

## Detailed Estimate

**OD/361/3452/119471/386049/00066939 : Const of Boundary Wall at Potala Balibeda Sahi UP School**  
**Block : Kendujhar Sadar, Gram Panchayat : Sankiri**  
**Created By:Ratikanta Lenka**

<b>1. Earth Work (AR0102aa) : Earth work in hard soil or gravelly soil foundation &amp; plinth within 50m. Initial lead and 1.5m initial lift</b>								
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 base	22.000	3.000	3.000	3.000	0.000	594.000	-
ii	Wall	1.000	245.000	1.500	1.500	0.000	551.250	-
iii	Deduct Column	22.000	3.000	1.500	1.500	0.000	-	148.500
<b>Total Quantity</b>					996.75 Cft (Cubic Foot)		28.2247704 Cum (Cubic Meter)	
<b>Amount</b>					<b>28.2247704 X 240.77592</b>		<b>6795.85</b>	
<b>2. 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	Column base	22.000	3.000	3.000	0.330	0.000	65.340	-
ii	Wall	1.000	245.000	1.500	0.330	0.000	121.275	-
iii	Deduct Column	22.000	3.000	1.500	0.330	0.000	-	32.670
<b>Total Quantity</b>					153.945 Cft (Cubic Foot)		4.359229776 Cum (Cubic Meter)	
<b>Amount</b>					<b>4.359229776 X 1053.089832</b>		<b>4590.66</b>	

**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	Column base	22.000	3.000	3.000	0.330	0.000	65.340	-
ii	Wall	1.000	245.000	1.500	0.330	0.000	121.275	-
iii	Deduct Column	22.000	0.830	0.830	0.330	0.000	-	5.001
Total Quantity					181.613586 Cft (Cubic Foot)		5.1427155920448 Cum (Cubic Meter)	
Amount					5.1427155920448 X 6075.04023724		31242.20	

**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/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	Wall	1.000	245.000	1.250	1.000	0.000	306.250	-
ii	Plinth bend	2.000	245.000	0.250	0.830	0.000	101.675	-
iii	Deduct Column	22.000	0.830	0.830	2.660	0.000	-	40.314
Total Quantity					367.610572 Cft (Cubic Foot)		10.40955504521 Cum (Cubic Meter)	
Amount					10.40955504521 X 5238.041237632		54525.68	

**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<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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Wall	1.000	245.000	0.830	4.250	0.000	864.237	-
ii		1.000	245.000	0.410	0.250	0.000	25.113	-
iii	Deduct Column	22.000	0.830	0.830	4.250	0.000	-	64.412
Total Quantity					824.93785 Cft (Cubic Foot)		23.35960011088 Cum (Cubic Meter)	
Amount					23.35960011088 X 5271.371237632		123137.12	

**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	1st footing	22.000	3.000	3.000	0.660	0.000	130.680	-
ii	2nd footing	22.000	1.500	1.500	0.500	0.000	24.750	-
Total Quantity					155.43 Cft (Cubic Foot)		4.401280224 Cum (Cubic Meter)	
Amount					4.401280224 X 6595.4228539013		29028.30	

**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)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
-------	-------------	----	---	---	---	----	----------	-----------

i	Plinth bend	1.000	245.000	0.830	0.830	0.000	168.781	-
Total Quantity					168.7805 Cft (Cubic Foot)		4.7793236624 Cum (Cubic Meter)	
Amount					4.7793236624 X 7352.244979043		35138.76	
<b>8. 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	22.000	0.830	0.830	1.160	0.000	17.581	-
ii		22.000	0.830	0.830	4.250	0.000	64.412	-
Total Quantity					81.992878 Cft (Cubic Foot)		2.3217759277504 Cum (Cubic Meter)	
Amount					2.3217759277504 X 14651.176241221		34016.75	
<b>9. 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</b>								
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		0.000	0.000	0.000	0.000	7.350	7.350	-
Total Quantity					7.35 Qntl (Quintal)		7.35 Qntl (Quintal)	
Amount					7.35 X 9260.9715072		68068.14	
<b>10. Plastering (AR1014) : 16mm thick cement Plaster in CM (1:6) over brick work in inside.</b>								
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	Wall	1.000	245.000	0.000	5.830	0.000	1428.350	-
ii		1.000	245.000	0.000	1.250	0.000	306.250	-
Total Quantity					1734.6 Sft (Square Foot)		161.1495438 Sqm (Square Meter)	
Amount					161.1495438 X 251.842278708		40584.27	

**11. Plastering (AR1004) : 12mm thick cement plaster (1:6) over Brick work in inside**

12mm thick cement plaster (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	Wall	1.000	245.000	0.000	5.830	0.000	1428.350	-
Total Quantity					1428.35 Sft (Square Foot)		132.69800005 Sqm (Square Meter)	
Amount					132.69800005 X 176.2991183048		23394.54	

**12. Painting (AR0901dik) : Priming one coat with outer surface primer of approved quality water-bound primer over plastering surfaces (outer surface )(For repair and maintenance) .**

Priming one coat with outer 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(For repair and maintenance).

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	WALL	1.000	220.000	0.000	5.830	0.000	1282.600	-
ii		1.000	220.000	0.000	1.250	0.000	275.000	-
iii		1.000	220.000	0.000	5.830	0.000	1282.600	-
Total Quantity					2840.2 Sft (Square Foot)		263.8631006 Sqm (Square Meter)	
Amount					263.8631006 X 74.03226419871		19534.38	

**13. Painting (AR0918fk) : Finishing wall with two coat weather coat paint of approved shade in the outer surface of old work(Outside)(For repair and maintenance) .**

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 and Brushes required for the work, etc. complete and as per direction of Engineer-in-charge(Outside)(For repair and maintenance).

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	WALL	1.000	220.000	0.000	5.830	0.000	1282.600	-
ii		1.000	220.000	0.000	1.250	0.000	275.000	-
iii		1.000	220.000	0.000	5.830	0.000	1282.600	-
Total Quantity					2840.2 Sft (Square Foot)		263.8631006 Sqm (Square Meter)	
Amount					263.8631006 X 89.153050975		23524.20	
Total Amount							493580.86	
<b>Addition</b>								
Provision for PH Work (+) @								
Provision for EI Work (+) @								
Provision for Contingency (+) @							5000.00	
Display Citizen Board (+) @							1419.00	
Any Other Lumpsum (+) @								
Provision for survey investigation and quality control (+) @								
Total Addition							6419.00	
Grand Net Total Amount							499999.86	

**Ratikanta Lenka**  
JE  
Kendujhar Sadar Block

**Sabyasachi Pradhan**  
AEE  
Kendujhar Sadar Block

**Binod Chandra Panda**  
BDO  
Kendujhar Sadar Block