requirement. Panels must satisfy Dart drop impact test as per IS 14443-97 shall show no sign of breakage on Polycarbonate sheets which have been exposed to UV for a min. of 500 Hours as per ASTM G 155. Panels shall not have Yellowness Index as per ASTM D 1925 of 15 units when tested on a sample exposed to UV for 500 Hours as per ASTM G 155. U value shall not be more than 1.6 W/m²K as per EN ISO 10077-2:2018.</p>			
34.56	Lift Above 3.80 To 7.60 Mtr.	4010.71	Sq.M	138610.00
	<p>ITEM No.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 and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear)</p> <p>Addnl. Spec.: BD-T-55 Page One Number 510 SSR 2022-23 Item No. 39.25 Page-No. 249</p>			
17.39	Lift Upto 3.80 Mtr. From Plinth	5308.00	Sq.M	92306.00
10.49	Lift Above 3.80 To 7.60 Mtr.	5361.08	Sq.M	56238.00

QTY	DESCRIPTION	RATE	UNIT	AMOUNT
708.18	<p>ITEM No.23: Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of clorophyrifos per One Square Metre of surface area covering ten years guarantee on bond paper.</p> <p>Addnl. Spec.: As Directed by Engineer In Charge SSR 2022-23 Item No. 21.24 Page No. 156</p>	108.00	Sq.M	76483.00
	<p>ITEM No.24: Providing and fixing Turbo Vents 600 mm dia with base using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels .</p> <p>Addnl. Spec.: As Directed by Engineer In Charge Non SSR Item</p>			
14.00	Lift Above 3.80 To 7.60 Mtr.	5050.00	No.	70700.00
	<p>ITEM No.25: Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted/welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.</p> <p>Addnl. Spec.: Bd.C.2 Page One Number 275 SSR 2022-23 Item No. 23.01 Page No. 173</p>			
3.85	Lift Upto 3.80 Mtr. From Plinth	102113.45	M.T.	393137.00
19.25	Lift Above 3.80 To 7.60 Mtr.	103131.89	M.T.	1985289.00

QTY	DESCRIPTION	RATE	UNIT	AMOUNT
	<p>ITEM No.26: 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-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 center- to-center. 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/ One Square Metre)</p> <p>Addnl. Spec.: As Directed by Engineer In Charge SSR 2022-23 Item No. 38.34 Page No. 236</p>			
88.04	Lift Upto 3.80 Mtr. From Plinth	1173.00	Sq.M.	103271.00
1181.68	Lift Above 3.80 To 7.60 Mtr.	1184.73	Sq.M.	1399972.00
	<p>ITEM No.27: Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete.(Weight of 6.8 Kilogram/sq.m.).</p> <p>Addnl. Spec.: Bd.R.5, Page One Number 453 SSR 2022-23 Item No. 38.05 Page No. 233</p>			
4.56	Lift Upto 3.80 Mtr. From Plinth	1139.00	Sq.M.	5194.00
23.98	Lift Above 3.80 To 7.60 Mtr.	1150.39	Sq.M.	27586.00
	<p>ITEM No.28: Providing and fixing 22 B.W.G. plain FRP sheets on top of weather shed, including scaffolding, fixing by means of nut and bolts or as directed etc. complete. (Brackets of 70 x 45 mm to be paid separately)</p> <p>Addnl. Spec.: As Directed by Engineer In Charge SSR 2022-23 Item No. 39.89 Page No. 263</p>			
8.76	Lift Above 3.80 To 7.60 Mtr.	4340.98	Sq.M.	38027.00

QTY	DESCRIPTION	RATE	UNIT	AMOUNT
	<p>ITEM No.29: Providing and fixing valley gutter of 22 B.W.G. (0.8 mm) plain galvanised iron sheets 120 cm wide with teak wood planking 20 mm thick including two coats of coal-tarring the upper surface of plank etc. complete. (excluding painting to underside of plank).</p> <p>Addnl. Spec.: Bd. R. 10, Page One Number 455 SSR 2022-23 Item No. 38.08 Page No. 233</p>			
64.72	Lift Above 3.80 To 7.60 Mtr.	2955.26	Rg.M.	191264.00
266.41	<p>ITEM No.30: Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.</p> <p>Addnl. Spec.: Bd. P.5 Page One Number 413 SSR 2022-23 Item No. 36.11 Page No. 227</p>	48.48	Sq.M.	12916.00
458.48	<p>ITEM No.31: 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.</p> <p>Addnl. Spec.: Bd.0.8 Page One Number 406 SSR 2022-23 Item No. 35.13 Page No. 224</p>	79.00	Sq.M.	36220.00
	<p>ITEM No.32: Providing and applying two coats of synthetic enamel paint of approved colour to new /old structural steel work and wood work in buildings, including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.</p> <p>Addnl. Spec.: Bd.O.5 Page One Number 405 SSR 2022-23 Item No. 35.07 Page No. 223</p>			
52.16	Lift Upto 3.80 Mtr. From Plinth	96.00	Sq.M.	5007.00
31.48	Lift Above 3.80 To 7.60 Mtr.	96.96	Sq.M.	3052.00
TOTAL WORK PORTION =				8931219.00

QTY	DESCRIPTION	RATE	UNIT	AMOUNT
	<p>ITEM No.33: Royalty charges for supply of Sand, Rubble, Murum, Soil, 60mm./40mm. metal (Hand broken) as per The 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 /cum.) are to be considered. The surcharge levied on Royalty shall also be payable to the contractor in following manner . Royalty charges on all minor minerals do not form part of Rate Abstract and shall be reimbursed separately on production of proof to that effect. The Superintending Engineer, PWD may modify and circulate Royalty charges in case of any modifications are made by Govt. of Maharashtra. Royalty charges against estimated quantity shall be included in Recapitulation sheet.</p> <p>a) For sand = Royalty + surcharge (2%) + Distt. Mineral Foundation Cess (10%) = 211.95+4.23+21.19 = 237.37 Per Cum</p> <p>b) For All Other Minerals = Royalty + surcharge (2%) = 211.95+4.23 = 216.18 per cum</p>			
0.00	Sand	237.37	Cu.M.	0.00
700.98	Other Material	216.18	Cu.M.	151538.00
TOTAL ROYALTY CHARGES =				151538.00
	<p>ITEM No.34: Laboratory testing charges for various materials, on the basis of testing frequency and charges fixed by Vigilance & Quality Control Circle, for the current year.</p> <p>For Specific tests like span load tests, plate/ pile load test etc. which are not included in the rate analysis of item, the rates for these tests will be prepared on the basis of rates approved by M.E.R.I./ any competent Institute of Govt. of Maharashtra or Govt. of India.</p>			
6.00	CONCRETE Compressive Strength OF C.C. Cube(Set of 3 cubes).	690.00	1 Test	4140.00
TOTAL TESTING CHARGES =				4140.00


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-  CONTRACTORS
-  ESTIMATORS
-  DESIGNERS
-  SURVEYORS

Name Of Work: CONSTRUCTION OF GRAIN GODOWN OF 1200 M.T. CAPACITY
FOR SUMBHEKAR AGRO PRODUCER COMPANY LTD. SUMBHA, IN GAT. NO. 243,
AT SUMBHA, TQ. & DIST. OSMANABAD.
UNDER STATE OF MAHARASHTRA'S AGRI - BUSINESS & RURAL TRANSFORMATION PROGRAM
(SMART) PROJECT WORLD BANK ASSISTED

MEASUREMENT

DESCRIPTION	NOS	L	B	D/H	QTY	Unit
ITEM No.1: Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area 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 Addnl. Spec.: Bd.A.1 Page One Number 259 SSR 2022-23 Item No. 21.02 Page No. 153						
For Column Footings						
F1, F8, F17, F24	4	1.80	1.80	0.90	11.66	
F2, F3, F4, F5, F6, F7, F9, F10, F11, F12, F13, F14, F15, F16, F18, F19, F20, F21, F22, F23	20	1.80	1.50	0.90	48.60	
For G. L. Beams						
C1-C2, C7-C8, C17-C18, C23-C24	4	2.755	0.30	0.30	0.99	
C2-C3, C3-C4, C4-C5, C5-C6, C6-C7, C18-C19, C19-C20, C20-C21, C21-C22, C22-C23	10	3.09	0.30	0.30	2.78	
C1-C9, C15-C17, C8-C10, C16-C24	4	2.65	0.30	0.30	0.95	
C9-C11, C11-C13, C13-C15, C10-C12, C12-C14, C14-C16	6	2.99	0.30	0.30	1.61	
For Ramp Walls	2x2	6.00	0.53	0.90	11.45	
				Total	78.04	Cu.M.
ITEM No.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, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means Addnl. Spec.: Bd.A.2 Page One Number 259 SSR 2022-23 Item No. 21.06 Page No. 153						
For Column Footings						
F1, F8, F17, F24	4	1.80	1.80	0.60	7.78	
F2, F3, F4, F5, F6, F7, F9, F10, F11, F12, F13, F14, F15, F16, F18, F19, F20, F21, F22, F23	20	1.80	1.50	0.60	32.40	
				Total	40.18	Cu.M.

ITEM No.3: Filling in plinth and floors with approved excavated material in 15cm. to 20cm. Layers including watering and compacting etc. complete.

Addnl. Spec.: Bd.A.10 Page One Number 262

SSR 2022-23 Item No. 21.36 Page No. 157

Grain Godown	1	30.70	21.00	0.05	32.24
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Total	32.24	Cu.M.
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ITEM No.4: 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.

Addnl. Spec.: Bd.A.11 Page One Number 263

SSR 2022-23 Item No. 21.37 Page No. 157

Grain Godown	1	30.70	21.00	0.80	515.76
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Total	515.76	Cu.M.
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ITEM No.5: Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.

Addnl. Spec.: As Directed by Engineer In Charge

SSR 2022-23 Item No. 21.40 Page No. 157

Grain Godown	2	31.90	0.60	0.60	22.97
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	2	21.00	0.60	0.60	15.12
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	1	31.90	22.20	0.20	141.64
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For Ramp	2	6.00	3.05	0.15	5.49
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Total	185.22	Cu.M.
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ITEM No.6: Providing and filling in the foundation with sand of approved quality including watering, compacting etc. complete. (To be executed with prior approval of Superintending Engineer)

Addnl. Spec.: Bd.A.13 Page One Number 264

SSR 2022-23 Item No. 21.39 Page No. 157

Grain Godown	2	31.90	0.60	0.25	9.57
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	2	21.00	0.60	0.25	6.30
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Total	15.87	Cu.M.
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ITEM No.7: Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic 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)

Addnl. Spec.: Bd. E. 1 Page One Number 287

SSR 2022-23 Item No. 24.01 Page No. 175

For Column Footings					
F1, F8, F17, F24	4	1.80	1.80	0.15	1.94

F2, F3, F4, F5, F6, F7, F9, F10, F11, F12, F13, F14, F15, F16, F18, F19, F20, F21, F22, F23	20	1.80	1.50	0.15	8.10
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Grain Godown	1	32.36	22.66	0.05	36.66
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For Ramp Walls	2x2	6.00	0.53	0.15	1.91
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For Ramp	2	6.00	3.97	0.10	4.76
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Total	53.37	Cu.M.
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ITEM No.8: Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite/quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)

Addnl. Spec.: Bd.F.3 Page One Number 298 and B.7, Page One Number38

SSR 2022-23 Item No. 25.11 Page No. 178

For Column Footings

F1, F8, F17, F24	4	1.50	1.50	0.45	4.05	
F2, F3, F4, F5, F6, F7, F9, F10, F11, F12, F13, F14, F15, F16, F18, F19, F20, F21, F22, F23	20	1.50	1.20	0.45	16.20	
				Total	20.25	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. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)

Addnl. Spec.: Bd.F.5 Page One Number 300 and B.7, Page.One Number 38

SSR 2022-23 Item No. 25.31 Page No. 179

For Columns Upto G. L.

C1, C8, C17, C24	4	0.60	0.60	0.90	1.30	
C2, C3, C4, C5, C6, C7, C9, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21, C22, C23	20	0.30	0.60	0.90	3.24	
For Columns Above G. L.						
C1, C8, C17, C24	4	0.60	0.60	1.20	1.73	
C2, C3, C4, C5, C6, C7, C9, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21, C22, C23	20	0.30	0.60	1.20	4.32	
				Total	10.59	Cu.M.

ITEM No.10: Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite/quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)

Addnl. Spec.: Bd.F.6 Page One Number 300 and B.7, Page One Number38

SSR 2022-23 Item No. 25.50 Page No. 181

For G. L. Beams

C1-C2, C7-C8, C17-C18, C23-C24	4	3.955	0.23	0.45	1.64	
C2-C3, C3-C4, C4-C5, C5-C6, C6-C7, C18-C19, C19-C20, C20-C21, C21-C22, C22-C23	10	4.290	0.23	0.45	4.44	
C1-C9, C15-C17, C8-C10, C16-C24	4	3.845	0.23	0.45	1.59	
C9-C11, C11-C13, C13-C15, C10-C12, C12-C14, C14-C16	6	4.190	0.23	0.45	2.60	

Lintels						
F/S & B/S	2	32.360	0.23	0.15	2.23	
L/S & R/S	2	22.660	0.23	0.15	3.13	
				Total	15.63	Cu.M.
<p>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. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Addnl. Spec.: Bd.F.9 Page One Number 303 and B.7, Page One Number38 SSR 2022-23 Item No. 26.05 Page No. 184</p>						
Lift Up To 3.80 Mtr.						
Chajja						
W	22	1.68	0.45	(0.08+0.10)/2	1.50	
				Total	1.50	Cu.M.
<p>ITEM No.12: 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. Addnl. Spec.: Bd.F.17, Page One Number 306 SSR 2022-23 Item No. 26.33 Page No. 188</p>						
For footing (Conc. Qty as per I.No. 8) =		20.25	x	50.00	1012.50	
For columns (Conc. Qty as per I.No. 9)=		10.59	x	120.00	1270.80	
For beams & lintels (Conc. Qty as per I.No. 10) =		15.63	x	120.00	1875.60	
For chajja (Conc. Qty as per I.No. 11) =		1.50	x	50.00	75.00	
				Total	4233.90	Kg.
				=	4.23	M.T
<p>ITEM No.13: Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete. Addnl. Spec.: Bd.G. 1 Page One Number 313 SSR 2022-23 Item No. 27.01 Page No. 197</p>						
Below G.L. Beam						
C1-C2, C7-C8, C17-C18, C23-C24	4	3.955	0.23	0.10	0.36	
C2-C3, C3-C4, C4-C5, C5-C6, C6-C7, C18-C19, C19-C20, C20-C21, C21-C22, C22-C23	10	4.290	0.23	0.10	0.99	
C1-C9, C15-C17, C8-C10, C16-C24	4	3.845	0.23	0.10	0.35	
C9-C11, C11-C13, C13-C15, C10-C12, C12-C14, C14-C16	6	4.190	0.23	0.10	0.58	
Above G.L. Beam						
C1-C2, C7-C8, C17-C18, C23-C24	4	3.955	0.23	1.20	4.37	
C2-C3, C3-C4, C4-C5, C5-C6, C6-C7, C18-C19, C19-C20, C20-C21, C21-C22, C22-C23	10	4.29	0.23	1.20	11.84	
C1-C9, C15-C17, C8-C10, C16-C24	4	3.845	0.23	1.20	4.24	
C9-C11, C11-C13, C13-C15, C10-C12, C12-C14, C14-C16	6	4.19	0.23	1.20	6.94	
For Ramp Walls	2x2x1/2	6.00	0.23	1.80	4.97	
				Total	34.64	Cu.M.

ITEM No.14: 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
 Addnl. Spec.: Bd.G.5 Page One Number 315
 SSR 2022-23 Item No. 27.05 Page No. 197

F/S & B/S	2	32.36	0.23	2.85	42.42	
L/S & R/S	2	22.66	0.23	2.85	29.71	
Deductions						
R.S.	2	3.05	0.23	2.85	-4.00	
W	22	1.52	0.23	1.22	-9.38	
				Total	58.75	Cu.M.

ITEM No.15: Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete.
 Addnl. Spec.: Bd. L.2 Page One Number 368
 SSR 2022-23 Item No. 32.03 Page No. 209

Grain Godown	1x2	31.90		3.00	191.40	
	1x2	22.20		3.00	133.20	
Deductions						
R.S.	2	3.05		2.85	-17.39	
W	22	1.52		1.22	-40.80	
				Total	266.41	Sq.M

ITEM No.16: Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.
 Addnl. Spec.: Bd.L.7 Page One Number 369
 SSR 2022-23 Item No. 32.11 Page No. 209

F/S & B/S	2	32.36		4.35	281.53	
L/S & R/S	2	22.66		4.35	197.14	
Chajja Top & Bottom	22x2	1.68	0.45		33.26	
Chajja L/S & R/S	22x2	0.45		(0.08+0.10)/2	1.78	
Chajja F/S	22	1.68		0.08	2.96	
Deductions						
R.S.	2	3.05		2.85	-17.39	
W	22	1.52		1.22	-40.80	
				Total	458.48	Sq.M

ITEM No.17: Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.
 Addnl. Spec.: As Directed by Engineer In Charge
 SSR 2022-23 Item No. 33.30 Page No. 216

Grain Godown	1	32.36	22.66		733.28	
For Ramp	2	6.00	3.97		47.64	
				Total	780.92	Sq.M

ITEM No.18: Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/ One Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.

Addnl. Spec.: Bd.U.1 Page One Number 537

SSR 2022-23 Item No. 40.01 Page No. 264

Lift Up To 3.80 Mtr.

W	22	1.52		1.22	40.80	
				Total	40.80	Sq.M

ITEM No.19: Providing and laying telephone black / Amba White / Cadburybrown / Ruby red / Ocean Brown granite stone of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete.

Addnl. Spec.: As Directed by Engineer In Charge

SSR 2022-23 Item No. 33.68 Page No. 220

Lift Up To 3.80 Mtr.

W	22x2	1.52	0.20		13.38	
	22x2		0.20	1.22	10.74	
				Total	24.12	Sq.M

ITEM No.20: 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 Kilogram/One Running Metre. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 Kilogram/One Running Metre.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. 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 powder coating without box

Addnl. Spec.: As Directed by Engineer In Charge

SSR 2022-23 Item No. 39.44 Page No. 254

W	22	1.52		1.22	40.80	
				Total	40.80	Sq.M

ITEM No.21: Supply and Installation of translucent roof with DPI Flux standing seam multicell polycarbonate panel system. The system with complete assembly of co-extruded UV protected multicell panels incorporated into a complete system. Co-extruded UV protected polycarbonate panel system of min 12 mm thick of 900 mm (min.) width with angular daylighting concept. Panels shall have minimum six layers with truss bridge design for higher flexibility & strength. Panels with all fixing accessories to ensure best performance for wind uplift, vibration, oil canning and visual appearance. Panels shall be manufactured with vertical standing seam at both sides of the panel. Panels shall be fixed on Purlin with snap on connectors with double tooth grip lock locking mechanism and will be secured on MS structure (will be paid Separately) with 3 One Numbers self-drilling screws & trapezoid SS fasteners holding the base of the standing seam offering best stability having a pull-out load of min. 7000N (7KN) tested as per ISO 6892:1998 and IS 1608: 2005, as per design requirement. Panels must satisfy Dart drop impact test as per IS 14443-97 shall show no sign of breakage on Polycarbonate sheets which have been exposed to UV for a min. of 500 Hours as per ASTM G 155. Panels shall not have Yellowness Index as per ASTM D 1925 of 15 units when tested on a sample exposed to UV for 500 Hours as per ASTM G 155. U value shall not be more than 1.6 W/m²K as per EN ISO 10077-2:2018. Panel shall be with additional End cap/Aluminium U/F profile/ Glazing Bar for ends as required. Panel shall be fixed over MS structural steel/MS purlin (paid separately) conforming to the detail technical specifications as per approved architectural drawings. Trained and factory authorized labour with supervision to complete the entire panel installation as per drawing & direction of the engineering in charge. Colour: As per Approval. Approved Make: FLUX by DPI Daylighting or approved equivalent The 12mm thick panels shall be used for a roofing height of upto 15 mtrs.

Addnl. Spec.: As Directed by Engineer In Charge

SSR 2022-23 Item No. 51.187 Page No. 405

Lift Above 3.80 To 7.60 Mtr.

In Roof	12	0.96	3.00		34.56	
				Total	34.56	Sq.M

ITEM No.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 and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear)

Addnl. Spec.: BD-T-55 Page One Number 510

SSR 2022-23 Item No. 39.25 Page No. 249

R.S.	2	3.05		2.85	17.39	
				Total	17.39	Sq.M

Lift Above 3.80 To 7.60 Mtr.

R.S.	2	3.05		1.72	10.49	
				Total	10.49	Sq.M

ITEM No.23: Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of clorophyrifos per One Square Metre of surface area covering ten years guarantee on bond paper.

Addnl. Spec.: As Directed by Engineer In Charge

SSR 2022-23 Item No. 21.24 Page No. 156

Grain Godown	1	31.90	22.20		708.18	
				Total	708.18	Sq.M

ITEM No.24: Providing and fixing Turbo Vents 600 mm dia with base using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels .

Addnl. Spec.: As Directed by Engineer In Charge

Non SSR Item

Lift Above 3.80 To 7.60 Mtr.

Roof	14				14.00	
				Total	14.00	No.

ITEM No.25: Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted/welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.

Addnl. Spec.: Bd.C.2 Page One Number 275

SSR 2022-23 Item No. 23.01 Page No. 173

Lift Upto 3.80 Mtr. From Plinth

PEB

ASTM A570 (Grade 50) or

equivalent and having a minimum yield strength of 50,000 P.S.I. (345 Mpa).

Members fabricated by cold forming process shall conform to the physical specifications of ASTM A570 (Grade 50) or equivalent and having a minimum yield strength of 50,000 P.S.I (345 Mpa).

Members fabricated from hot rolled structural shapes shall conform to the physical specifications of ASTM A572 (Grade 36) or equivalent and having a minimum yield strength of 36,000 P.S.I (250 Mpa).

Rod and angle bracing shall conform to the physical specifications of ASTM A 36 (or equivalent) and having a minimum yield strength of 36000 P.S.I. (250 Mpa).

Roof and wall cladding shall conform to the physical specifications of ASTM A653 Grade 50 (or equivalent) and having a minimum yield strength of 50,000 P.S.I. (345 MP).

All other miscellaneous secondary members shall have a minimum yield strength of 36,00 P.S.I. (250Mpa).

@ 5Kg./Sq.M.	1	32.36	22.66	5.00	3666.39	
				Total	3666.39	Kg.
Add 5% For Base Plates, Connecting Plates, nut bolts, wastage	5%	x	3666.39	=	183.32	
				Total	3849.71	Kg.
				=	3.85	M.T.
Lift Above 3.80 To 7.60 Mtr.						
@ 25Kg./Sq.M.	1	32.360	22.660	25.00	18331.94	
				Total	18331.94	Kg.
Add 5% For Base Plates, Connecting Plates, nut bolts, wastage	5%	x	18331.94	=	916.60	
				Total	19248.54	Kg.
				=	19.25	M.T.

ITEM No.26: Providing and fixing colour coated Zincolume (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 center- to-center. 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/ One Square Metre)

Addnl. Spec.: As Directed by Engineer In Charge
SSR 2022-23 Item No. 38.34 Page No. 236

Lift Upto 3.80 Mtr. From Plinth					
Wall Cladding					
F/S & B/S	2	32.360		0.80	51.78
L/S & R/S	2	22.660		0.80	36.26
				Total	88.04
					Sq.M.
Lift Above 3.80 To 7.60 Mtr.					
Wall Cladding					
F/S & B/S	2	32.36		3.80	245.94
L/S & R/S	2	22.66		3.80	172.22
Deductions					
R.S.	2	3.05		2.15	-13.12
Roofing	2	32.36	12.00		776.64
				Total	1181.68
					Sq.M.

ITEM No.27: Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete.(Weight of 6.8 Kilogram/sq.m.).

Addnl. Spec.: Bd.R.5, Page One Number 453
SSR 2022-23 Item No. 38.05 Page No. 233

Lift Upto 3.80 Mtr. From Plinth					
Corners	1x4		0.30	3.80	4.56
				Total	4.56
					Sq.M.
Lift Above 3.80 To 7.60 Mtr.					
Corners	1x4		0.30	3.80	4.56
Ridge	1	32.36	0.60		19.42
				Total	23.98
					Sq.M.

ITEM No.28: Providing and fixing 22 B.W.G. plain FRP sheets on top of weather shed, including scaffolding, fixing by means of nut and bolts or as directed etc. complete. (Brackets of 70 x 45 mm to be paid separately)

Addnl. Spec.: As Directed by Engineer In Charge
SSR 2022-23 Item No. 39.89 Page No. 263

Lift Above 3.80 To 7.60 Mtr.					
Canopy	2	3.65	1.20		8.76
				Total	8.76
					Sq.M.

ITEM No.29: Providing and fixing valley gutter of 22 B.W.G. (0.8 mm) plain galvanised iron sheets 120 cm wide with teak wood planking 20 mm thick including two coats of coal-tarring the upper surface of plank etc. complete. (excluding painting to underside of plank).
 Addnl. Spec.: Bd. R. 10, Page One Number 455
 SSR 2022-23 Item No. 38.08 Page No. 233

Lift Above 3.80 To 7.60 Mtr.

Gutter	2	32.36			64.72	
				Total	64.72	Rg.M.

ITEM No.30: Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.
 Addnl. Spec.: Bd. P.5 Page One Number 413
 SSR 2022-23 Item No. 36.11 Page No. 227

Qty. As Per I. No. 15 =					266.41	
				Total	266.41	Sq.M.

ITEM No.31: 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.
 Addnl. Spec.: Bd.0.8 Page One Number 406
 SSR 2022-23 Item No. 35.13 Page No. 224

Qty. As Per I. No. 16 =					458.48	
				Total	458.48	Sq.M.

ITEM No.32: Providing and applying two coats of synthetic enamel paint of approved colour to new /old structural steel work and wood work in buildings, including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.
 Addnl. Spec.: Bd.O.5 Page One Number 405
 SSR 2022-23 Item No. 35.07 Page No. 223

Lift Upto 3.80 Mtr. From Plinth

R.S.	2x2x1.50	3.05		2.85	52.16	
				Total	52.16	Sq.M.

Lift Above 3.80 To 7.60 Mtr.

R.S.	2x2x1.50	3.05		1.72	31.48	
				Total	31.48	Sq.M.

ITEM No.33: Royalty charges for supply of Sand, Rubble, Murum, Soil, 60mm./40mm. metal (Hand broken) as per The 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 /cum.) are to be considered. The surcharge levied on Royalty shall also be payable to the contractor in following manner . Royalty charges on all minor minerals do not form part of Rate Abstract and shall be reimbursed separately on production of proof to that effect. The Superintending Engineer, PWD may modify and circulate Royalty charges in case of any modifications are made by Govt. of Maharashtra. Royalty charges against estimated quantity shall be included in Recapitulation sheet.

a) For sand = Royalty + surcharge (2%) + Distt. Mineral Foundation Cess (10%)
= 211.95+4.23+21.19 = 237.37 Per Cum


b) For All Other Minerals = Royalty + surcharge (2%)
= 211.95+4.23 = 216.18 per cum

Ntrl / Screened Sand Qty. as per statement attached	=	0.00	Cu.M.
Other Material			
Stone/ H.B. Metal Qty. as per statement attached	=	185.22	
Murum Qty. as per statement attached	=	515.76	
	Total	700.98	Cu.M.

ITEM No.34: Laboratory testing charges for various materials, on the basis of testing frequency and charges fixed by Vigilance & Quality Control Circle, for the current year.

For Specific tests like span load tests, plate/ pile load test etc. which are not included in the rate analysis of item, the rates for these tests will be prepared on the basis of rates approved by M.E.R.I./ any competent Institute of Govt. of Maharashtra or Govt. of India.

CONCRETE Compressive Strength OF C.C. Cube(Set of 3 cubes).	For	126.06	Cu.M.	=	6.00	1 Test
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Rajendra Ghodake
 Consulting Civil Engineer
 Reg.No.CBOOM/R/2021/APL/00237
 OMC, Osmanabad
 Cell 9403050003/8788717415



VASTU-SANSKRUTI

OPP. B. & C. OFFICE

SAMTA COLONY, OSMANABAD

☎ 9403050003, 8788717415

ENGINEERS
CONTRACTORS
ESTIMATORS
DESIGNERS
SURVEYORS

Name Of Work: CONSTRUCTION OF GRAIN GODOWN OF 1200 M.T. CAPACITY
FOR SUMBHEKAR AGRO PRODUCER COMPANY LTD. SUMBHA, IN GAT. NO. 243,
AT SUMBHA, TQ. & DIST. OSMANABAD.
UNDER STATE OF MAHARASHTRA'S AGRI - BUSINESS & RURAL TRANSFORMATION PROGRAM (SMART)
PROJECT WORLD BANK ASSISTED

RATE ANALYSIS

ITEM No.4: 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.

Addnl. Spec.: Bd.A.11 Page One Number 263

SSR 2022-23 Item No. 21.37 Page No. 157

Rate as per SSR

	=		x		=	599.00
Add lead for murum	=	1.00	x	219.98	=	219.98
Difference cost of murum	=	1.00	x	0.00	=	0.00
				Total	=	818.98 /Cu.M.

ITEM No.5: Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.

Addnl. Spec.: As Directed by Engineer In Charge

SSR 2022-23 Item No. 21.40 Page No. 157

Rate as per SSR

	=		x		=	1454.00
Add lead for 80 mm Metal	=	1.000	x	330.77	=	330.77
Add lead for Grit (6 mm Metal)	=	0.15	x	345.15	=	51.77
60 mm metal Difference cost of 80 mm Metal	=	1.00	x	0.00	=	0.00
Difference cost of Grit (6 mm Metal)	=	0.15	x	0.00	=	0.00
				Total	=	1836.54 /Cu.M.

ITEM No.6: Providing and filling in the foundation with sand of approved quality including watering, compacting etc. complete. (To be executed with prior approval of Superintending Engineer)

Addnl. Spec.: Bd.A.13 Page One Number 264

SSR 2022-23 Item No. 21.39 Page No. 157

Rate as per SSR

	=		x		=	2160.00
Add lead for Cr.Sand	=	1.00	x	345.15	=	345.15
Difference cost of Cr.Sand	=	1.00	x	0.00	=	0.00
				Total	=	2505.15 /Cu.M.

ITEM No.10: Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite/quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)

Addnl. Spec.: Bd.F.6 Page One Number 300 and B.7 Page One Number 38
SSR 2022-23 Item No. 25.50 Page No. 181

Rate as per SSR				=	12269.00
Deduct For SCADA	=	1.00	x	126.00	= -126.00
Add lead for Cement	=	7.00	/	20.00	x 269.45 = 94.31
Add lead for VSI Sand	=			0.425	x 391.50 = 166.39
Add lead for 20 mm Metal	=			0.60	x 345.15 = 207.09
Add lead for 10/12 mm Metal	=			0.30	x 345.15 = 103.55
Difference cost of VSI Sand	=			0.425	x 0.00 = 0.00
Difference cost of 20 mm Metal	=			0.60	x 0.00 = 0.00
Difference cost of 10/12 mm Metal	=			0.30	x 0.00 = 0.00
					Total = 12714.34 /Cu.M.
Lift Above 3.80 To 7.60 Mtr.	=	1%	x	12269.00	= 122.69
					12837.03 /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. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)

Addnl. Spec.: Bd.F.9 Page One Number 303 and B.7. Page One Number 38
SSR 2022-23 Item No. 26.05 Page No. 184

Rate as per SSR				=	13932.00
Deduct For SCADA	=	1.00	x	126.00	= -126.00
Add lead for Cement	=	7.00	/	20.00	x 269.45 = 94.31
Add lead for VSI Sand	=			0.425	x 391.50 = 166.39
Add lead for 20 mm Metal	=			0.60	x 345.15 = 207.09
Add lead for 10/12 mm Metal	=			0.30	x 345.15 = 103.55
Difference cost of VSI Sand	=			0.425	x 0.00 = 0.00
Difference cost of 20 mm Metal	=			0.60	x 0.00 = 0.00
Difference cost of 10/12 mm Metal	=			0.30	x 0.00 = 0.00
					Total = 14377.34 /Cu.M.
Lift Above 3.80 To 7.60 Mtr.	=	1%	x	13932.00	= 139.32
					14516.66 /Cu.M.

ITEM No.12: 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, parapets, 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.

Addnl. Spec.: Bd.F.17, Page One Number 306
SSR 2022-23 Item No. 26.33 Page No. 188

Rate as per SSR				=	89703.00
Add lead for steel	=			1.00	x 269.45 = 269.45
					Total = 89972.45 /M.T.
Lift Above 3.80 To 7.60 Mtr.	=	1%	x	89703.00	= 897.03
					90869.48 /M.T.

ITEM No.21: Supply and Installation of translucent roof with DPI Flux standing seam multicell polycarbonate panel system. The system with complete assembly of co extruded UV protected multicell panels incorporated into a complete system. Co-extruded UV protected polycarbonate panel system of min 12 mm thick of 900 mm (min.) width with angular daylighting concept. Panels shall have minimum six layers with truss bridge design for higher flexibility & strength. Panels with all fixing accessories to ensure best performance for wind uplift, vibration, oil canning and visual appearance. Panels shall be manufactured with vertical standing seam at both sides of the panel. Panels shall be fixed on Purlin with snap on connectors with double tooth grip lock locking mechanism and will be secured on MS structure (will be paid Separately) with 3 One Numbers self-drilling screws & trapezoid SS fasteners holding the base of the standing seam offering best stability having a pull-out load of min. 7000N (7KN) tested as per ISO 6892:1998 and IS 1608: 2005, as per design requirement. Panels must satisfy Dart drop impact test as per IS 14443-97 shall show no sign of breakage on Polycarbonate sheets which have been exposed to UV for a min. of 500 Hours as per ASTM G 155. Panels shall not have Yellowness Index as per ASTM D 1925 of 15 units when tested on a sample exposed to UV for 500 Hours as per ASTM G 155. U value shall not be more than 1.6 W/m2K as per EN ISO 10077-2:2018. Panel shall be with additional End cap/Aluminium U/F profile/ Glazing Bar for ends as required. Panel shall be fixed over MS structural steel/MS purlin (paid separately) conforming to the detail technical specifications as per approved architectural drawings. Trained and factory authorized labour with supervision to complete the entire panel installation as per drawing & direction of the engineering in charge. Colour: As per Approval. Approved Make: FLUX by DPI Daylighting or approved equivalent The 12mm thick panels shall be used for a roofing height of upto 15 mtrs.

Addnl. Spec.: As Directed by Engineer In Charge
 SSR 2022-23 Item No. 51.187 Page No. 405
 Rate as per SSR

= 3971.00

Total = 3971.00 /Sq.M.

Lift Above 3.80 To 7.60 Mtr.

= 1% x 3971.00 =

39.71

4010.71 /Sq.M.

ITEM No.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 and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear)

Addnl. Spec.: BD-T-55 Page One Number 510
 SSR 2022-23 Item No. 39.25 Page No. 249

= 5308.00

Total = 5308.00 /Sq.M.

Lift Above 3.80 To 7.60 Mtr.

= 1% x 5308.00 =

53.08

5361.08 /Sq.M.

ITEM No.24: Providing and fixing Turbo Vents 600 mm dia with base using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels .

Addnl. Spec.: As Directed by Engineer In Charge

Non SSR Item

Rate as per SSR

= 5000.00

Total = 5000.00 /No.

Lift Above 3.80 To 7.60 Mtr.

= 1% x 5000.00 =

50.00

5050.00 /No.

ITEM No.25: Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted/welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.

Addnl. Spec.: Bd.C.2 Page One Number 275

SSR 2022-23 Item No. 23.01 Page No. 173

Rate as per SSR

$$\text{Add lead for steel} = 1.00 \times 269.45 = 269.45$$

$$\text{Total} = 101844.00 + 269.45 = 102113.45 \text{ /M.T.}$$

$$\text{Lift Above 3.80 To 7.60 Mtr.} = 1\% \times 101844.00 = 1018.44$$

$$\text{Total} = 102113.45 + 1018.44 = 103131.89 \text{ /M.T.}$$

ITEM No.26: 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 center- to-center. 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/ One Square Metre)

Addnl. Spec.: As Directed by Engineer In Charge

SSR 2022-23 Item No. 38.34 Page No. 236

Rate as per SSR

$$= 1173.00$$

$$\text{Total} = 1173.00 \text{ /Sq.M.}$$

$$\text{Lift Above 3.80 To 7.60 Mtr.} = 1\% \times 1173.00 = 11.73$$

$$\text{Total} = 1173.00 + 11.73 = 1184.73 \text{ /Sq.M.}$$

ITEM No.27: Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanised iron screws and bolts, lead and bitumen washers etc. complete.(Weight of 6.8 Kilogram/sq.m.).

Addnl. Spec.: Bd.R.5, Page One Number 453

SSR 2022-23 Item No. 38.05 Page No. 233

Rate as per SSR

$$= 1139.00$$

$$\text{Total} = 1139.00 \text{ /Sq.M.}$$

$$\text{Lift Above 3.80 To 7.60 Mtr.} = 1\% \times 1139.00 = 11.39$$

$$\text{Total} = 1139.00 + 11.39 = 1150.39 \text{ /Sq.M.}$$

ITEM No.28: Providing and fixing 22 B.W.G. plain FRP sheets on top of weather shed, including scaffolding, fixing by means of nut and bolts or as directed etc. complete. (Brackets of 70 x 45 mm to be paid separately)

Addnl. Spec.: As Directed by Engineer In Charge

SSR 2022-23 Item No. 39.89 Page No. 263

Rate as per SSR

$$= 4298.00$$

$$\text{Total} = 4298.00 \text{ /Sq.M.}$$

$$\text{Lift Above 3.80 To 7.60 Mtr.} = 1\% \times 4298.00 = 42.98$$

$$\text{Total} = 4298.00 + 42.98 = 4340.98 \text{ /Sq.M.}$$

ITEM No.29: Providing and fixing valley gutter of 22 B.W.G. (0.8 mm) plain galvanised iron sheets 120 cm wide with teak wood planking 20 mm thick including two coats of coal-tarring the upper surface of plank etc. complete. (excluding painting to underside of plank).

Addnl. Spec.: Bd. R. 10, Page One Number 455

SSR 2022-23 Item No. 38.08 Page No. 233

Rate as per SSR

$$= 2926.00$$

$$\text{Total} = 2926.00 \text{ /Sq.M.}$$

$$\text{Lift Above 3.80 To 7.60 Mtr.} = 1\% \times 2926.00 = 29.26$$

$$\text{Total} = 2926.00 + 29.26 = 2955.26 \text{ /Sq.M.}$$

ITEM No.30: Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.

Addnl. Spec.: Bd. P.5 Page One Number 413

SSR 2022-23 Item No. 36.11 Page No. 227

Rate as per SSR

$$\begin{array}{r} = 48.00 \\ \text{Total} = \underline{\underline{48.00}} \text{ /Sq.M.} \\ \underline{\underline{0.48}} \\ 48.48 \text{ /Sq.M.} \end{array}$$

Lift Above 3.80 To 7.60 Mtr.

$$= 1\% \times 48.00 =$$

ITEM No.31: 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.

Addnl. Spec.: Bd.0.8 Page One Number 406

SSR 2022-23 Item No. 35.13 Page No. 224

Rate as per SSR

$$\begin{array}{r} = 79.00 \\ \text{Total} = \underline{\underline{79.00}} \text{ /Sq.M.} \\ \underline{\underline{0.79}} \\ 79.79 \text{ /Sq.M.} \end{array}$$

Lift Above 3.80 To 7.60 Mtr.

$$= 1\% \times 79.00 =$$

ITEM No.32: Providing and applying two coats of synthetic enamel paint of approved colour to new /old structural steel work and wood work in buildings, including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.

Addnl. Spec.: Bd.O.5 Page One Number 405


SSR 2022-23 Item No. 35.07 Page No. 223

Rate as per SSR

$$\begin{array}{r} = 96.00 \\ \text{Total} = \underline{\underline{96.00}} \text{ /Sq.M.} \\ \underline{\underline{0.96}} \\ 96.96 \text{ /Sq.M.} \end{array}$$


Lift Above 3.80 To 7.60 Mtr.

$$= 1\% \times 96.00 =$$


Rajendra Ghodake
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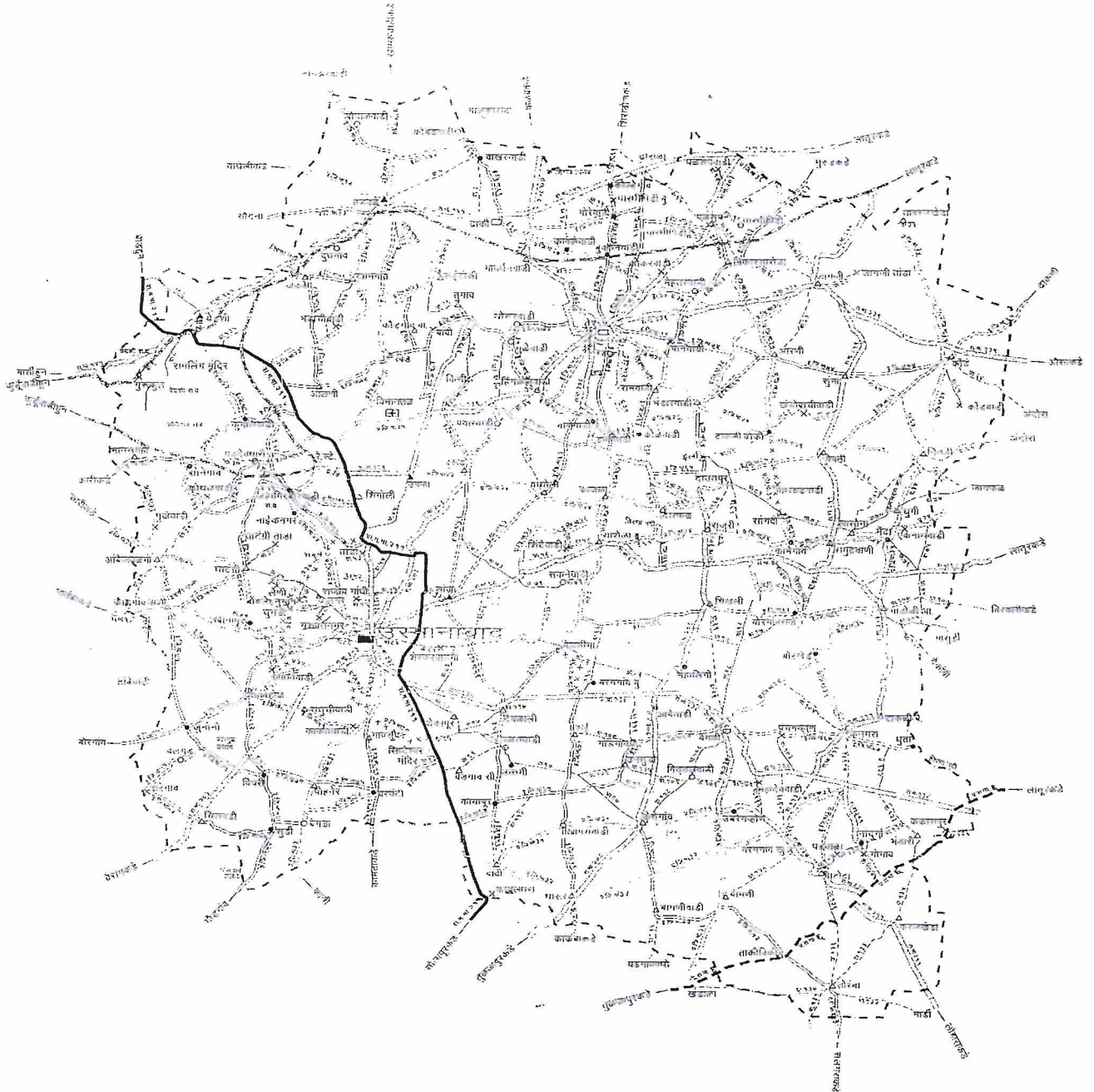
Name Of Work: CONSTRUCTION OF GRAIN GODOWN OF 1200 M.T. CAPACITY
 FOR SUMBHEKAR AGRO PRODUCER COMPANY LTD. SUMBHA, IN GAT. NO 243,
 AT SUMBHA, TQ. & DIST. OSMANABAD.
 UNDER STATE OF MAHARASHTRA'S AGRI - BUSINESS & RURAL TRANSFORMATION PROGRAM (SMART) PROJECT WORLD BANK ASSISTED

Sr. No.	Material	Source	LEAD CHART						Pay Load Factor	Unit	Net Lead Charges	Remark
			Total Lead In Km.	Lead Charges	Initial Lead In Km.	Initial Lead Charges	Net Lead In Km.	Net Lead Charges				
With Machine Loading												
1	Murum	Gairan	3.00	1319.89			3.00	1319.89	6.00	Cu.M.	219.98	
2	Stone	Jagji Quarry	10.00	1984.62			10.00	1984.62	4.70	Cu.M.	422.26	
3	Cr. Sand	Jagji Quarry	10.00	1984.62			10.00	1984.62	5.75	Cu.M.	345.15	
4	VSI Sand	Murud	13.50	2251.14			13.50	2251.14	5.75	Cu.M.	391.50	
5	Stone below 40 mm	Jagji Quarry	10.00	1984.62			10.00	1984.62	5.75	Cu.M.	345.15	
6	Stone aggregate 40mm Normal size and above	Jagji Quarry	10.00	1984.62			10.00	1984.62	6.00	Cu.M.	330.77	
7	Timber	Murud	13.50	2251.14			13.50	2251.14	5.75	Cu.M.	391.50	
With Manual Loading												
1	Cement	Murud	13.50	2694.55			13.50	2694.55	10.00	M.T.	269.45	
2	Bricks	Murud	14.00	2742.46			14.00	2742.46	3.105	1000 Nos.	883.24	
3	Steel (MS, TMT, H.Y.S.D.) Structural Steel	Murud	13.50	2694.55			13.50	2694.55	10.00	M.T.	269.45	
4	Flooring Tiles Ceramic/ Marbonate	Murud	13.50	2694.55			13.50	2694.55	100.00	Sq.M.	26.95	


Rajendra Ghodake
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Name Of Work: CONSTRUCTION OF GRAIN GODOWN OF 1200 M.T. CAPACITY
FOR SUMBHEKAR AGRO PRODUCER COMPANY LTD. SUMBHA, IN GAT. NO. 243,
AT SUMBHA, TQ. & DIST. OSMANABAD.
UNDER STATE OF MAHARASHTRA'S AGRI - BUSINESS & RURAL TRANSFORMATION PROGRAM
(SMART) PROJECT WORLD BANK ASSISTED

QUARRY CHART




CERTIFICATE

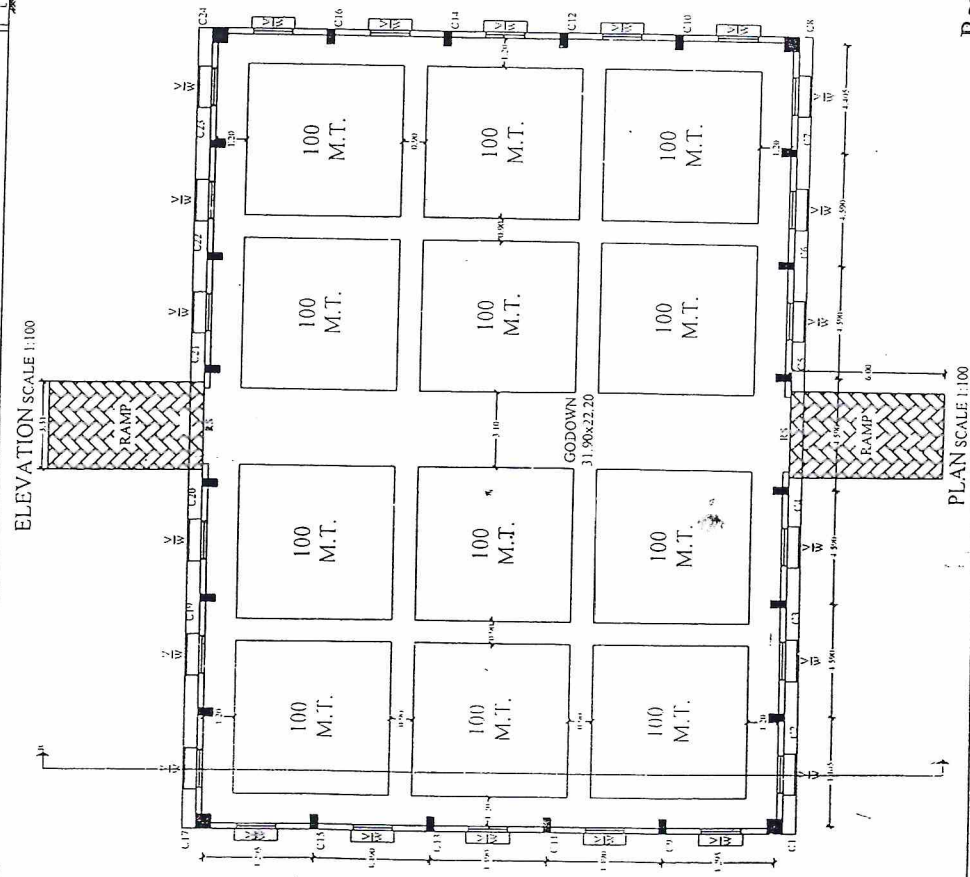
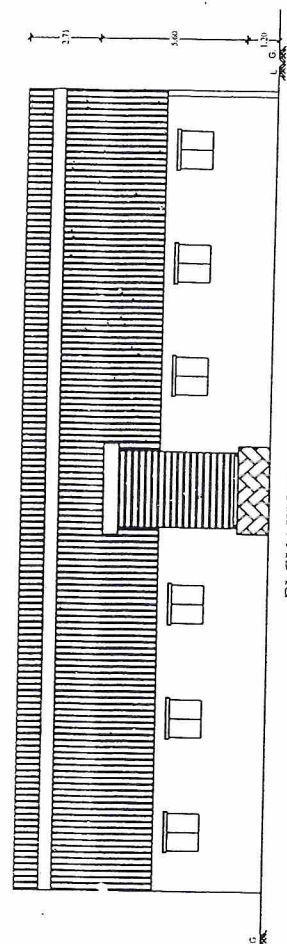
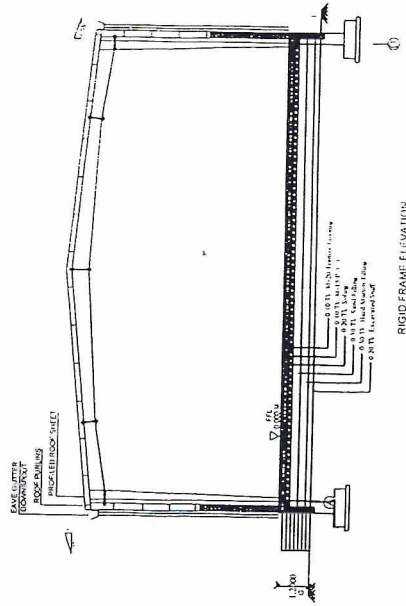
Certified that I have visited the Quarry sites & Distances shown as lead are correct & sufficient Qty. will be available from quarry.

Rajendra Ghodale
Consulting Civil Engineer
Reg.No.CBOOM/R/2021/APL/00237
OMC, Osmanabad
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Description of Item	Cement		VSI Sand		Natural Sand		Cr. Sand		Stone/H.B. Metal		Aggregates			Bricks		Steel		Murrum		CERAMIC TILES / VITRIFIED TILES		Paving Blocks		Cement Mortar Cube		Cement Concrete Cube		Finishing of Natural Stone (Kota, Marble, Granite, Fandur etc.)		Asphalt		Unit	
	Rate of Consumption	Cement in bags	Rate of consumption	VSI Sand in Cu.M.	Rate of consumption	Nat. Sand in Cu.M.	Rate of consumption	Cr. Sand in Cu.M.	Rate of consumption	Stone in Cu.M.	Rate of consumption	40 mm & above Aggregates in Cu.M.	Rate of consumption	Below 40 mm Aggregates in Cu.M.	Rate of consumption	Bricks in Nos.	T.M.T./H.Y.S.D.	Rate of consumption	Hard Murrum in cum	Rate of consumption	Rate of consumption	Rate of consumption	Rate of consumption	Rate of consumption	Rate of consumption	Rate of consumption	Rate of consumption	Rate of consumption	Rate of consumption	Rate of consumption			
ITEM No.30: Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats. SSR 2022-23 Item No. 36.11 Page No. 227	266.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sq.M	
ITEM No.31: Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces SSR 2022-23 Item No. 35.13 Page No. 224	458.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sq.M	
ITEM No.32: Providing and applying two coats of synthetic enamel paint of approved colour to new/old structural steel work and wood work in buildings SSR 2022-23 Item No. 35.07 Page No. 223	52.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sq.M	
Lift Upto 3.80 Mtr. From Plinth	31.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sq.M	
Lift Above 3.80 To 7.60 Mtr.	70.29	1405.83	141.52	0.00	0.00	0.00	15.87	0.00	185.22	0.00	37.35	0.00	148.01	0.00	44360.00	4.23	0.00	515.76	0.00	0.00	0.00	0.00	0.00	0.00	103.27	0.00	126.06	24.72	0.00	0.00	0.00	Sq.M	
		70.29																															M.T


Rajendra Ghodake
 Consulting Civil Engineer
 Reg.No.CBOOM/R/2021/APL/00237
 OMC, Osmanabad
 Cell 9403050003/8788717415

GRAIN GODOWN OF 1200 M.T. CAPACITY FOR SUMBHEKAR AGRO PRODUCER COMPANY LTD. SUMBHA, IN GAT. NO. 243, AT SUMBHA, TQ. & DIST. OSMANABAD.



AREA STATEMENT		
Sr.No.	PARTICULARS	
1.	PLOT AREA = Sq.M.	
2.	GRAIN GODOWN B/U AREA = 733.28 Sq.M.	
3.	TOTAL B/U AREA = 733.28 Sq.M.	
REFERENCES		
1)	PLOT BOUNDARY	
2)	B/U AREA	
SCHEDULE OF OPENINGS		
Sr.No	OPENING	SIZE
1	R.S.	3.05 x 4.57
2	W	1.528 x 1.22
3	V	1.528 x 0.61
M.S ROLLING SHUTTER ALU SLIDG WINDOWS OF THREE TRACKS ALU LOUV WITH GI MESH		
NAME OF ENGINEER:		NAME & SIGN. OF OWNER:
<p>Name Of Work: CONSTRUCTION OF GRAIN GODOWN OF 1200 M.T. CAPACITY FOR SUMBHEKAR AGRO PRODUCER COMPANY LTD. SUMBHA, IN GAT. NO. 243, AT SUMBHA, TQ. & DIST. OSMANABAD, UNDER STATE OF MAHARASHTRA'S AGRICULTURE & RURAL TRANSFORMATION PROGRAM (SMART) PROJECT WORLD BANK ASSISTED</p>		<p>CHAIRMAN N.</p>
<p>Reg.No.CBOOM/R/2021/APL/00237</p>		<p>SUMBHEKAR AGRO PRODUCER COMPANY LTD SUMBHA, AT SUMBHA, TQ. & DIST. OSMANABAD.</p>

NAME OF ENGINEER:
Rajendra Ghodake
Consulting Civil Engineer

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