

ESTIMATE

Name Of Work :-Proposed Construction of Dal & Besan Mill Machinery Shed For Andura Farmer Producer Co.ltd, In G.no.52,At-Andura, Tal-Balapur, Dist: Akola (MH)

Estimated Cost of Works (Rs.) :- 6245000.00

Rupees sixty-two lakhs forty-five thousand and paise nil only



SAI CONSULTANTS

Consulting Civil Engineer, Builders & Developers,
Approved Valuers, Chartered Engineer & Govt. Contractors.

Shop no.2, Shradha Building, Gokul Colony,
Collage Road, Rahuri, Tal-Rahuri, Dist-A'Nagar.
Mo.9970253888,9552183333
email-saiconsultants333888@gmail.com

Ref no.

Date:-

Name Of Work :- Proposed Construction of Dal & Besan Mill Machinery Shed For Andura Farmer Producer Co.ltd, In G.no.52, At-Andura, Tal-Balapur, Dist: Akola (MH)

RECAPITULATION SHEET

1	S.W.I - Dal & Besan Mill Machinery Shed Construction	Rs.	4791415.00
2	Add Royalty	Rs.	108460.00
3	Add Testing Charges	Rs.	44285.00
4	Add. 1.00 % Insurance on Part A	Rs.	47914.00
5	Add.18.00 % GST	Rs	862455.00
	Total Rs.		5854529.00
6	Add. 3% Contigencies on Total	Rs	175763.00
	Say Rs.		6030292.00
7	Sub Work No:-II Electrification	Rs.	177445.00
	Total Rs.		177445.00
8	Add.18.00 % GST On Electrical Work	Rs	31940.00
9	Add. 3% Contigencies on Elecrical	Rs	5323.00
	B) Total Rs.		214708.00
	Grand Total (A+B) Rs.		6245000.00
	Say Rs..		6245000.00

Rupees sixty-two lakhs forty-five thousand and paise nil only


Chartered Engineer
Gaurav Rajendra Bhaskar
B.E.(Civil) A.M.I.E.
Chartered Engineer
AM3023322


Consulting Engineer
SAI CONSULTANT
Consulting Civil Engineer
Rahuri, Dist. Ahmednagar



Name Of Work :-Proposed Construction of Dal & Besan Mill Machinery Shed For Andura Farmer Producer Co.ltd, In G.no.52,At-Andura, Tal-Balapur, Dist: Akola (MH)

**S.W.I - Dal & Besan Mill Machinery Shed
Construction**

ABSTRACT

Quantity	I.No	Item of work	Rate	unit	Amount
77.76	1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m.beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering Including shoring and strutting etc. complete. (LIFT UPTO 1.5 M.) By Mechanical Means	207.00	Cubic Metre	16096.32
46.66	2	Excavation for foundation in Hard murum in cluding removing the excavated material upto adistance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 to 3.0m.) By Mechanical Means	284.00	Cubic Metre	13251.44
112.37	3	Providing dry trap/ granite/ quartzite/ gneiss rubble stone soiling 15 cm to 20 cm thick including hand packing and compacting complete. Spec.No. : Bd.A.12 Page No. 264 ;	1884.27	Cubic Metre	211735.42
124.42	4	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layersincluding watering and compacting etc. complete.	120.00	Cubic Metre	14930.40
257.81	5	Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20 cm including watering and compaction etc.complete.	1047.22	Cubic Metre	269983.79
38.66	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)	2570.55	Cubic Metre	99377.46
40.40	7	Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of trap/granite/quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete ,with fully automatic microprocess or base dPLCwith SCADA enable dreversible Drum Type mixer/ concrete Batch mix plant (Panmixer) etc.complete. With fine aggregate (Crushed sand VSI Grade)	6431.85	Cubic Metre	259846.74



Quantity	I.No	Item of work	Rate	unit	Amount
23.11	8	Providing and laying in situ cement concrete of M-25 grade of trap / granite/quartzite/gneiss metal for R.C.C. work like raft, grillages, strips, foundations and footings of R.C.C.columns and steel stanchions including bailing-out water manually, including centering formwork of plywood / steel, compaction, covering newly laid concrete by gunny bag, plastic or tarpaulin, finishing the formed surface with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc complete. (Excluding reinforcement) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. (Wooden planks / shuttering will not be allowed) Spec.No.:Bd.F.2 Page No. 298 /IS 456 (1978)	7870.13	Cubic Metre	181878.70
9.56	9	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	14550.13	Cubic Metre	139099.24
16.08	10	Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, 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)	13014.60	Cubic Metre	209274.77
4.20	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	89703.00	Metric Tonne	376752.60



Quantity	I.No	Item of work	Rate	unit	Amount
10.82	12	Providing Brick masonry in cement mortal 1.6 using second Class Burnt Bricks in foundation and plinth of inner walls/ in plinth of external walls including bailing out water manually, striking joints on unexposed faces ,watering and scaffolding complete Bd. G. 1, Page No.313,	7894.63	Cubic Metre	85419.90
26.88	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	8133.63	Cubic Metre	218631.97
229.30	14	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	653.86	Square Metre	149930.10
14.40	15	Providing and fixing steel window of various sizes as per detailed drawing without hotdip zinc coating, with out ventilators, including fabricating/ glazing with plain/ obscured glass panels of approved type and quality, iron oxidised fixtures and fastenings, finishing with oil painting two coats complete (with guard bars 12 mm square at 10 cm c/c.)	4827.00	Square Metre	69508.80
229.30	16	Providing and applying white-wash in one coat on old/ new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	8.00	Square Metre	1834.40
229.30	17	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.	80.00	Square Metre	18344.00
21.00	18	Providing and fixing rolling shutter fabricated from steel at hsofminimum thickness 0.9mm with lock plate of 3.15 mm thickness reinforced with 35x35x5mm angle section fitted with sliding bolts and handles for both sides, deep M.S.channel section of depth and thickness not less than 65mm and 3.15mm respectively with hold fastarr angements, M.S.Bracket plate 300x300x3.15mm minimum size and shape with square bar, suspension shaft of minimum 32mm diameter, hood cover of M.S. sheet not less than 0.9mm thickness and of any size attopand safety device sincluding mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade castir on or mild steel and one coat of redlead primer etc. complete.(I.S.62481979) (Without mechanical gear)	5308.00	Square Metre	111468.00



Quantity	I.No	Item of work	Rate	unit	Amount
334.82	19	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.	853.64	Square Metre	285815.74
9.72	20	Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anti corrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.	119459.00	Metric Tonne	1161141.48
687.03	21	Providing and fixing colour coated Zincolume (R) AZ 150 (min 150 gms /sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45mm Base Metal Thickness (BMT) (0.5mm TCT), High strength steel with min. 550 MP a yield strength, metallic hot dip coated with Aluminium- Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLOR BOND (R) steel quality super durable polyester paint coat (with in organic pigment). The paint shall have a total coating thickness of nominal 35um, comprising of nominal 25 um exterior coat on top surface and nominal 10um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five panat nominal 180-250 mm center-to-center. The endrib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25um Zinc-Tin alloy coated, Hexhead, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram / Square Metre).	1173.00	Square Metre	805886.19
6.00	22	Turbo ventilator 24" MATERIAL RATES FOR SSR For Year 2021-22, Page no. 374, Building (Bd-R : Roofing and ceiling)	9702.00	No.	58212.00
20.70	23	Providing and fixing UPVC Roof made up of 3 layers roofing material of thickness 2mm having width of 1130mm and of required Length having Tensile strength not less than 330Kilo gram/ cm ² , including fastening with self drilling screw having washers made of stainless steel etc. complete.	1594.00	Square Metre	32995.80
				Total Rs.	4791415.26
			Part A)	Say Rs.	4791415.00
119.79	24	Royalty Charges for sand	237.37	Cum	28434.55
370.18		Royalty Charges for Rubble and HM	216.18	Cum	80025.51
				Total Rs.	108460.06
			Part B)	Say Rs.	108460.00



Rajendra
Chartered Engineer
Gaurav Rajendra Bhaskar
B.E.(Civil) A.M.I.E.
Chartered Engineer
AM3023322 Page 4

Zadka
Consulting Engineer
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Consulting Civil Engineer
Rahuri, Dist. Ahmednagar

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G.no.52,At-Andura, Tal-Balapur, Dist: Akola (MH)**

S.W.I - Dal & Besan Mill Machinery Shed

MEASUREMENT SHEET

I.No.

- 1 Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m.beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering Including shoring and strutting etc. complete. (LIFT UPTO 1.5 M.) By Mechanical Means
- | | | | | | | | | | | |
|-------------------------|----|---|------|---|------|---|------|------------------|----------------|------------|
| For RCC Coloumn Type C1 | 16 | x | 1.80 | x | 1.80 | x | 1.50 | = | 77.76 | Cum |
| | | | | | | | | Total Qty | = 77.76 | Cum |
- 2 Excavation for foundation in Hard murum in cluding removing the excavated material upto adistance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 to 3.0m.) By Mechanical Means
- | | | | | | | | | | | |
|-------------------------|----|---|------|---|------|---|------|------------------|----------------|------------|
| For RCC Coloumn Type C1 | 16 | x | 1.80 | x | 1.80 | x | 0.90 | = | 46.66 | Cum |
| | | | | | | | | Total Qty | = 46.66 | Cum |
- 3 Providing dry trap/ granite/ quartzite/ gneiss rubble stone soiling 15 cm to 20 cm thick including hand packing and compacting complete. Spec.No. : Bd.A.12 Page No. 264 ;
- | | | | | | | | | | | |
|--|----|---|-------|---|-------|---|------|------------------|-----------------|------------|
| For RCC Coloumn Type C1 | 16 | x | 1.80 | x | 1.80 | x | 0.23 | = | 11.92 | Cum |
| Dal & Besan Mill Machinery Shed Plinth | 1 | x | 21.97 | x | 15.24 | x | 0.30 | = | 100.45 | |
| | | | | | | | | Total Qty | = 112.37 | Cum |
- 4 Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layersincluding watering and compacting etc. complete.
- | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|------------------|-----------------|------------|
| Qty As per Exavated Quatity Item no.1 & 2 | | | | | | | | = | 124.42 | cum |
| | | | | | | | | Total Qty | = 124.42 | cum |
- 5 Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20 cm including watering and compaction etc.complete.
- | | | | | | | | | | | |
|--|---|---|-------|---|-------|---|------|------------------|-----------------|------------|
| Dal & Besan Mill Machinery Shed Plinth | 1 | x | 21.97 | x | 15.24 | x | 0.77 | = | 257.81 | cum |
| | | | | | | | | Total Qty | = 257.81 | cum |
- 6 Providing and filling in the foundation with sand of approved quality including watering, compacting etc. complete. (To be executed with prior approval of Superintending Engineer)
- | | | | | | | | | | | |
|---|----|---|-------|---|-------|---|------|------------------|----------------|------------|
| Dal & Besan Mill Machinery. Shed Plinth | 1 | x | 21.97 | x | 15.24 | x | 0.10 | = | 33.48 | cum |
| For RCC Coloumn Type C1 | 16 | x | 1.80 | x | 1.80 | x | 0.10 | = | 5.18 | |
| | | | | | | | | Total Qty | = 38.66 | cum |
- 7 Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of trap/granite/quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete ,with fully automatic microprocess or base dPLCwith SCADA enable dreversible Drum Type mixer/ concrete Batch mix plant (Panmixer) etc.complete. With fine aggregate (Crushed sand VSI Grade)



For RCC Coloumn Type C1	16	x	1.80	x	1.80	x	0.10	=	5.18	cum
Dal & Besan Mill Machinery Shed Plinth	1	x	22.43	x	15.70	x	0.10	=	35.22	
Total Qty =									40.40	cum

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

1st Step of Footing

For RCC Coloumn Type C1	16	x	1.50	x	1.50	x	0.45	=	16.20	cum
2nd Step of Footing										
For RCC Coloumn Type C1	16	x	1.20	x	1.20	x	0.30	=	6.91	
Total Qty =									23.11	cum

- 9 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)

For RCC Coloumn Type C1	16	x	0.30	x	0.60	x	3.32	=	9.56	cum
Total Qty =									9.56	cum

- 10 Providing and laying Cast in situ/Ready Mix cement concrete M-25 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)

Long Wall Ground Beams	10	x	3.97	x	0.23	x	0.60	=	5.48	
Short Wall Ground Beams	6	x	4.80	x	0.23	x	0.75	=	4.97	
Long Wall Lintel Beams Over RS	4	x	3.97	x	0.23	x	0.45	=	1.64	
Long Wall Lintel Beams Over W1	8	x	2.10	x	0.23	x	0.38	=	1.47	
Short Wall Lintel Beams BBM	6	x	4.80	x	0.23	x	0.38	=	2.52	
Total Qty =									16.08	cum

- 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.

For RCC Footing	23.11	@	75.00	Kg	=	1733.25	Kg
For RCC Coloumn	9.56	@	90.00	Kg	=	860.40	Kg
For RCC Beam	16.08	@	100.00	Kg	=	1608.00	Kg
Total Qty =						4201.65	Kg
Say =						4.20	MT



- 12 Providing Brick masonry in cement mortar 1.6 using second Class Burnt Bricks in foundation and plinth of inner walls/ in plinth of external walls including bailing out water manually, striking joints on unexposed faces ,watering and scaffolding complete Bd. G. 1, Page No.313,

Long Wall Ground Beams	10	x	3.97	x	0.23	x	0.75	=	6.85	cum
Short Wall Ground Beams	6	x	4.80	x	0.23	x	0.60	=	3.97	
							Total		10.82	
							Total Qty	=	10.82	cum

- 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

Long Wall Ground Beams	10	x	3.97	x	0.23	x	2.10	=	19.18	cum
Short Wall Ground Beams	6	x	4.80	x	0.23	x	2.10	=	13.91	
							Total	=	33.09	
Deduction										
Deduction For RS	2	x	3.00	x	0.23	x	2.10	=	2.90	
Deduction For W1	8	x	1.50	x	0.23	x	1.20	=	3.31	
									6.21	
							Total	=	26.88	
							Total Qty	=	26.88	cum

- 14 Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.

Long Wall up to Plinth	2	x	22.43			x	1.20	=	53.83	Sqm
Short Wall up to Plinth	2	x	15.70			x	1.20	=	37.68	
Long Wall Above Plinth	2	x	22.43			x	2.52	=	112.82	
Short Wall Above Plinth	2	x	15.70			x	2.52	=	78.97	
							Total		283.30	
Deduction										
Deduction For RS Both Side	4	x	3.00			x	2.10	=	25.20	
Deduction For W1	16	x	1.50			x	1.20	=	28.80	
							Total		54.00	
							Total Qty	=	229.30	Sqm

- 15 Providing and fixing steel window of various sizes as per detailed drawing without hotdip zinc coating, with out ventilators, including fabricating/ glazing with plain/ obscured glass panels of approved type and quality, iron oxidised fixtures and fastenings, finishing with oil painting two coats complete (with guard bars 12 mm square at 10 cm c/c.)

W1	8	x	1.50			x	1.20	=	14.40	Sqm
							Total Qty	=	14.40	Sqm

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

Qty.As per Item no.14								=	229.30	Sqm
							Total Qty	=	229.30	Sqm



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

Qty.As per Item no.14				=	229.30	Sqm
				Total Qty	= 229.30	Sqm

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

RS	2	x	3.00		x	3.50	=	21.00	Sqm
					Total Qty	= 21.00		Sqm	

- 19 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.

Dal & Besan Mill Machinery Shed Flooring	1	x	21.97	x	15.24		=	334.82	Sqm
						Total Qty	= 334.82	Sqm	

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

Total No. of Truss With,Rafter Purlin,Vertical Member,Runner & etc.	6	x	1485.00	x			=	8910.00	MT
Varandah Canopy	2	x	405.00	x		x	=	810.00	
								9720.00	
					Total Qty	= 9.72		MT	

- 21 Providing and fixing colour coated Zinalume (R) AZ 150 (min150 gms /sq.mt. total on each side) profiled sheets for roofing. The feed materialis manufactured out of nominal 0.45mm Base Metal Thickness (BMT) (0.5mm TCT), Hi-strength steel with min. 550 MP a yield strength, metallic hot dip coated with Aluminium- Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLOR BOND (R) steel quality super durable polyester paint coat (with in organic pigment). The paint shall have a total coating thickness of nominal 35um, comprising of nominal 25 um exterior coat on top surface and nominal 10um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtles quare flutingin the five panat nominal 180-250 mm center-to-center. The endrib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25um Zinc-Tinalloy coated, Hexhead, self-drilling screw etc. complete. (weight of profile 4.52Kilogram / Square Metre).

Roof Slop	2	x	8.50	x	22.43		=	381.31	Sqm
Verandah	2	x	3.50	x	2.00		=	14.00	
Vertical Sheets Long Wall	2	x	22.43	x	4.00		=	179.44	
Vertical Sheets Short Wall	2	x	15.70	x	4.00		=	125.60	
Vertical Gable Wall	2	x	7.62	x	2.00		=	30.48	
						Total	= 730.83		



Deduction For Turbo Ventilator & Sky light Upvc roof	6.00	x	3.00	x	1.15	=	20.70
Deduction For RS	2.00		3.00		1.45		8.70
W1	8.00		1.50		1.20		14.40
							<u>43.80</u>
							<u>43.80</u>

Total Qty = 687.03 Rmt

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

At Roof Level Ventilation

	=	6.00	No.
Total Qty	=	6.00	No.

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

	6.00	x	3.00	x	1.15	=	20.70	Sqm
							Total Qty = 20.70	Sqm

24 Royalty Charges

	Material		Qty			Qty of Material	Cum	
6	Providing and filling in the foundat	1	x	38.66	x	1.000	= 38.66	Cum
7	Providing and laying Cast in situ/ R	1	x	40.40	x	0.470	= 18.99	
8	Providing and laying in situ cement	1	x	23.11	x	0.425	= 9.82	
9	Providing and laying Cast in situ/R	1	x	9.56	x	0.425	= 4.06	
10	Providing second class Burnt Brick	1	x	16.08	x	0.425	= 6.83	
14	Providing sand faced plaster extern:	1	x	229.30	x	0.033	= 7.57	
12	Providing Brick masonry in cement	1	x	10.82	x	0.320	= 3.46	
13	Providing second class Burnt Brick	1	x	26.88	x	0.320	= 8.60	
14	Providing sand faced plaster extern:	1	x	229.30	x	0.033	= 7.57	
19	Providing and laying in situ cement	1	x	334.82	x	0.043	= 14.23	

Sand Total Qty = 119.79 Cum

3	Providing dry trap/ granite/ quartzit	1	x	112.37	x	1.00	= 112.37	
5	Filling in plinth and floors with con	1	x	257.81	x	1.00	= 257.81	

Hm and Rubble Total Qty = 370.18 Cum

Gaurav
Chartered Engineer
Gaurav Rajendra Bhaskar
B.E.(Civil) A.M.I.E.
Chartered Engineer
AM3023322

Sai
Consulting Engineer
SAI CONSULTANT
Consulting Civil Engineer
Rahuri, Dist. Ahmednagar

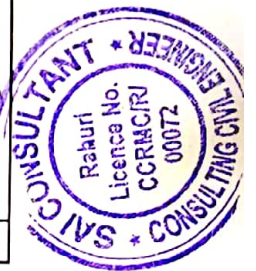


Name Of Work :- Proposed Construction of Dal & Besan Mill Machinery Shed For Andura Farmer Producer Co.ltd, In G.no.52,At-Andura, Tal-Balapur, Dist: Akola (MH)

S.W.I - Dal & Besan Mill Machinery Shed Construction

RATE ANALYSIS AS PER PWD SSR 2022-23 For MAHARASHTRA STATE

Sr. No.	Description of Item	S.S.R. Page No. & It. No.	Basic Rate	Add extra lead charges for.....					Total Lead charges	Gross Rate
				Rubble/Cr. Metal	Sand	Cr. Metal	Murum	Cement/Steel		
1	Excavation for foundation in earth, soil of all types, sand, gravel	21.02	207.00	502.27	410.55	410.55	252.22	5.22	0.00	207.00
2	Excavation for foundation in Hard murum in cluding removal of	21.08	284.00						0.00	284.00
3	Providing dry trap/ granite/ quartzite/ gneiss rubble stone soil	21.38	1382.00	502.27					502.27	1884.27
4	Filling in plinth and floors with approved excavated material	21.36	120.00						0.00	120.00
5	Filling in plinth and floors with contractors material/ brought	21.37	795.00				1.00		252.22	1047.22
6	Providing and filling in the foundation with sand of approved	21.39	2160.00		1.00	410.55			410.55	2570.55
7	Providing and laying Cast in situ/ Ready Mix cement concrete	24.01	5830.00		0.47	192.96	0.940	4.40	22.97	601.85
8	Providing and laying in situ cement concrete of M-25 grade	25.13	7287.00		0.425	174.48	0.90	7.50	39.15	7870.13
9	Providing and laying Cast in situ/Ready Mix cement concrete	25.33	13967.00		0.425	174.48	0.90	7.50	39.15	14550.13
10	Providing and laying Cast in situ/Ready Mix cement concrete	25.52	12452.00		0.425	174.48	0.85	7.50	39.15	13014.60
11	Providing and fixing in position TMT - FE - 500 bar reinforcement	26.33	89703.00						0.00	89703.00
12	Providing Brick masonry in cement mortar 1.6 using second	27.01	7755.00		0.32	131.38		1.58	8.25	7894.63
13	Providing second class Burnt Brick masonry with conventio	27.05	7994.00		0.32	131.38		1.58	8.25	8133.63
14	Providing sand faced plaster externally in cement mortar us	32.11	639.00		0.033	13.55		0.25	1.31	653.86
15	Providing and fixing steel window of various sizes as per de	39.20	4827.00						0.00	4827.00
16	Providing and applying white-wash in one coat on old/new	36.02	8.00						0.00	8.00
17	Providing and applying plastic emulsion paint of approved c	36.12	80.00						0.00	80.00
18	Providing and fixing rolling shutter fabricated from steel at	39.25	5308.00						0.00	5308.00
19	Providing and laying in situ cement concrete M20 with tren	33.30	796.00		0.043	17.45	0.089	0.70	3.65	853.64
20	Providing structural steel work in trusses, other similar trus	23.04	119459.00						0.00	119459.00
21	Providing and fixing colour coated Zincalume (R) AZ 150 (38.34	1173.00						0.00	1173.00
22	Turbo ventilator 24" MATERIAL RATES FOR SSR For Year 2021-22, Page no. 374, Building (Bd-R : Roofing and ceiling)	SSR 22-23, Page no. 374 I.no.42	9702.00						0.00	9702.00
23	Providing and fixing UPVC Roof made up of 3 layers roofin	38.37	1594.00						0.00	1594.00
24	Royalty Charges for Rubble and HM		216.18						0.00	216.18



Gaurav Rajendra Bhaskar
B.E.(Civil) A.M.I.E.
Chartered Engineer
ANR237377

SAI CONSULTANT
Consulting Engineer
Rahuri, Dist. Ahmednagar

**Name Of Work :-Proposed Construction of Dal & Besan Mill Machinery Shed For Andura Farmer
Producer Co.ltd, In G.no.52,At-Andura, Tal-Balapur, Dist: Akola (MH)**

S.W.I - Dal & Besan Mill Machinery Shed Construction

Appendix - I

Lead Chart

Sr. No.	Description	Rubble	Murum	Crush metal	Crush metal 40 mm above	Sand	Cement	Steel	Asphalt
1	2	3	4	4	4	5	6	7	8
	Source	Restricted	Local	Restricted	Restricted	Local	Local	Local	
1	Average lead as per Quarry chart in km	15.00	5.00	15.00	15.00	15.00	1.00	1.00	
2	Lead charges	502.27	252.22	410.55	393.44	410.55	104.39	104.39	
4	Extra lead charges	502.27	252.22	410.55	393.44	410.55	104.39	104.39	
5	Extra lead charges per bag of cement						5.22		


 Chartered Engineer
Gaurav Rajendra Bhaskar
 B.E.(Civil) A.M.I.E.
 Chartered Engineer
 AM3023322


 Consulting Engineer
SAI CONSULTANT
 Consulting Civil Engineer
 Rahuri, Dist. Ahmednagar



Name Of Work :- Proposed Construction of Dal & Besan Mill Machinery Shed For Andura Farmer Producer Co.ltd, In G.no.52,At-Andura, Tal-Balapur, Dist: Akola (MH)

S.W.1 - Dal & Besan Mill Machinery Shed Construction

TESTING CHART

Item	Qty	Soil/HM	Bitumen	Metal	Agg.	Tests	Frequency	Total Test	At Site	At Lab	Rate	Amt
Concrete												
		Cement	Sand		Agg							
M 10	40.40	8.89	18.99		37.98	Comp. Strength- Cube		9	5	4	690.00	2760.00
M 20	33.48	12.56	1.42		30.13							
M 25	48.75	18.28	2.07		43.88							
Total	122.63	39.73	22.48		111.98	Crush Metal-Basic Test	1/1000 Cum	3	2	1	2600.00	2600.00
		MT	Cum		Cum	Gradation	1/100 Cum	3	2	1	745.00	745.00
						Comboned Flakiness & Elongation of single metal	1/400 Cum	2	1	1	850.00	850.00
						Cement-Fineness, consistency, Setting time, Compressive strength, Specific Gravity	1/50 MT	1	1	1	3770.00	3770.00
						Sand-Fineness Modulus, Silt Content	1/ Source	1	1	1	1380.00	1380.00
						Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	Set of 5 Bricks	1	1	1	2175.00	2175.00
						GSB Mix Design./Cement Treated Sub Base (CTSB)		2	1	1	16250.00	16250.00
						Concrete Mix Design (With all Tests on basic materials)		2	1	1	13755.00	13755.00
											Total	44285.00



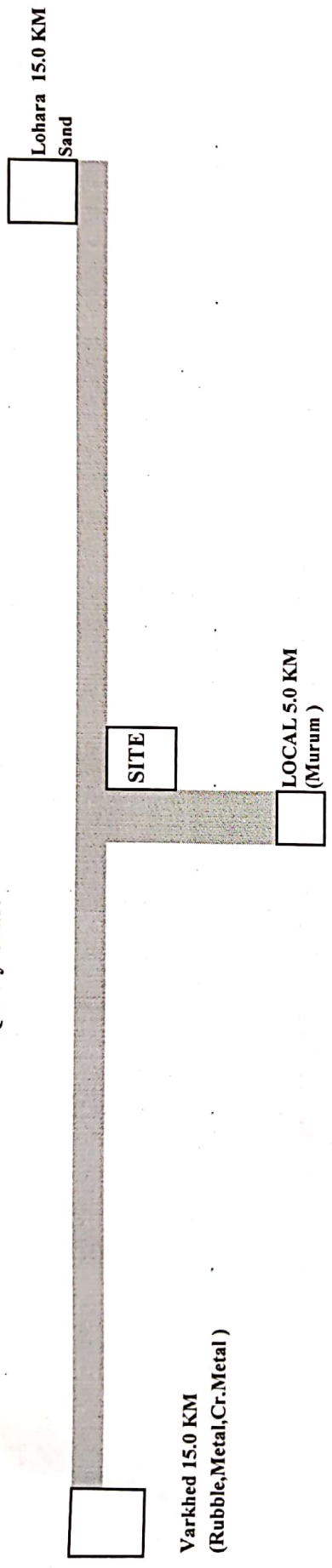
Rahurkar
Chartered Engineer
Gaurav Rajendra Bhaskar
B.E.(Civil) A.M.I.E.
Chartered Engineer
AM3023322

Sadhe
Consulting Engineer
SAI CONSULTANT
Consulting Civil Engineer
Rahuri, Dist. Ahmednagar

Name Of Work :-Proposed Construction of Dal & Besan Mill Machinery Shed For Andura Farmer Producer Co.ltd, In G.no.52,At-Andura, Tal-Balapur, Dist: Akola (MH)

S.W.I - Dal & Besan Mill Machinery Shed Construction

Quarry Chart



LEAD STATEMENT

Material	Quarry	Lead in Km.
Rubble	Varkhed	15.00
Metal	Varkhed	15.00
Crushed Metal	Varkhed	15.00
Murum	Local	5.00
Sand	Lohara	15.00

CERTIFICATE

- 1 Certified that the quarries shown on the quarry chart for metal & murum are inspected by me & they are nearest & economical to the work & contain sufficient & good quality material required for the work.
- 2 Certified that lead for quarries shown and accounted in the estimate is as per nearest route.
- 3 Certified that leads considered are found to be correct.



Bhaskar
 Chartered Engineer
Gaurav Rajendra Bhaskar
 B.E.(Civil) A.M.I.E.
 Chartered Engineer
 AM3023322

Sachin
 Consulting Engineer
SAI CONSULTANT
 Consulting Civil Engineer
 Rahuri, Dist. Ahmednagar

Name Of Work :-Proposed Construction of Dal & Besan Mill Machinery Shed For Andura Farmer Producer Co.ltd, In G.no.52,At-Andura, Tal-Balapur, Dist: Akola (MH)

Sub Work No:-II Electrification

ABSTRACT

Quantity	I.No	Item of work	Rate	unit	Amount
30.00	1	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 6 sq. mm, aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL 7-1-9	137.00	Running Meter	4110.00
15.00	2	Making trench in soft soil having 0.75 m depth and minimum 0.3 m width for laying provided cables up to voltage level of 1.1kV complete As per specification No. CW-EXN-CTR 16-1-1	161.00	Running Meter	2415.00
10.00	3	Making trench in Hard murum/Tar road having 0.75 m depth and minimum 0.3mtr width as per IS for laying provided cables up to voltage level 1.1Kv cable complete as per specification No. CW-EXN-CTR 7-2-5	199.00	Running Meter	1990.00
120.00	4	Supplying and erecting mains with 3x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW 5-12-1	93.00	Running Meter	11160.00
2.00	5	Supplying & erecting CRCA sheet metal enclosures of 1.2mm thickness with 10A, 2 pin plug & earth socket and 10A, 3 pin plug top with 10A single pole MCB having rated short - circuit breaking capacity (Icn) 10kA complete erected on angle iron / GI frame. 5-4-10	800.00	Number	1600.00
25.00	6	Point wiring for light/fan/bell in 20 mm FRLS grade HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire with flush type switch and required accessories as per specification No: WG-PW/SW 1-7-3	1929.00	Number	48225.00
4.00	7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22 /E-27 base. 2-8-11	230.00	Number	920.00



Quantity	I.No	Item of work	Rate	unit	Amount
8.00	8	Supplying and erecting integrated LED street light fitting 18 to 22W IP65 & IK08 class having single piece pressure die-cast aluminium housing, having system lumens output of Min. 1800 Lumens, min. efficacy of 100 lumen/W, CRI>70, CCT upto 6500K, THD<10%, p.f. >0.95, operating range of 140- 270V, inbuilt surge protection of 10 kV, Life class of 50,000 Hrs. at L70B50, including driver complete with 3 Years warranty as per specification No FGODF/ FLS2. 2-4-1	1929.00	Number	15432.00
2.00	9	Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC 2-7-2	736.00	Number	1472.00
2.00	10	Providng earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP 9-1-1	4714.00	Number	9428.00
2.00	11	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials testing and recording the results as per specification no. EA-EP 9-1-4	1500.00	Number	3000.00
4.00	12	Supplying, erecting & marking DPMCB 6A to 32A, C-series with rated short -circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB 5-3-6	535.00	Number	2140.00
2.00	13	Supplying, erecting & marking SPMCB 6A to 32A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB 5-3-3	173.00	Number	346.00
1.00	14	Supplying and erecting GI sheet 1.6 mm (16 SWG) having zinc coating of 350 microns with galvanization process compliance to IS 2629:1985 to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint. 6-1-6	2560.00	Square Metre	2560.00



Quantity	I.No	Item of work	Rate	unit	Amount
1.00	15	Supplying and erecting marine (Waterproof) plywood 18/19 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners, supports, nut bolts etc. complete with compliance to IS 720:2010 6-1-14	1471.00	Square Metre	1471.00
2.00	16	Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole/ 4 pole MCCB as incomer & outgoing SP MCB (12 poles) or TP MCB of 4 ways (12 poles), with door, 1.2mm thickness, surface/flush mounted, on iron/GI frame (vertical busbar type) as per specification no.SW-SWR/MCBDB1 5-4-15	6568.00	Number	13136.00
10.00	17	Supplying & erecting G.I. pipe 'A' class 25 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE 7-6-1	217.00	Running Meter	2170.00
6.00	18	Supplying & erecting G.I. pipe 'A' class 40 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE 7-6-2	337.00	Running Meter	2022.00
12.00	19	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. 7-6-10	241.00	Running Meter	2892.00
4.00	20	Supplying & erecting 18guage M.S. Box powder coated (4"x4") 3 way for mains connection. MR	500.00	Number	2000.00
8.00	21	Supplying & erecting single compression type brass cable glands for 3 to 4 core 6 sq mm /2 to 4 core 10 sq mm for XLPE armoured cable as per specification No.CB-GL 7-7-2	87.00	Number	696.00
8.00	22	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendant holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box. 1-5-7	39.00	Number	312.00
4.00	23	Point wiring for independent plug in 20 mm metal conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW 1-7-2	941.00	Number	3764.00



Quantity	I.No	Item of work	Rate	unit	Amount
4.00	24	Wiring for plug on board with Switch socket surface/concealed type, copper wiring and earthing and with modular accessories as per specification No: WGPW/ CW 1-7-26	386.00	Number	1544.00
40.00	25	Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW 1-3-2	62.00	Running Meter	2480.00
20.00	26	Supplying and erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW 1-3-3	89.00	Running Meter	1780.00
2.00	27	Supplying and erecting modular type D.P. switch 32A with indicator, duly erected on provided plate and box with wiring connections complete. 1-6-8	210.00	Number	420.00
2.00	28	Supplying, erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc.in provided distribution board. 5-3-14	310.00	Number	620.00
4.00	29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22 / E- 27 base. 2-8-9	126.00	Number	504.00
8.00	30	Supplying and erecting IP65 and IK08 rated UV shielded polycarbonate waterproof and dustproof industrial grade LED fitting (4 feet) max. 36W with high transitivity diffuser with system lumens output of min. 4300 lumens , min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 4 kV, Life class of 50,000 Hrs. at L70B50 , IP20 rated, including driver with auto cutoff & auto restart feature at 325V with end caps on PVC lock/wooden board with 3 years warranty. 2-2-1	3396.00	Number	27168.00
1.00	31	Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as per specification no. FG-FN/CF 2-10-2	2092.00	Square Meter	2092.00



Quantity	I.No	Item of work	Rate	unit	Amount
1.00	32	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on olished double wooden block/sunmica block of suitable size. 2-3-13	140.00	Number	140.00
8.00	33	Supplying and erecting Street light bracket made from 25 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC 2-7-1	655.00	Number	5240.00
2.00	34	Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected on angle iron/GI frame. 5-4-13	400.00	Number	800.00
2.00	35	Supplying, erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board. 5-3-18	698.00	Number	1396.00
				Total Rs.	177445.00
			Part A)	Say Rs.	177445.00

Bhaskar
Chartered Engineer
Gaurav Rajendra Bhaskar
B.E.(Civil) A.M.I.E.
Chartered Engineer
AM3023322

Sadhvi
Consulting Engineer
SAI CONSULTANT
Consulting Civil Engineer
Rahuri, Dist. Ahmednagar



Name Of Work :-Proposed Construction of Dal & Besan Mill Machinery Shed For Andura Farmer Producer Co.ltd, In G.no.52,At-Andura, Tal-Balapur, Dist: Akola (MH)

Sub Work No:-III Electrification

MEASUREMENT SHEET

Item. No.	Description of Items	NO.	LENTH	BREATH	DEPTH	TOTAL	UNIT				
1	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 6 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL 7-1-9						Running Meter				
	Mill Machinery Shed	1	x	1	x	30.00	x	1	x	=	30.00
						Total					30.00
						Say					30.00
2	Making trench in soft soil having 0.75 m depth and minimum 0.3 m width for laying provided cables up to voltage level of 1.1kV complete As per specification No. CW-EXN-CTR 16-1-1						Running Meter				
	Mill Machinery Shed	1	x	1	x	15.00	x	1	x	=	15.00
						Total					15.00
						Say					15.00
3	Making trench in Hard murum/Tar road having 0.75 m depth and minimum 0.3mtr width as per IS for laying provided cables up to voltage level 1.1Kv cable complete as per specification No. CW-EXN-CTR 7-2-5						Number				
	Mill Machinery Shed	1	x	1	x	10.00	x	1	x	=	10.00
						Total					10.00
						Say					10.00
4	Supplying and erecting mains with 3x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW 5-12-1						Running Meter				
	Mill Machinery Shed	1	x	1	x	120.00	x	1	x	=	120.00
						Total					120.00
						Say					120.00
5	Supplying & erecting CRCA sheet metal enclosures of 1.2mm thickness with 10A, 2 pin plug & earth socket and 10A, 3 pin plug top with 10A single pole MCB having rated short - circuit breaking capacity (Icn) 10kA complete erected on angle iron / GI frame. 5-4-10						Number				
	Mill Machinery Shed	1	x	2	x	1.00	x	1	x	=	2.00
						Total					2.00
						Say					2.00
6	Point wiring for light/fan/bell in 20 mm FRLS grade HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire with flush type switch and required accessories as per specification No: WG-PW/SW 1-7-3						Number				
	Mill Machinery Shed	1	x	25	x	1.00	x	1	x	=	25.00
						Total					25.00
						Say					25.00
7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22 /E-27 base. 2-8-11						Number				
	Mill Machinery Shed	2	x	2	x	1.00	x	1	x	=	4.00
						Total					4.00



										Say	4.00	
8	Supplying and erecting integrated LED street light fitting 18 to 22W IP65 & IK08 class having single piece pressure die-cast aluminium housing, having system lumens output of Min. 1800 Lumens, min. efficacy of 100 lumen/W, CRI>70, CCT upto 6500K, THD<10%, p.f. >0.95, operating range of 140-270V, inbuilt surge protection of 10 kV, Life class of 50,000 Hrs. at L70B50, including driver complete with 3 Years warranty as per specification No FGODF/ FLS2. 2-4-1										Number	
	Mill Machinery Shed	4	x	2	x	1.00	x	1	x	1	=	8.00
										Total	8.00	
										Say	8.00	
9	Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC 2-7-2										Number	
	Mill Machinery Shed	1	x	2	x	1.00	x	1	x	1	=	2.00
										Total	2.00	
										Say	2.00	
10	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP 9-1-1										Number	
	Mill Machinery Shed	1	x	2	x	1.00	x	1	x	1	=	2.00
										Total	2.00	
										Say	2.00	
11	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials testing and recording the results as per specification no. EA-EP 9-1-4										Number	
	Mill Machinery Shed	1	x	2	x	1.00	x	1	x	1	=	2.00
										Total	2.00	
										Say	2.00	
12	Supplying, erecting & marking DPMCB 6A to 32A, C-series with rated short -circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB 5-3-6										Number	
	Mill Machinery Shed	1	x	4	x	1.00	x	1	x	1	=	4.00
										Total	4.00	
										Say	4.00	
13	Supplying, erecting & marking SPMCB 6A to 32A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB 5-3-3										Number	
	Mill Machinery Shed	1	x	2	x	1.00	x	1	x	1	=	2.00
										Total	2.00	
										Say	2.00	
14	Supplying and erecting GI sheet 1.6 mm (16 SWG) having zinc coating of 350 microns with galvanization process compliance to IS 2629:1985 to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint. 6-1-6										Square Metre	
	Mill Machinery Shed	1	x	1	x	1.00	x	1	x	1	=	1.00
										Total	1.00	
										Say	1.00	



15	Supplying and erecting marine (Waterproof) plywood 18/19 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners, supports, nut bolts etc. complete with	Square Metre
Mill Machinery Shed	1 x 1 x 1.00 x 1 x 1 =	1.00
	Total	1.00
	Say	1.00
16	Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole/ 4 pole MCCB as incomer & outgoing SP MCB (12 poles) or TP MCB of 4 ways (12 poles), with door, 1.2mm thickness, surface/flush mounted, on iron/GI frame (vertical busbar type) as per specification no.SW-SWR/MCBDB1 5-4-15	Number
Mill Machinery Shed	1 x 1 x 2.00 x 1 x 1 =	2.00
	Total	2.00
	Say	2.00
17	Supplying & erecting G.I. pipe 'A' class 25 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE 7-6-1	Running Meter
Mill Machinery Shed	1 x 10 x 1.00 x 1 x 1 =	10.00
	Total	10.00
	Say	10.00
18	Supplying & erecting G.I. pipe 'A' class 40 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE 7-6-2	Running Meter
Mill Machinery Shed	1 x 6 x 1.00 x 1 x 1 =	6.00
	Total	6.00
	Say	6.00
19	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. 7-6-10	Running Meter
Mill Machinery Shed	2 x 6 x 1.00 x 1 x 1 =	12.00
	Total	12.00
	Say	12.00
20	Supplying & erecting 18 gauge M.S. Box powder coated (4"x4") 3 way for mains connection. MR	Number
Mill Machinery Shed	1 x 2 x 2.00 x 1 x 1 =	4.00
	Total	4.00
	Say	4.00
21	Supplying & erecting single compression type brass cable glands for 3 to 4 core 6 sq mm /2 to 4 core 10 sq mm for XLPE armoured cable as per specification No.CB-GL 7-7-2	Number
Mill Machinery Shed	1 x 8 x 1.00 x 1 x 1 =	8.00
	Total	8.00
	Say	8.00



- 22 Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendant holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box. 1-5-7 Number

Mill Machinery Shed	1	x	8	x	1.00	x	1	x	1	=	8.00
										Total	8.00
										Say	8.00

- 23 Point wiring for independent plug in 20 mm metal conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW 1-7-2 Number

Mill Machinery Shed	1	x	4	x	1.00	x	1	x	1	=	4.00
										Total	4.00
										Say	4.00

- 24 Wiring for plug on board with Switch socket surface/concealed type, copper wiring and earthing and with modular accessories as per specification No: WGPW/ CW 1-7-26 Number

Mill Machinery Shed	1	x	4	x	1.00	x	1	x	1	=	4.00
										Total	4.00
										Say	4.00

- 25 Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW 1-3-2 Running Meter

Mill Machinery Shed	1	x	40	x	1.00	x	1	x	1	=	40.00
										Total	40.00
										Say	40.00

- 26 Supplying and erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW 1-3-3 Running Meter

Mill Machinery Shed	1	x	20	x	1.00	x	1	x	1	=	20.00
										Total	20.00
										Say	20.00

- 27 Supplying and erecting modular type D.P. switch 32A with indicator, duly erected on provided plate and box with wiring connections complete. 1-6-8 Number

Mill Machinery Shed	1	x	2	x	1.00	x	1	x	1	=	2.00
										Total	2.00
										Say	2.00

- 28 Supplying, erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc.in provided distribution board. 5-3-14 Number

Mill Machinery Shed	1	x	2	x	1.00	x	1	x	1	=	2.00
										Total	2.00
										Say	2.00

- 29 Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22 / E-27 base. 2-8-9 Number

Mill Machinery Shed	1	x	4	x	1.00	x	1	x	1	=	4.00
										Total	4.00



Say 4.00

- 30 Supplying and erecting IP65 and IK08 rated UV shielded polycarbonate waterproof and dustproof industrial grade LED fitting (4 feet) max. 36W with high transitivity diffuser with system lumens output of min. 4300 lumens , min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 4 kV, Life class of 50,000 Hrs. at L70B50 , IP20 rated, including driver with auto cutoff & auto restart feature at 325V with end caps on PVC lock/wooden board with 3 years warranty. 2-2-1

Mill Machinery Shed	1	x	8	x	1.00	x	1	x	1	=	8.00
											Total
											8.00
											Say
											8.00

- 31 Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as per specification no. FG-FN/CF 2-10-2

Mill Machinery Shed	1	x	1	x	1.00	x	1	x	1	=	1.00
											Total
											1.00
											Say
											1.00

- 32 Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on olished double wooden block/sunmica block of suitable size. 2-3-13

Mill Machinery Shed	1	x	1	x	1.00	x	1	x	1	=	1.00
											Total
											1.00
											Say
											1.00

- 33 Supplying and erecting Street light bracket made from 25 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC 2-7-1

Mill Machinery Shed	1	x	8	x	1.00	x	1	x	1	=	8.00
											Total
											8.00
											Say
											8.00

- 34 Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected on angle iron/GI frame. 5-4-13

Mill Machinery Shed	1	x	2	x	1.00	x	1	x	1	=	2.00
											Total
											2.00
											Say
											2.00

- 35 Supplying, erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board. 5-3-18

Mill Machinery Shed	1	x	1	x	2.00	x	1	x	1	=	2.00
											Total
											2.00
											Say
											2.00

Rajendra Bhaskar
Chartered Engineer
Gaurav Rajendra Bhaskar
B.E.(Civil) A.M.I.E.
Chartered Engineer
AM3023322

Saithes
Consulting Engineer
SAI CONSULTANT
Consulting Civil Engineer
Rahuri, Dist. Ahmednagar

