

Detailed Estimate

OD/367/3527/120674/406250/00014379 : Construction of Lekhanpur VSS Lekhanpur
Block : Nayagarh, Gram Panchayat : Nabaghanapur
Created By: Monalisa Satapathy

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	9.000	4.000	4.000	4.000	0.000	576.000	-
ii	Wall	2.000	11.250	2.000	2.660	0.000	119.700	-
iii		2.000	12.410	2.000	2.660	0.000	132.042	-
iv	Step	1.000	10.000	3.750	1.000	0.000	37.500	-
Total Quantity					865.2424 Cft (Cubic Foot)		24.50089599232 Cum (Cubic Meter)	
Amount					24.50089599232 X 240.77592		5899.23	
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.								
SI 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	2.000	12.250	2.000	0.330	0.000	16.170	-
iii		2.000	13.410	2.000	0.330	0.000	17.701	-
iv	Step	1.000	10.000	3.750	0.500	0.000	18.750	-
v	Inside room	1.000	18.410	19.410	1.160	0.000	414.512	-

vi		1.000	18.410	11.160	0.500	0.000	102.728	-
vii		1.000	13.000	7.580	0.500	0.000	49.270	-
viii		1.000	5.000	7.580	0.500	0.000	18.950	-
Total Quantity					710.081196 Cft (Cubic Foot)		20.107227210893 Cum (Cubic Meter)	
Amount					20.107227210893 X 780.783732		15699.40	

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	2.000	12.250	2.000	0.330	0.000	16.170	-
iii		2.000	13.410	2.000	0.330	0.000	17.701	-
iv	Step	1.000	10.000	3.750	0.330	0.000	12.375	-
v	Inside room	1.000	18.410	11.160	0.330	0.000	67.800	-
vi		1.000	13.000	7.580	0.330	0.000	32.518	-
vii		1.000	5.000	7.580	0.330	0.000	12.507	-
Total Quantity					231.071748 Cft (Cubic Foot)		6.5432124737664 Cum (Cubic Meter)	
Amount					6.5432124737664 X 5196.13047438		33999.39	

4. 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	1st footing	2.000	15.250	1.660	1.000	0.000	50.630	-
ii		2.000	16.410	1.660	1.000	0.000	54.481	-
iii	2nd footing	2.000	17.750	1.250	1.000	0.000	44.375	-
iv		2.000	18.750	1.250	1.000	0.000	46.875	-
v	3rd footing upto plinth	2.000	17.750	0.830	1.160	0.000	34.179	-
vi		2.000	18.750	0.830	1.160	0.000	36.105	-
vii	step	1.000	10.000	3.500	0.750	0.000	26.250	-
viii		1.000	10.000	2.500	0.500	0.000	12.500	-
ix		1.000	10.000	1.250	0.500	0.000	6.250	-
Total Quantity					311.6456 Cft (Cubic Foot)		8.82480612608 Cum (Cubic Meter)	
Amount					8.82480612608 X 5041.203625584		44487.64	
5. Masonry Brick Work (AR0603bi) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure								
Brickwork with Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure having crushing strength not less than 75.00 Kg/cm ² 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
i	Long wall	3.000	17.750	0.830	9.000	0.000	397.777	-
ii	Short wall	2.000	18.580	0.830	9.000	0.000	277.585	-
iii		1.000	7.580	0.410	9.500	0.000	29.524	-
iv	Parapet	2.000	21.250	0.830	2.500	0.000	88.188	-
v		2.000	18.410	0.830	2.500	0.000	76.402	-

vi	Deduct G.D	1.000	4.000	0.830	7.000	0.000	-	23.240	
vii	D1	1.000	3.500	0.830	7.000	0.000	-	20.335	
viii	D2	1.000	2.500	0.830	7.000	0.000	-	14.525	
ix	w	3.000	4.000	0.830	4.500	0.000	-	44.820	
x	V	1.000	1.500	0.830	1.500	0.000	-	1.868	
xi	Railing	1.000	25.000	0.410	3.000	0.000	30.750	-	
xii	Deduct Parapet	1.000	3.000	0.830	2.500	0.000	-	6.225	
Total Quantity					789.2133 Cft (Cubic Foot)		22.34799517344 Cum (Cubic Meter)		
Amount					22.34799517344 X 5074.533625584		113405.65		
6. 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	3.500	3.500	1.000	0.000	110.250	-	
ii		9.000	2.000	2.000	1.000	0.000	36.000	-	
Total Quantity					146.25 Cft (Cubic Foot)		4.141332 Cum (Cubic Meter)		
Amount					4.141332 X 6040.9829092791		25017.72		
7. R.C.C. Work (AR0404Ab) : 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 Plinth band)									

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Tie Beam (P.B)	3.000	17.750	0.830	0.830	0.000	36.684	-
ii		2.000	18.750	0.830	0.830	0.000	25.834	-
iii		1.000	7.580	0.830	0.830	0.000	5.222	-
Total Quantity					67.739537 Cft (Cubic Foot)		1.9181669213216 Cum (Cubic Meter)	
Amount					1.9181669213216 X 6797.8050344208		13039.32	

8. 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)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	9.000	0.830	0.830	13.000	0.000	80.601	-
ii	Roof band	3.000	17.750	0.830	0.500	0.000	22.099	-
iii		2.000	18.750	0.830	0.500	0.000	15.563	-
iv	Beam	1.000	11.160	0.830	0.830	0.000	7.688	-
v		1.000	7.580	0.830	0.830	0.000	5.222	-
Total Quantity					131.172536 Cft (Cubic Foot)		3.7143864674048 Cum (Cubic Meter)	
Amount					3.7143864674048 X 14096.736296599		52360.73	

9. R.C.C. Work (AR0404Bd) : Reinforced cement concrete work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips(RCC Lintels)(Nominal mix as per IS-456, Table-9).

Reinforced cement concrete work of M-20 grade with 20mm & downgrade 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)(Nominal mix as per IS-456, Table-9).

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Lintel	3.000	17.750	0.830	0.500	0.000	22.099	-
ii		2.000	18.750	0.830	0.500	0.000	15.563	-
iii		1.000	7.580	0.830	0.500	0.000	3.146	-
Total Quantity					40.80695 Cft (Cubic Foot)		1.15552224176 Cum (Cubic Meter)	
Amount					1.15552224176 X 12705.26713781		14681.22	

10. R.C.C. Work (AR0404Af) : 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 Sun sheds & Chajja)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Chajja	1.000	24.080	2.000	0.000	0.000	48.160	-
ii		1.000	18.410	2.000	0.000	0.000	36.820	-
iii		2.000	5.000	1.830	0.000	0.000	18.300	-
Total Quantity					103.28 Sft (Square Foot)		9.59502184 Sqm (Square Meter)	
Amount					9.59502184 X 1086.1158103369		10421.30	

11. 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)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Staircase 1. steps	22.000	4.250	1.330	0.250	0.000	31.089	-

ii	2.Riser	3.000	4.250	0.500	0.250	0.000	1.594	-
iii	3.Landing	3.000	4.250	3.500	0.250	0.000	11.156	-
Total Quantity					43.83875 Cft (Cubic Foot)		1.241373116 Cum (Cubic Meter)	
Amount					1.241373116 X 13981.665352887		17356.46	
12. R.C.C. Work (AR0404Bg) : First Floor								
Reinforced cement concrete work of M-20 grade with 20mm & downgrade 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, lending, balcony, sun shed)(Nominal mix as per IS-456, Table-9).								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Roof Slab	1.000	21.080	22.250	0.410	0.000	192.302	-
Total Quantity					192.3023 Cft (Cubic Foot)		5.44538576864 Cum (Cubic Meter)	
Amount					5.44538576864 X 13774.395275717		75006.90	
13. 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.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		1.000	18.000	0.000	0.000	0.000	18.000	-
Total Quantity					18 Qntl (Quintal)		18 Qntl (Quintal)	
Amount					18 X 8992.2174762		161859.91	
14. Plastering (AR1017) : 20mm thick cement Plaster in CM (1:4) over brick work in inside.								
20mm thick cement Plaster in CM (1:4) over stone 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	Roof Slab	1.000	21.080	22.250	0.000	0.000	469.030	-
Total Quantity					469.03 Sft (Square Foot)		43.57429409 Sqm (Square Meter)	
Amount					43.57429409 X 274.1286567968		11944.96	

15. 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Ceiling	1.000	18.410	11.160	0.000	0.000	205.456	-
ii		1.000	13.000	7.580	0.000	0.000	98.540	-
iii		1.000	5.000	7.580	0.000	0.000	37.900	-
Total Quantity					341.8956 Sft (Square Foot)		31.7631269268 Sqm (Square Meter)	
Amount					31.7631269268 X 192.2637169984		6106.90	

16. 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	2.000	29.580	0.000	10.000	0.000	591.600	-
ii		2.000	20.580	0.000	10.000	0.000	411.600	-
iii		2.000	12.580	0.000	10.000	0.000	251.600	-
iv	Deduction G.D	0.500	4.000	0.000	7.000	0.000	-	14.000
v	Deduction D1	1.000	3.500	0.000	7.000	0.000	-	24.500

vi	Deduction D2	1.000	2.500	0.000	7.000	0.000	-	17.500
vii	Deduction W	1.500	4.000	0.000	4.500	0.000	-	27.000
viii	Parapet	2.000	21.250	0.000	2.500	0.000	106.250	-
ix		2.000	18.410	0.000	2.500	0.000	92.050	-
x	Railing	1.000	25.000	0.000	3.000	0.000	75.000	-
xi	Deduct parapet	1.000	3.000	0.000	2.500	0.000	-	7.500
Total Quantity					1437.6 Sft (Square Foot)		133.5573528 Sqm (Square Meter)	
Amount					133.5573528 X 248.305868546		33163.07	

17. 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	Outside	2.000	41.330	0.000	12.000	0.000	991.920	-
ii	Deduction G.D	0.500	4.000	0.000	7.000	0.000	-	14.000
iii	Deduction W	1.500	4.000	0.000	4.500	0.000	-	27.000
iv	Parapet	2.000	21.250	0.000	3.330	0.000	141.525	-
v		2.000	18.410	0.000	3.330	0.000	122.611	-
vi	Railing	1.000	25.000	0.000	3.410	0.000	85.250	-
vii	Deduct Parapet	1.000	3.000	0.000	3.330	0.000	-	9.990
Total Quantity					1290.3156 Sft (Square Foot)		119.8741901868 Sqm (Square Meter)	
Amount					119.8741901868 X 173.3510013076		20780.31	

18. 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	floor	1.000	18.410	11.160	0.000	0.000	205.456	-
ii		1.000	13.000	5.580	0.000	0.000	72.540	-
iii		1.000	5.000	7.580	0.000	0.000	37.900	-
Total Quantity					315.8956 Sft (Square Foot)		29.3476489268 Sqm (Square Meter)	
Amount					29.3476489268 X 357.9285720076		10504.36	

19. 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Wall And ceiling	285.194	0.000	0.000	0.000	0.000	285.194	-
Total Quantity					285.1943 Sqm (Sqm)		285.1943 Sqm (Square Meter)	
Amount					285.1943 X 71.83248932951		20486.22	

20. Painting (AR0918f) : Finishing wall with two coat weather coat paint of approved shade in the outer surface of old work(Outside)

Finishing wall with two coat weather coat paint of approved shade in the outer surface of old 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)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	outside	2.000	41.330	0.000	12.000	0.000	991.920	-
ii	Deduct GD	0.500	4.000	0.000	7.000	0.000	-	14.000

iii	Deduct W	1.500	4.000	0.000	4.500	0.000	-	27.000
iv	Parapet	2.000	21.250	0.000	5.830	0.000	247.775	-
v		2.000	18.410	0.000	5.830	0.000	214.661	-
vi	Railing	1.000	25.000	0.000	6.410	0.000	160.250	-
vii	Deduct Parapet	2.000	3.000	0.000	5.830	0.000	34.980	-
Total Quantity					1608.5856 Sft (Square Foot)		149.4424279968 Sqm (Square Meter)	
Amount					149.4424279968 X 87.8656910875		13130.86	

21. Painting (AR0922) : Finishing wall two coats with distemper of approved shades on new work (Inside)

Finishing wall two coats with distemper 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	inside wall & ceiling	165.310	0.000	0.000	0.000	1.000	165.310	-
Total Quantity					165.31 Sft (Square Foot)		15.35779493 Sqm (Square Meter)	
Amount					15.35779493 X 78.835517175		1210.74	

22. 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	W Grill	3.000	4.000	0.000	4.500	2.000	108.000	-
ii	G.D	1.000	4.000	0.000	7.000	3.000	84.000	-
iii	D1	1.000	3.500	0.000	7.000	3.000	73.500	-
iv	W	3.000	4.000	0.000	4.500	3.000	162.000	-

v	D2	1.000	2.500	0.000	7.000	3.000	52.500	-
Total Quantity					480 Kg (Kilo Gram)		4.8 Qntl (Quintal)	
Amount					4.8 X 16308.180351087		78279.27	

23. 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	W	3.000	4.000	0.000	4.500	0.500	27.000	-
ii	G.D	1.000	4.000	0.000	7.000	2.000	56.000	-
iii	D1	1.000	3.500	0.000	7.000	2.000	49.000	-
iv	W	3.000	4.000	0.000	4.500	2.000	108.000	-
v	D2	1.000	2.500	0.000	7.000	2.000	35.000	-
Total Quantity					275 Sft (Square Foot)		25.548325 Sqm (Square Meter)	
Amount					25.548325 X 66.11573166851		1689.15	

24. Painting (AR0903i) : Painting two coats of enamel paint in outer surface paint (outer surface)

Painting two coats of enamel paint in outer surface paint including all costs of labour, Paint and brushes required for the work etc. complete and as per direction of Engineer-in-charge.(Outside)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	W	3.000	4.000	0.000	4.500	0.500	27.000	-
ii	G.D	1.000	4.000	0.000	7.000	2.000	56.000	-
iii	D1	1.000	3.500	0.000	7.000	2.000	49.000	-
iv	W	3.000	4.000	0.000	4.500	2.000	108.000	-
v	D2	1.000	2.500	0.000	7.000	2.000	35.000	-

Total Quantity	275 Sft (Square Foot)	25.548325 Sqm (Square Meter)
Amount	25.548325 X 163.42477665202	4175.23
Total Amount		784705.94
Addition		
Provision for PH Work (+) @		43000.00
Provision for EI Work (+) @		20000.00
Provision for Contingency (+) @		0.00
Display Citizen Board (+) @		2294.00
Any Other Lumpsum (+) @		
Provision for survey investigation and quality control (+) @		0.00
Total Addition		65294.00
Grand Net Total Amount		849999.94

Monalisa Satapathy
JE
Nayagarh Block

Chandra Sekhar Samantaray
AEE
Nayagarh Block

Aishwarya Bhuyan
BDO
Nayagarh Block