

GOVERNMENT OF MAHARASHTRA

DETAILED ESTIMATE

Detailed Estimate for the Work of

Construction of Cleaning/grading/sorting &
Cattle feed making Shed for Garmadhar
Farmer Producer Company Ltd. at H.no. 154
Donwada Tq. Aurangabad, Dist. Aurangabad.

Estimated Cost Rs. 1,01,97,296.00

Name of Work :- Construction of Cleaning/grading/sorting & Cattle feed making Shed for Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq. Aurangabad, Dist. Aurangabad.

Fund Head Sheet

OFFICE JV STRUCTURAL ENGINEERS AND CONSULTANT AURANGABAD

SANCTIONED ESTIMATE NO.

FUND HEAD

MAJOR HEAD

MINOR HEAD

SERVICE HEAD :

DEPARTMENTAL HEAD :

Estimate framed for the probable expenses that will be incurred for the work of Construction of Cleaning/grading/sorting & Cattle feed making Shed for Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq. Aurangabad, Dist. Aurangabad.

Total Cost of work : 1,01,97,296.00

Administratively approved under No.

Estimate prepared by :

Estimate Checked by :

GENERAL REPORT

.....Attached Separately.....



JV STRUCTURAL
ENGINEERS AND CONSULTANT
AURANGABAD

Name of Work :- Construction of Cleaning/grading/sorting & Cattle feed making Shed for
Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq. Aurangabad, Dist.
Aurangabad

General Report

1. Name of work :- Construction of Cleaning/grading/sorting & Cattle feed making Shed for
Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq.

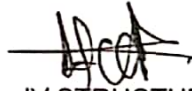
Following provisions are made in the estimate.

- 1) RCC framed structure with open foundation.
- 2) Providing soling using 80 mm size Below Footing & Flooring Only
- 3) Providing and laying P.C.C. M-10 For Flooring & M15 For Footing, Coping
- 4) Providing and laying R.C.C. M-20 For Footing, Column, Beams, Chajja .
- 5) Providing Second Class Burnt Brick Masonry for All Internal & External Walls.
- 6) Providing internal cement plaster 12mm with neeru finish & External Sand faced plaster.
- 8) Providing and applying washable oil-bound distemper For Internal walls
- 9) Providing and applying 3 Coats Water Proofing Cement paint For External Side
- 10) Providing and fixing rolling shutter.
- 11) Providing and fixing corrugated galvanised iron sheets for sides & Over Tuss

The rates are adopted as per State -E- SSR 2022-23 and nearest quarry is adopted for material.

So early technical sanction to the estimate is requested please.




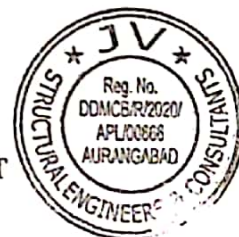

JV STRUCTURAL
ENGINEERS AND CONSULTANT
AURANGABAD

Name of Work :- Construction of Cleaning/grading/sorting & Cattle feed making Shed for Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq. Aurangabad, Dist. Aurangabad.

Recapitulation Sheet

Sr. No.	Perticulars	Amount As per Estimate
A		
1	Cost of Processing Machine Shed (22.50m x 30.00m)	74,81,264.00
2	Cost of Royalty Charges of Shed	38,590.00
3	Cost of Quality Control Charges of Shed	5,520.00
4	Add 12% for G.S.T. Charges (on-1)	8,97,752.00
5	Add 0.50% for Labour Insurance Charges (on-1)	37,406.00
	Total A =	84,60,532.00
6	Cost of Drying Yard (30m x 44m)	11,45,571.00
7	Cost of Royalty Charges of Drying Yard	78,954.00
8	Cost of Quality Control Charges of Drying Yard	6,210.00
9	Add 12% for G.S.T. Charges (on-6)	1,37,469.00
10	Add 0.50% for Labour Insurance Charges (on-6)	5,728.00
	Total B =	13,73,932.00
11	Cost of Office With WC	3,13,274.00
12	Cost of Royalty Charges of Office	3,764.00
13	Cost of Quality Control Charges of Office	6,635.00
14	Add 12% for G.S.T. Charges (on-11)	37,593.00
15	Add 0.50% for Labour Insurance Charges (on-11)	1,566.00
	Total C =	3,62,832.00
Total Cost of Construction (A+B+C)		1,01,97,296.00
		Say in Lakh = 101.97


**JV STRUCTURAL
ENGINEERS AND CONSULTANT
AURANGABAD**



Name of Work :- Construction of Cleaning/grading/sorting & Cattle feed making Shed for Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq. Aurangabad, Dist. Aurangabad.

Abstract Sheet

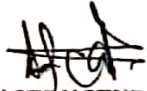
Item No.	Item Of Work.	Qty.	Rate	Unit	Amount
Excavation					
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means. Bd.A.1 Page 1 Number 259. SSR I.No. 21.02, Sr.No.721, P.No.153 Ground Floor	137.310	207.00	Cum	28423.00
2	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.. Spec. No. Bd.A.11 Page 1 Number 263. SSR I.No. 21.37, Sr.No. 751, P.No. 157 Ground Floor	178.510	818.98	Cum	146196.00
3	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.. Spec. No. As directed by Engineer in charge. SSR I.No. 21.40, Sr.No. 754, P.No. 157 Ground Floor	97.660	2068.33	Cum	201993.00
Plain Cement Concrete					
4	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Spec. No. Bd.E.1 Page 1 No. 287.SSR I.No.24.01, Sr.No.827, P.No.175 Ground Floor	65.110	6591.70	Cum	429186.00

m d.	Item Of Work.	Qty.	Rate	Unit	Amount
5	<p>Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Sepc. No. Bd.E.4 Page Number 289 and B7, Page Number38. SSR I.No. 24.08, Sr.No. 830, P.176</p> <p>Ground Floor</p>	12.560	7113.22	Cum	89342.00
5	<p>Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Spec. No.Bd.F.3 Page 1 No. 298 and B.7, Page No.38. SSR I.No.25.11, Sr.No.836 P.No.178</p> <p>Ground Floor</p>	21.670	7860.53	Cum	170338.00
7	<p>Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Spec. No. : Bd.F.5 Page No. 300 and B.7, Page.No. 38.SSR I.No.25.31, Sr.No.841, P.No.179</p> <p>Ground Floor</p>	32.410	14539.53	Cum	471226.00
	First Floor	24.550	14677.36	Cum	360329.00

em No.	Item Of Work.	Qty.	Rate	Unit	Amount
8	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, 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 (Crushed sand VSI Grade) Spec. No. :Bd.F.6 Page Number 300 and B.7, Page 1 Number38 Page.No. 38.SSR I.No.25.50, Sr.No.846, P.No.181				
	Ground Floor	18.720	13025.53	Cum	243838.00
	First Floor	9.360	13148.22	Cum	123067.00
9	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.. Spec.No. Bd.F.17, Page 1 No. 306. SSR I.No.26.33, Sr.No.871, P.No.188				
	Ground Floor	8.210	90077.17	MT	739534.00
	First Floor	5.090	90208.65	MT	459162.00
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 anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.Spec.No. Bd.C.8 Page Number 278 SSR I.No.23.04, Sr.No.819, P.No.173				
	First Floor	12.420	121027.76	MT	1503165.00
	Brick Work				
1	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. Spec. No. As director by engineer in charge and BDG- 2 and 5. SSR I.No.27.01, Sr.No.889 P.No.197				
	Ground Floor	6.320	8789.24	Cum	55548.00

Item No.	Item Of Work.	Qty.	Rate	Unit	Amount
2	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 Spec. No. Bd.G.5 Page One Number 315. SSR I.No.27.05, Sr.No.892 P.No.197 Ground Floor	78.900	9028.24	Cum	712328.00
Plastering & Pointing					
3	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete Spec. No. : Bd.L.4 Page 1 No. 368. SSR I.No.32.03, Sr.No.957, P.No.209 Ground Floor	484.470	281.98	Sqm	136611.00
4	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete. Spec. No. : Bd.L.7 Page 1 No. 369. SSR I.No.32.11, Sr.No.963, P.No.209 Ground Floor	509.130	664.12	Sqm	338123.00
Oil Painting					
5	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.Spec. No. : Bd.P.5 Page No. 413. SSR I.No.36.11, Sr.No.1106 P.No.227 Ground Floor	484.470	48.00	Sqm	23255.00
6	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. Spec. No. : As directed by Engineer in charge. SSR I.No.35.15, Sr.No.1085, P.no.224 Ground Floor	509.130	104.00	Sqm	52950.00
7	Providing and applying two coats of synthetic enamel paint of approved colour to new /old structural steel work and wood work in buildings, including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete. Spec. No. Bd.0.5 Page 1 No. 405..SSR I.No.35.07, Sr.No.1077 P.No.227 Ground Floor	26.370	96.00	Sqm	2532.00

Item No.	Item Of Work.	Qty.	Rate	Unit	Amount
18	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear) Spec.No.: BD.V 5 page 551 and as directed by Engineer in charge. SSR I.No.39.25, Sr.No.1218, P.No.249 Ground Floor	26.368	5682.17	Sqm	149827.00
19	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 and bolts, lead and bitumen washers as per drawing etc. complete.(Weight of 5.5 Kilogram/sq.m.). Spec.No.: Bd.R.5, Page One Number 453. SSR I.No.38.04, Sr.No.1144, P.No.233 First Floor	1188.450	878.70	Sqm	1044291.00
Total Cost Of Proper Building (A)					= 7481264.0
20	Royalty Charges-as per statement attached				
	For Sand	0.000	237.37	Cum	0.00
	For Murum	178.510	216.18	Cum	38590.00
Total Cost Of Royalty Charges (B)					= 38590.0
Quality Control Charges Items.					
2) Fine Aggregates					
21	Carrying out basic tests on Sand for Fineness modulus,Silt and clay content.Spec.No.As directed by Engineer in Charge.SSR I.No.11 P.No.360	1.000	1380.00	/Test	1380.00
4) Basic Test of Concrete					
22	Carrying out basic tests on Concrete cubes for compressive strength.Spec.No.As directed by Engineer in Charge.SSR I.No.20 P.No.387	6.000	690.00	/Test	4140.00
Total Cost Of Quality Control Charges (C)					= 5520.0
Total Cost Of Project (A+B+C)					= 7525374.0


**JV STRUCTURAL
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AURANGABAD**

Name of Work :- Construction of Cleaning/grading/sorting & Cattle feed making Shed for
Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq. Aurangabad, Dist.
Aurangabad.

Measurement Sheet

Item No.	Item Of Work.	Nos.	Length.	Breadth.	Height.	Quantity.	Unit.
I. Excavation							
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means. Bd.A.1						
Ground Floor							
Total Footings (28 Nos)							
Group no.1							
		18	2.100	1.500	1.500	85.050	
Group no.2							
		10	1.800	1.500	1.500	40.500	
External Ground beam							
	1-2						
	2-3	1	3.130	0.430	0.300	0.400	
	3-4	1	3.200	0.430	0.300	0.410	
	4-5	1	3.200	0.430	0.300	0.410	
	5-6	1	3.200	0.430	0.300	0.410	
	6-7	1	3.200	0.430	0.300	0.410	
	22-23	1	3.130	0.430	0.300	0.400	
	23-24	1	3.130	0.430	0.300	0.400	
	24-25	1	3.200	0.430	0.300	0.410	
	25-26	1	3.200	0.430	0.300	0.410	
	26-27	1	3.200	0.430	0.300	0.410	
	27-28	1	3.200	0.430	0.300	0.410	
	1-8	1	3.130	0.430	0.300	0.400	
	8-10	1	3.320	0.430	0.300	0.430	
	10-12	1	3.320	0.430	0.300	0.430	
	12-14	1	3.320	0.430	0.300	0.430	
	14-16	1	3.320	0.430	0.300	0.430	
	16-18	1	3.320	0.430	0.300	0.430	
	18-20	1	3.320	0.430	0.300	0.430	
	20-22	1	3.320	0.430	0.300	0.430	
	7-9	1	3.320	0.430	0.300	0.430	
	9-11	1	3.320	0.430	0.300	0.430	
	11-13	1	3.320	0.430	0.300	0.430	
	13-15	1	3.320	0.430	0.300	0.430	
	15-17	1	3.320	0.430	0.300	0.430	
	17-19	1	3.320	0.430	0.300	0.430	
	19-21	1	3.320	0.430	0.300	0.430	
	21-28	1	3.320	0.430	0.300	0.430	
Net Qty. For Ground Floor						137.310	Cum

Item No.	Item Of Work.	Nos.	Length.	Breadth.	Height.	Quantity.	Unit.
2	Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.. Spec. No. Bd.A.11 Page 1 Number 263. SSR I.No. 21.37, Sr.No. 751, P.No. 157						
	Ground Floor						
	Total Footings (28 Nos.)						
	Group no.1	18	2.10	1.500	1.500	85.050	
	Group no.2	10	1.80	1.500	1.500	40.500	
						Total Excavation Qty. (A) =	125.550 Cum
	Deduction						
	Qty as per - Excavation It.No.1	1	137.310	1.000	1.000	137.310	
	Qty as per - 1:2:4 PCC Below Footing	1	12.560	1.000	1.000	12.560	
	Qty as per - M-20 RCC footing	1	21.670	1.000	1.000	21.670	
	Qty as per - 20 RCC Col. upto GL	1	3.370	1.000	1.000	3.370	
						Total Deduction Qty. (B) =	174.910 Cum
						Total Filling Required (A)-(B) =	-49.360 Cum
	Under flooring						
	Ht = 0.6 - 0.1 - 0.15 = 0.35 m.						
	For Processing Machine Shed	1	22.040	29.540	0.350	227.870	
	Net Qty. For Ground Floor					178.510	Cum
3	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.. Spec. No. As directed by Engineer in charge. SSR I.No. 21.40, Sr.No. 754, P.No. 157						
	Ground Floor						
	Below Flooring						
	For Processing Machine Shed	1	22.040	29.540	0.150	97.660	
	Net Qty. For Ground Floor					97.660	Cum
	3. Plain Cement Concrete						
4	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Spec. No. Bd.E.1 Page 1 No. 287.SSR I.No.24.01, Sr.No.827, P.No.175						
	Ground Floor						
	Below Flooring						
	For Processing Machine Shed	1	22.040	29.540	0.100	65.106	
	Net Qty. For Ground Floor					65.110	Cum

Item No.	Item Of Work.	Nos.	Length.	Breadth.	Height.	Quantity.	Unit.
5	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Sepc. No. Bd.E.4 Page Number 289 and B7, Page Number38. SSR I.No. 24.08, Sr.No. 830, P.176						
Ground Floor							
Total Footings (28 Nos.)							
	Group no.1	18	2.100	1.500	0.150	8.510	
	Group no.2	10	1.800	1.500	0.150	4.050	
Net Qty. For Ground Floor						12.560	Cum
Reinforcement Cement Concrete							
6	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Spec. No.Bd.F.3 Page 1 No. 298 and B.7, Page No.38. SSR I.No.25.11, Sr.No.836 P.No.178						
Ground Floor							
Total Footings (28 Nos)							
First Step							
	Group no.1	18	1.800	1.200	0.265	10.300	
	Group no.2	10	1.500	1.200	0.225	4.050	
Second Step							
	Group no.1	18	1.400	0.800	0.265	5.340	
	Group no.2	10	1.100	0.800	0.225	1.980	
Net Qty. For Ground Floor						21.670	Cum

Item Of Work.	Nos.	Length.	Breadth.	Height.	Quantity.	Unit.
Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Spec. No. Bd.F.5 Page No. 300 and B.7, Page.No. 38.SSR I.No.25.31, Sr.No.841, P.No.179						
Ground Floor						
Column upto GL						
Group no.1	18	0.380	0.600	0.820	3.370	
Group no.2	10	0.300	0.450	0.900	1.220	
Column GL to FFL Ht. 0.90						
Group no.1	18	0.380	0.600	0.600	2.460	
Group no.2	10	0.300	0.450	0.600	0.810	
Column FFL to Lintel Ht. 4.50m.						
Group no.1	18	0.380	0.600	4.500	18.470	
Group no.2	10	0.300	0.450	4.500	6.080	
Net Qty. For Ground Floor					32.410	Cum
First Floor						
Column Lintel to Truss Bottom Ht. 4.50m.						
Group no.1	18	0.380	0.600	4.500	18.470	
Group no.2	10	0.300	0.450	4.500	6.080	
Net Qty. For First Floor					24.550	Cum
8 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, 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 (Crushed sand VSI Grade) Spec. No. :Bd.F.6 Page Number 300 and B.7, Page 1 Number38 Page.No. 38.SSR I.No.25.50, Sr.No.846, P.No.181						
Ground Floor						
External Plinth beam						
B1 - 230 X 450						
1-2	1	3.130	0.230	0.450	0.320	
2-3	1	3.200	0.230	0.450	0.330	
3-4	1	3.200	0.230	0.450	0.330	
4-5	1	3.200	0.230	0.450	0.330	

Item No.	Item Of Work.	Nos.	Length.	Breadth.	Height.	Quantity.	Unit.
	5-6	1	3.200	0.230	0.450	0.330	
	6-7	1	3.130	0.230	0.450	0.320	
	22-23	1	3.130	0.230	0.450	0.320	
	23-24	1	3.200	0.230	0.450	0.330	
	24-25	1	3.200	0.230	0.450	0.330	
	25-26	1	3.200	0.230	0.450	0.330	
	26-27	1	3.200	0.230	0.450	0.330	
	27-28	1	3.130	0.230	0.450	0.320	
	1-8	1	3.320	0.230	0.450	0.340	
	8-10	1	3.320	0.230	0.450	0.340	
	10-12	1	3.320	0.230	0.450	0.340	
	12-14	1	3.320	0.230	0.450	0.340	
	14-16	1	3.320	0.230	0.450	0.340	
	16-18	1	3.320	0.230	0.450	0.340	
	18-20	1	3.320	0.230	0.450	0.340	
	20-22	1	3.320	0.230	0.450	0.340	
	7-9	1	3.320	0.230	0.450	0.340	
	9-11	1	3.320	0.230	0.450	0.340	
	11-13	1	3.320	0.230	0.450	0.340	
	13-15	1	3.320	0.230	0.450	0.340	
	15-17	1	3.320	0.230	0.450	0.340	
	17-19	1	3.320	0.230	0.450	0.340	
	19-21	1	3.320	0.230	0.450	0.340	
	21-28	1	3.320	0.230	0.450	0.340	
	Lintel Level Beams						
	B1 - 230 X 450						
	1-2	1	3.130	0.230	0.450	0.320	
	2-3	1	3.200	0.230	0.450	0.330	
	3-4	1	3.200	0.230	0.450	0.330	
	4-5	1	3.200	0.230	0.450	0.330	
	5-6	1	3.200	0.230	0.450	0.330	
	6-7	1	3.130	0.230	0.450	0.320	
	22-23	1	3.130	0.230	0.450	0.320	
	23-24	1	3.200	0.230	0.450	0.330	
	24-25	1	3.200	0.230	0.450	0.330	
	25-26	1	3.200	0.230	0.450	0.330	
	26-27	1	3.200	0.230	0.450	0.330	
	27-28	1	3.130	0.230	0.450	0.320	
	1-8	1	3.320	0.230	0.450	0.340	
	8-10	1	3.320	0.230	0.450	0.340	
	10-12	1	3.320	0.230	0.450	0.340	
	12-14	1	3.320	0.230	0.450	0.340	
	14-16	1	3.320	0.230	0.450	0.340	
	16-18	1	3.320	0.230	0.450	0.340	
	18-20	1	3.320	0.230	0.450	0.340	
	20-22	1	3.320	0.230	0.450	0.340	

7-9					
9-11	1	3.320	0.230	0.450	0.340
11-13	1	3.320	0.230	0.450	0.340
13-15	1	3.320	0.230	0.450	0.340
15-17	1	3.320	0.230	0.450	0.340
17-19	1	3.320	0.230	0.450	0.340
19-21	1	3.320	0.230	0.450	0.340
21-23	1	3.320	0.230	0.450	0.340
	1	3.320	0.230	0.450	0.340

Net Qty. For Ground Floor **18.720 Cum**

First Floor

TRUSS BOTTOM BEAM

B1 - 230 X 450

1-2					
2-3	1	3.130	0.230	0.450	0.320
3-4	1	3.200	0.230	0.450	0.330
4-5	1	3.200	0.230	0.450	0.330
5-6	1	3.200	0.230	0.450	0.330
6-7	1	3.200	0.230	0.450	0.330
22-23	1	3.130	0.230	0.450	0.320
23-24	1	3.200	0.230	0.450	0.330
24-25	1	3.200	0.230	0.450	0.330
25-26	1	3.200	0.230	0.450	0.330
26-27	1	3.200	0.230	0.450	0.330
27-28	1	3.130	0.230	0.450	0.320
1-8	1	3.320	0.230	0.450	0.340
8-10	1	3.320	0.230	0.450	0.340
10-12	1	3.320	0.230	0.450	0.340
12-14	1	3.320	0.230	0.450	0.340
14-16	1	3.320	0.230	0.450	0.340
16-18	1	3.320	0.230	0.450	0.340
18-20	1	3.320	0.230	0.450	0.340
20-22	1	3.320	0.230	0.450	0.340
7-9	1	3.320	0.230	0.450	0.340
9-11	1	3.320	0.230	0.450	0.340
11-13	1	3.320	0.230	0.450	0.340
13-15	1	3.320	0.230	0.450	0.340
15-17	1	3.320	0.230	0.450	0.340
17-19	1	3.320	0.230	0.450	0.340
19-21	1	3.320	0.230	0.450	0.340
21-23	1	3.320	0.230	0.450	0.340

Net Qty. For First Floor **9.360 Cum**

Item No.	Item Of Work.	Nos.	Length.	Breadth.	Height.	Quantity.	Unit.
9	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.. Spec.No. Bd.F.17, Page 1 No. 306. SSR I.No.26.33, Sr.No.871, P.No.188						
Ground Floor							
	Qty. As Per Item. M20 Footing		21.670	25.00	Kg/Cum	541.75	
	Qty. As Per Item. M20 Column		32.410	150.00	Kg/Cum	4861.50	
	Qty. As Per Item. M20 Beams		18.720	150.00	Kg/Cum	2808.00	
					Total Qty. =	8211.25	Kg.
Net Qty. For Ground Floor						8.210	/M.T.
First Floor							
	Qty. As Per Item. M20 Column		24.550	150.00	Kg/Cum	3682.50	
	Qty. As Per Item. M20 Beams		9.360	150.00	Kg/Cum	1404.00	
					Total Qty. =	5086.50	Kg.
Net Qty. For First Floor						5.090	/M.T.
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 anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.Spec.No. Bd.C.8 Page Number 278 SSR I.No.23.04, Sr.No.819, P.No.173						
First Floor							
	For Processing Machine Shed	1	22.500	30.00	18.400	12420.000	
					Total Qty. =	12420.00	Kg.
Net Qty. For First Floor						12.420	/M.T.
Brick Work							
11	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. Spec. No. As director by engineer in charge and BDG- 2 and 5. SSR I.No.27.01, Sr.No.889 P.No.197						
Ground Floor							
	External plinth beam (Plinth Ht = 0.90 - 0.15 - 0.15 = 0.90 m.)						
	1-2	1	3.130	0.230	0.300	0.220	
	2-3	1	3.200	0.230	0.300	0.220	
	3-4	1	3.200	0.230	0.300	0.220	
	4-5	1	3.200	0.230	0.300	0.220	
	5-6	1	3.200	0.230	0.300	0.220	
	6-7	1	3.130	0.230	0.300	0.220	
	22-23	1	3.130	0.230	0.300	0.220	

Item No.	Item Of Work.	Nos.	Length.	Breadth.	Height.	Quantity.	Unit.
23-24							
24-25		1	3.200	0.230	0.300	0.220	
25-26		1	3.200	0.230	0.300	0.220	
26-27		1	3.200	0.230	0.300	0.220	
27-28		1	3.200	0.230	0.300	0.220	
1-8		1	3.130	0.230	0.300	0.220	
8-10		1	3.320	0.230	0.300	0.230	
10-12		1	3.320	0.230	0.300	0.230	
12-14		1	3.320	0.230	0.300	0.230	
14-16		1	3.320	0.230	0.300	0.230	
16-18		1	3.320	0.230	0.300	0.230	
18-20		1	3.320	0.230	0.300	0.230	
20-22		1	3.320	0.230	0.300	0.230	
7-9		1	3.320	0.230	0.300	0.230	
9-11		1	3.320	0.230	0.300	0.230	
11-13		1	3.320	0.230	0.300	0.230	
13-15		1	3.320	0.230	0.300	0.230	
15-17		1	3.320	0.230	0.300	0.230	
17-19		1	3.320	0.230	0.300	0.230	
19-21		1	3.320	0.230	0.300	0.230	
21-28		1	3.320	0.230	0.300	0.230	
Net Qty. For Ground Floor						6.320	Cum

12 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. Spec. No. As directed by engineer in charge and BDG-2 and 5. SSR I.No.27.01, Sr.No.889 P.No.197

Ground Floor							
Ht = 4.5 - 0.45 = 4.05 m.							
1-2		1	3.130	0.230	4.050	2.920	
2-3		1	3.200	0.230	4.050	2.980	
3-4		1	3.200	0.230	4.050	2.980	
4-5		1	3.200	0.230	4.050	2.980	
5-6		1	3.200	0.230	4.050	2.980	
6-7		1	3.130	0.230	4.050	2.920	
22-23		1	3.130	0.230	4.050	2.920	
23-24		1	3.200	0.230	4.050	2.980	
24-25		1	3.200	0.230	4.050	2.980	
25-26		1	3.200	0.230	4.050	2.980	
26-27		1	3.200	0.230	4.050	2.980	
27-28		1	3.130	0.230	4.050	2.920	
1-8		1	3.320	0.230	4.050	3.090	
8-10		1	3.320	0.230	4.050	3.090	
10-12		1	3.320	0.230	4.050	3.090	
12-14		1	3.320	0.230	4.050	3.090	
14-16		1	3.320	0.230	4.050	3.090	

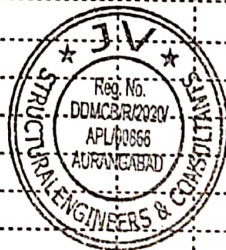
Item No.	Item Of Work.	Nos.	Length.	Breadth.	Height.	Quantity.	Unit.
16-18							
18-20		1	3.320	0.230	4.050	3.090	
20-22		1	3.320	0.230	4.050	3.090	
7-9		1	3.320	0.230	4.050	3.090	
9-11		1	3.320	0.230	4.050	3.090	
11-13		1	3.320	0.230	4.050	3.090	
13-15		1	3.320	0.230	4.050	3.090	
15-17		1	3.320	0.230	4.050	3.090	
17-19		1	3.320	0.230	4.050	3.090	
19-21		1	3.320	0.230	4.050	3.090	
21-28		1	3.320	0.230	4.050	3.090	
	Deduction						
	Rolling Shutter	-2	3.200	0.230	4.120	-6.060	
Net Qty. For Ground Floor						78.900	Cum

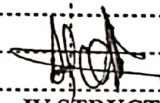
Plastering & Pointing							
13	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete Spec. No. Bd.L.4 Page 1 No. 368. SSR I.No.32.03, Sr.No.957, P.No.209						
Ground Floor							
Internal walls (Ht = 4.50 m.)							
	Horizontal Side	2	22.040	-	4.500	198.360	
	Vertical Side	2	29.540	-	4.500	265.860	
	For Cloumn Offset	28	0.370	-	4.500	46.620	
	Deduction						
	Rolling Shutter	-2	3.200	-	4.120	-26.370	
Net Qty. For Ground Floor						484.470	Sqm

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 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete. Spec. No. Bd.L.7 Page 1 No. 369. SSR I.No.32.11, Sr.No.963, P.No.209						
Ground Floor							
External walls (Ht = 0.9+4.50 = 5.40 m.)							
	Horizontal Side	2	22.500	-	5.100	229.500	
	Vertical Side	2	30.000	-	5.100	306.000	
	Deduction						
	Rolling Shutter	-2	3.200	-	4.120	-26.370	
Net Qty. For Ground Floor						509.130	Sqm

e	Item Of Work.	Nos.	Length.	Breadth.	Height.	Quantity.	Unit.
1	Oil Painting						
5	Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete. Spec. No. : Bd.P.5 Page No. 413. SSR I.No.36.11, Sr.No.1106 P.No.227						
	Ground Floor						
	Qty. (Internal Side Plaster)	1	484.47	1.000	-	484.470	
	Net Qty. For Ground Floor					484.470	Sqm
16	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. Spec. No. : As directed by Engineer in charge. SSR I.No.35.15, Sr.No.1085, P.no.224						
	Ground Floor						
	Qty. (External Side Plaster)	1	509.13	1.000	-	509.130	
	Net Qty. For Ground Floor					509.130	Sqm
17	Providing and applying two coats of synthetic enamel paint of approved colour to new /old structural steel work and wood work in buildings, including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete. Spec. No. Bd.0.5 Page 1 No. 405..SSR I.No.35.07, Sr.No.1077 P.No.227						
	Ground Floor						
	Rolling Shutter	2	3.20	4.120	-	26.368	
	Net Qty. For Ground Floor					26.370	Sqm
18	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear) Spec.No.: BD.V.5 page 551 and as directed by Engineer in charge. SSR I.No.39.25, Sr.No.1218, P.No.249						
	Ground Floor						
	Rolling Shutter	2	3.20	4.120	-	26.368	
	Net Qty. For Ground Floor					26.368	Sqm

Item No.	Item Of Work.	Nos.	Length.	Breadth.	Height.	Quantity.	Unit.
19	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 and bolts, lead and bitumen washers as per drawing etc. complete. (Weight of 5.5 Kilogram/sq.m.). Spec.No.: Bd.R.5, Page One Number 453. SSR I.No.38.04, Sr.No.1144, P.No.233						
	First Floor						
	For Shed	2	12.720	30.000	-	763.200	
	From Side						
	Horizontal Sides	2	22.500	-	4.050	182.250	
	Vertical Sides	2	30.000	-	4.050	243.000	
Net Qty. For First Floor						1188.450	Sqm
20	Royalty Charges-as per statement attached						
	For Sand	1	0.00	1.000	-	0.000	
	For Murum	1	178.51	1.000	-	178.510	
	Quality Control Charges Items.						
	2) Fine Aggregates						
21	Carrying out basic tests on Sand for Fineness modulus, Silt and clay content. Spec.No.As directed by Engineer in Charge. SSR I.No.11 P.No.360						
		1	-	-	-	1.000	
Net Qty. For Ground Floor						1.000	/Test
	4) Basic Test of Concrete						
22	Carrying out basic tests on Concrete cubes for compressive strength. Spec.No.As directed by Engineer in Charge. SSR I.No.20 P.No.387						
		6	-	-	-	6.000	
Net Qty. For Ground Floor						6.000	/Test




**JV STRUCTURAL
ENGINEERS AND CONSULTANT
AURANGABAD**

ame of Work :- Construction of Cleaning/grading/sorting & Cattle feed making Shed for Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq. Aurangabad, Dist. Aurangabad.

Rate Analysis

No.	Item Of Work.	Unit.
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Excavation

- 1 Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means. Bd.A.1 Page 1 Number 259. SSR I.No. 21.02, Sr.No.721, P.No.153

Basic Rate As Per SSR 2022-23

Rs : 207.00

Net Amount For Ground Floor

207.000 /Cum

- 2 Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete.. Spec. No. Bd.A.11 Page 1 Number 263. SSR I.No. 21.37, Sr.No. 751, P.No. 157

Basic Rate As Per SSR 2022-23

Rs : 599.00

Add Lead Charges For Hard Murum

1 1.00 219.98

Rs : 219.98

Net Amount For Ground Floor

818.980 /Cum

- 3 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.. Spec. No. As directed by Engineer in charge. SSR I.No. 21.40, Sr.No. 754, P.No. 157

Basic Rate As Per SSR 2022-23

Rs : 1454.00

Add Lead Charges For Metal

1 1.00 521.40

Rs : 521.40

Add Lead Charges For Sand

1 0.15 619.56

Rs : 92.93

Net Amount For Ground Floor

2068.330 /Cum

Plain Cement Concrete

- 4 Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Spec. No. Bd.E.1 Page 1 No. 287.SSR I.No.24.01, Sr.No.827, P.No.175

Basic Rate As Per SSR 2022-23

Rs : 5830.00

Add Lead Charges For 40mm Metal

1 0.70 408.43

Rs : 285.90

Add Lead Charges For 20mm Metal

1 0.24 426.19

Rs : 102.29

Add Lead Charges For Sand

1 0.47 619.56

Rs : 291.19

Add Lead Charges For Cement

1 0.22 374.17

Rs : 82.32

Net Amount For Ground Floor

6591.700 /Cum

No. Item Of Work.	Unit.
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5 Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Sepec. No. Bd.E.4 Page Number 289 and B7, Page Number38. SSR I.No. 24.08, Sr.No. 830, P.176

Basic Rate As Per SSR 2022-23				Rs :	6359.00
Add Lead Charges For 40mm Metal	1	0.56	408.43	Rs :	228.72
Add Lead Charges For 20mm Metal	1	0.22	426.19	Rs :	93.76
Add Lead Charges For 10 / 12mm Metal	1	0.11	426.19	Rs :	46.88
Add Lead Charges For Sand	1	0.44	619.56	Rs :	272.61
Add Lead Charges For Cement	1	0.30	374.17	Rs :	112.25

Net Amount For Ground Floor **7113.220 /Cum**

Reinforcement Cement Concrete

6 Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Spec. No.Bd.F.3 Page 1 No. 298 and B.7, Page No.38. SSR I.No.25.11, Sr.No.836 P.No.178

Basic Rate As Per SSR 2022-23				Rs :	7104.00
Add Lead Charges For 20mm Metal	1	0.570	426.19	Rs :	242.93
Add Lead Charges For 10 / 12mm Metal	1	0.280	426.19	Rs :	119.33
Add Lead Charges For Sand	1	0.425	619.56	Rs :	263.31
Add Lead Charges For Cement	1	0.350	374.17	Rs :	130.96

Net Amount For Ground Floor **7860.530 /Cum**

7 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Spec. No. : Bd.F.5 Page No. 300 and B.7, Page.No. 38.SSR I.No.25.31, Sr.No.841, P.No.179

Basic Rate As Per SSR 2022-23				Rs :	13783.00
Add Lead Charges For 20mm Metal	1	0.570	426.19	Rs :	242.93
Add Lead Charges For 10 / 12mm Metal	1	0.280	426.19	Rs :	119.33
Add Lead Charges For Sand	1	0.425	619.56	Rs :	263.31
Add Lead Charges For Cement	1	0.350	374.17	Rs :	130.96

Net Amount For Ground Floor **14539.530 /Cum**

Add 1% For 1st Lift	1	13783.00	1%	Rs :	137.83
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Net Amount For First Floor **14677.36 /Cum**

It. No. Item Of Work.

Unit.

- 8 Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Spec. No. :Bd.F.6 Page Number 300 and B.7, Page 1 Number 38 Page.No. 38.SSR I.No.25.50, Sr.No.846, P.No.181

Basic Rate As Per SSR 2022-23				Rs :	12269.00
Add Lead Charges For 20mm Metal	1	0.570	426.19	Rs :	242.93
Add Lead Charges For 10 / 12mm Metal	1	0.280	426.19	Rs :	119.33
Add Lead Charges For Sand	1	0.425	619.56	Rs :	263.31
Add Lead Charges For Cement	1	0.350	374.17	Rs :	130.96
Net Amount For Ground Floor					13025.530 /Cum
Add 1% For 1st Lift	1	12269.00	1%	Rs :	122.69
Net Amount For First Floor					13148.22 /Cum

- 9 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, parris, 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.. Spec.No. Bd.F.17, Page 1 No. 306. SSR I.No.26.33, Sr.No.871, P.No.188

Basic Rate As Per SSR 2022-23				Rs :	89703.00
Add Lead Charges For Steel	1	1.00	374.17	Rs :	374.17
Net Amount For Ground Floor					90077.170 /M.T.
Add 1% For 1st Lift	1	13148.22	1%	Rs :	131.48
Net Amount For First Floor					90208.65 /M.T.

- 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 anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.Spec.No. Bd.C.8 Page Number 278 SSR I.No.23.04, Sr.No.819, P.No.173

Basic Rate As Per SSR 2022-23				Rs :	119459.00
Add Lead Charges For Steel	1	1.00	374.17	Rs :	374.17
Net Amount For Ground Floor					119833.17 /M.T.
Add 1% For 1st Lift	1	119459.00	1%	Rs :	1194.59
Net Amount For First Floor					121027.76 /M.T.

Brick Work

- 11 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. Spec. No. As directed by engineer in charge and BDG- 2 and 5. SSR I.No.27.01, Sr.No.889 P.No.197

Basic Rate As Per SSR 2022-23				Rs :	7755.00
Add Lead Charges For Brick	1	0.475	1697.720	Rs :	806.42
Add Lead Charges For Sand	1	0.320	619.560	Rs :	198.26
Add Lead Charges For Cement	1	0.079	374.170	Rs :	29.56
Net Amount For Ground Floor					8789.240 /Cum
Add 1% For 1st Lift	1	7755.00	1%	Rs :	77.55
Net Amount For First Floor					8866.79 /Cum

No.	Item Of Work.	Unit.
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12 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 Spec. No. Bd.G.5 Page One Number 315. SSR I.No.27.05, Sr.No.892 P.No.197

Basic Rate As Per SSR 2022-23				Rs :	7994.00	
Add Lead Charges For Brick	1	0.475	1697.720	Rs :	806.42	
Add Lead Charges For Sand	1	0.320	619.560	Rs :	198.26	
Add Lead Charges For Cement	1	0.079	374.170	Rs :	29.56	
Net Amount For Ground Floor					9028.240	/Cum
Add 1% For 1st Lift	1	7994.00	1%	Rs :	79.94	
Net Amount For First Floor					9108.18	/Cum

Plastering & Pointing

13 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete Spec. No. : Bd.L.4 Page 1 No. 368. SSR I.No.32.03, Sr.No.957, P.No.209

Basic Rate As Per SSR 2022-23				Rs :	271.00	
Add Lead Charges For Sand	1	0.015	619.560	Rs :	9.29	
Add Lead Charges For Cement	1	0.00450	374.170	Rs :	1.68	
Net Amount For Ground Floor					281.980	/Sqm
Add 1% For 1st Lift	1	271.00	1%	Rs :	2.71	
Net Amount For First Floor					284.69	/Sqm

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 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete. Spec. No. : Bd.L.7 Page 1 No. 369. SSR I.No.32.11, Sr.No.963, P.No.209

Basic Rate As Per SSR 2022-23				Rs :	639.00	
Add Lead Charges For Sand	1	0.033	619.560	Rs :	20.45	
Add Lead Charges For Cement	1	0.0125	374.170	Rs :	4.68	
Net Amount For Ground Floor					664.120	/Sqm
Add 1% For 1st Lift	1	639.00	1%	Rs :	6.39	
Net Amount For First Floor					670.51	/Sqm

Oil Painting

15 Providing and applying washable oil-bound distemper of approved colour and shade to old and new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.Spec. No. : Bd.P.5 Page No. 413. SSR I.No.36.11, Sr.No.1106 P.No.227

Basic Rate As Per SSR 2022-23				Rs :	48.00	
Net Amount For Ground Floor					48.000	/Sqm
Add 1% For 1st Lift	1	48.00	1%	Rs :	0.48	
Net Amount For First Floor					48.48	/Sqm

No.	Item Of Work.	Unit.
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16 Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. Spec. No. : As directed by Engineer in charge. SSR I.No.35.15, Sr.No.1085, P.no.224

Basic Rate As Per SSR 2022-23				Rs :	104.00	
Net Amount For Ground Floor					104.000	/Sqm
Add 1% For 1st Lift	1	104.00	1%	Rs :	1.04	
Net Amount For First Floor					105.04	/Sqm

17 Providing and applying two coats of synthetic enamel paint of approved colour to new /old structural steel work and wood work in buildings, including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete. Spec. No. Bd.0.5 Page 1 No. 405..SSR I.No.35.07, Sr.No.1077 P.No.227

Basic Rate As Per SSR 2022-23				Rs :	96.00	
Net Amount For Ground Floor					96.000	/Sqm
Add 1% For 1st Lift	1	96.00	1%	Rs :	0.96	
Net Amount For First Floor					96.96	/Sqm

18 Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear) Spec.No.: BD.V 5 page 551 and as directed by Engineer in charge. SSR I.No.39.25, Sr.No.1218, P.No.249

Basic Rate As Per SSR 2022-23				Rs :	5308.00	
Add Lead Charges For Steel	1	1.00	374.17	Rs :	374.17	
Net Amount For Ground Floor					5682.170	/Sqm
Add 1% For 1st Lift	1	5308.00	1%	Rs :	53.08	
Net Amount For First Floor					5735.25	/Sqm

19 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 and bolts, lead and bitumen washers as per drawing etc. complete.(Weight of 5.5 Kilogram/sq.m.). Spec.No.: Bd.R.5, Page One Number 453. SSR I.No.38.04, Sr.No.1144, P.No.233

Basic Rate As Per SSR 2022-23				Rs :	870.00	
Net Amount For Ground Floor					870.000	/Sqm
Add 1% For 1st Lift	1	870.00	1%	Rs :	8.70	
Net Amount For First Floor					878.70	/Sqm



[Handwritten Signature]

**JV STRUCTURAL
ENGINEERS AND CONSULTANT
AURANGABAD**

Name of Work :- Construction of Cleaning/grading/sorting & Cattle feed making Shed for Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq. Aurangabad, Dist. Aurangabad.

Testing Charges for Construction Materials.

Give out various following tests for

Materials	Test	Qty.	Unit	Frequency Required	No. of Tests	Rate/Test	Total Amount
Sand	Fineness mod., Moisture content, Bulkage and silt factor	#REF!	Cum	per source	1	1380.00	1380.00
Concrete cubes	Comp. strength of cubes,	150.47	Cum	1 - 5 Cum 1 Test 6 - 15 Cum 2 Test 16 - 30 Cum 3 Test 31 - 50 Cum 4 Test 50 & Above 4 Plus	6	690.00	4140.00
Total Rs.							5520.00



JV STRUCTURAL
ENGINEERS AND CONSULTANT
AURANGABAD

Name of Work :- Construction of Churning/grading/sorting & Cattle feed making Shed for Garmadhar Farmer Producer Company Ltd. at H.No. 151 Donwada Top, Aurangabad, Dist. Aurangabad.

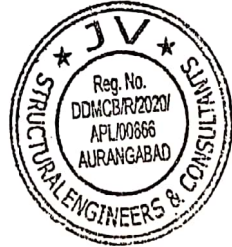
Sl. No.	ITEMS OF WORK	Royalty Statement For Cattle Building					
		UNIT	TOTAL QTY.	RATE		AMT./LAKH	
2	Filling in place and finish with commercial manufactured/bricks both smooth and approved by Engineer In-charge to level of 15 cm to	Cum	178.11			1.000	178.110
3	Providing and laying using 80 mm size trap metal in 15 cm layer including filling voids with Crushed sand / grit, ramming, watering	Cum	07.600	0.000	0.000	-	-
4	Providing and laying in situ / ready mix cement concrete of M10 proportion with trap granite/ quartzite/ gneiss metal in foundation including SSR I.No.11.02 P.No.	Cum	65.110	0.000	0.000	-	-
5	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) Sepc. No. Bd.E.4 Page Number 289 and B7, Page Number38. SSR I.No. 24.08, Sr.No. 830, P.176	Cum	12.560	0.000	0.000	-	-
6	Providing and laying in situ/ Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. work in foundations like raft , strip SSR I.No.25.11 P.No.180	Cum	21.670	0.000	0.000	-	-
7	Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap / granite/ quartzite/ gneiss metal for R.C.C. columns as per detailed designs and SSR I.No.25.31 P.No.183						
	Ground Floor	Cum	32.410	0.000	0.000	-	-

	First Floor	Cum	24.550	0.000	0.000	-	-
8	Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed SSR I.No.25.50 P.No.186						
	Ground Floor	Cum	18.720	0.000	0.000	-	-
	First Floor	Cum	9.360	0.000	0.000	-	-
11	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. Spec. No. As director by engineer in charge and BDG- 2 and 5. SSR I.No.27.01, Sr.No.889 P.No.197					-	-
	Ground Floor	Cum	6.320	0.000	0.000		
12	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 Spec. No. Bd.G.5 Page One Number 315. SSR I.No.27.05, Sr.No.892 P.No.197					-	-
	Ground Floor	Cum	78.900	0.000	0.000		
13	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete Spec. No. : Bd.L.4 Page 1 No. 368. SSR I.No.32.03, Sr.No.957, P.No.209						
	Ground Floor	Sqm	484.47	0.0000	0.000	-	-

Name of Work :- Construction of Cleaning/grading/sorting & Cattle feed making Shed for Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq. Aurangabad, Dist. Aurangabad.

LEAD CHART

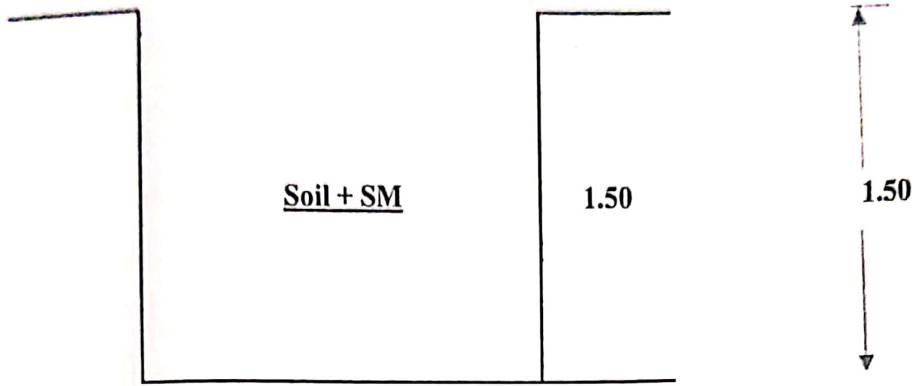
Sr.No	Material	Total Lead in km	Pay Load Factor	Rate per Trip	Net Lead Charges/Trip	Remarks
1	Stone/Rubble	16.00	4.70	2450.57	521.40	Sawangi Quarry
2	60 mm & 40 mm metal	16.00	6.00	2450.57	408.43	Sawangi Quarry
3	Metal Below 40 mm	16.00	5.75	2450.57	426.19	Sawangi Quarry
4	Bricks	37.00	3.105	5271.42 1 brick	1.700 1697.720	Jatwada Village
5	Sand	30.00	5.75	3562.45	619.56	Girija River
6	Murum	3.00	6.00	1319.89	219.98	Local
7	Cement	22.00	10.00	3741.72	374.17	Phulambri
8	Steel	22.00	10.00	3741.72	374.17	Phulambri



JV STRUCTURAL
ENGINEERS AND CONSULTANT
AURANGABAD

ame of Work :- Construction of Cleaning/grading/sorting & Cattle feed making Shed
for Garmadhar Farmer Producer Company Ltd. at H.no. 154 Donwada Tq.
Aurangabad, Dist. Aurangabad.

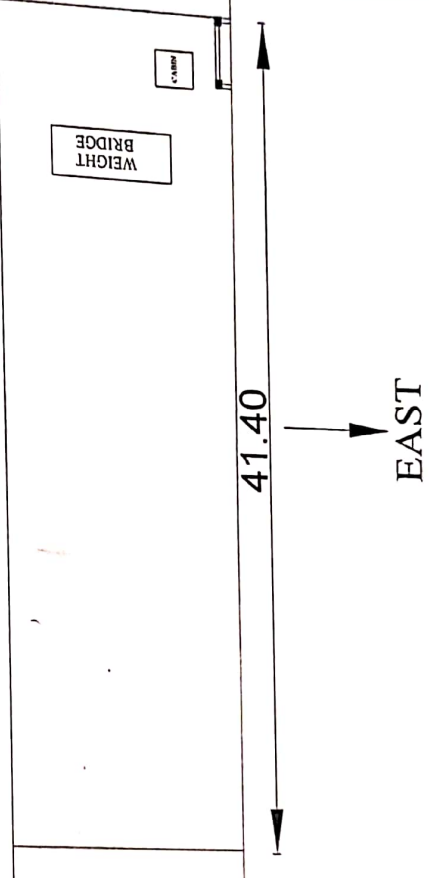
TRIAL PIT FOR FOUNDATION



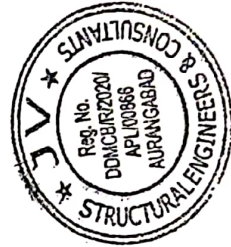
**JV STRUCTURAL
ENGINEERS AND CONSULTANT
AURANGABAD**

↑
WEST

--- LADSAWANGI TO CHAUKA ROAD ---



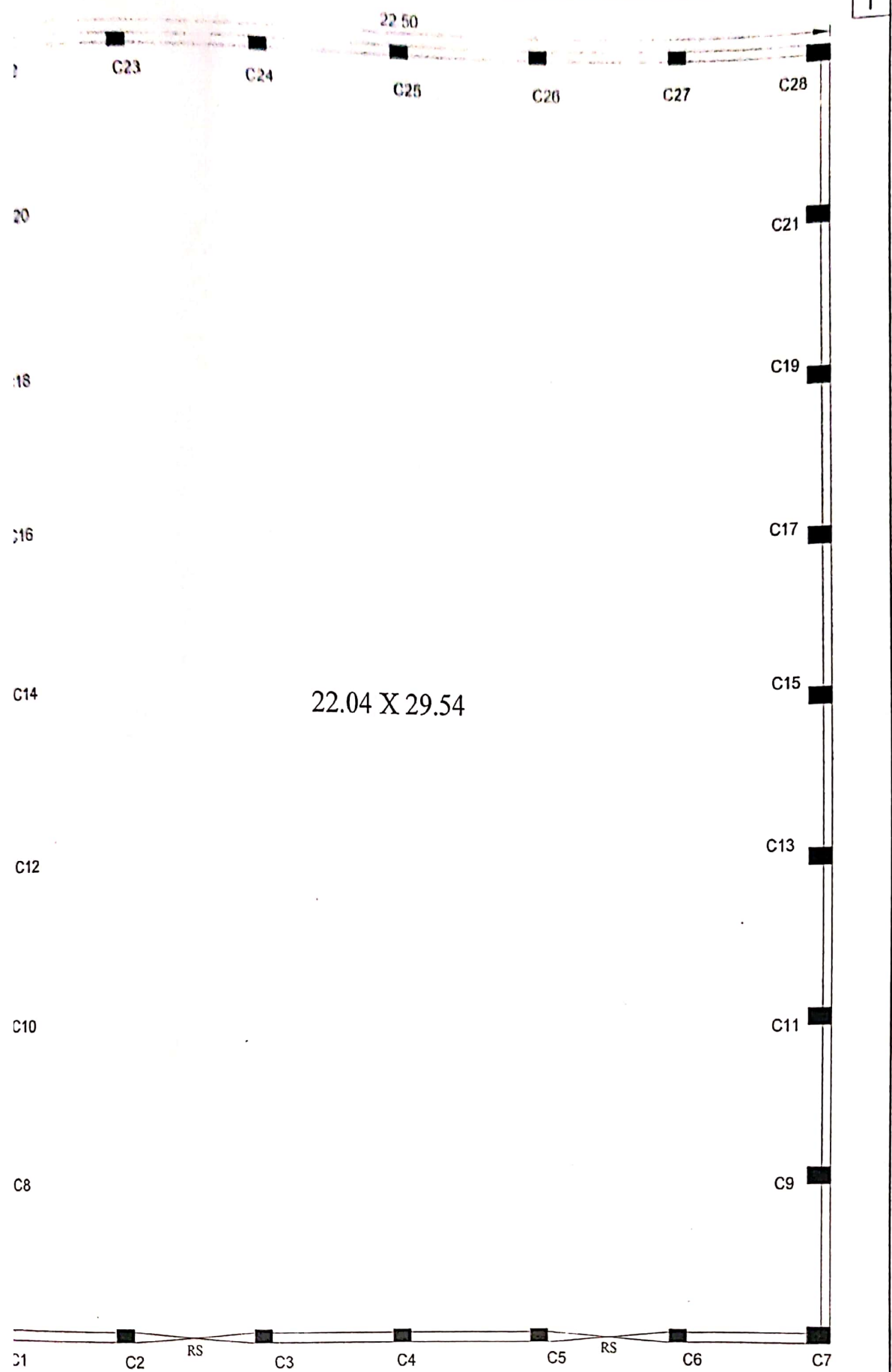
PLOT AREA = 40091 SQ.FT
BUILTUP AREA = 6367 SQ.FT
HALL = 5120 SQ.FT
DRYING YARD = 1247 SQ.FT



LAYOUT PLAN

NAME OF WORK - CONSTRUCTION OF CLEANING, GRADING, SORTING & CATTLE FEED MAKING SHED FOR GARMADHAR FARMER PRODUCER COMPANY LTD. AT H.NO. 154, DONWADA TO AURANGABAD, DIST. AURANGABAD.

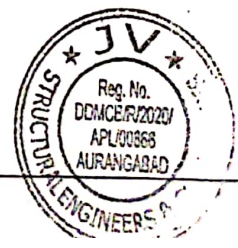
JV Structural Engineers & Consultants
OFFICE - Plot 311/P, Opp. Patel Jansar College, Hussain Nagar, Road By. Para, Aurangabad.
Mobile - 942523563, 9870071796.
Email - jvstructuralengineers@gmail.com
EMPANELLED IN REGION AURANGABAD AS A STRUCTURAL ENGINEER WITH C.E. LTR NO. CE A 7-662 OF DT. 11-08-2019



22.04 X 29.54

22.50

PLAN

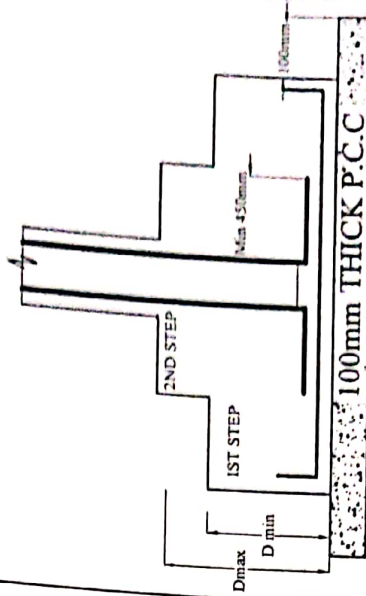


COLUMN NUMBERS	C1, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C28	C2, C3, C4, C5, C6, C23, C24, C25, C26, C27
FOOTING TO ROOF SLAB	380 X 600	300 X 450



SCHEDULE OF FOOTINGS (SBC CONSIDERED 300KN/SQM)

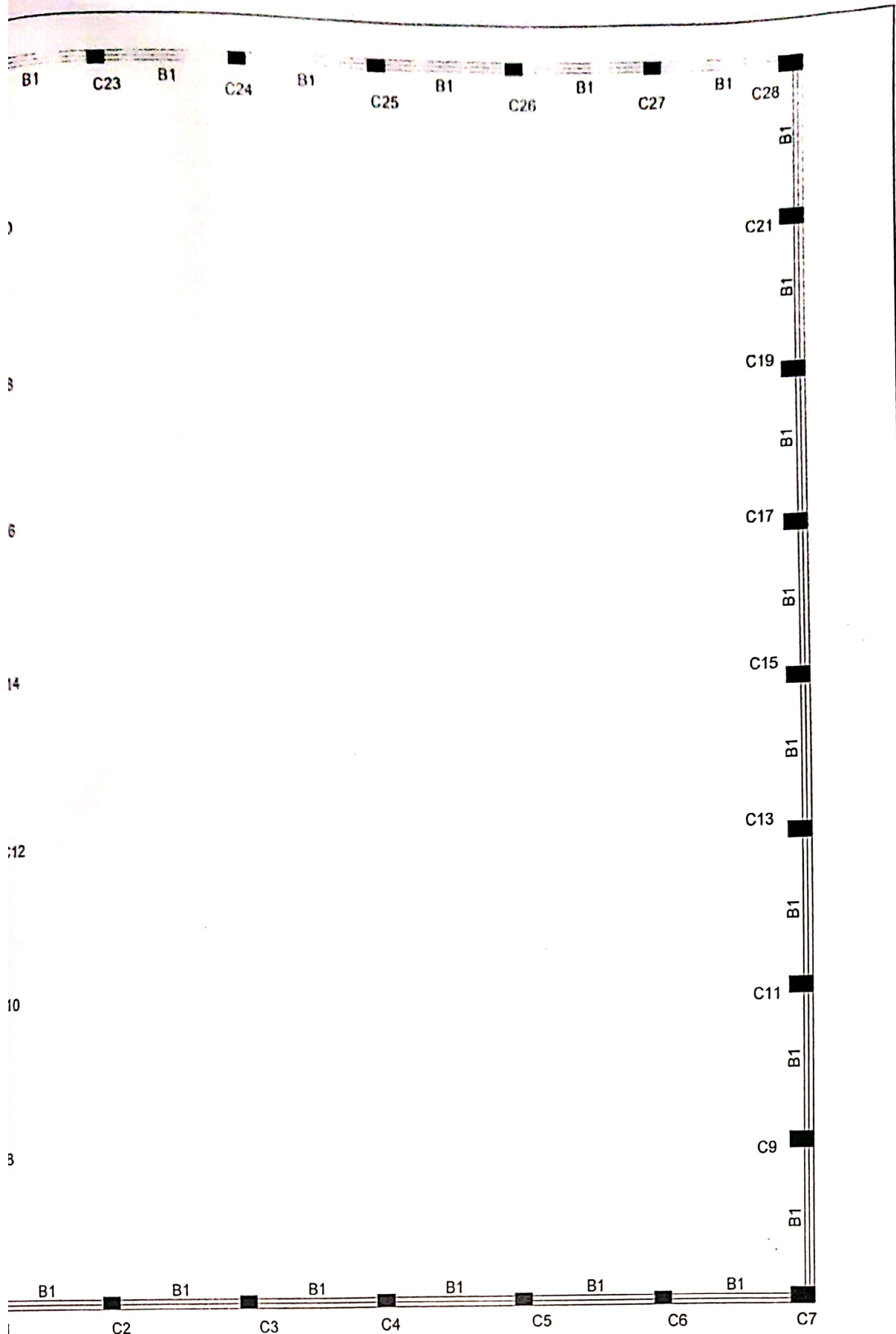
COLUMN NUMBERS	C1, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C28		C2, C3, C4, C5, C6, C23, C24, C25, C26, C27
DEPTH OF FOOTING	Dmax	530	450
	Dmin	265	225
SIZE OF FOOTING (B X L)	1ST STEP	1200 X 1800	1200 X 1500
	2ND STEP	800 X 1400	800 X 1100
SIZE OF P.C.C		1500 X 2100	1500 X 1800



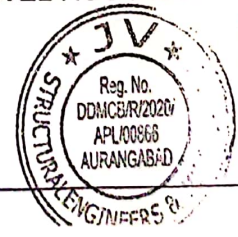
COLUMN FOOTING SCHEDULE

NAME OF WORK - CONSTRUCTION OF CLEANING GRADING SORTING & CATTLE FEED MAKING SHED FOR GARMADHAR FARMER PRODUCER COMPANY LTD. AT H.NO. 154 DONWADA TQ. AURANGABAD, DIST. AURANGABAD

JV Structural Engineers & Consultants
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 Mobile: 9420228653, 9623271796.
 Email: jvstructural@rediffmail.com
 IMPANMENT ON PWD REGULATIONS AS A STRUCTURAL DESIGNER UNDER C.E. 178/M.E. 01.03.07.02 OF 17.11.08-2019



GROUND LEVEL RCC PLAN



BEAMS AT GL/PL LEVEL
 B1 - 230 X 450

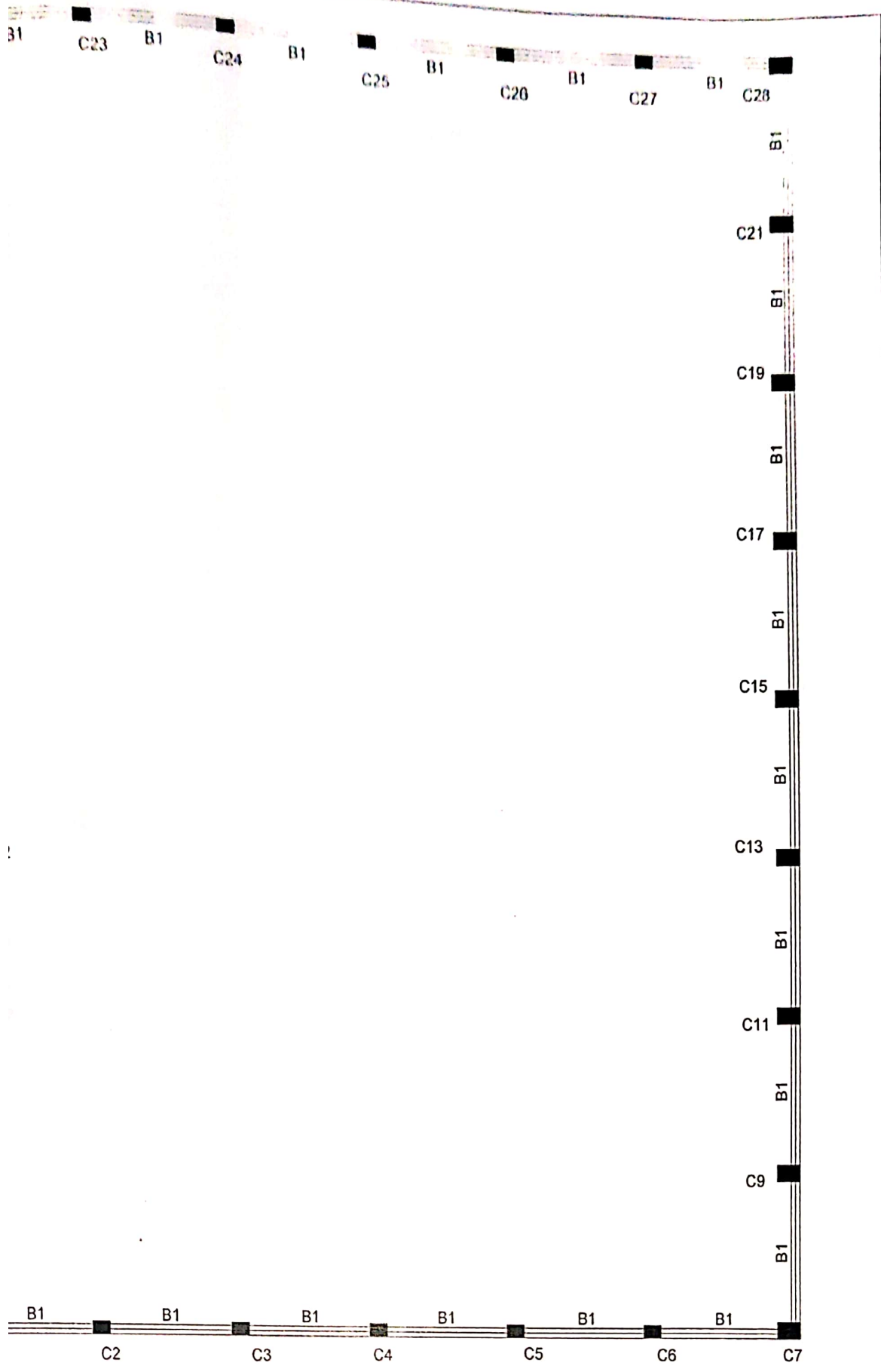
GROUND LEVEL RCC PLAN

NAME OF WORK - CONSTRUCTION OF
 CLEANING/GRADING/SORTING & CATTLE FEED MAKING SHED
 FOR GARMADHAR FARMER PRODUCER COMPANY LTD. AT HNO
 154 DONWADA TO AURANGABAD DIST. AURANGABAD

JV Structural Engineers & Consultants

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EMPANELLED BY M.P.C. AURANGABAD DISTRICT MUNICIPALITY, AURANGABAD
 DISTRICT MUNICIPALITY, AURANGABAD DISTRICT MUNICIPALITY, AURANGABAD



TEL LEVEL RCC PLAN

LINTEL LEVEL RCC PLAN

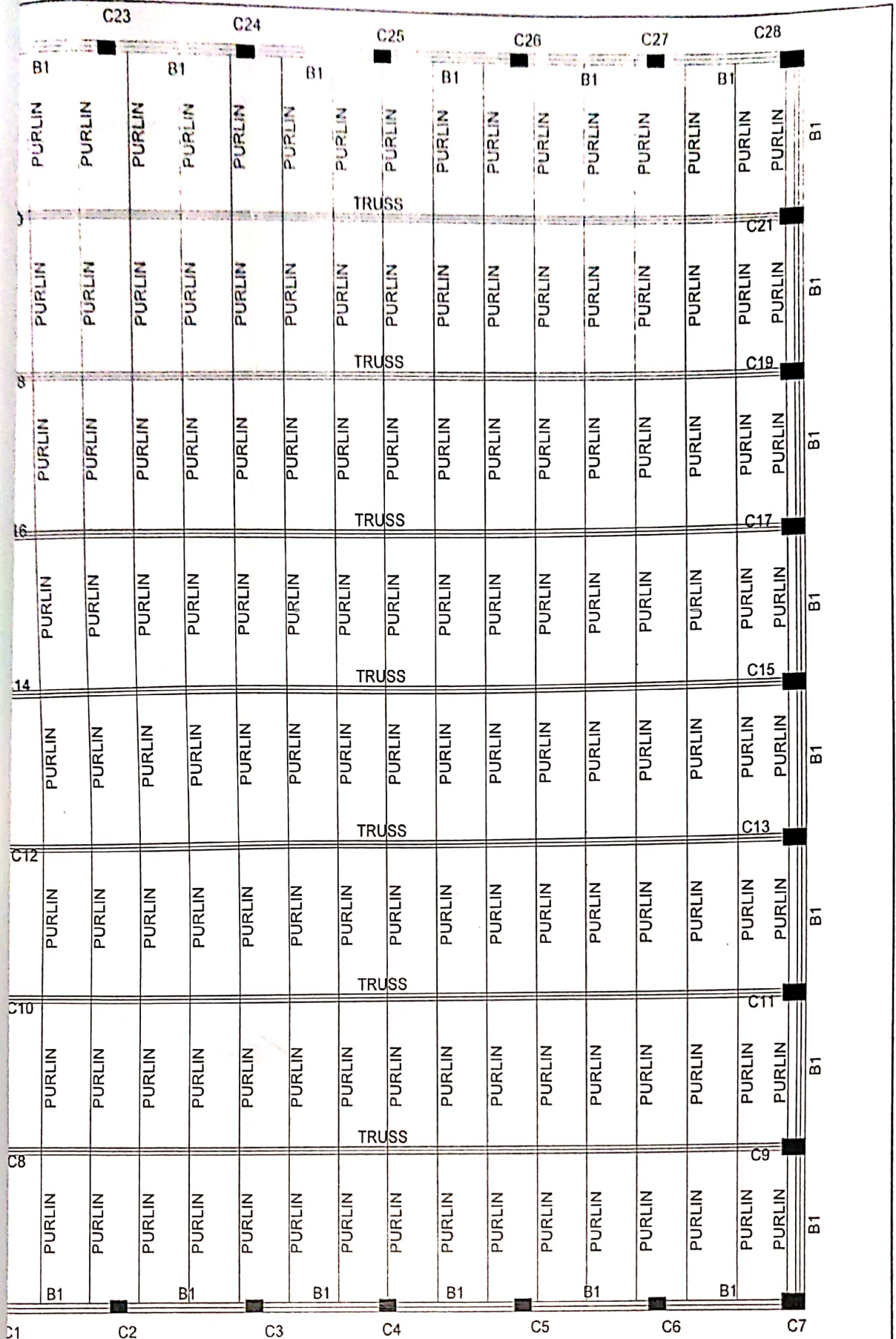
NAME OF WORK - CONSTRUCTION OF
 CLEANING/GRADING/SORTING & CATTLE FEED MAKING SHED
 FOR GARMADHAR FARMER PRODUCER COMPANY LTD. AT H.NO.
 154 DONWADA TO AURANGABAD DIST. AURANGABAD



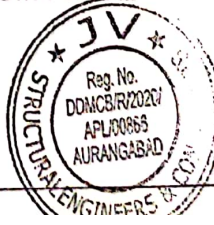
BEAMS AT LINTEL LEVEL
 B1 - 230 X 450



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 REGISTERED PROFESSIONAL ENGINEERS IN STRUCTURAL
 ENGINEERING (REG. NO. 12750) BOARD OF ENGINEERS, AURANGABAD



TRUSS BOTTOM PLAN



BEAMS AT GL/PL LEVEL
 B1 - 230 X 450

TRUSS BOTTOM PLAN

NAME OF WORK :-CONSTRUCTION OF
 CLEANING/GRADING/SORTING & CATTLE FEED MAKING SHED
 FOR GARMADHAR FARMER PRODUCER COMPANY LTD. AT H NO
 151 DONWADA TO AURANGABAD DIST. AURANGABAD.

JV Structural Engineers & Consultants

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