

Detailed Estimate

OD/359/3429/118962/415204/00070025 : Construction of VSS building at Jaruganda
Block : Phiringia, Gram Panchayat : Gochhapada
Created By: BIVASH PUTI

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								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	COLUMN FOUNDATION	9.000	4.000	4.000	4.000	0.000	576.000	-
ii	WALL FOUNDATION	1.000	83.000	2.000	2.000	0.000	332.000	-
iii	ENTRANCE STEPS CUTOFF	1.000	18.000	1.000	1.500	0.000	27.000	-
iv	ENTRANCE BED	1.000	10.000	2.000	1.000	0.000	20.000	-
v	SEPTIC TANK	1.000	8.000	6.000	6.000	0.000	288.000	-
vi	DEDUCTION FOR COLUMN	9.000	4.000	2.000	2.000	0.000	-	144.000
Total Quantity						1099 Cft (Cubic Foot)	31.1201632 Cum (Cubic Meter)	
Amount						31.1201632 X 240.77592	7492.99	
2. Earth Work (AR0115a) : Filling foundation and plinth with crusher dust well watered and rammed								
Filling foundation and plinth with crusher dust 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.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	FOUNDATION FILLING	9.000	4.000	4.000	0.500	0.000	72.000	-

ii	WALL FDN FILLING	1.000	83.000	2.000	0.500	0.000	83.000	-	
iii	MEETING HALL	1.000	11.000	19.000	1.000	0.000	209.000	-	
iv	VSS OFFICE	1.000	13.000	7.000	1.000	0.000	91.000	-	
v	TOILET	1.000	7.000	5.000	1.000	0.000	35.000	-	
vi	STEP BED	1.000	10.000	2.000	0.500	0.000	10.000	-	
vii	DEDUCTION FOR COLUMN	9.000	2.000	2.000	0.500	0.000	-	18.000	
Total Quantity					482 Cft (Cubic Foot)		13.6486976 Cum (Cubic Meter)		
Amount					13.6486976 X 646.292132		8821.05		

3. Concrete (AR0303a) : Cement concrete (1:3:6) with 4 cm. hard granite(Hand Broken) metal

Cement concrete (1:3:6) with 4 cm. hard granite(Hand 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	COLUMN	9.000	4.000	4.000	0.500	0.000	72.000	-
ii	WALL FOUNDATION BELOW GL	1.000	83.000	2.000	1.000	0.000	166.000	-
iii	WALL ABOVE GL	1.000	83.000	1.500	1.500	0.000	186.750	-
iv	MEETING HALL	1.000	19.000	11.000	0.330	0.000	68.970	-
v	VSS OFFICE	1.000	13.000	7.000	0.330	0.000	30.030	-
vi	TOILET	1.000	7.000	5.000	0.330	0.000	11.550	-
vii	STEP CUTOFF	1.000	14.000	1.000	1.000	0.000	14.000	-
viii	STEP BED	1.000	10.000	2.000	0.330	0.000	6.600	-
ix	DEDUCTION COLUMN	9.000	1.500	1.500	1.500	0.000	-	30.375

Total Quantity	525.525 Cft (Cubic Foot)	14.88118632 Cum (Cubic Meter)
Amount	14.88118632 X 5077.47259994	75558.82

4. R.C.C. Work (AR0404Aa) : 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. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC foundation, footing bases of column, mass concrete, pre-cast slabs etc.)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	COLUMN BASE	9.000	4.000	4.000	0.830	0.000	119.520	-
Total Quantity					119.52 Cft (Cubic Foot)		3.384423936 Cum (Cubic Meter)	
Amount					3.384423936 X 6061.2872504803		20513.97	

5. R.C.C. Work (AR0404Ac) : 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. (including centring and shuttering) complete and as per direction of Engineer-in charge. (RCC Beams, Column, Girder & Bressmer etc)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	COLUMN UPTO PLINTH	9.000	0.830	0.830	3.660	0.000	22.692	-
ii	PLINTH BEAM	1.000	114.000	0.830	0.830	0.000	78.535	-
iii	COLUMN FROM PLINTH TO ROOF LEVEL	9.000	0.830	0.830	11.000	0.000	68.201	-
iv	WALL BEAM	1.000	107.000	0.830	0.500	0.000	44.405	-
v	MAIN BEAM	1.000	11.000	0.830	0.830	0.000	7.578	-

Total Quantity			221.410966 Cft (Cubic Foot)				6.2696500420288 Cum (Cubic Meter)	
Amount			6.2696500420288 X 14117.0406378				88508.90	
6. R.C.C. Work (AR0404Ad) : 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. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Lintels)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	LINTEL	1.000	114.000	0.830	0.500	0.000	47.310	-
Total Quantity			47.31 Cft (Cubic Foot)				1.339667808 Cum (Cubic Meter)	
Amount			1.339667808 X 12725.571479011				17048.04	
7. R.C.C. Work (AR0404Ae) : 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. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Stairs excluding landing but including railing)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	WAIST SLAB	1.000	22.000	3.500	0.416	0.000	32.032	-
ii	STEPS	22.000	3.500	1.000	0.210	0.000	16.170	-
Total Quantity			48.202 Cft (Cubic Foot)				1.3649263936 Cum (Cubic Meter)	
Amount			1.3649263936 X 14001.969694088				19111.66	
8. R.C.C. Work (AR0404Ag) : 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. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Roof slab, landing, balcony, sun shade)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	ROOF SLAB	1.000	21.160	22.000	0.416	0.000	193.656	-
ii	SUNSHADE CHAJJA	1.000	20.500	1.500	0.210	0.000	6.458	-
iii	WINDOW CHAJJA	3.000	5.000	1.500	0.210	0.000	4.725	-
iv	LANDING	1.000	3.500	3.000	0.416	0.000	4.368	-
v	TOILET SLAB	1.000	8.000	6.000	0.416	0.000	19.968	-
Total Quantity					229.17482 Cft (Cubic Foot)		6.489497542976 Cum (Cubic Meter)	
Amount					6.489497542976 X 12363.17165487		80230.77	

9. Masonry Brick Work (AR0603b) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth

Brickwork with Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	LONG WALL	3.000	20.750	0.830	10.000	0.000	516.675	-
ii	SHORT WALL	2.000	20.750	0.830	10.000	0.000	344.450	-
iii	INSIDE TOILET WALL	1.000	7.000	0.830	10.000	0.000	58.100	-
iv	FRONT PARAPET WALL	1.000	20.750	0.830	2.500	0.000	43.056	-
v	PARAPET WALL 3 SIDES	3.000	20.750	0.830	1.500	0.000	77.501	-

vi	STAIR CASE RALING	1.000	24.000	0.416	2.500	0.000	24.960	-	
vii	D1 2 NOS DOOR	2.000	4.000	0.830	7.000	0.000	-	46.480	
viii	TOILET DOOR D2	1.000	3.000	0.830	7.000	0.000	-	17.430	
ix	WINDOW W1	3.000	4.000	0.830	4.000	0.000	-	39.840	
x	SKYLIGHT	4.000	1.000	0.830	1.500	0.000	-	4.980	
xi	DEDUCTION COLUMN	9.000	0.830	0.830	10.000	0.000	62.001	-	
Total Quantity					1018.0135 Cft (Cubic Foot)		28.8268846768 Cum (Cubic Meter)		
Amount					28.8268846768 X 5145.963310992		148342.09		

10. 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	MEETING ROOM HALL L/W	2.000	19.000	1.000	10.000	0.000	380.000	-
ii	MEETING ROOM S/W	2.000	11.330	1.000	10.000	0.000	226.600	-
iii	OFFICE ROOM L/W	2.000	13.166	1.000	10.000	0.000	263.320	-
iv	S/W	2.000	7.166	1.000	10.000	0.000	143.320	-
v	TOILET L/W	2.000	7.166	1.000	10.000	0.000	143.320	-
vi	TOILET S/W	2.000	5.000	1.000	10.000	0.000	100.000	-
vii	D1	2.000	4.000	1.000	7.000	0.000	-	56.000
viii	D2	1.000	3.000	1.000	7.000	0.000	-	21.000
ix	V1	4.000	1.000	1.000	1.500	0.000	-	6.000

x	W1	3.000	4.000	1.000	3.000	0.000	-	36.000
Total Quantity					1137.56 Sft (Square Foot)		105.68273668 Sqm (Square Meter)	
Amount					105.68273668 X 243.542350198		25738.22	
11. 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	L/W OUTSIDE PLASTER	2.000	20.750	1.000	12.750	0.000	529.125	-
ii	S/W OUTSIDE	2.000	20.750	1.000	12.750	0.000	529.125	-
Total Quantity					1058.25 Sft (Square Foot)		98.31459975 Sqm (Square Meter)	
Amount					98.31459975 X 169.3822902588		16652.75	
12. Plastering (AR1027) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces including chipping (Inside)								
6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in inside including chipping with proper level and line, curing for the proper period with cost conveyance, royalty, taxes of all materials, labor, and T & P required for the work, etc comp. and as per the direction of the Engineer-in-charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	MEETING HALL	1.000	19.000	11.330	1.000	0.000	215.270	-
ii	OFFICE	1.000	13.166	7.166	1.000	0.000	94.348	-
iii	TOILET	1.000	7.166	5.000	1.000	0.000	35.830	-
iv	STEPS	22.000	3.500	1.000	1.000	0.000	77.000	-
Total Quantity					422.447556 Sft (Square Foot)		39.246645295068 Sqm (Square Meter)	

Amount						39.246645295068 X 189.7654558192	7447.66	
13. 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.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	MAIN DOOR AND OFFICE DOOR	2.000	4.000	1.000	7.000	0.000	56.000	-
ii	WINDOW	3.000	4.000	1.000	4.000	0.000	48.000	-
Total Quantity					104 Kg (Kilo Gram)		1.04 Qntl (Quintal)	
Amount						1.04 X 16840.970097087	17514.61	
14. 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	REINFORCEMENT	19.000	1.000	1.000	1.000	0.000	19.000	-
Total Quantity					19 Qntl (Quintal)		19 Qntl (Quintal)	
Amount						19 X 9551.6467095	181481.29	
15. Painting (AR0901d) : Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces (Inner surface)								
Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces including cost conveyance, taxes of all materials, labor and T&P required for the work complete as per direction of the Engineer-in-charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	MEETING ROOM HALL L/W	2.000	19.000	1.000	10.000	0.000	380.000	-

ii	MEETING ROOM HALL S/W	2.000	11.330	1.000	10.000	0.000	226.600	-
iii	OFFICE ROOM L/W	2.000	13.166	1.000	10.000	0.000	263.320	-
iv	OFFICE ROOM S/W	2.000	7.166	1.000	10.000	0.000	143.320	-
v	TOILET L/W	2.000	7.166	1.000	10.000	0.000	143.320	-
vi	TOILET S/W	2.000	5.000	1.000	10.000	0.000	100.000	-
vii	D1	2.000	4.000	1.000	7.000	0.000	-	56.000
viii	D2	1.000	3.000	1.000	7.000	0.000	-	21.000
ix	V1	4.000	1.000	1.000	1.500	0.000	-	6.000
x	W1	3.000	4.000	1.000	3.000	0.000	-	36.000
xi	HALL CELING	1.000	19.000	11.330	1.000	0.000	215.270	-
xii	OFFICE CELING	1.000	13.160	7.160	1.000	0.000	94.226	-
xiii	TOILET CELING	1.000	7.160	5.000	1.000	0.000	35.800	-
Total Quantity					1482.8556 Sft (Square Foot)		137.7617338068 Sqm (Square Meter)	
Amount					137.7617338068 X 71.83248932951		9895.77	
16. Painting (AR0918cb) : Finishing wall two coats with weather coat with one coat waterbound Primer								
Finishing wall two coats with weather coat with one coat waterbound Primer including all costs of labour, Paint, Primer, 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	L/W OUTSIDE	2.000	20.750	1.000	12.750	0.000	529.125	-
ii	S/W OUTSIDE	2.000	20.750	1.000	12.750	0.000	529.125	-
Total Quantity					1058.25 Sft (Square Foot)		98.31459975 Sqm (Square Meter)	

Amount						98.31459975 X 160.71529806685	15800.66	
17. Flooring (AR0802ii) : 2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG Hand broken chips								
2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG Hand broken chips including punning incl. cost, conveyance & royalty of materials as per direction of Engineer-in-charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	MEETING HALL	1.000	19.000	11.330	1.000	0.000	215.270	-
ii	OFFICE	1.000	13.660	7.166	1.000	0.000	97.888	-
iii	TOILET	1.000	7.166	5.000	1.000	0.000	35.830	-
iv	ENTRANCE STEP	2.000	8.000	1.000	1.000	0.000	16.000	-
Total Quantity					364.98756 Sft (Square Foot)		33.90843928668 Sqm (Square Meter)	
Amount						33.90843928668 X 353.5823633588	11989.43	
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)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	MEETING HALLL/W	2.000	19.000	1.000	10.000	0.000	380.000	-
ii	MEETING ROOM HALL S/W	2.000	11.330	1.000	10.000	0.000	226.600	-
iii	OFFICE ROOM L/W	2.000	13.166	1.000	10.000	0.000	263.320	-
iv	OFFICE ROOM S/W	2.000	7.166	1.000	10.000	0.000	143.320	-
v	TOILET L/W	2.000	7.166	1.000	10.000	0.000	143.320	-
vi	TOILET S/W	2.000	5.000	1.000	10.000	0.000	100.000	-
vii	D1	2.000	4.000	1.000	7.000	0.000	-	56.000

viii	D2	1.000	3.000	1.000	7.000	0.000	-	21.000
ix	V1	4.000	1.000	1.000	1.500	0.000	-	6.000
x	W1	3.000	4.000	1.000	3.000	0.000	-	36.000
Total Quantity					1137.56 Sft (Square Foot)		105.68273668 Sqm (Square Meter)	
Amount					105.68273668 X 94.7676397125		10015.30	

19. Painting (AR0903b) : Painting two coats of enamel paint with a coat of red oxide primer over iron surface

Painting two coats of enamel paint with a coat of red oxide primer over iron surface including all costs of labour, Paint, Primer, brushes and putty 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	MAIN DOOR AND WINDOW	2.000	4.000	1.000	7.000	0.000	56.000	-
ii	WINDOW	3.000	4.000	1.000	4.000	0.000	48.000	-
Total Quantity					104 Sft (Square Foot)		9.661912 Sqm (Square Meter)	
Amount					9.661912 X 230.36495425153		2225.77	

20. Concrete (AR0317) : 2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips

2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips including hoisting and laying in position compacting 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 specifaicaion and direction of Engineer-in charge. (new work)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	ROOF SLAB	1.000	21.160	22.000	1.000	0.000	465.520	-
Total Quantity					465.52 Sft (Square Foot)		43.24820456 Sqm (Square Meter)	
Amount					43.24820456 X 352.6544521188		15251.67	
Total Amount							779641.40	

Addition	
Provision for PH Work (+) @	20000.00
Provision for EI Work (+) @	20000.00
Provision for Contingency (+) @	8500.00
Display Citizen Board (+) @	5000.00
Any Other Lumpsum (+) @	16858.00
Provision for survey investigation and quality control (+) @	
Total Addition	70358.00
Grand Net Total Amount	849999.40

JE
Phiringia Block

Jaya Prakash Jena
AEE
Phiringia Block

Anup Avishek Behera
BDO
Phiringia Block