

२२. बांधकामाचे दरपत्रक व ब्लुप्रिंट


# Estimate

## PLANS AND DETAILED ESTIMATE

### NAME OF WORK:

Construction of Processing Unit Gat No. 331 Padhaved Tal:-  
Shindkheda Dist :- Dhule Jivendhara Farmers Producer Company  
Limited

Estimated Cost : 9699539.00

  
**Ajay B. Patil**  
Consulting Civil Engineer  
Reg.No.-NSW/JD/57/PAB

Name Of Work :- Construction of Processing Unit Gat No. 331 Padhaved Tal:-  
Shindkheda Dist :- Dhule Jivendhara Farmers Producer Company Limited

## RECAPITULATION SHEET

Cost of Work Portion = 8594166.62

( A ) Work Portion Rs. 8594166.62

Add 12% GST fo Work Portion Rs. 1031299.99

Add 0.50 % Insurance Charge for Work Portion Rs. 42970.83

( B ) Royalty Charges & Testing Charges

Add Royalty Charges Rs. 21126.70

Add Testing Charges Rs. 9975.00

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Total Rs. 9699539.15

Say Rs. 9699539.00

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ABSTRACT

Quantity	Item Of Work	Rate	Unit	Amount
41.58 Cubic Metre	<p><b>Item No. 1 :-</b>                      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 &amp; 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                      DSR Page No./ Item No.21.02                      Spec. No. : Bd.A.1 Page No. 259 Page No. BDA 1</p>	193.00	One Cubic Metre	8024.94
25.31 Cubic Metre	<p><b>Item No. 2 :-</b>                      Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means                      DSR Page No./ Item No.21.06                      Spec. No. : Bd.A.2 Page No. 259 Page No. BDA 2</p>	212.00	One Cubic Metre	5365.72
518.99 Cubic Metre	<p><b>Item No. 3 :-</b>                      Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.                      DSR Page No./ Item No.21.38                      Spec. No. : Bd.A.12 Page No. 264 Page No. BDA 12</p>	1294.00	One Cubic Metre	671573.06
104.03 Cumt	<p><b>Item No. 4 :-</b>                      Providing and laying in situ cement concrete of 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum rtype mixer with SCADA with natural sand)                      DSR Page No./ Item No.11.04                      Spec. No. : CD.3 Page.No. 160 Page No. CD 3B</p>	6156.62	One Cumt	640473.17
15.19 Cubic Metre	<p><b>Item No. 5 :-</b>                      Providing and laying in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, cover blocks compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. etc. complete, with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant With Natural Sand                      DSR Page No./ Item No.25.11                      Spec. No. : Bd.F.3 Page No. 298 and B.7, Page No.38 Page No. BDF 3</p>	7029.12	One Cubic Metre	106772.33
11.75 Cubic Metre	<p><b>Item No. 6 :-</b>                      Providing and casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks 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 concrete batch mix plant (pan mixer).... With natural sand.                      DSR Page No./ Item No.25.31                      Spec. No. : Bd.F.5 Page No. 300 and B.7, Page.No. 38 Page No. BDF 5</p>	13350.12	One Cubic Metre	156863.91

Quantity	Item Of Work	Rate	Unit	Amount
11.25 Cubic Metre	<p><b>Item No. 7 :-</b> Providing &amp; casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs &amp; drawings or as directed including centering, formwork, cover blocks compaction &amp; roughening the surface if special finish is to be provided &amp; curing etc. complete. (Excluding reinforcement</p> <p>DSR Page No./ Item No.25.5 Spec. No. : Bd.F.6 Page No. 300 and B.7, Page.No. 38 Page No. BDF 6</p>	11846.12	One Cubic Metre	133268.85
13.24 Cubic Metre	<p><b>Item No. 8 :-</b> Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete</p> <p>DSR Page No./ Item No.27.01 Spec. No. : Bd.G. 1 Page No. 313 Page No. BDG 1</p>	7839.04	One Cubic Metre	103788.88
897.73 Cubic Metre	<p><b>Item No. 9 :-</b> Filling in plinth and floors with contractors aterial/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete. Spec. No. : Bd.A. 11/Page No. 263</p> <p>DSR Page No./ Item No.21.37 Spec. No. : Bd.A.11 Page No. 263 Page No. BDA 11</p>	550.00	One Cubic Metre	493751.50
20.20 Metric Tonne	<p><b>Item No. 10 :-</b> Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc.</p> <p>DSR Page No./ Item No.23.04 Spec. No. : Bd.C.8 Page No. 278 Page No. BDC 8</p>	105909.00	One Metric Tonne	2139163.22
2417.92 Square Metre	<p><b>Item No. 11 :-</b> Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws &amp; bolts, lead &amp; bitumen washers as per drawing</p> <p>DSR Page No./ Item No.38.04 Spec. No. : Bd.R.5, Page No. 453 Page No. BDR 5</p>	816.00	One Square Metre	1973022.72
997.48 Square Metre	<p><b>Item No. 12 :-</b> Providing and fixing colour coated Zinacume ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) (0.5 mm TCT ), Histrength steel with min.550 MPa yield strength, metallic hot dip coated with AluminiumZinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyester paint coat ( with inorganic pigment). The paint shall have a total coating thickness of</p> <p>SSR Item No. 38.34 Spec. No. : As directed by Engineer in charge Page No. BDR</p>	1095.00	One Square Metre	1092240.60
2.45 Metric Tonne	<p><b>Item No. 13 :-</b> 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. a) For TMT Fe 415 steel bars ( If Mild Steel/HYSD steel is to be used prior permission from S.E. should be taken )</p> <p>DSR Page No./ Item No.26.33 Spec. No. : Bd.F.17, Page No. 306 Page No. BDF 17</p>	71989.04	One Metric Tonne	176250.76

Quantity	Item Of Work	Rate	Unit	Amount
25.92 Square Metre	<p><b>Item No. 14 :-</b> Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain / obscured glass pans and approved type quality and iron oxidized fixtures and fastening with guard square bars 12 mm 10 cm c/c and oil painting 2 coats etc. complete.</p> <p>DSR Page No./ Item No.39.3 Spec. No. : Bd. T. 53, Page No. 509 &amp; As directed by Engineer in</p>	4449.00	One Square Metre	115318.08
76.00 Square Metre	<p><b>Item No. 15 :-</b> Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 200 x 200 x 3.15 mm minimum also used above with cover bar</p> <p>DSR Page No./ Item No.39.24 Spec. No. : Bd.T.55, Page No. 510 Page No. BDT 55</p>	4310.00	One Square Metre	327560.00
595.20 Square Metre	<p><b>Item No. 16 :-</b> 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</p> <p>DSR Page No./ Item No.32.11 Spec. No. : Bd.L.7 Page No. 369 Page No. BDL 7</p>	661.65	One Square Metre	393814.08
595.20 Square Metre	<p><b>Item No. 17 :-</b> Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for</p> <p>DSR Page No./ Item No.35.13 Spec. No. : Bd.0.8 Page No. 406 Page No. BDO 8</p>	74.00	One Square Metre	44044.80
25.00 Running Metre	<p><b>Item No. 18 :-</b> Providing and Fixing 110 mm diameter PVC Rain Water pipe with necessary fittings such as bends, tees, single junctions, slotted vent, clamps etc complete.</p> <p>DSR Page No./ Item No.42.87 Spec. No. : As directed by Engineer in</p>	502.00	One Running Metre	12550.00
5.00	<p><b>Item No. 19 :-</b> Shooting of still photographs outdoor and indoor of construction and other works of building , bridges, roads etc. in District and outside dist. At any</p> <p>DSR 2016-17 Item No 1949</p>	64.00	set	320.00
<b>A) Work Portion Total with all Charges</b>			<b>Rs</b>	<b>8594166.62</b>
89.00 Cum	<p><b>Item No. 20 :-</b> Add Royalty as per Government of Maharashtra Revenue and Forest Departments Order For Sand</p>	237.37	One Cum	21126.70
5.00	<p><b>Item No. 21 :-</b> Testing Charges for quality control tests on various materials like metal crushed metal bitumen Hard murum Soft Murum , Sand, Cement , Steel etc as per frequency norms and rates for every material in Vigilance and</p>	690.00	No	3450.00
3.00	<p>Compressive Strength of M-20 grade C.C. Cube Carrying out water absorption , compressive strength &amp; Efflorescence Test of Bricks</p>	2175.00	No	6525.00
			<b>Total Cost-</b>	<b>31101.70</b>

Name Of Work :- Construction of Processing Unit Gat No. 331 Padhaved Tal:- Shindkheda Dist :- Dhule  
 Jivendhara Farmers Producer Company Limited

MEASUREMENT.

Item No. 1 :-

Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the

15	x	1.50	x	1.50	x	1.20	=	40.50	Cubic Metr	
1	x	1.20	x	1.50	x	0.60	=	1.08	Cubic Metr	
								Total Qty. =	41.58	Cubic Metr

Item No. 2 :-

Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc.

15	x	1.50	x	1.50	x	0.75	=	25.31	Cubic Metr	
								Total Qty. =	25.31	Cubic Metr

Item No. 3 :-

Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.

Column Footing	15	x	1.50	x	1.50	x	0.60	=	20.25	Cubic Metre
Bed	1	x	45.84	x	21.76	x	0.50	=	498.74	Cubic Metre
								Total Qty. =	518.99	Cubic Metre

Item No. 4 :-

Providing and laying in situ cement concrete of 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in

	15	x	1.65	x	1.65	x	0.10	=	4.08	Cumt
Step	1	x	1.20	x	1.65	x	0.10	=	0.20	Cumt
Bed	1	x	45.84	x	21.76	x	0.10	=	99.75	Cumt
								Total Qty. =	104.03	Cumt

Item No. 5 :-

Providing and laying in situ cement concrete M20

of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel

	15	x	1.50	x	1.50	x	0.25	=	8.44	Cubic Metre
	15	x	1.50	x	1.50	x	0.20	=	6.75	Cubic Metre
								Total Qty. =	15.19	Cubic Metre

Item No. 6 :-

Providing and casting in situ cement concrete M20

of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks

	15	x	0.23	x	0.45	x	7.57	=	11.75	Cubic Metre
								Total Qty. =	11.75	Cubic Metre

Item No. 7 :-

Providing & casting in situ cement concrete M20

of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs & drawings or as directed including centering, formwork,

GB1	2	x	1	x	5.33	x	0.23	x	0.30	=	0.74	Cubic Metre
GB1	4	x	1	x	5.33	x	0.23	x	0.30	=	1.47	Cubic Metre
GB2	8	x	1	x	5.33	x	0.23	x	0.30	=	2.94	Cubic Metre
LB1	2	x	1	x	3.30	x	0.23	x	0.30	=	0.46	Cubic Metre
LB1	2	x	1	x	3.30	x	0.23	x	0.23	=	0.35	Cubic Metre
LB2	5	x	1	x	3.30	x	0.23	x	0.23	=	0.87	Cubic Metre
TB1	2	x	1	x	5.33	x	0.23	x	0.30	=	0.74	Cubic Metre
TB1	2	x	1	x	5.33	x	0.23	x	0.30	=	0.74	Cubic Metre
TB2	8	x	1	x	5.33	x	0.23	x	0.30	=	2.94	Cubic Metre
								Total Qty. =	11.25	Cubic Metre		

Item No. 8 :-

Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually, striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete

For Plinth	1	x	16	x	3.00	x	0.23	x	0.60	=	6.62	Cubic Metr
	1	x	16	x	3.00	x	0.23	x	0.60	=	6.62	Cubic Metr
								Total Qty. =	13.24	Cubic Metr		

Item No. 9 :-

Filling in plinth and floors with contractors aterial/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete. Soec. No. : Bd.A. 11/Paoe No. 263

	1	x	45.84	x	21.76	x	0.90	=	897.73	Cubic Metre
								Total Qty. =	897.73	Cubic Metre

Item No. 10 :-

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

Truss Member (100x100 x6mm)			20.00	x	12.00	x	5.53	=	1327.20		
Purlin			20.00	x	9.00	x	5.53	=	995.40		
Cleat angle			8.00	x	0.10	x	3.40	=	2.72		
BASE PLATE (12mm tk-62.80/sqm)											
Nut Bolts (16 mm tk2.46Kg/m)	10	x	0.15	x	0.15	=	0.23	x	62.80	=	14.13
	11	x	14.00	x	0.45	=	69.30	x	2.46	=	170.48
								Total	=	2509.93	Kg
								10% Curtailment Wt	=	250.9928	



Item No. 20 :-

Add Royalty as per Government of Maharashtra Revenue and Forest Departments Order For Sand

1:4:8	104.03	x	0.47	=	48.89	Cum
Footing	15.19	x	0.425	=	6.46	
Columns	11.75	x	0.425	=	4.99	
Beam	11.25	x	0.425	=	4.78	
BB Masonary	13.24	x	0.32	=	4.24	
Sand Face Plaster	595.20	x	0.033	=	19.64	
			Total Qty.	=	89.00	Cum

Item No. 21 :-

Testing Charges for quality control tests on various materials like metal crushed metal bitumen Hard murum Soft Murum , Sand, Cement , Steel etc as per frequency norms and rates for every material in Vigilece and Quality Control Laboratory as directed by Engineer in Charge

Compressive Strength of M-20 grade C.C. Cube	=	5.00	No
Carrying out water absorption , compressive strength & Efflorescence Test of Bricks	=	3.00	No

Name Of Work :- Construction of Processing Unit Gat No. 331 Padhaved Tal:- Shindkheda Dist :- Dhule Jivendhara Farmers Producer Company Limited  
RATE ANALYSIS

Sr. No	Description	D.S.R/l/p	Rate as per DSR	Additional Lead Charges for										Total Rate	Deduct SCADA 120/Cum	Total Rate of Item				
				Cement		Steel		Bricks		Sand		Cr. Metal					Rubble		Murum	
				Fact or Amount	Factor	Fact or Amount	Factor	Fact or Amount	Factor	Fact or Amount	Factor	Fact or Amount	Factor				Fact or Amount	Factor	Fact or Amount	Factor
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft	3	193.00	211.04	211.04	679.67	299.83	299.83	299.83	299.83	299.83	366.82	287.34	10	12		193.00			
2	Excavation for foundation in hard murum including removing the excavated	DSR Page No.21.02	212.00												0.00		212.00			
3	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm	DSR Page No.21.38	1294.00												0.00		1294.00			
4	Providing and laying in situ cement concrete of 1:4:8 proportion with trap/	DSR Page No.11.04	5780.00	73.86	0.35		0.47	140.92	0.94	281.84					496.62	120.00	6156.62			
5	Providing and laying in situ cement concrete M20 of trap / granite /quartzite/	DSR Page No.25.11	6666.00	73.86	0.35		0.425	127.42	0.94	281.84					483.12	120.00	7029.12			
6	Providing and casting in situ cement concrete M20 of trap / granite /quartzite/	DSR Page No.25.31	12987.00	73.86	0.35		0.425	127.42	0.94	281.84					483.12	120.00	13350.12			
7	Providing & casting in situ cement concrete M20 of trap / granite /quartzite/	DSR Page No.25.5	11483.00	73.86	0.35		0.425	127.42	0.94	281.84					483.12	120.00	11846.12			
8	Providing second class Burnt Brick masonry with conventional/ I.S. type	DSR Page No.27.01	7343.00	73.86	0.35		0.48	326.24	0.32	95.94					496.04		7839.04			
9	Filling in plinth and floors with contractors material/brought from	DSR Page No.21.37	550.00												0.00		550.00			
10	Providing structural steel work in trusses, other similar trussed purtins and	DSR Page No.23.04	105909.00												0.00		105909.00			
11	Providing and fixing corrugated galvanised iron sheets of 0.63mm thick	DSR Page No.38.04	816.00												0.00		816.00			
12	Providing and fixing colour coated Zincalume ( R ) AZ150 ( min 150	SSR Item No. 38.34	1095.00												0.00		1095.00			
13	Providing and fixing in position TMT FE 500 bar reinforcement of	DSR Page No.26.33	71778.00											1.00	211.04		71989.04			



Name Of Work :- Construction of Processing Unit Gat No. 331 Padhaved Tal:- Shindkheda Dist :-  
Dhule Jivendhara Farmers Producer Company Limited

## LEAD STATEMENT

Sr No.	Material	Source of Material	Total lead in Km	Total Lead charges	Net Additional Lead Charges	Unit
1	2	3	4	5	7	8
1	Cement		10.00	211.04	211.04	MT
2	Steel		10.00	211.04	211.04	Cum
3	Sand		10.00	299.83	299.83	Cum
4	Bricks		10.00	679.67	679.67	Cum
5	Crushed metal		10.00	299.83	299.83	Cum
6	Rubble		10.00	366.82	366.82	Cum
7	HM/SM		10.00	287.34	287.34	Cum

  
**Ajay B. Patil**  
Consulting Civil Engineer  
Reg.No.-NSK/JD/57/PAB

# Estimate

## PLANS AND DETAILED ESTIMATE

### NAME OF WORK:

Construction of Agri Equipment storage and parking shed for Custom Hiring Center Gat No. 331 Padhaved Tal:- Shindkheda Dist :- Dhule Jivendhara Farmers Producer Company Limited

Estimated Cost : 999863.00

  
**Ajay B. Patil**  
Consulting Civil Engineer  
Reg.No.-NSK/JD/57/PAB

Name Of Work :- Construction of Agri Equipment storage and parking shed for Custom Hiring Center Gat No. 331 Padhaved Tal:- Shindkheda Dist :- Dhule Jivendhara

## RECAPITULATION SHEET

Cost of Work Portion = 882638.11

( A ) Work Portion Rs. 882638.11

Add 12% GST fo Work Portion Rs. 105916.57

Add 0.50 % Insurance Charge for Work Portion Rs. 4413.19

( B ) Royalty Charges & Testing Charges

Add Royalty Charges Rs. 3340.12

Add Testing Charges Rs. 3555.00

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Total Rs. 999862.99

Say Rs. 999863.00

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ABSTRACT

Quantity	Item Of Work	Rate	Unit	Amount
27.81 Cubic Metr	<p><b>Item No. 1 :-</b> 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 &amp; 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 DSR Page No./ Item No.21.02 Spec. No. : Bd.A.1 Page No. 259 Page No. BDA 1</p>	193.00	One Cubic Metr	5367.33
10.13 Cubic Metr	<p><b>Item No. 2 :-</b> Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means DSR Page No./ Item No.21.06 Spec. No. : Bd.A.2 Page No. 259 Page No. BDA 2</p>	212.00	One Cubic Metr	2147.56
13.96 Cubic Metre	<p><b>Item No. 3 :-</b> Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete. DSR Page No./ Item No.21.38 Spec. No. : Bd.A.12 Page No. 264 Page No. BDA 12</p>	1294.00	One Cubic Metre	18064.24
7.12 Cumt	<p><b>Item No. 4 :-</b> Providing and laying in situ cement concrete of 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum rtype mixer with SCADA with natural sand) DSR Page No./ Item No.11.04 Spec. No. : CD.3 Page.No. 160 Page No. CD 3B</p>	6035.85	One Cumt	42975.25
10.36 Cubic Metre	<p><b>Item No. 5 :-</b> Providing and laying in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, cover blocks compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. etc. complete, with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant With Natural Sand DSR Page No./ Item No.25.11 Spec. No. : Bd.F.3 Page No. 298 and B.7, Page No.38 Page No. BDF 3</p>	6911.52	One Cubic Metre	71603.34
4.14 Cubic Metre	<p><b>Item No. 6 :-</b> Providing and casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks 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 concrete batch mix plant (pan mixer).... With natural sand. DSR Page No./ Item No.25.31 Spec. No. : Bd.F.5 Page No. 300 and B.7, Page.No. 38 Page No. BDF 5</p>	13232.52	One Cubic Metre	54782.63

Quantity	Item Of Work	Rate	Unit	Amount
1.90 Cubic Metre	<p><b>Item No. 7 :-</b> Providing &amp; casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs &amp; drawings or as directed including centering, formwork, cover blocks compaction &amp; roughening the surface if special finish is to be provided &amp; curing etc. complete. (Excluding reinforcement)</p> <p>DSR Page No./ Item No.25.5 Spec. No. : Bd.F.6 Page No. 300 and B.7, Page.No. 38 Page No. BDF 6</p>	11728.52	One Cubic Metre	22284.18
3.67 Cubic Metre	<p><b>Item No. 8 :-</b> Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete</p> <p>DSR Page No./ Item No.27.01 Spec. No. : Bd.G. 1 Page No. 313 Page No. BDG 1</p>	7698.60	One Cubic Metre	28253.86
31.75 Cubic Metre	<p><b>Item No. 9 :-</b> Filling in plinth and floors with contractors aterial/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete. Spec. No. : Bd.A. 11/Page No. 263</p> <p>DSR Page No./ Item No.21.37 Spec. No. : Bd.A.11 Page No. 263 Page No. BDA 11</p>	550.00	One Cubic Metre	17462.50
2.01 Metric Tonne	<p><b>Item No. 10 :-</b> Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc.</p> <p>DSR Page No./ Item No.23.04 Spec. No. : Bd.C.8 Page No. 278 Page No. BDC 8</p>	105909.00	One Metric Tonne	212512.02
44.73 Square Metre	<p><b>Item No. 11 :-</b> Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws &amp; bolts, lead &amp; bitumen washers as per drawing</p> <p>DSR Page No./ Item No.38.04 Spec. No. : Bd.R.5, Page No. 453 Page No. BDR 5</p>	816.00	One Square Metre	36495.60
87.33 Square Metre	<p><b>Item No. 12 :-</b> Providing and fixing colour coated Zinalume ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) (0.5 mm TCT), Histrength steel with min.550 MPa yield strength, metallic hot dip coated with AluminiumZinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyester paint coat ( with inorganic pigment). The paint shall have a total coating thickness of</p> <p>SSR Item No. 38.34 Spec. No. : As directed by Engineer in charge Page No. BDR</p>	1095.00	One Square Metre	95626.35
1.17 Metric Tonne	<p><b>Item No. 13 :-</b> 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. a) For TMT Fe 415 steel bars ( If Mild Steel/HYSD steel is to be used prior permission from S.E. should be taken )</p> <p>DSR Page No./ Item No.26.33 Spec. No. : Bd.F.17, Page No. 306 Page No. BDF 17</p>	71926.81	One Metric Tonne	84433.44



Name Of Work :- Construction of Agri Equipment storage and parking shed for Custom Hiring Center Gat No. 331 Padhaved Tal:- Shindkheda Dist :- Dhule Jivendhara Farmers Producer Company Limited

**MEASUREMENT.**

Item No. 1 :-

Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the

10	x	1.50	x	1.50	x	1.20	=	27.00	Cubic Metr	
1	x	1.20	x	1.50	x	0.45	=	0.81	Cubic Metr	
								Total Qty. =	27.81	Cubic Metr

Item No. 2 :-

Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc.

10	x	1.50	x	1.50	x	0.45	=	10.13	Cubic Metr	
								Total Qty. =	10.13	Cubic Metr

Item No. 3 :-

Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.

Column Footing	10	x	1.50	x	1.50	x	0.15	=	3.38	Cubic Metre
Bed	1	x	11.74	x	6.01	x	0.15	=	10.58	Cubic Metre
								Total Qty. =	13.96	Cubic Metre

Item No. 4 :-

Providing and laying in situ cement concrete of 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in

Step	10	x	1.50	x	1.50	x	0.075	=	1.69	Cumt
Bed	1	x	1.20	x	1.50	x	0.075	=	0.14	Cumt
Bed	1	x	11.74	x	6.01	x	0.075	=	5.29	Cumt
								Total Qty. =	7.12	Cumt

Item No. 5 :-

Providing and laying in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel

10	x	1.50	x	1.50	x	0.23	=	5.18	Cubic Metre	
10	x	1.50	x	1.50	x	0.23	=	5.18	Cubic Metre	
								Total Qty. =	10.36	Cubic Metre

Item No. 6 :-

Providing and casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks

10	x	0.23	x	0.45	x	4.00	=	4.14	Cubic Metre	
								Total Qty. =	4.14	Cubic Metre

Item No. 7 :-

Providing & casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs & drawings or as directed including centering, formwork,

GB1	2	x	1	x	3.91	x	0.23	x	0.30	=	0.54	Cubic Metre
GB1	4	x	1	x	3.91	x	0.23	x	0.30	=	1.08	Cubic Metre
LB1	2	x	1	x	2.00	x	0.23	x	0.30	=	0.28	Cubic Metre
								Total Qty. =	1.90	Cubic Metre		

Item No. 8 :-

Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete

For Plinth	1	x	3	x	3.91	x	0.23	x	0.90	=	2.43	Cubic Metr
	1	x	3	x	2.00	x	0.23	x	0.90	=	1.24	Cubic Metr
								Total Qty. =	3.67	Cubic Metr		

Item No. 9 :-

Filling in plinth and floors with contractors aterial/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and comaction etc. complete. Soec. No. : Bd.A. 11/Pace No. 263

1	x	11.74	x	6.01	x	0.45	=	31.75	Cubic Metre	
								Total Qty. =	31.75	Cubic Metre

Item No. 10 :-

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

Truss Member (100x100 x6mm)	3.00	x	2.00	x	5.53	=	33.18					
Purlin	2.00	x	1.00	x	5.53	=	11.06					
Cleat angle	2.00	x	0.15	x	3.61	=	1.08					
BASE PLATE (12mm tk-62.80/sqm)												
Nut Bolts (16 mm tk2.46Kg/m)	10	x	0.15	x	0.15	=	0.23	x	62.80	=	14.13	
	6	x	3.00	x	0.45	=	8.10	x	2.46	=	19.93	
								Total	=	79.38	Kg	
								10% Curtailment Wt	=	7.9376		
								Net	=	87.31	Metric Ton	

Weight of Truses	5.00	x	4.00	x	87.31	=	1746.27			
Waiting & Hall	2.90	x	6.01	x	5.10	=	88.89			
								10% Curtailment Wt	=	8.89
								Net	=	1844.05



Testing Charges for quality control tests on various materials like metal crushed metal bitumen Hard murum Soft Murum , Sand, Cement , Steel etc as per frequency norms and rates for every material in Viglence and Quality Control Laboratory as directed by Engineer in Charge

Compressive Strength of M-20 grade C.C. Cube

= 2.00 No

Carrying out water absorption , compressive strength & Efflorescence Test of Bricks

= 1.00 No

Name Of Work :- Construction of Agri Equipment storage and parking shed for Custom Hiring Center Gat No. 331 Padhaved Tal:- Shinkheda Dist :- Dhule Jiv  
 RATE ANALYSIS

Sr. No	Description	D.S.R l/p	Rate as per DSR	Additional Lead Charges for										Total Rate	Deduct SCADA 120/Cum	Total Rate of Item								
				Cement		Steel		Bricks		Sand		Cr. Metal					Rubble		Murum					
				Factor	Amount	Factor	Amount	Fact or	Amount	Factor	Amount	Fact or	Amount				Fact or	Amount	Fact or	Amount				
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft	3	193.00	5	148.81	6	148.81	479.26	479.26	229.63	229.63	229.63	229.63	280.93	280.93	220.06	220.06	12	0.00	193.00				
2	Excavation for foundation in hard murum including removing the excavated	3	212.00	5	52.08	6	52.08											0.00	0.00	212.00				
3	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm	3	1294.00	5	52.08	6	52.08											0.00	0.00	1294.00				
4	Providing and laying in situ cement concrete of 1:4:8 proportion with trap/	3	5780.00	5	52.08	6	52.08											0.47	107.92	0.94	215.85	375.85	120.00	6035.85
5	Providing and laying in situ cement concrete M20 of trap / granite /quartzite/	3	6666.00	5	52.08	6	52.08											0.425	97.59	0.94	215.85	365.52	120.00	6911.52
6	Providing and casting in situ cement concrete M20 of trap / granite /quartzite/	3	12987.00	5	52.08	6	52.08											0.425	97.59	0.94	215.85	365.52	120.00	13232.52
7	Providing & casting in situ cement concrete M20 of trap / granite /quartzite/	3	11483.00	5	52.08	6	52.08											0.425	97.59	0.94	215.85	365.52	120.00	11728.52
8	Providing second class Burnt Brick masonry with conventional/ I.S. type with contractors from	3	7343.00	5	52.08	6	52.08	0.48	230.04	0.32	73.48											355.60		7698.60
9	Filling in plinth and floors with material/brought from	3	550.00	5	52.08	6	52.08															0.00		550.00
10	Providing structural steel work in trusses, other similar trussed purlins and	3	105909.00	5	52.08	6	52.08															0.00		105909.00
11	Providing and fixing corrugated galvanised iron sheets of 0.63mm thick	3	816.00	5	52.08	6	52.08															0.00		816.00
12	Providing and fixing colour coated Zincalume ( R ) AZ150 ( min 150	3	1095.00	5	52.08	6	52.08															0.00		1095.00
13	Providing and fixing in position TMT FE 500 bar reinforcement of	3	71778.00	5	52.08	6	52.08	1.00	148.81													148.81		71926.81



Name Of Work :- Construction of Agri Equipment storage and parking shed for Custom Hiring Center  
 Gat No. 331 Padhaved Tal:- Shindkheda Dist :- Dhule Jivendhara Farmers Producer Company  
 Limited

### LEAD STATEMENT

Sr No.	Material	Source of Material	Total lead in Km	Total Lead charges	Net Additional Lead Charges	Unit
1	2	3	4	5	7	8
1	Cement		5.00	148.81	148.81	MT
2	Steel		5.00	148.81	148.81	Cum
3	Sand		5.00	229.63	229.63	Cum
4	Bricks		5.00	479.26	479.26	Cum
5	Crushed metal		5.00	229.63	229.63	Cum
6	Rubble		5.00	280.93	280.93	Cum
7	HM/SM		5.00	220.06	220.06	Cum

*MM*  
**Ajay B. Patil**  
 Consulting Civil Engineer  
 Reg.No.-NSK/0157/PAR

# Estimate

## PLANS AND DETAILED ESTIMATE

### NAME OF WORK:

Construction of Agri Service Center Gat No. 331 Padhaved Tal:-  
Shindkheda Dist :- Dhule Jivendhara Farmers Producer Company  
Limited

Estimated Cost : 999654.00

  
**Ajay B. Patil**  
Consulting Civil Engineer  
Reg.No.-NSK/JDI/57/PAP

Name Of Work :- Construction of Agri Service Center Gat No. 331 Padhaved Tal:-  
Shindkheda Dist :- Dhule Jivendhara Farmers Producer Company Limited

## RECAPITULATION SHEET

Cost of Work Portion	=	882452.54
( A ) Work Portion		<hr/>
	Rs.	882452.54
Add 12% GST fo Work Portion	Rs.	105894.30
Add 0.50 % Insurance Charge for Work Portion	Rs.	4412.26
( B ) Royalty Charges & Testing Charges		
Add Royalty Charges	Rs.	3340.12
Add Testing Charges	Rs.	3555.00
		<hr/>
	Total	Rs. 999654.23
	Say	Rs. 999654.00
		<hr/>

ABSTRACT

Quantity	Item Of Work	Rate	Unit	Amount
27.81 Cubic Metre	<p><b>Item No. 1 :-</b>                      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 &amp; 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                      DSR Page No./ Item No.21.02                      Spec. No. : Bd.A.1 Page No. 259 Page No. BDA 1</p>	193.00	One Cubic Metre	5367.33
10.13 Cubic Metre	<p><b>Item No. 2 :-</b>                      Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means                      DSR Page No./ Item No.21.06                      Spec. No. : Bd.A.2 Page No. 259 Page No. BDA 2</p>	212.00	One Cubic Metre	2147.56
13.96 Cubic Metre	<p><b>Item No. 3 :-</b>                      Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.                      DSR Page No./ Item No.21.38                      Spec. No. : Bd.A.12 Page No. 264 Page No. BDA 12</p>	1294.00	One Cubic Metre	18064.24
7.12 Cumt	<p><b>Item No. 4 :-</b>                      Providing and laying in situ cement concrete of 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum rtype mixer with SCADA with natural sand)                      DSR Page No./ Item No.11.04                      Spec. No. : CD.3 Page.No. 160 Page No. CD 3B</p>	6035.85	One Cumt	42975.25
10.36 Cubic Metre	<p><b>Item No. 5 :-</b>                      Providing and laying in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, cover blocks compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. etc. complete, with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant With Natural Sand                      DSR Page No./ Item No.25.11                      Spec. No. : Bd.F.3 Page No. 298 and B.7, Page No.38 Page No. BDF 3</p>	6911.52	One Cubic Metre	71603.34
4.14 Cubic Metre	<p><b>Item No. 6 :-</b>                      Providing and casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks 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 concrete batch mix plant (pan mixer).... With natural sand.                      DSR Page No./ Item No.25.31                      Spec. No. : Bd.F.5 Page No. 300 and B.7, Page.No. 38 Page No. BDF 5</p>	13232.52	One Cubic Metre	54782.63

Quantity	Item Of Work	Rate	Unit	Amount
1.90 Cubic Metre	<p><b>Item No. 7 :-</b> Providing &amp; casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs &amp; drawings or as directed including centering, formwork, cover blocks compaction &amp; roughening the surface if special finish is to be provided &amp; curing etc. complete. (Excluding reinforcement)</p> <p>DSR Page No./ Item No.25.5 Spec. No. : Bd.F.6 Page No. 300 and B.7, Page.No. 38 Page No. BDF 6</p>	11728.52	One Cubic Metre	22284.18
3.67 Cubic Metre	<p><b>Item No. 8 :-</b> Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete</p> <p>DSR Page No./ Item No.27.01 Spec. No. : Bd.G. 1 Page No. 313 Page No. BDG 1</p>	7698.60	One Cubic Metre	28253.86
31.75 Cubic Metre	<p><b>Item No. 9 :-</b> Filling in plinth and floors with contractors aterial/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete. Spec. No. : Bd.A. 11/Page No. 263</p> <p>DSR Page No./ Item No.21.37 Spec. No. : Bd.A.11 Page No. 263 Page No. BDA 11</p>	550.00	One Cubic Metre	17462.50
2.01 Metric Tonne	<p><b>Item No. 10 :-</b> Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc.</p> <p>DSR Page No./ Item No.23.04 Spec. No. : Bd.C.8 Page No. 278 Page No. BDC 8</p>	105909.00	One Metric Tonne	212512.02
44.73 Square Metre	<p><b>Item No. 11 :-</b> Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws &amp; bolts, lead &amp; bitumen washers as per drawing</p> <p>DSR Page No./ Item No.38.04 Spec. No. : Bd.R.5, Page No. 453 Page No. BDR 5</p>	816.00	One Square Metre	36495.60
87.33 Square Metre	<p><b>Item No. 12 :-</b> Providing and fixing colour coated Zinalume ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) (0.5 mm TCT ), Histrength steel with min.550 MPa yield strength, metallic hot dip coated with AluminiumZinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyester paint coat ( with inorganic pigment). The paint shall have a total coating thickness of</p> <p>SSR Item No. 38.34 Spec. No. : As directed by Engineer in charge Page No. BDR</p>	1095.00	One Square Metre	95626.35
1.17 Metric Tonne	<p><b>Item No. 13 :-</b> 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. a) For TMT Fe 415 steel bars ( If Mild Steel/HYSD steel is to be used prior permission from S.E. should be taken )</p> <p>DSR Page No./ Item No.26.33 Spec. No. : Bd.F.17, Page No. 306 Page No. BDF 17</p>	71926.81	One Metric Tonne	84247.87

Quantity	Item Of Work	Rate	Unit	Amount
13.80 Square Metre	<p><b>Item No. 14 :-</b> Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain / obscured glass pans and approved type quality and iron oxidized fixtures and fastening with guard square bars 12 mm 10 cm c/c and oil painting 2 coats etc. complete.</p> <p>DSR Page No./ Item No.39.3 Spec. No. : Bd. T. 53, Page No. 509 &amp; As directed by Engineer in</p>	4449.00	One Square Metre	61396.20
16.00 Square Metre	<p><b>Item No. 15 :-</b> Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 2.45 mm minimum size and above with rivets etc.</p> <p>DSR Page No./ Item No.39.24 Spec. No. : Bd.T.55, Page No. 510 Page No. BDT 55</p>	4310.00	One Square Metre	68960.00
78.20 Square Metre	<p><b>Item No. 16 :-</b> 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</p> <p>DSR Page No./ Item No.32.11 Spec. No. : Bd.L.7 Page No. 369 Page No. BDL 7</p>	643.77	One Square Metre	50342.81
78.20 Square Metre	<p><b>Item No. 17 :-</b> Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for</p> <p>DSR Page No./ Item No.35.13 Spec. No. : Bd.0.8 Page No. 406 Page No. BDO 8</p>	74.00	One Square Metre	5786.80
8.00 Running Metre	<p><b>Item No. 18 :-</b> Providing and Fixing 110 mm diameter PVC Rain Water pipe with necessary fittings such as bends, tees, single junctions, slotted vent, clamps etc complete.</p> <p>DSR Page No./ Item No.42.87 Spec. No. : As directed by Engineer in</p>	502.00	One Running Metre	4016.00
2.00	<p><b>Item No. 19 :-</b> Shooting of still photographs outdoor and indoor of construction and other works of building , bridges, roads etc. in District and outside dist. At any</p> <p>DSR 2016-17 Item No 1949</p>	64.00	set	128.00
<b>A) Work Portion Total with all Charges</b>				
14.07 Cum	<p><b>Item No. 20 :-</b> Add Royalty as per Government of Maharashtra Revenue and Forest Departments Order For Sand</p>	237.37	Rs One Cum	882452.54 3340.12
2.00	<p><b>Item No. 21 :-</b> Testing Charges for quality control tests on various materials like metal crushed metal bitumen Hard murum Soft Murum , Sand, Cement , Steel etc as per frequency norms and rates for every material in Vigilance and Compressive Strength of M-20 grade C.C. Cube</p>	690.00	No	1380.00
1.00	Carrying out water absorption , compressive strength & Efflorescence Test of Bricks	2175.00	No	2175.00
<b>Total Cost-</b>				<b>6895.12</b>

Name Of Work :- Construction of Agri Service Center Gat No. 331 Padhaved Tal:- Shindkheda Dist :- Dhule  
Jivendhara Farmers Producer Company Limited

MEASUREMENT.

Item No. 1 :-

Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area & stacking and spreading as directed, dewatering, preparing the bed for the

10	x	1.50	x	1.50	x	1.20	=	27.00	Cubic Metre	
1	x	1.20	x	1.50	x	0.45	=	0.81	Cubic Metre	
								Total Qty. =	27.81	Cubic Metre

Item No. 2 :-

Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc.

10	x	1.50	x	1.50	x	0.45	=	10.13	Cubic Metre	
								Total Qty. =	10.13	Cubic Metre

Item No. 3 :-

Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.

Column Footing	10	x	1.50	x	1.50	x	0.15	=	3.38	Cubic Metre
Bed	1	x	11.74	x	6.01	x	0.15	=	10.58	Cubic Metre
								Total Qty. =	13.96	Cubic Metre

Item No. 4 :-

Providing and laying in situ cement concrete of 1:4:8 proportion with trap/ granite/ quartzite/ gneiss metal in

Step	10	x	1.50	x	1.50	x	0.075	=	1.69	Cumt
Bed	1	x	1.20	x	1.50	x	0.075	=	0.14	Cumt
	1	x	11.74	x	6.01	x	0.075	=	5.29	Cumt
								Total Qty. =	7.12	Cumt

Item No. 5 :-

Providing and laying in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel

10	x	1.50	x	1.50	x	0.23	=	5.18	Cubic Metre	
10	x	1.50	x	1.50	x	0.23	=	5.18	Cubic Metre	
								Total Qty. =	10.36	Cubic Metre

Item No. 6 :-

Providing and casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks

10	x	0.23	x	0.45	x	4.00	=	4.14	Cubic Metre	
								Total Qty. =	4.14	Cubic Metre

Item No. 7 :-

Providing & casting in situ cement concrete M20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs & drawings or as directed including centering, formwork,

GB1	2	x	1	x	3.91	x	0.23	x	0.30	=	0.54	Cubic Metre
GB1	4	x	1	x	3.91	x	0.23	x	0.30	=	1.08	Cubic Metre
LB1	2	x	1	x	2.00	x	0.23	x	0.30	=	0.28	Cubic Metre
								Total Qty. =	1.90	Cubic Metre		

Item No. 8 :-

Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete

For Plinth	1	x	3	x	3.91	x	0.23	x	0.90	=	2.43	Cubic Metre
	1	x	3	x	2.00	x	0.23	x	0.90	=	1.24	Cubic Metre
								Total Qty. =	3.67	Cubic Metre		

Item No. 9 :-

Filling in plinth and floors with contractors aterial/brought from outside and approved by Engineer incharge in layers of 15cm. to 20cm. including watering and compaction etc. complete. Spec. No. : Bd.A. 11/Paoe No. 263

1	x	11.74	x	6.01	x	0.45	=	31.75	Cubic Metre	
								Total Qty. =	31.75	Cubic Metre

Item No. 10 :-

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

Truss Member (100x100 x6mm)	3.00	x	2.00	x	5.53	=	33.18
Purlin	2.00	x	1.00	x	5.53	=	11.06
Cleat angle	2.00	x	0.15	x	3.61	=	1.08
BASE PLATE (12mm tk-62.80/sqm)							
Nut Bolts (16 mm tk2.46Kg/m)	10	x	0.15	x	0.15	=	0.23
	6	x	3.00	x	0.45	=	8.10
						x	2.46
						=	19.93
						Total	= 79.38
						10% Curtailment Wt	= 7.9376
						Net	= 87.31
							Metric Ton

Weight of Truses	5.00	x	4.00	x	87.31	=	1746.27
Waiting & Hall	2.90	x	6.01	x	5.10	=	88.89
					10% Curtailment Wt	=	8.89
					Net	=	1844.05

M.S. Angle	2	x	2	x	3.91	=	1844.05	1000.00	=	1.844
M.S. Angle	2	x	2	x	2.00	=	15.64			
Vertical Support	2	x	2	x	0.30	=	8.00			
Vertical Support	2	x	2	x	0.45	=	1.20			
					Net	=	1.80			
					26.64	=	26.64			
						x	6.10	RMT	=	162.50
							162.50			1000.00
										Net Qty = 2.01
										0.162504 Metric Ton

**Item No. 11 :-**  
 Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws & bolts, lead & bitumen washers as per drawing etc. complete. (Weight of 5.5 kg/sq.m.)

	1	x	1.00	x	12.30	x	5.00	=	61.50	Square Me
	1	x	1.00	x	7.10	x	5.00	=	35.50	Square Me
					61.50	x	15%	=	9.23	Square Me
									Total Qty. =	44.73 Square Me

**Item No. 12 :-**  
 Providing and fixing colour coated Zinalume ( R ) AZ150 ( min 150 gms/sq.mt. total on each side ) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness ( BMT ) (0.5 mm TCT ), Histrrength

	1	x	12.30	x	7.10	x	1.00	=	87.33	Square Me
									Net Quantity	87.33 Square Me

**Item No. 13 :-**  
 Providing and fixing in position TMT FE  
 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels

Item	Qty	Steel Per			
Footing	10.360	x	75.00	=	777.00 Kg
Column	4.140	x	70.00	=	289.80 Kg
Beam	1.900	x	55.00	=	104.50 Kg
				=	1171.30 Kg
					Total Qty. = 1.17 MT

**Item No. 14 :-**  
 Providing and fixing steel ventilator fully glazed partly fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain / obscured glass pans and approved type quality and iron oxidized fixtures and fastening with guard square bars 12 mm 10 cm c/c and oil painting 2 coats

Ventilator	10	x	1.20	x	1.15	=	13.80
							Total Qty. = 13.80 Square Me

**Item No. 15 :-**  
 Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides. deep M.S. channel section of depth and thickness not less than 65 mm and 3.15

Shutter	1	x	4.00	x	4.00	=	16.00	Square Me
							Total Qty. = 16.00 Square Me	

**Item No. 16 :-**  
 Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough

	2	x	2	x	3.91	x	5.00	=	78.20	Square Me
									Total	= 78.20 Square Me

**Item No. 17 :-**  
 Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.

Qty as per Item No. 17 = 78.20 Square Me

Total = 78.20 Square Me

**Item No. 18 :-**  
 Providing and Fixing 110 mm diameter PVC Rain Water pipe with necessary fittings such as bends, tees, single junctions, slotted vent, clamps etc

	1	x	8.00	x	1.00	=	8.00
							Total Qty. = 8.00 Running Me

**Item No. 19 :-**  
 Shooting of still photographs outdoor and indoor of construction and other works of building , bridges, roads etc. in District and outside dist. At any distances  
 ii) a set of same three copies of 4' x 6' Size

	1.00	x	2.00	=	2.00	set
					Total Qty. = 2.00	set

**Item No. 20 :-**  
 Add Royalty as per Government of Maharashtra Revenue and Forest Departments Order For Sand

1:4:8	7.12	x	0.47	=	3.35	Cum
Footing	10.36	x	0.425	=	4.40	
Columns	4.14	x	0.425	=	1.76	
Beam	1.90	x	0.425	=	0.81	
BB Masonary	3.67	x	0.32	=	1.17	
Sand Face Plaster	78.20	x	0.033	=	2.58	
					Total Qty. = 14.07	Cum

**Item No. 21 :-**

Testing Charges for quality control tests on various materials like metal crushed metal bitumen Hard murum Soft Murum , Sand, Cement , Steel etc as per frequency norms and rates for every material in Vigillence and Quality Control Laboratory as directed by Engineer In Charge

Compressive Strength of M-20 grade C.C. Cube

= 2.00 No

Carrying out water absorption , compressive strength & Efflorescence Test of Bricks

= 1.00 No





Name Of Work :- Construction of Agri Service Center Gat No. 331 Padhaved Tal:- Shindkheda Dist :-  
 Dhule Jivendhara Farmers Producer Company Limited

## LEAD STATEMENT

Sr No.	Material	Source of Material	Total lead in Km	Total Lead charges	Net Additional Lead Charges	Unit
1	2	3	4	5	7	8
1	Cement		5.00	148.81	148.81	MT
2	Steel		5.00	148.81	148.81	Cum
3	Sand		5.00	229.63	229.63	Cum
4	Bricks		5.00	479.26	479.26	Cum
5	Crushed metal		5.00	229.63	229.63	Cum
6	Rubble		5.00	280.93	280.93	Cum
7	HM/SM		5.00	220.06	220.06	Cum

  
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