

ESTIMATE

**Name of Work :- Proposed Construction of Fruit Processing Plant Shed In G.no.17 Paiki,
For Kasegaon Agro Producer Co. ltd, At- Kasegaon, Tal-Pandharpur, Dist: Solapur (MH)**

Estimated Cost of Works (Rs.) :- 3507951.00

Rupees thirty-five lakhs seven thousand nine hundred fifty-one and paise nil only



SAI CONSULTANT'S

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

Shop no.2, Shraddha Building, Gokul Colony,
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Ref no.

Date:-

Name of Work :- Proposed Construction of Fruit Processing Plant Shed In G.no.17 Paiki,
For Kasegaon Agro Producer Co. Ltd, At- Kasegaon, Tal-Pandharpur, Dist: Solapur (MH)

RECAPITULATION SHEET

1	Work Portion (Part A)	Rs.	2891869.00
2	Add Royalty	Rs.	52347.00
3	Add Testing Charges	Rs.	14280.00
4	Add. 1.00 % Insurance on Part A	Rs.	28919.00
5	Add.18.00 % GST Part A	Rs	520536.00
		Total Rs.	3507951.00
		Say Rs.	3507951.00

Rupees thirty-five lakhs seven thousand nine hundred fifty-one and paise nil only

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

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



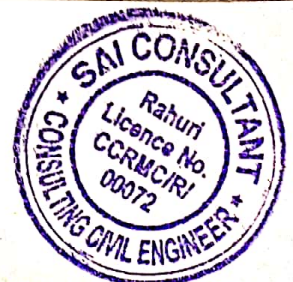
Name of Work :- Proposed Construction of Fruit Processing Plant Shed In G.no.17 Paiki, For Kasegaon Agro Producer Co. Ltd, At- Kasegaon, Tal-Pandharpur, Dist: Solapur (MH)

ABSTRACT

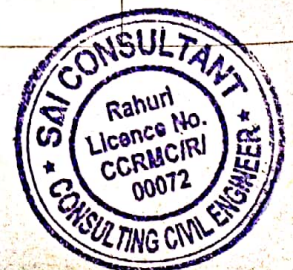
Quantity	I.No	Item of work	Rate	unit	Amount
19.60	1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m.beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the 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	4057.20
11.76	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	3339.84
63.80	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 ;	1703.99	Cubic Metre	108714.56
31.36	4	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layersincluding watering and compacting etc. complete.	120.00	Cubic Metre	3763.20
104.14	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	109057.49
14.00	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)	2440.05	Cubic Metre	34160.70
27.50	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)	6231.99	Cubic Metre	171379.73



Quantity	I.No	Item of work	Rate	unit	Amount
4.59	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)	7668.88	Cubic Metre	35200.16
4.24	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)	14348.88	Cubic Metre	60839.25
10.67	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)	12833.88	Cubic Metre	136937.50
1.51	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, arches, 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	135451.53



Quantity	I.No	Item of work	Rate	unit	Amount
5.51	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,	7852.87	Cubic Metre	43269.31
24.20	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	8091.87	Cubic Metre	195823.25
168.86	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.	649.55	Square Metre	109683.01
10.80	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.)	4874.00	Square Metre	52639.20
168.86	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	1350.88
168.86	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	13508.80
33.36	18	Providing and fixing rolling shutter fabricated from steel at hsof minimum 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	177074.88



Quantity	I.No	Item of work	Rate	unit	Amount
275.99	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.	834.97	Square Metre	230443.37
6.00	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	716754.00
415.70	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).	1173.00	Square Metre	487616.10
4.00	22	Turbo ventilator 24" MATERIAL RATES FOR SSR For Year 2021-22,Page no. 374, Building (Bd-R : Roofing and ceiling)	9702.00	No.	38808.00
13.80	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	21997.20
				Total Rs.	2891869.16
			Part A)	Say Rs.	2891869.00
67.58	24	Royalty Charges for sand	237.37	Cum	16041.46
167.94		Royalty Charges for Rubble and HM	216.18	Cum	36305.27
				Total Rs.	52346.73
			Part B)	Say Rs.	52347.00



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Rahuri, Dist. Ahmednagar

Name of Work :- Proposed Construction of Fruit Processing Plant Shed In G.no.17 Paiki, For Kasegaon Agro Producer Co. Ltd, At- Kasegaon, Tal-Pandharpur, Dist: Solapur (MH)

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	10	x	1.40	x	1.40	x	1.00	=	19.60	Cum		
									Total Qty	=	19.60	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	10	x	1.40	x	1.40	x	0.60	=	11.76	Cum		
									Total Qty	=	11.76	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	10	x	1.40	x	1.40	x	0.20	=	3.92	Cum		
Cleaning & Grading Shed Plinth	1	x	21.34	x	12.20	x	0.23	=	59.88			
									Total Qty	=	63.80	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									=	31.36	cum	
Item no.1 & 2												
									Total Qty	=	31.36	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.

Cleaning & Grading Shed Plinth	1	x	21.34	x	12.20	x	0.40	=	104.14	cum		
									Total Qty	=	104.14	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)

Cleaning & Grading Shed Plinth	1	x	21.34	x	12.20	x	0.05	=	13.02	cum		
For RCC Coloumn Type C1	10	x	1.40	x	1.40	x	0.05	=	0.98			
									Total Qty	=	14.00	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 (Pan mixer) etc.complete. With fine aggregate (Crushed sand VSI Grade)

For RCC Coloumn Type C1	10	x	1.40	x	1.40	x	0.08	=	1.47	cum
Cleaning & Grading Shed Plinth	1	x	21.34	x	12.20	x	0.10	=	26.03	



Total Qty = 27.50 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	10	x	1.10	x	1.10	x	0.30	=	3.63	cum
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2nd Step of Footing

For RCC Coloumn Type C1	10	x	0.80	x	0.80	x	0.15	=	0.96	
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Total Qty	=	4.59	cum
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- 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	10	x	0.23	x	0.45	x	4.10	=	4.24	cum
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Total Qty	=	4.24	cum
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- 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, compactionand 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	8	x	5.16	x	0.23	x	0.38	=	3.61
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Short Wall Ground Beams	2	x	12.20	x	0.23	x	0.45	=	2.53
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Long Wall Lintel Beams	8	x	5.16	x	0.23	x	0.30	=	2.85
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Short Wall Lintel Beams	2	x	12.20	x	0.23	x	0.30	=	1.68
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Total Qty	=	10.67	cum
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- 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	4.59	@	70.00	Kg	=	321.30	Kg
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For RCC Coloumn	4.24	@	80.00	Kg	=	339.20	Kg
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For RCC Beam	10.67	@	80.00	Kg	=	853.60	Kg
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Total Qty	=	1514.10	Kg
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Say	=	1.51	MT
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- 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	8	x	5.16	x	0.23	x	0.42	=	3.99	cum
Short Wall Ground Beams	2	x	12.20	x	0.23	x	0.27	=	1.52	
							Total		5.51	
							Total Qty	=	5.51	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	8	x	5.16	x	0.23	x	2.40	=	22.79	cum
Short Wall Ground Beams	2	x	12.20	x	0.23	x	2.40	=	13.47	
							Total	=	36.26	
Deduction										
Deduction For RS	2	x	4.57	x	0.23	x	2.40	=	5.05	
Deduction For W1	6	x	1.50	x	0.23	x	1.20	=	2.48	
Lintel Beam	8	x	5.16	x	0.23	x	0.30	=	2.85	
	2	x	12.2	x	0.23	x	0.30	=	1.68	
									12.06	
							Total	=	24.20	
							Total Qty	=	24.20	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	21.80			x	1.00	=	43.60	Sqm
Short Wall up to Plinth	2	x	12.66			x	1.00	=	25.32	
Long Wall Above Plinth	2	x	21.80			x	2.40	=	104.64	
Short Wall Above Plinth	2	x	12.66			x	2.40	=	60.77	
							Total		234.33	
Deduction										
Deduction For RS Both Side	4	x	4.57			x	2.40		43.87	
Deduction For W1	12	x	1.50			x	1.20		21.60	
							Total		65.47	
							Total Qty	=	168.86	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	6	x	1.50			x	1.20	=	10.80	Sqm
							Total Qty	=	10.80	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.17 = 168.86 Sqm
Total Qty = 168.86 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.17 = 168.86 Sqm
Total Qty = 168.86 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 atopand 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 4.57 x 3.65 = 33.36 Sqm
Total Qty = 33.36 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.

Warehouse Flooring 1 x 21.80 x 12.66 = 275.99 Sqm
Total Qty = 275.99 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 Purlin 5 x 1080.00 = 5400.00 MT
 Varandah Canopy 2 x 300.00 = 600.00

 6000.00
Total Qty = 6.00 MT



- 21 Providing and fixing colour coated Zinalume (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), 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 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).

Roof Slop	2	x	7.00	x	21.80	=	305.20	Sqm
Verandah	2	x	3.40	x	2.00	=	13.60	
Vertical Sheets Long Wall	2	x	21.80	x	2.17	=	94.61	
Vertical Sheets Short Wall	2	x	12.66	x	2.17	=	54.94	
						Total	=	468.35
Deduction For Turbo Ventilator & Sky light Upvc roof	4.00	x	3.00	x	1.15	=	13.80	
Deduction For RS	2.00		4.57		4.25		38.85	
						Total	=	52.65
Total Qty							=	415.70 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

	=	4.00	No.
Total Qty	=	4.00	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.

4.00	x	3.00	x	1.15	=	13.80	Sqm	
Total Qty							=	13.80

- 24 Royalty Charges

	Material		Qty			Qty of Material	Cum
6	Providing and filling in the foundation	1	x	14.00	x	1.000	= 14.00
7	Providing and laying Cast in situ/ R	1	x	27.50	x	0.470	= 12.93
8	Providing and laying in situ cement	1	x	4.59	x	0.425	= 1.95
9	Providing and laying Cast in situ/R	1	x	4.24	x	0.425	= 1.80
10	Providing second class Burnt Brick	1	x	10.67	x	0.425	= 4.53
14	Providing sand faced plaster external	1	x	168.86	x	0.033	= 5.57
12	Providing Brick masonry in cement	1	x	5.51	x	0.320	= 1.76
13	Providing second class Burnt Brick	1	x	24.20	x	0.320	= 7.74
14	Providing sand faced plaster external	1	x	168.86	x	0.033	= 5.57
19	Providing and laying in situ cement	1	x	275.99	x	0.043	= 11.73
						Sand	Total Qty = 67.58
							Cum
3	Providing dry trap/ granite/ quartzite	1	x	63.80	x	1.00	= 63.80
5	Filling in plinth and floors with concrete	1	x	104.14	x	1.00	= 104.14
						Hm and Rubble	Total Qty = 167.94
							Cum

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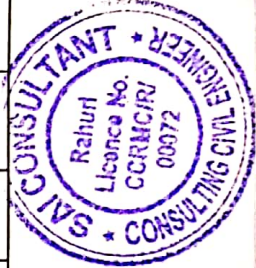


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Name of Work :- Proposed Construction of Fruit Processing Plant Shed In G.no.17 Paiki, For Kasegaon Agro Producer Co. Ltd, At- Kasegaon, Tal-Pandharpur, Dist: Solapur (MH)

RATE ANALYSIS AS PER PWD SSR 2022-23 For MAHARASTRA 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	321.99	280.05	263.19	252.22	5.22	0.00	207.00	
2	Excavation for foundation in Hard murum in cluding removal	21.08	284.00						0.00	284.00	
3	Providing dry trap/ granite/ quartzite/ gneiss rubble stone soil	21.38	1382.00	1.00	321.99				321.99	1703.99	
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/ brough	21.37	795.00				1.00	252.22	252.22	1047.22	
6	Providing and filling in the foundation with sand of approved	21.39	2160.00		1.00	280.05			280.05	2440.05	
7	Providing and laying Cast in situ/ Ready Mix cement concrete	24.01	5830.00	0.47	131.62	0.940	247.40	4.40	22.97	6231.99	
8	Providing and laying in situ cement concrete of M-25 grade	25.13	7287.00	0.425	119.02	0.85	223.71	7.50	39.15	7668.88	
9	Providing and laying Cast in situ/Ready Mix cement concrete	25.33	13967.00	0.425	119.02	0.85	223.71	7.50	39.15	14348.88	
10	Providing and laying Cast in situ/Ready Mix cement concrete	25.52	12452.00	0.425	119.02	0.85	223.71	7.50	39.15	12833.88	
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	89.62			1.58	8.25	7852.87	
13	Providing second class Burnt Brick masonry with conventional	27.05	7994.00	0.32	89.62			1.58	8.25	8091.87	
14	Providing sand faced plaster externally in cement mortar using	32.11	639.00	0.033	9.24			0.25	1.31	649.55	
15	Providing and fixing steel window of various sizes as per detail	39.20	4874.00						0.00	4874.00	
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 quality	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 tremie	33.30	796.00	0.043	11.90	0.089	23.42	0.70	3.65	834.97	
20	Providing structural steel work in trusses, other similar trusses	23.04	119459.00						0.00	119459.00	
21	Providing and fixing colour coated Zincalume (R) AZ 150 (r	38.34	1173.00						0.00	1173.00	
22	Turbo ventilator 24" MATERIAL RATES FOR SSR For Year	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 roofing	38.37	1594.00						0.00	1594.00	
24	Royalty Charges for Rubble and HM		216.18						0.00	216.18	



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Name of Work :- Proposed Construction of Fruit Processing Plant Shed In G.no.17 Paiki, For Kasegaon Agro Producer Co. Ltd, At- Kasegaon, Tal-Pandharpur, Dist: Solapur (MH)

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	Restricted	Local	Local	
1	Average lead as per Quarry chart in km	5.00	5.00	5.00	5.00	6.00	1.00	1.00	
2	Lead charges	321.99	252.22	263.19	252.22	280.05	104.39	104.39	
4	Extra lead charges	321.99	252.22	263.19	252.22	280.05	104.39	104.39	
5	Extra lead charges per bag of cement						5.22		


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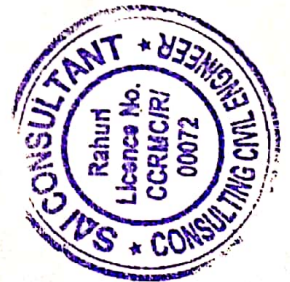
Name of Work :- Proposed Construction of Fruit Processing Plant Shed In G.no.17 Paiki, For Kasegaon Agro Producer Co. ltd, At- Kasegaon, Tal-Pandharpur, Dist: Solapur (MH)

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	27.50	6.05	12.93		25.85	Comp. Strength- Cube		9	5	4	690.00	2760.00
M 20	27.60	10.35	1.17		24.84							
M 25	19.50	7.31	0.83		17.55							
Total	74.60	23.71	14.93		68.24	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
											Total	14280.00

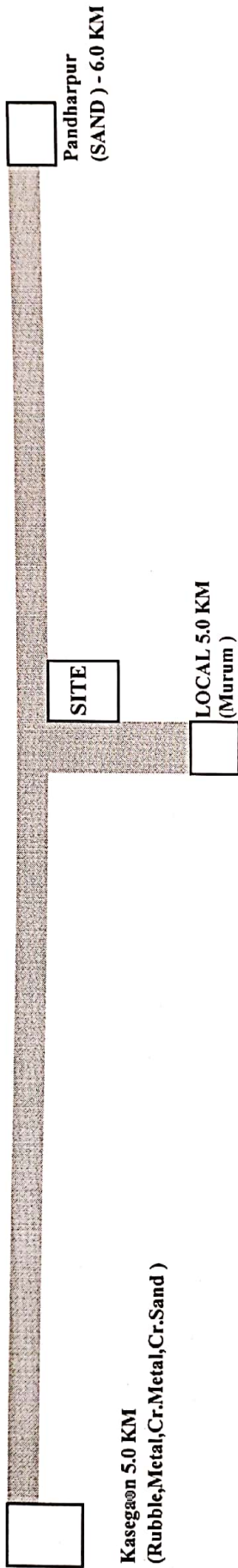
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Name of Work :- Proposed Construction of Fruit Processing Plant Shed In G.no.17 Paiki, For Kasegaon Agro Producer Co. Ltd, At- Kasegaon, Tal-Pandharpur, Dist: Solapur (MH)

Quarry Chart



LEAD STATEMENT

Material	Quarry	Lead in Km.
Rubble	Kasegaon	5.00
Metal	Kasegaon	5.00
Crushed Metal	Kasegaon	5.00
Murum	Local	5.00
Crush Sand	Pandharpur	6.00

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.

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