

ESTIMATE

Name Of Work :- Proposed Construction of Strural Fabrication & Erection Of 750 MT Onion Storage Shed Unit In G.no.511/2/A Paiki, For Veetpadmini Farmer Producer Co.ltd,At-Veet,Tal-Karmala,Dist: Solapur (MH)

Estimated Cost of Works (Rs.) :- 8383624.00

Rupees eighty-three lakhs eighty-three thousand six hundred twenty-four 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,
Collage Road, Rahuri, Tal-Rahuri, Dist-A'Nagar.
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Refno.

Date:-

Name Of Work :- Proposed Construction of Strural Fabrication & Erection Of 750 MT
Onion Storage Shed Unit In G.no.511/2/A Paiki, For Veetpadmini Farmer Producer
Co.ltd, At-Veet, Tal-Karmala, Dist: Solapur (MH)

RECAPITUALTION SHEET

1	Work Portion (Part A)	Rs.	7286606.00
2	Add Royalty	Rs.	136859.00
3	Add Testing Charges		12900.00
4	Add. 1.00 % Insurance on Part A	Rs.	72866.00
5	Add.12.00 % GST Part A	Rs	874393.00
Total Rs.			8383624.00
Say Rs.			8383624.00

Rupees eighty-three lakhs eighty-three thousand six hundred twenty-four 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 Strural Fabrication & Erection Of 750 MT Onion Storage Shed Unit In G.no.511/2/A Paiki, For Veetpadmini Farmer Producer Co.ltd,At-Veet,Tal-Karmala,Dist: Solapur (MH)

ABSTRACT

Quantity	I.No	Item of work	Rate	unit	Amount
62.21	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	193.00	Cubic Metre	12006.53
41.47	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	265.00	Cubic Metre	10989.55
15.90	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 ;	1728.92	Cubic Metre	27489.83
103.68	4	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layersincluding watering and compacting etc. complete.	113.00	Cubic Metre	11715.84
596.70	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.	837.34	Cubic Metre	499640.78
6.91	6	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)	6033.99	Cubic Metre	41694.87



Quantity	I.No	Item of work	Rate	unit	Amount
22.03	7	Providing and faying 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)	7319.01	Cubic Metre	161237.79
5.18	8	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)	13640.01	Cubic Metre	70655.25
20.92	9	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)	12117.24	Cubic Metre	253492.66
3.38	10	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	71778.00	Metric Tonne	242609.64



Quantity	I.No	Item of work	Rate	unit	Amount
58.31	11	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.	610.08	Square Metre	35573.76
13.67	12	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.	105909.00	Metric Tonne	1447564.21
15.00	13	Providing, fabricating and erecting at site of work the tubular steel structure (shed) as per standard design and specifications having various spans in between trusses and in multiples of standard length of bays as specified as per standard specifications, inclusive of cost of steel tubular trusses, tubular columns purlins, tie runners, foundation bolts, base plates, nuts and bolts, welding wherever required etc. as per detailed drawing inclusive of one coat of anticorrosive paint and two coats of oil painting of approved quality and shade etc. complete. Spec. Number : As directed by Engineer-in-charge.	100574.00	Metric Tonne	1508610.00
2616.00	14	Jali welded mesh 50*25 13 Guage MATERIAL RATES FOR SSR For Year 2021-22 Page No.374 Item No.24	204.00	Square Metre	533664.00
2500.00	15	Bamboo 25mm dia. MATERIAL RATES FOR SSR For Year 2021-22 Page No.382 Item No.18	22.00	Running Meter	55000.00



Quantity	I.No	Item of work	Rate	unit	Amount
2168.64	16	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 at 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).	1095.00	Square Metre	2374660.80
				Total Rs.	7286605.51
			Part A)	Say Rs.	7286606.00
18.65	17	Royalty Charges for sand	237.37	Cum	4426.95
612.60		Royalty Charges for Rubble and HM	216.18	Cum	132431.87
				Total Rs.	136858.82
			Part B)	Say Rs.	136859.00

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Rahuri, Dist. Ahmednagar



Name Of Work :- Proposed Construction of Strural Fabrication & Erection Of 750 MT Onion Storage Shed Unit
In G.no.511/2/A Paiki, For Veetpadmini Farmer Producer Co.ltd,At-Veet,Tal-Karmala,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 | 48 | x | 1.20 | x | 1.20 | x | 0.90 | = | 62.21 | Cum |
| | | | | | | | | Total Qty | = | 62.21 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 | 48 | x | 1.20 | x | 1.20 | x | 0.60 | = | 41.47 | Cum |
| | | | | | | | | Total Qty | = | 41.47 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 | 48 | x | 1.20 | x | 1.20 | x | 0.23 | = | 15.90 | Cum |
| | | | | | | | | Total Qty | = | 15.90 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
- | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|-----------|--------|------------|
| | | | | | | | | = | 103.68 | cum |
| | | | | | | | | Total Qty | = | 103.68 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.
- | | | | | | | | | | | |
|-------------|---|---|-------|---|-------|---|------|-----------|--------|------------|
| Shed Plinth | 1 | x | 30.15 | x | 65.97 | x | 0.30 | = | 596.70 | cum |
| | | | | | | | | Total Qty | = | 596.70 cum |
- 6 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 | 48 | x | 1.20 | x | 1.20 | x | 0.10 | = | 6.91 | cum |
| | | | | | | | | Total Qty | = | 6.91 cum |



- 7 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	48	x	1.10	x	1.10	x	0.30	=	17.42	cum
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2nd Step of Footing

For RCC Coloumn Type C1	48	x	0.80	x	0.80	x	0.15	=	4.61	
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Total Qty	=	22.03	cum
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- 8 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	48	x	0.30	x	0.30	x	1.20	=	5.18	cum
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Total Qty	=	5.18	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. 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	22	x	5.67	x	0.23	x	0.45	=	12.91	
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Short Wall Ground Beams	4	x	9.00	x	0.23	x	0.60	=	4.97	
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Short Wall Ground Beams	2	x	11.00	x	0.23	x	0.60	=	3.04	
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Total Qty	=	20.92	cum
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- 10 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.

For RCC Footing	22.03	@	60.00	Kg	=	1321.80	Kg
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For RCC Coloumn	5.18	@	75.00	Kg	=	388.50	Kg
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For RCC Beam	20.92	@	80.00	Kg	=	1673.60	Kg
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Total Qty	=	3383.90	Kg
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Say	=	3.38	MT
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- 11 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	30.75	x	0.30	=	18.45	Sqm
Short Wall up to Plinth	2	x	66.43	x	0.30	=	39.86	
							Total	58.31
							Total Qty	= 58.31 Sqm

- 12 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	12	x	1130.00	=	13560.00	MT
Anchor Bolt & Template Plates	36		3.00		108.00	
					13668.00	
					Total Qty	= 13.67 MT

- 13 Providing, fabricating and erecting at site of work the tubular steel structure (shed) as per standard design and specifications having various spans in between trusses and in multiples of standard length of bays as specified as per standard specifications, inclusive of cost of steel tubular trusses, tubular columns purlins, tie runners, foundation bolts, base plates, nuts and bolts, welding wherever required etc. as per detailed drawing inclusive of one coat of anticorrosive paint and two coats of oil painting of approved quality and shade etc. complete. Spec. Number : As directed by Engineer-in-charge.

15 MT Onion Storage Boxes 50 Nos.	50	x	300.00	=	15000.00	MT
					15000.00	
					Total Qty	= 15.00 MT

- 14 Jali welded mesh 50*25 13 Guage MATERIAL RATES FOR SSR For Year 2021-22 Page No.374 Item No.24

Onion Storage Boxes Sides	2	x	11.60	x	1.50	=	34.80	
	2	x	1.20	x	1.50	=	3.60	
Onion Storage Boxes Bottom	1	x	11.60	x	1.20	=	13.92	
							52.32	
Total Onion Storage Box for 50no.	50	x	52.32	=	2616.00			
					Total Qty	= 2616.00	Sq.mt	

- 15 Bamboo 25mm dia. MATERIAL RATES FOR SSR For Year 2021-22 Page No.382 Item No.18

15MT Onion Storage Boxes 50 Nos.	50		50		2500.00	RMT
					Total Qty	= 2500.00 RMT



- 16 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), 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 inorganic 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 Unit No.1	2	x	16.00	x	67.77	=	2168.64	Sqm
						Total	2168.64	
						Total Qty	= 2168.64	Sqm

17 Royalty Charges

Material	Qty	Qty of Material	Cum
6 Providing and laying Cast in situ/ R	1 x 6.91 x 0.470	= 3.25	
7 Providing and laying in situ cement	1 x 22.03 x 0.425	= 9.36	
8 Providing and laying Cast in situ/Rc	1 x 5.18 x 0.425	= 2.20	
11 Providing sand faced plaster extern	1 x 58.31 x 0.033	= 1.92	
11 Providing sand faced plaster extern	1 x 58.31 x 0.033	= 1.92	
		Sand Total Qty = 18.65	Cum
3 Providing dry trap/ granite/ quartzite	1 x 15.90 x 1.00	= 15.90	
5 Filling in plinth and floors with con	1 x 596.70 x 1.00	= 596.70	
	Hm and Rubble Total Qty = 612.60	Cum	

Gaurav Bhaskar
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Zadhav
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**Name Of Work :- Proposed Construction of Strural Fabrication & Erection Of 750 MT Onion Storage Shed Unit In G.no.511/2/A Paiki, For Veetpadmini Farmer
Producer Co.ltd,At-Veet,Tal-Karmala,Dist: Solapur (MH)**

RATE ANALYSIS AS PER PWD SSR 2021-22 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				
									434.92			299.83
1	Excavation for foundation in earth, soil of all types, sand, g	21.02	193.00							0.00	193.00	
2	Excavation for foundation in Hard murum in cluding remov	21.08	265.00							0.00	265.00	
3	Providing dry trap/ granite/ quartzite/ gneiss rubble stone so	21.38	1294.00	1.00	434.92					434.92	1728.92	
4	Filling in plinth and floors with approved excavated materia	21.36	113.00							0.00	113.00	
5	Filling in plinth and floors with contractors material/ brough	21.37	550.00				1.00	287.34		287.34	837.34	
6	Providing and laying Cast in situ/ Ready Mix cement concre	24.01	5538.00		0.47	140.92	0.940	334.17		4.40	20.90	6033.99
7	Providing and laying in situ cement concrete of M-25 grade	25.13	6836.00		0.425	127.43	0.90	319.95		7.50	35.63	7319.01
8	Providing and laying Cast in situ/Ready Mix cement concre	25.33	13157.00		0.425	127.43	0.90	319.95		7.50	35.63	13640.01
9	Providing and laying Cast in situ/Ready Mix cement concre	25.52	11652.00		0.425	127.43	0.85	302.18		7.50	35.63	12117.24
10	Providing and fixing in position TMT - FE - 500 bar reinfor	26.33	71778.00							0.00		71778.00
11	Providing sand faced plaster externally in cement mortar us	32.11	599.00		0.033	9.89				0.25	1.19	610.08
12	Providing structural steel work in trusses, other similar truss	23.04	105909.00							0.00		105909.00
13	Providing, fabricating and erecting at site of work the tubula	23.07	100574.00							0.00		100574.00
14	Jali welded mesh 50*25 13 Gauge MATERIAL RATES FOR SSR For Year 2021-22 Page No.374	24.00	204.00							0.00		204.00
15	Bamboo 25mm dia. MATERIAL RATES FOR SSR For Year 2021-22 Page No.382 Item No.18	18.00	22.00							0.00		22.00
16	Providing and fixing colour coated Zincalume (R) / AZ 150 (38.34	1095.00							0.00		1095.00
17	Royalty Charges for Rubble and HM		216.18							0.00		216.18

Saaha
Consulting Engineer

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G. B. Shastri
Chartered Engineer

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Name Of Work :- Proposed Construction of Strural Fabrication & Erection Of 750 MT Onion Storage Shed Unit In G.no.511/2/A Palki, For Veetpadmlnl Farmer Producer Co.ltd,At-Veet,Tal-Karmala,Dist: Solapur (MH)

Appendix - 1

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	10.00	15.00	15.00	15.00	1.00	1.00	
2	Lead charges	434.92	287.34	355.50	340.69	299.83	95.07	95.07	
4	Extra lead charges	434.92	287.34	355.50	340.69	299.83	95.07	95.07	
5	Extra lead charges per bag of cement						4.75		

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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	6.91	1.52	3.25		6.50	Comp. Strength- Cube		6	4	2	690.00	1380.00
M 25	48.13	18.05	2.05		43.32							
Total	55.04	19.57	5.29		49.81	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	12900.00

G. Bhaskar
Chartered Engineer

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

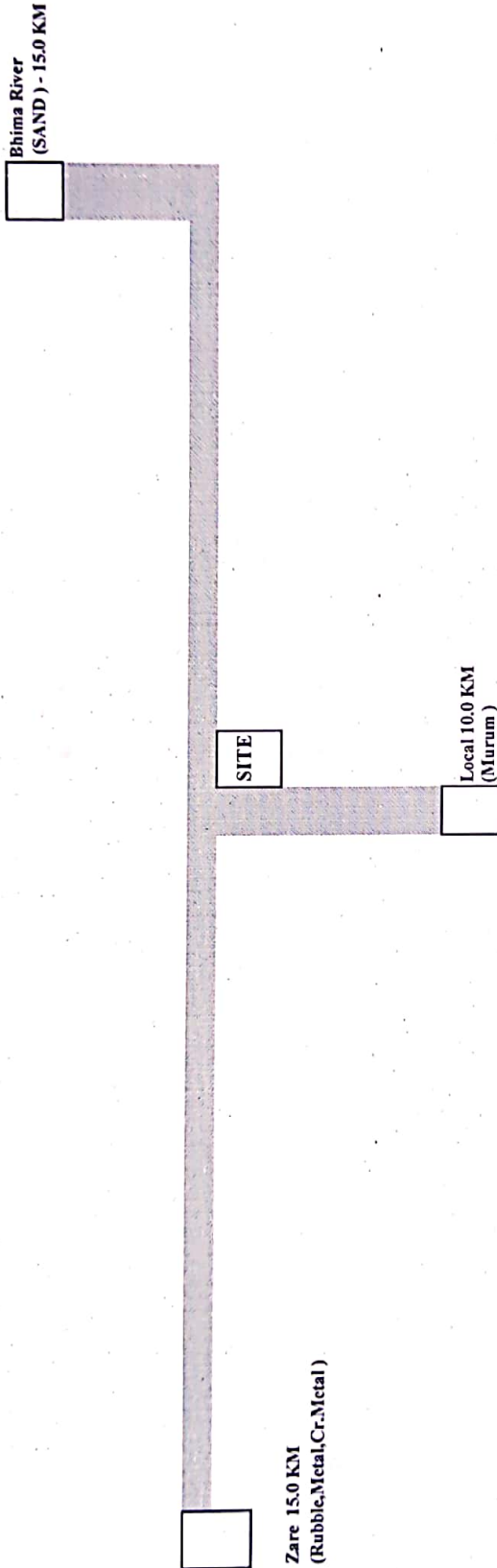
Rahuri
Consulting Engineer

SAI CONSULTANT
Consulting Civil Engineer
Rahuri, Dist. Ahmednagar



Name Of Work :- Proposed Construction of Strural Fabrication & Erection Of 750 MT Onion Storage Shed Unit In G.no.511/2/A Paiki, For Yeetpadmini Farmer Producer Co.ltd.,At-Veet,Tal-Karmala,Dist: Solapur (MH)

Quarry Chart



LEAD STATEMENT

Material	Quarry	Lead in Km.
Rubble	Zare	15.00
Metal	Zare	15.00
Crushed Metal	Zare	15.00
Murum	Local	10.00
Sand	Bhima	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.



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

Gaurav
 Chartered Engineer
Gaurav Rajendra Bhaskar
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