

Detailed Estimate

OD/366/3515/275423/427528/00065610 : Construction of VSS Building Kadamali of Ichhapur GP

Block : Jhorigam, Gram Panchayat : Ichhapur

Created By: Sri Kranti Kumar Pattanayak

1. Earth Work (AR0102aa) : Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift								
Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per the direction of the Engineer-in-charge								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Collomn	9.000	1.200	1.200	1.200	1.000	15.552	-
ii	L/wall	3.000	6.830	0.600	0.450	1.000	5.532	-
iii	S/wall	2.000	5.860	0.600	0.450	1.000	3.164	-
iv	Septic Tank	1.000	4.000	2.000	1.500	1.000	12.000	-
v	collomn	9.000	1.200	0.600	0.450	1.000	-	2.916
Total Quantity					33.3327 cum (cum)		33.3327 Cum (Cubic Meter)	
Amount					33.3327 X 240.77592		8025.71	
2. Earth Work (AR0115) : Filling foundation and plinth with sand well watered and rammed								
Filling foundation and plinth with sand well watered and rammed including cost, conveyance, royalty, taxes of all materials, labours and T & P required for the work etc. complete and as per direction of Engineer-in charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Collomn	9.000	1.200	1.200	0.100	1.000	1.296	-
ii	L/wall	3.000	6.830	0.600	0.100	1.000	1.229	-
iii	S/wall	2.000	5.860	0.600	0.100	1.000	0.703	-
iv	S. tank	1.000	4.000	2.000	0.100	1.000	0.800	-
v	Meeting hall	1.000	6.000	3.500	0.600	1.000	12.600	-

vi	Offic	1.000	4.250	2.500	0.600	1.000	6.375	-	
vii	Toilet	1.000	1.520	2.500	0.600	1.000	2.280	-	
viii	Collomn	9.000	1.200	0.600	0.100	1.000	-	0.648	
Total Quantity					24.6356 cum (cum)		24.6356 Cum (Cubic Meter)		
Amount					24.6356 X 693.034932		17073.33		

3. Concrete (AR0303) : Cement concrete (1:3:6) with 4 cm. Crusher Broken hard granite metal

Cement concrete (1:3:6) with 4 cm. hard granite(Crusher Broken) metal including laying in layers not exceeding 300 mm in depth, ramming, compacting to proper thickness, watering and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete and as per direction of Engineer-in charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction	
i	Collomn Bed	9.000	1.200	1.200	0.150	1.000	1.944	-	
ii	L/wall	3.000	6.830	0.600	0.300	1.000	3.688	-	
iii	S/wall	2.000	5.860	0.600	0.300	1.000	2.110	-	
iv	Ab.GL L/wall	3.000	6.680	0.450	0.450	1.000	4.058	-	
v	S/wall	2.000	6.010	0.450	0.450	1.000	2.434	-	
vi	S.Tank	1.000	4.000	2.000	0.150	1.000	1.200	-	
vii	Hall	1.000	6.000	3.500	0.100	1.000	2.100	-	
viii	Office	1.000	4.250	2.500	0.100	1.000	1.063	-	
ix	Toilet	1.000	1.520	2.500	0.100	1.000	0.380	-	
x	Collomn	9.000	1.200	0.600	0.300	1.000	-	1.944	
Total Quantity					17.03245 cum (cum)		17.03245 Cum (Cubic Meter)		
Amount					17.03245 X 5438.0287993		92622.95		

4. Concrete (AR0307) : Cement concrete (1:2:4)with 12mm size hard broken granite chips per 1cum

Cement concrete work with (1:2:4) using 12mm size hard granite(crusher broken) chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete as per specificaion and direction of Engineer-in charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	S.Tank	1.000	4.000	2.000	0.100	1.000	0.800	-
ii	Steps	15.000	1.050	0.300	0.150	1.000	0.709	-
Total Quantity					1.50875 cum (cum)		1.50875 Cum (Cubic Meter)	
Amount					1.50875 X 6957.8658711		10497.68	

5. R.C.C. Work (AR0404A) : Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips

Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty,taxes of all materials, labour and T&P required for the work etc. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Collomn Base	9.000	1.200	1.200	0.150	1.000	1.944	-
ii	Footing	9.000	0.600	0.600	0.450	1.000	1.458	-
iii	Collomn upto Pl.	9.000	0.230	0.230	1.050	1.000	0.500	-
iv	Pl to Lintal	9.000	0.230	0.230	2.100	1.000	1.000	-
v	Lintal to beam	9.000	0.230	0.230	0.550	1.000	0.262	-
vi	Plinth	3.000	6.460	0.230	0.230	1.000	1.025	-
vii	S/wall	2.000	6.230	0.230	0.230	1.000	0.659	-
viii	C/wall	1.000	2.500	0.230	0.230	1.000	0.132	-
ix	Lintal	3.000	6.460	0.230	0.150	1.000	0.669	-
x	S/wall	2.000	6.230	0.230	0.150	1.000	0.430	-
xi	C/wall	1.000	2.500	0.230	0.150	1.000	0.086	-

xii	Wall Beam L/wall	3.000	6.460	0.230	0.230	1.000	1.025	-
xiii	S/wall	2.000	6.230	0.230	0.230	1.000	0.659	-
xiv	S. tank	1.000	4.000	2.000	0.100	1.000	0.800	-
xv	Waist slab	1.000	3.750	1.050	0.150	1.000	0.591	-
xvi	Slab	1.000	6.460	6.690	0.100	1.000	4.322	-
Total Quantity					15.561587 cum (cum)		15.561587 Cum (Cubic Meter)	
Amount					15.561587 X 5622.216871681		87490.62	

6. R.C.C. Work (AR0409) : Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position

Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge with cost of steel rod and as per drawing, design, and direction of Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	MS rod	1.000	15.500	0.000	0.000	1.000	15.500	-
Total Quantity					15.5 Qntl (Quintal)		15.5 Qntl (Quintal)	
Amount					15.5 X 8430.7391448		130676.46	

7. R.C.C. Work (AR0410c) : R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc

Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. foundation, plinth band and footings bases of columns mass concrete precast slabs, etc

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	PI L/wall	3.000	6.460	0.000	0.680	2.000	26.357	-
ii	S/wall	2.000	6.000	0.000	0.680	2.000	16.320	-
iii	Collomn footing	9.000	0.600	0.000	0.450	4.000	9.720	-

iv	Upto Pl.	9.000	0.230	0.000	1.050	4.000	8.694	-
Total Quantity					61.0908 Sqm (Sqm)		61.0908 Sqm (Square Meter)	
Amount					61.0908 X 216.55039071844		13229.24	
8. R.C.C. Work (AR0410e) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting								
Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. Lintels Data for 7.8 sqm								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Lintal L/wall	3.000	6.460	0.000	0.150	2.000	5.814	-
ii	S/wall	2.000	6.230	0.000	0.150	2.000	3.738	-
iii	C/wall	1.000	2.500	0.000	0.150	2.000	0.750	-
Total Quantity					10.302 Sqm (Sqm)		10.302 Sqm (Square Meter)	
Amount					10.302 X 500.00130144795		5151.01	
9. R.C.C. Work (AR0410b) : centering and shuttering fRigid and smooth or R.C.C. works including false works and dismantling them after casting								
Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. stairs excluding landing but including railing details for 5 Sqm								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	W.Slab Stire case	1.000	3.750	0.000	1.050	1.000	3.938	-
ii	Steps	15.000	1.050	0.000	0.300	1.000	4.725	-
Total Quantity					8.6625 Sqm (Sqm)		8.6625 Sqm (Square Meter)	
Amount					8.6625 X 919.009696506		7960.92	
10. R.C.C. Work (AR0410d) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting								

Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. beams, column, grider and bressmer, etc. Data for 4.2sqm

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Collomn PL to Lintal	9.000	0.230	0.000	2.100	4.000	17.388	-
ii	Lintal to Beam	9.000	0.230	0.000	0.550	4.000	4.554	-
iii	Wall Beam L/wall	3.000	6.460	0.000	0.230	2.000	8.915	-
iv	S/wall	2.000	6.230	0.000	0.230	2.000	5.732	-
Total Quantity					36.5884 Sqm (Sqm)		36.5884 Sqm (Square Meter)	
Amount					36.5884 X 1048.4253517895		38360.21	

11. R.C.C. Work (AR0410a) : Centring & Shuttering for R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas

Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas up to 4.3m height

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Slab	1.000	6.460	6.690	0.000	1.000	43.217	-
ii	S. Tank	1.000	4.000	2.000	0.000	1.000	8.000	-
Total Quantity					51.2174 Sqm (Sqm)		51.2174 Sqm (Square Meter)	
Amount					51.2174 X 663.90898015022		34003.69	

12. Masonry Brick Work (AR0603di) : C.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) in superstructure

Brickwork with C.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure having crushing strength not less than 75.00 Kg/cm² with dimensional tolerance ±8 percent immersing the bricks in water not less than six hours with cost conveyance, royalty, taxes of all materials, labor, and T&P required for the work, etc. complete and as per direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
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i	L/wall	3.000	6.460	0.230	2.650	1.000	11.812	-
ii	S/wall	2.000	6.230	0.230	2.650	1.000	7.594	-
iii	C/wall	1.000	2.500	0.230	2.650	1.000	1.524	-
iv	S. Tank	2.000	4.000	0.230	1.150	1.000	2.116	-
v	S/wall	2.000	1.540	0.230	1.150	1.000	0.815	-
vi	Parapet wall	2.000	6.500	0.230	0.750	1.000	2.243	-
vii	S/wall	2.000	6.200	0.230	0.750	1.000	2.139	-
viii	Door	1.000	1.100	0.230	2.100	1.000	-	0.531
ix	Door	1.000	0.600	0.230	2.100	1.000	-	0.290
x	Window	4.000	1.200	0.230	1.200	1.000	-	1.325
xi	Collomn	9.000	0.230	0.230	2.650	1.000	-	1.262
Total Quantity					24.834825 cum (cum)		24.834825 Cum (Cubic Meter)	
Amount					24.834825 X 4991.394043		123960.40	
13. Plastering (AR1004) : 12mm thick cement plster (1:6) over Brick work in inside								
12mm thick cement plster (1:6) over Brick work in inside including racking out joints finishing smooth with proper plumb and line curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T & P required for the work etc. comp.and as per direction of Engineer-in-charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	O/side L/wall	2.000	6.460	0.000	3.000	1.000	38.760	-
ii	S/wall	2.000	6.230	0.000	3.000	1.000	37.380	-
iii	Parapet wall	2.000	6.500	0.000	0.750	1.000	9.750	-
iv	S/wall	2.000	6.660	0.000	0.750	1.000	9.990	-
v	Door	1.000	1.100	0.000	2.100	1.000	-	2.310
vi	Door	1.000	0.600	0.000	2.100	1.000	-	1.260

vii	Window	4.000	1.200	0.000	1.200	1.000	-	5.760	
viii	Parapet opening	1.000	1.250	0.000	0.750	1.000	-	0.938	
ix	Septic tank	2.000	4.000	0.000	1.510	1.000	12.080	-	
x	S/wall	2.000	1.540	0.000	1.510	1.000	4.651	-	
Total Quantity					102.3433 Sqm (Sqm)		102.3433 Sqm (Square Meter)		
Amount					102.3433 X 170.317128806		17430.82		

14. Plastering (AR1014) : 16mm thick cement Plaster in CM (1:6) over brick work in inside.

16mm thick cement Plaster in CM (1:6) over brick work in inside including racking out joints finishing smooth with proper plumb and line, curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T & P required for the work etc comp.and as per direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction	
i	Inside Room	2.000	9.500	0.000	3.000	1.000	57.000	-	
ii	Room	2.000	6.750	0.000	3.000	1.000	40.500	-	
iii	Toilet	2.000	4.020	0.000	3.000	1.000	24.120	-	
iv	Door	1.000	1.100	0.000	2.100	1.000	-	2.310	
v	Door	1.000	0.600	0.000	2.100	1.000	-	1.260	
vi	Window	4.000	1.200	0.000	1.200	1.000	-	5.760	
Total Quantity					112.29 Sqm (Sqm)		112.29 Sqm (Square Meter)		
Amount					112.29 X 244.66334031		27473.25		

15. Other Building Items. (AR1901B) : Vitrified Tile 600mmx600mm Plain Ivory

Supplying, fitting & fixing Vitrified Tile 600mmx600mm Plain Ivory in floors of size 600mm x 600 mm of approved make conforming IS:13755 laid on 20 mm thick cement mortar(1:4)and filling joints with white cement of approved quality including cost of all materials, taxes, labour, T&P , etc. required for the work all complete as per direction of Engineer-in-charge(for new work only)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
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i	Room floor	1.000	6.000	3.500	0.000	1.000	21.000	-
ii	Room	1.000	4.250	2.500	0.000	1.000	10.625	-
iii	Toilet	1.000	1.520	2.500	0.000	0.000	3.800	-
Total Quantity					35.425 Sqm (Sqm)		35.425 Sqm (Square Meter)	
Amount					35.425 X 1009.880238341		35775.01	

16. Painting (AR0918c) : Finishing wall with two coat water proofing cement paint including one coat cement wash on the outer surface of approved shade on new work (Outside)

Finishing wall with two coat water proofing cement paint including one coat cement wash on the outer surface of approved shade on new work to give an even shade including all costs of labour, Paint, Brushes, and putty required for the work, etc. complete and as per direction of Engineer-in-charge. (Outside)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	O/side l/wall	2.000	6.460	0.000	3.000	1.000	38.760	-
ii	S/wall	2.000	6.230	0.000	3.000	1.000	37.380	-
iii	Parapet wall L/wall	2.000	6.500	0.000	0.750	1.000	9.750	-
iv	S/wall	2.000	6.660	0.000	0.750	1.000	9.990	-
v	Door	1.000	1.100	0.000	2.100	1.000	-	2.310
vi	Door	1.000	0.600	0.000	2.100	1.000	-	1.260
vii	Window	4.000	1.200	0.000	1.200	1.000	-	5.760
viii	Opening	1.000	1.250	0.000	0.750	1.000	-	0.938
Total Quantity					85.6125 Sqm (Sqm)		85.6125 Sqm (Square Meter)	
Amount					85.6125 X 57.890317259086		4956.13	

17. Other Building Items. (AR1902) : cement based wall putty (water based)

Finishing surface of walls with cement based wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost of scaffolding staging charges with cost of all materials taxes,labour,T&P,etc.complete. and as per the direction of Engineer in Charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Room	2.000	9.500	0.000	3.000	1.000	57.000	-
ii	Celling	1.000	6.000	3.500	0.000	1.000	21.000	-
iii	Room	2.000	6.750	0.000	3.000	1.000	40.500	-
iv	celling	1.000	4.250	2.500	0.000	1.000	10.625	-
v	Toilet	2.000	4.020	0.000	3.000	1.000	24.120	-
vi	Celling	1.000	1.520	2.500	0.000	1.000	3.800	-
vii	Door	1.000	1.100	0.000	2.100	1.000	-	2.310
viii	Door	1.000	0.600	0.000	2.100	1.000	-	1.260
ix	Window	4.000	1.200	0.000	1.200	1.000	-	5.760
Total Quantity					147.715 Sqm (Sqm)		147.715 Sqm (Square Meter)	
Amount					147.715 X 79.21834		11701.74	
18. Painting (AR0920) : Finishing wall two coats with plastic emulsion paint of approved shades on new work (Inside)								
Finishing wall two coats with plastic emulsion paint of approved shades on new work to give an even shade including all costs of labor, Paint and Brushes required for the work, etc. complete and as per direction of the Engineer-in-charge.(Inside)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Quantity as per Putty	147.715	0.000	0.000	0.000	1.000	147.715	-
Total Quantity					147.715 Sqm (Sqm)		147.715 Sqm (Square Meter)	
Amount					147.715 X 94.7676397125		13998.60	
19. Iron Work (AR1704) : Iron Doors and windows fixing								
Supplying, fitting & fixing of Mild steel and put up for frames & shutters of Doors and windows fixing in position with cost, conveyance, taxes of all materials, labours and T & P required for the work etc. as per direction of Engineer-in-charge.								

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Door	1.000	1.100	0.000	2.100	0.350	0.809	-
ii	Door	1.000	0.600	0.000	2.100	0.350	0.441	-
iii	Window	4.000	1.200	0.000	1.200	0.350	2.016	-
Total Quantity					3.2655 Qntl (Quintal)		3.2655 Qntl (Quintal)	
Amount					3.2655 X 15773.439083087		51508.17	

20. Painting (AR0901b) : Priming one coat in inner surface with primer of approved quality over iron work.

Priming one coat in inner surface with primer of approved quality over iron work including cost conveyance, taxes of all materials, labor and T&P required for the work complete as per direction of the Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Door	1.000	1.100	0.000	2.100	2.250	5.198	-
ii	Door	1.000	0.600	0.000	2.100	2.250	2.835	-
iii	Window	4.000	1.200	0.000	1.200	2.750	15.840	-
Total Quantity					23.8725 Sqm (Sqm)		23.8725 Sqm (Square Meter)	
Amount					23.8725 X 65.84406247451		1571.86	

21. Other Building Items. (AR1911) : Stainless steel of 304 grade in hand railing using 50mm dia of 2mm

Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm x 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows in staircase as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes of all materials, labour, T&P etc. required for the complete in all respect. and as per direction of Engineer in Charge

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Railling	1.000	0.375	0.000	0.000	0.100	0.038	-
ii	Poll	6.000	0.075	0.000	0.000	0.100	0.045	-
Total Quantity					0.0825 CM (Centimtr)		8.25 Rmt (Meter)	

Amount	8.25 X 3129.0244276074	25814.45
Total Amount		759282.24
Addition		
Provision for PH Work (+) @		30000.00
Provision for EI Work (+) @		30000.00
Provision for Contingency (+) @		8500.00
Display Citizen Board (+) @		4500.00
Any Other Lumpsum (+) @		17717.00
Provision for survey investigation and quality control (+) @		
Total Addition		90717.00
Grand Net Total Amount		849999.24

Sri Kranti Kumar Pattanayak
JE
Jhorigam Block

Bineet Kumar Mishra
AEE
Jhorigam Block

MADHUSUDAN MAJHI
BDO
Jhorigam Block