

## Detailed Estimate

**OD/367/3527/120671/406310/00013803 : CONST OF WAITING SHED,SEPARATE TOILET FOR MEN & WOMEN & PROVISION OF SAFE DRINKING WATER WITH MINIMUM FACILITIES**

**Block : Nayagarh, Gram Panchayat : Lathipada**

**Created By:Manoja Kumar Sethi**

<b>1. R.C.C. Work (AR0404Ac) : Reinforced cement concrete work of M-20 grade with 20mm &amp; down grade size black hard crusher broken granite chips</b>								
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 above plinth	8.000	0.375	0.250	2.925	1.000	2.194	-
ii		4.000	0.250	0.250	2.925	1.000	0.731	-
iii	Roof beam LW	2.000	12.190	0.250	0.175	1.000	1.067	-
iv	Roof beam LW	1.000	11.190	0.250	0.175	1.000	0.490	-
v	Roof beam SW	3.000	8.030	0.250	0.175	1.000	1.054	-
vi	Hanging beam	1.000	8.030	0.250	0.250	1.000	0.502	-
Total Quantity					6.037 cum (cum)		6.037 Cum (Cubic Meter)	
Amount					<b>6.037 X 14059.287342717</b>		<b>84875.92</b>	
<b>2. R.C.C. Work (AR0404Ad) : Reinforced cement concrete work of M-20 grade with 20mm &amp; down grade size black hard crusher broken granite chips</b>								
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)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	LINTEL LW	2.000	12.190	0.250	0.150	1.000	0.914	-
ii	LINTEL MW	1.000	11.440	0.250	0.150	1.000	0.429	-

iii	LINTEL SW	3.000	8.030	0.250	0.150	1.000	0.903	-
iv	LINTEL (T FW)	1.000	3.810	0.125	0.150	1.000	0.071	-
v	LINTEL(T MW)	1.000	2.100	0.250	0.150	1.000	0.079	-
vi	Front	1.000	3.810	0.250	0.250	1.000	0.238	-
Total Quantity					2.6349375 cum (cum)		2.6349375 Cum (Cubic Meter)	
Amount					2.6349375 X 12667.818183928		33378.91	

**3. 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)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	ROOF SLAB	1.000	12.490	9.280	0.125	1.000	14.488	-
ii	DEDUCTION	1.000	3.820	2.100	0.125	1.000	-	1.003
iii	Septic Tank	1.000	2.340	1.750	0.125	1.000	0.512	-
Total Quantity					13.997525 cum (cum)		13.997525 Cum (Cubic Meter)	
Amount					13.997525 X 12305.418359788		172245.40	

**4. 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	ROD	1.000	26.750	0.000	0.000	100.000	2675.000	-
Total Quantity					2675 Kg (Kilo Gram)		26.75 Qntl (Quintal)	

<b>Amount</b>						<b>26.75 X 8929.3601565</b>	<b>238860.38</b>	
<b>5. Masonry Brick Work (AR0603bi) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure</b>								
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 <sup>2</sup> with dimensional tolerance $\pm 8$ 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	LW	2.000	11.190	0.250	3.025	1.000	16.925	-
ii	LW (MW)	1.000	7.370	0.250	3.025	1.000	5.574	-
iii	SW	3.000	7.530	0.250	3.025	1.000	17.084	-
iv	LW (T)	1.000	3.640	0.125	3.025	1.000	1.376	-
v	SW (T)	1.000	2.100	0.250	3.025	1.000	1.588	-
vi	D	2.000	1.050	0.250	2.100	1.000	-	1.103
vii	D1	2.000	0.750	0.125	2.100	1.000	-	0.394
viii	W	2.000	1.500	0.250	1.350	1.000	-	1.013
ix	W1	3.000	1.200	0.250	1.350	1.000	-	1.215
x	V	2.000	0.600	0.250	0.450	1.000	-	0.135
xi	ENTRANCE	1.000	3.500	0.250	2.100	1.000	-	1.838
<b>Total Quantity</b>						<b>36.850375 cum (cum)</b>	<b>36.850375 Cum (Cubic Meter)</b>	
<b>Amount</b>						<b>36.850375 X 5067.28815384</b>	<b>186731.47</b>	
<b>6. Plastering (AR1017) : 20mm thick cement Plaster in CM (1:4) over brick work in inside.</b>								
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	12.490	9.280	0.000	1.000	115.907	-	
ii	DEDUCTION	1.000	3.820	2.100	0.000	1.000	-	8.022	
Total Quantity					107.8852 Sqm (Sqm)		107.8852 Sqm (Square Meter)		
Amount					107.8852 X 273.326479568		29487.88		

**7. 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	WAITING ROOM	1.000	7.620	5.630	0.000	1.000	42.901	-	
ii	HANGING BEAM	2.000	5.630	0.250	0.000	1.000	2.815	-	
iii	SARPANCH ROOM	1.000	3.810	5.400	0.000	1.000	20.574	-	
iv	HANGING BEAM (SR)	2.000	3.810	0.175	0.000	1.000	1.334	-	
v	ENT & STAIR HALL	1.000	7.620	2.100	0.000	1.000	16.002	-	
vi	TOILET	2.000	1.820	2.100	0.000	1.000	7.644	-	
vii	STAIR BEAM	2.000	2.100	0.250	0.000	1.000	1.050	-	
Total Quantity					92.3191 Sqm (Sqm)		92.3191 Sqm (Square Meter)		
Amount					92.3191 X 191.862628384		17712.59		

**8. 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
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i	Outside	2.000	12.370	3.650	0.000	1.000	90.301	-
ii	Outside	1.000	8.480	3.650	0.000	1.000	30.952	-
iii	Waiting Room	1.000	7.620	3.050	0.000	1.000	23.241	-
iv	Waiting Room	1.000	5.630	3.050	0.000	1.000	17.172	-
v	Verendah	1.000	2.100	3.050	0.000	1.000	6.405	-
vi	Toilet	1.000	4.000	3.050	0.000	1.000	12.200	-
vii		1.000	1.820	3.050	0.000	1.000	5.551	-
Total Quantity					185.8215 Sqm (Sqm)		185.8215 Sqm (Square Meter)	
Amount					185.8215 X 172.965007426		32140.62	

**9. 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	Stair case	2.000	3.070	1.050	0.125	1.000	0.806	-
ii	Tread	22.000	1.050	0.300	0.150	1.000	1.040	-
iii	Riser	23.000	1.050	0.150	0.150	1.000	0.543	-
Total Quantity					2.38875 cum (cum)		2.38875 Cum (Cubic Meter)	
Amount					2.38875 X 13944.216399005		33309.25	

**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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
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i	Waiting and verendahRoom	3.000	7.620	3.050	0.000	1.000	69.723	-
ii	Waiting Room	1.000	5.630	3.050	0.000	1.000	17.172	-
iii	Verendah	1.000	2.100	3.050	0.000	1.000	6.405	-
iv	Toilet	5.000	1.820	3.050	0.000	1.000	27.755	-
v		2.000	2.050	3.050	0.000	1.000	12.505	-
vi	Sarapanch Room	2.000	6.100	3.050	0.000	1.000	37.210	-
vii		1.000	4.000	3.050	0.000	1.000	12.200	-
Total Quantity					182.9695 Sqm (Sqm)		182.9695 Sqm (Square Meter)	
Amount					182.9695 X 247.84224461		45347.57	
<b>11. Earth Work (AR0115) : Filling foundation and plinth with sand well watered and rammed</b>								
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	Waiting and verendahRoom	1.000	7.620	5.630	0.450	1.000	19.305	-
ii	Verendah	1.000	7.620	2.100	0.450	1.000	7.201	-
iii	Toilet	1.000	1.820	1.820	0.450	1.000	1.491	-
iv		1.000	1.820	2.100	0.450	1.000	1.720	-
v	Sarapanch Room	1.000	4.000	6.100	0.450	1.000	10.980	-
vi	Septic Tank	1.000	2.430	1.820	0.100	1.000	0.442	-
Total Quantity					41.13891 cum (cum)		41.13891 Cum (Cubic Meter)	
Amount					41.13891 X 780.783732		32120.59	
<b>12. Concrete (AR0303) : Cement concrete (1:3:6) with 4 cm. Crusher Broken hard granite metal</b>								

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	Waiting and verendahRoom	1.000	7.620	5.630	0.100	1.000	4.290	-
ii	Verendah	1.000	7.620	2.100	0.100	1.000	1.600	-
iii	Toilet	1.000	1.820	1.820	0.100	1.000	0.331	-
iv		1.000	1.820	2.100	0.100	1.000	0.382	-
v	Sarapanch Room	1.000	4.000	6.100	0.100	1.000	2.440	-
vi	Septic tank	1.000	2.430	1.820	0.100	1.000	0.442	-
Total Quantity					9.48596 cum (cum)		9.48596 Cum (Cubic Meter)	
Amount					9.48596 X 5357.1860763		50818.05	

**13. 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	Septic Tank	1.000	2.430	1.820	1.820	1.000	8.049	-
Total Quantity					8.049132 cum (cum)		8.049132 Cum (Cubic Meter)	
Amount					8.049132 X 240.77592		1938.04	

**14. 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/cm<sup>2</sup> 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	LW	2.000	2.330	0.250	1.500	1.000	1.748	-
ii	SW	2.000	1.200	0.250	1.500	1.000	0.900	-
iii	Partition Wall	1.000	1.220	0.125	1.220	1.000	0.186	-
Total Quantity					2.83355 cum (cum)		2.83355 Cum (Cubic Meter)	
Amount					2.83355 X 5033.95815384		14263.97	
<b>15. Flooring (AR0802i) : 2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG crusher broken chips</b>								
2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG crusher 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	Septic tank floor	1.000	1.820	1.200	0.000	0.000	2.184	-
Total Quantity					2.184 Sqm (Sqm)		2.184 Sqm (Square Meter)	
Amount					2.184 X 364.237999426		795.50	
<b>16. Plastering (AR1006) : 12mm thick cement plaster (1:4) over brickwork in inside</b>								
12mm thick cement plaster (1:4) over brickwork in inside with cement punning for skirting/wall punning including racking out joints finishing smooth with proper plumb and line curing for proper period with cost conveyance, royalty, taxes of all materials, labor, 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	septic wall	2.000	6.090	1.200	0.000	0.000	14.616	-
Total Quantity					14.616 Sqm (Sqm)		14.616 Sqm (Square Meter)	
Amount					14.616 X 195.193132068		2852.94	
Total Amount							976879.08	
<b>Addition</b>								
Provision for PH Work (+) @							0.00	
Provision for EI Work (+) @							19620.00	

Provision for Contingency (+) @	0.00
Display Citizen Board (+) @	3500.00
Any Other Lumpsum (+) @	
Provision for survey investigation and quality control (+) @	
<b>Total Addition</b>	<b>23120.00</b>
<b>Grand Net Total Amount</b>	<b>999999.08</b>

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