

**DETAILED ESTIMATE FOR PROPOSED "CONSTRUCTION OF CHELIGADA  
CORN CLUSTER" AT CHELIGADA VILLAGE, BLOCK :- R.UDAYAGIRI,DIST :-  
GAJAPATI, (ODISHA)**

**GROUND FLOOR**

**1 Earth work in hard soil in excavation of foundation trenches within 50 m. initial lead and 1.5 m.initial lift including all**

costs of labour materials required for the work etc complete and as per direction of Engineer-in-charge.

Length of wall	=	1	×	727'-9"	×	3'-0"	×	3'-6"	=	7,641.38	Cft.	
Column(C1)	=	16	×	4'-0"	×	4'-0"	×	5'-6"	=	1,408.00	Cft.	
Column(C2)	=	28	×	5'-0"	×	5'-0"	×	5'-6"	=	3,850.00	Cft.	
Add 1 % for steps	=		×	7641.38	×	0.01			=	76.41	Cft.	
									Total	=	12,975.79	Cft.
=		<b>367.47</b>		<b>Cum</b>		<b>@</b>		<b>Rs.</b>		<b>162.11</b>		
									<b>Rs.</b>		<b>59571.27</b>	

**2 Filling foundation and plinth with sand well waterd and rammed incl. cost of all complete.**

Length of wall	=	1	×	727'-9"	×	3'-0"	×	0'-6"	=	1,091.63	Cft.	
Column(C1)	=	16	×	4'-0"	×	4'-0"	×	0'-6"	=	128.00	Cft.	
Column(C2)	=	28	×	5'-0"	×	5'-0"	×	0'-6"	=	350.00	Cft.	
Filling sides of foundation	=			1/3 of the foundation trench								
				12,975.79	Cft.			×	1/3		4,325.26	Cft.

**Filling pockets of room**

Finished product shed	=	1	×	28'-6"	×	43'-6"	×	2'-0"	=	2,479.50	Cft.	
Raw material shed	=	1	×	28'-6"	×	53'-6"	×	2'-0"	=	3,049.50	Cft.	
Cessing shed	=	1	×	48'-6"	×	89'-9"	×	2'-0"	=	8,705.75	Cft.	
Cessing shed	=	1	×	27'-0"	×	8'-9"	×	2'-0"	=	472.50	Cft.	
Hall	=	1	×	8'-6"	×	42'-9"	×	2'-0"	=	726.75	Cft.	
Staff room	=	1	×	21'-3"	×	9'-3"	×	2'-0"	=	393.13	Cft.	
Computer lab and MD's Room	=	2	×	10'-0"	×	8'-0"	×	2'-0"	=	320.00	Cft.	
Toilet	=	2	×	10'-0"	×	8'-0"	×	2'-0"	=	320.00	Cft.	
Toilet	=	1		6'-0"		9'-3"		2'-0"	=	111.00		
Toilet	=	1	×	6'-0"	×	8'-6"	×	2'-0"	=	102.00	Cft.	
Ramp	=	3	×	10'-0"	×	10'-0"	×	1'-0"	=	300.00	Cft.	
Steps	=	1	×	8'-0"	×	4'-0"	×	0'-6"	=	16.00	Cft.	
									Total	=	22,891.02	Cft.

= **648.27** **Cum** **@** **Rs.** **576.78** = **Rs.** **373911.35**

**3 Cement concrete (1:3:6) with 4 cm. Down grade size hand broken hard granite metal laying in 150/100mm thick ramming, compacting to proper thickness.,watering, curing. Incl. cost of all complete.**

Length of wall	=	1	×	727'-9"	×	3'-0"	×	0'-9"	=	1,637.44	Cft.	
Column(C1)	=	16	×	4'-0"	×	4'-0"	×	0'-9"	=	192.00	Cft.	
Column(C2)	=	28	×	5'-0"	×	5'-0"	×	0'-9"	=	525.00	Cft.	
Finished product shed	=	1	×	28'-6"	×	43'-6"	×	0'-9"	=	929.81	Cft.	
Raw material shed	=	1	×	28'-6"	×	53'-6"	×	0'-9"	=	1,143.56	Cft.	
Cessing shed	=	1	×	48'-6"	×	89'-9"	×	0'-9"	=	3,264.66	Cft.	
Cessing shed	=	1	×	27'-0"	×	8'-9"	×	0'-9"	=	177.19	Cft.	
Hall	=	1	×	8'-6"	×	42'-9"	×	0'-9"	=	272.53	Cft.	
Staff room	=	1	×	21'-3"	×	9'-3"	×	0'-9"	=	147.42	Cft.	
Computer lab and MD's Room	=	2	×	10'-0"	×	8'-0"	×	0'-9"	=	120.00	Cft.	
Toilet	=	2	×	10'-0"	×	8'-0"	×	0'-9"	=	120.00	Cft.	
Toilet	=	1	×	6'-0"	×	9'-3"	×	0'-9"	=	41.63	Cft.	
Toilet	=	1	×	6'-0"	×	8'-6"	×	0'-9"	=	38.25	Cft.	
Ramp	=	3	×	10'-0"	×	10'-0"	×	0'-9"	=	225.00	Cft.	
Steps	=	1	×	8'-0"	×	4'-0"	×	0'-9"	=	24.00	Cft.	
									Total	=	8,858.49	Cft.

= **250.70** **Cum** **@** **Rs.** **4,081.10** = **Rs.** **1023131.77**

  
**Asst. Engineer**  
**Bellagantha Block**

**4 Solid concrete block masonry in cement mortar (1:6) in Foundation and Plinth incl. cost of all complete.**

Length of wall	=	1	×	727'-9"	×	2'-8"	×	2'-6"	=	4,851.67 Cft.	
Length of Wall	=	1	×	727'-9"	×	2'-0"	×	2'-6"	=	3,638.75 Cft.	
									Total	=	8,490.42 Cft.
<b>DEDUCTIONS</b>											
Column(C1)	=	16	×	0'-9"	×	0'-9"	×	5'-6"	=	49.50 Cft.	
Column(C2)	=	28	×	2'-0"	×	1'-3"	×	5'-6"	=	385.00 Cft.	
									Total	=	434.50 Cft.
										=	8,055.92 Cft.

Net Quantity:-

=	228.14	Cum	@	Rs.	4,311.53	=	Rs.	983632.45
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**5 Brick work with Fly ash Bricks in cement mortar (1:6) in super structure having crushing strength not less than 75.00**

kg/cm2 immersing the bricks in water not less than six hours before use in masonry incl. cost of all complete.

Length of wall	=	1	×	727'-9"	×	0'-9"	×	10'-6"	=	5,731.03 Cft.	
Ramp	=	6	×	10'-0"	×	0'-9"	×	1'-0"	=	45.00 Cft.	
Steps	=	1	×	8'-0"	×	1'-3"	×	0'-9"	=	7.50 Cft.	
Steps	=	1	×	8'-0"	×	1'-3"	×	0'-6"	=	5.00 Cft.	
Steps	=	1	×	8'-0"	×	1'-3"	×	0'-6"	=	5.00 Cft.	
									Total	=	5,793.53 Cft.

**DEDUCTIONS**

**(A Doors & Windows**

Door D	=	3	×	3'-6"	×	7'-0"	=	73.50 Sft.			
Door D1	=	4	×	2'-3"	×	7'-0"	=	63.00 Sft.			
Door D2	=	1	×	4'-0"	×	7'-0"	=	28.00 Sft.			
Collapsible gate	=	1	×	8'-0"	×	9'-0"	=	72.00 Sft.			
Rolling shutter	=	2	×	8'-0"	×	9'-0"	=	144.00 Sft.			
Window W	=	6	×	4'-0"	×	4'-0"	=	96.00 Sft.			
Vent opening	=	0.5	×	48'-6"	×	1'-0"	=	24.25 Sft.			
Vent opening	=	1	×	60'-0"	×	1'-6"	=	90.00 Sft.			
Vent. Opening (Toilet)	=	4	×	2'-0"	×	1'-6"	=	12.00 Sft.			
Vent. opening.(sky light)	=	22	×	2'-0"	×	1'-0"	=	44.00 Sft.			
									Total	=	646.75 Sft.
=	646.75	×	0'-9"	=	485.06 Cft.						

**(B Lintel**

Continuous Lintel 9" wall	=	1	×	727'-9"	×	0'-6"	=	363.88 Sft.			
									Total	=	363.88 Sft.
=	363.88 Sft.	×	0'-6"	=	181.94 Cft.						
Net deduction		485.06	+	181.94	=	667.00 Cft.					

Net brick work in superstructure =

	5,793.53	-	667.00	=	5,126.53 Cft.			
=	145.18	Cum	@	Rs.	4,283.43	=	Rs.	621868.37

**6 Reinforced cement concrete (1:1.5:3) with 12 mm size black hard crusher broken granite chips including hosting and laying in position compacting to proper design section but excluding cost of tor steel rod and labour charges for cutting, bending, binding etc.complete.**

Lintel	=	1	×	727'-9"	×	0'-9"	×	0'-6"	=	272.91 Cft.
GradeBeam(GB1)	=	1	×	220'-0"	×	0'-9"	×	1'-0"	=	165.00 Cft.
GradeBeam(GB2)	=	1	×	883'-0"	×	1'-3"	×	1'-0"	=	1,103.75 Cft.
Column Base(C1)	=	16	×	4'-0"	×	4'-0"	×	1'-6"	=	384.00 Cft.
Column Base(C2)	=	28	×	5'-0"	×	5'-0"	×	1'-6"	=	1,050.00 Cft.
Column(C1)	=	16	×	0'-9"	×	0'-9"	×	18'-0"	=	162.00 Cft.
Column(C2)	=	28	×	1'-3"	×	2'-0"	×	18'-0"	=	1,260.00 Cft.
Wall Beam	=	1	×	727'-9"	×	0'-9"	×	0'-9"	=	409.36 Cft.
Roof Beam (RB1)	=	4	×	9'-3"	×	0'-9"	×	0'-9"	=	20.81 Cft.
Roof Beam (RB1)	=	4	×	8'-6"	×	0'-9"	×	0'-9"	=	19.13 Cft.
Roof Beam (RB2)	=	4	×	28'-6"	×	1'-3"	×	1'-6"	=	213.75 Cft.
Roof Beam (RB2)	=	4	×	46'-6"	×	1'-3"	×	1'-6"	=	348.75 Cft.
Chajja	=	6	×	5'-6"	×	2'-0"	×	0'-2.5"	=	13.75 Cft.
Chajja	=	3	×	3'-0"	×	1'-6"	×	0'-2.5"	=	2.81 Cft.
Chajja	=	1	×	6'-0"	×	2'-0"	×	0'-2.5"	=	2.50 Cft.

  
**Asst. Engineer**  
**Bellagumtha Block**

Chajja	=	1	×	12'-0"	×	2'-0"	×	0'-2.5"	=	5.00 Cft.
Chajja	=	2	×	10'-0"	×	2'-0"	×	0'-2.5"	=	8.33 Cft.
Roof Slab	=	1	×	51'-0"	×	21'-0"	×	0'-5"	=	446.25 Cft.
Roof Slab	=	1	×	30'-6"	×	46'-0"	×	0'-5"	=	584.58 Cft.
Roof Slab	=	1	×	31'-0"	×	56'-0"	×	0'-5"	=	723.33 Cft.
Roof slab	=	1	×	22'-3"	×	9'-6"	×	0'-3"	=	52.84 Cft.
									Total	= 7,248.85 Cft.

= 205.29 Cum @ Rs. 6,255.31 = Rs. 1284152.59

7 Cutting, bending, binding and tying the grills and placing in position of steel reinforcement incl. cost of all labour, material etc. all complete.

(a) Ground Floor(Lintel)	=	1541.66 Cft	@	2.00 Kg /Cft	=	3,083.32 Kg
Beam & Column	=	3,867.80 Cft	@	4.50 Kg /Cft	=	17,405.10 Kg
Roof Slab	=	1839.39 Cft	@	2.10 Kg /Cft	=	3,862.72 Kg
					Total	= 24,351.14 Kg

= 243.51 Qntl. @ Rs. 6,599.80 = Rs. 1607117.30

8 Rigid and smooth centering and shuttering for R.C.C. work including false works and dismantling then after casting etc. complete.

Lintel	=	2	×	727'-9"	×	0'-6"	=	727.75 Sft.
							Total	= 727.75 Sft.

= 67.61 Sqm @ Rs. 226.67 = Rs. 15325.16

GradeBeam(GB1)	=	2	×	220'-0"	×	1'-0"	=	440.00 Sft.
GradeBeam(GB2)	=	2	×	883'-0"	×	1'-0"	=	1,766.00 Sft.
							Total	= 2,206.00 Sft.

= 204.94 Sqm @ Rs. 91.06 = Rs. 18661.84

(A)Roof Slab

Finished product shed	=	1	×	28'-6"	×	43'-6"	=	1,239.75 Sft.
Raw material shed	=	1	×	28'-6"	×	53'-6"	=	1,524.75 Sft.
Cessing shed	=	1	×	48'-6"	×	89'-9"	=	4,352.88 Sft.
Cessing shed	=	1	×	27'-0"	×	8'-9"	=	236.25 Sft.
Hall	=	1	×	8'-6"	×	42'-9"	=	363.38 Sft.
Staff room	=	1	×	21'-3"	×	9'-3"	=	196.56 Sft.
Computer lab and MD's Room	=	2	×	10'-0"	×	8'-0"	=	160.00 Sft.
Toilet	=	2	×	10'-0"	×	8'-0"	=	160.00 Sft.
Toilet	=	1	×	6'-0"	×	9'-3"	=	55.50 Sft.
Toilet	=	1	×	6'-0"	×	8'-6"	=	51.00 Sft.
Chajja	=	6	×	5'-6"	×	2'-0"	=	66.00 Sft.
Chajja	=	3	×	3'-0"	×	1'-6"	=	13.50 Sft.
Chajja	=	1	×	6'-0"	×	2'-0"	=	12.00 Sft.
Chajja	=	1	×	12'-0"	×	2'-0"	=	24.00 Sft.
Chajja	=	2	×	10'-0"	×	2'-0"	=	40.00 Sft.
Cornice	=	1	×	408'-0"	×	0'-6"	=	204.00 Sft.
							Total	= 8,699.57 Sft.

808.19 Sqm @ Rs. 364.44 = Rs. 294,536.76

(A)Beams

Wall Beam	=	2	×	727'-9"	×	0'-9"	=	1091.63 Sft.
Roof Beam (RB1)	=	8	×	9'-3"	×	0'-9"	=	55.50 Sft.

Roof Beam (RB2)	=	8	×	28'-6"	×	1'-6"	=	342.00 Sft.
Roof Beam (RB2)	=	8	×	46'-6"	×	1'-6"	=	558.00 Sft.
							Total	= 2047.13 Sft.

(B)Columns

Column(C1)	=	16	×	3'-0"	×	18'-0"	=	864.00 Sft.
Column(C2)	=	28	×	4'-6"	×	18'-0"	=	2268.00 Sft.
							Total	= 3132.00 Sft.

Total (A)+(B) = 5179.13 Sft.

= 481.14 Sqm @ Rs. 624.44 = Rs. 300443.06

  
**Asst. Engineer**  
**Bellagumtha Block**

- 9 16 mm thick cement Plaster (1:6) over brick work including racking out joints finishing smooth with proper plumb and line watering curing for seven days.

Length of wall	=	1	×	727'-9"	×	12'-0"	=	8,733.00	Sft.
<b>Deduction:</b>								Total	= 8,733.00 Sft.
1/2 X Item 5(A)							=	242.53	Sft.
Net							=	8,490.47	Sft.
=	788.76	Sqm	@	Rs.	177.97	=	Rs.	140375.62	

- 10 12 mm thick cement Plaster (1:6) over brick work including racking out joints finishing smooth with proper plumb and line watering curing, etc complete.

A) 16 mm Plaster Area							=	8,490.47	Sft.
B) Plinth Plaster	=	1	×	460'-0"	×	3'-6"	=	1,610.00	Sft.
							Total	= 10,100.47	Sft.
=	938.33	Sqm.	@	Rs.	126.30	=	Rs.	118511.08	

- 11 1" thick grading Plaster or concrete over Roof incl. cost of all complete.

Roof Slab	=	1	×	51'-0"	×	21'-0"	=	1,071.00	Sft.
Roof Slab	=	1	×	30'-6"	×	46'-0"	=	1,403.00	Sft.
Roof Slab	=	1	×	31'-0"	×	56'-0"	=	1,736.00	Sft.
Roof slab	=	1	×	22'-3"	×	9'-6"	=	211.38	Sft.
							Total	= 4,421.38	Sft.
=	410.75	Sqm	@	Rs.	283.00	=	Rs.	116242.25	

- 12 Cement paint two coats over a coat of Cement wash to new surface of wall etc complete.(Only labour)


16 mm plaster area(1:6)							=	8,490.47	Sft.
12 mm plaster area (1:6)							=	10,100.47	Sft.
Centering area of roof slab							=	8,699.57	Sft.
							Total	= 27,290.51	Sft.
=	2535.29	Sqm	@	Rs.	32.34	=	Rs.	81991.28	

- 13 Painting two coats of enamel paint over a coat of priming complete.

Door D	=	3	×	3'-6"	×	7'-0"	=	73.50	Sft.
Door D1	=	4	×	2'-3"	×	7'-0"	=	63.00	Sft.
Door D2	=	1	×	4'-0"	×	7'-0"	=	28.00	Sft.
Collapsible gate	=	1	×	8'-0"	×	9'-0"	=	72.00	Sft.
Rolling shutter	=	2	×	8'-0"	×	9'-0"	=	144.00	Sft.
Window W	=	6	×	4'-0"	×	4'-0"	=	96.00	Sft.
Vent opening	=	1	×	48'-6"	×	1'-0"	=	24.25	Sft.
Vent opening	=	1	×	60'-0"	×	1'-6"	=	90.00	Sft.
Vent. Opening (Toilet)	=	4	×	2'-0"	×	1'-6"	=	12.00	Sft.
Vent. opening.(sky light)	=	22	×	2'-0"	×	1'-0"	=	44.00	Sft.
							Total	= 646.75	Sft.
			@	2.5 of Grill area			=	1,616.88	Sft.
							G.Total	= 1,616.88	Sft.
=	150.21	Sqm	@	Rs.	173.99	=	Rs.	26135.04	

- 14 Providing , laying of vitrified tiles in floor over C.M. (1:3) with neat white cement joint incl. cost of all labour , material ,T&P etc. all complete.

Hall	=	1	×	8'-6"	×	42'-9"	=	363.38	Sft.
Staff room	=	1	×	21'-3"	×	9'-3"	=	196.56	Sft.
Computer lab and MD's Room	=	2	×	10'-0"	×	8'-0"	=	160.00	Sft.
Dado	=	1	×	102'-6"	×	0'-8"	=	68.33	Sft.
							Total	= 788.27	Sft.
	73.23	Sqm.	@	Rs.	1,285.34	=	Rs.	94125.45	

  
Asst. Engineer  
Bellaguntha Block

15 Providing , laying of kota stone in floor over C.M. (1:3) with neat white cement joint incl. cost of all labour , material ,T&P etc. all complete.

Finished product shed	=	1	×	28'-6"	×	43'-6"	=	1239.75	Sft.
Raw material shed	=	1	×	28'-6"	×	53'-6"	=	1524.75	Sft.
Cessing shed	=	1	×	48'-6"	×	89'-9"	=	4352.88	Sft.
Cessing shed	=	1	×	27'-0"	×	8'-9"	=	236.25	Sft.
								Total =	7353.63 Sft.

683.15 Sqm. @ Rs. 1,080.34 = Rs. 738034.27

16 Providing , laying of chequered tile in floor over C.M. (1:3) with neat white cement joint incl. cost of all labour , material ,T&P etc. all complete.

Ramp	=	3	×	10'-0"	×	10'-0"	=	300.00	Sft.
Steps	=	1	×	8'-0"	×	4'-0"	=	32.00	Sft.
								Total =	332.00 Sft.

30.84 Sqm. @ Rs. 897.34 = Rs. 27673.97

17 Providing , laying of ceramic tiles in floor over C.M. (1:3) with neat white cement joint incl. cost of all labour , material ,T&P etc. all complete.

Toilet	=	2	×	10'-0"	×	8'-0"	=	160.00	Sft.
Toilet	=	1	×	6'-0"	×	9'-3"	=	55.50	Sft.
Toilet	=	1	×	6'-0"	×	8'-6"	=	51.00	Sft.
Toilet Wall	=	2	×	34'-0"	×	6'-0"	=	408.00	Sft.
Toilet Wall	=	1	×	28'-6"	×	6'-0"	=	171.00	Sft.
Toilet Wall	=	1	×	27'-0"	×	6'-0"	=	162.00	Sft.
								Total =	1007.50 Sft.

93.6 Sqm. @ Rs. 1,080.34 = Rs. 101119.82

18 Providing , supplying and fixing of G.C.I. /asbestos sgeet for roofing with all iron fixtures including cost of all labour , materials , T & P etc. all complete.

Cessing shed	=	1	×	100'-0"	×	54'-0"	=	5400.00	Sft.
								Total =	5400.00 Sft.

501.66 Sqm. @ Rs. 431.76 = Rs. 216596.72

19 Providing and fixing M.S. grills with shutter for door & window etc. complete.

Door D	=	3	×	3'-6"	×	7'-0"	=	73.50	Sft.
Door D1	=	4	×	2'-3"	×	7'-0"	=	63.00	Sft.
Door D2	=	1	×	4'-0"	×	7'-0"	=	28.00	Sft.
Collapsible gate	=	1	×	8'-0"	×	9'-0"	=	72.00	Sft.
Rolling shutter	=	2	×	8'-0"	×	9'-0"	=	144.00	Sft.
Window W	=	6	×	4'-0"	×	4'-0"	=	96.00	Sft.
Vent opening	=	0.5	×	48'-6"	×	1'-0"	=	24.25	Sft.
Vent opening	=	1	×	60'-0"	×	1'-6"	=	90.00	Sft.
Vent. Opening (Toilet)	=	4	×	2'-0"	×	1'-6"	=	12.00	Sft.
Vent. opening. (sky light)	=	22	×	2'-0"	×	1'-0"	=	44.00	Sft.
								Total =	646.75 Sft.

3233.75 @ 5 kg/ Sft. = 3233.75 Kg. @ Rs. 85.46 = Rs. 276356.28

20 Add for sanitary work with supplying of all reqd. sanitary items and water supply etc. for the toilet room etc.

1 No. @ Rs. 150,000.00 = Rs. 150000.00


21 Add for site development works in lumsump basis.(Cost will be given as per actual)

1 No. @ Rs. 130,500.00 = Rs. 130500.00

Total = Rs. 8800013.69

Or Limited to Rs.88,00,000/-

*on request*

  
Asst. Engineer  
Bellaguntha Block