

## Detailed Estimate

**OD/361/3452/119470/386164/00068100 : CONST OF ADDITIONAL CLASS ROOM AT BALIAGODA**

**Block : Kendujhar Sadar, Gram Panchayat : Raisuan**

**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	9.000	4.500	4.500	4.500	0.000	820.125	-
ii	WALL	1.000	94.300	2.000	2.000	0.000	377.200	-
iii	RAMP	2.000	8.000	1.330	1.000	0.000	21.280	-
iv	STEP	1.000	11.500	1.000	1.000	0.000	11.500	-
v	COL	9.000	4.500	2.000	2.000	0.000	-	162.000
<b>Total Quantity</b>					1068.105 Cft (Cubic Foot)		30.245315664 Cum (Cubic Meter)	
<b>Amount</b>					30.245315664 X 240.77592		7282.34	
<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	9.000	4.500	4.500	0.500	0.000	91.125	-
ii	WALL	1.000	94.300	2.000	0.500	0.000	94.300	-
iii	RAMP	2.000	8.000	1.330	0.330	0.000	7.022	-
iv	STEP	1.000	11.500	1.000	0.330	0.000	3.795	-

v	INSIDE ROOM	1.000	16.830	14.000	1.250	0.000	294.525	-	
vi		1.000	16.830	5.000	1.250	0.000	105.188	-	
vii		1.000	7.160	3.340	0.500	0.000	11.957	-	
viii	COL BACK FILLING	1.000	820.130	0.000	0.333	0.000	273.377	-	
ix	COL	9.000	2.500	2.000	0.330	0.000	-	14.850	
Total Quantity					866.43876666667 Cft (Cubic Foot)		24.534773267947 Cum (Cubic Meter)		
Amount					24.534773267947 X 903.003832		22154.99		

### 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction	
i	COLUMN	9.000	4.500	4.500	0.500	0.000	91.125	-	
ii	WALL	1.000	94.300	2.000	0.500	0.000	94.300	-	
iii	ROOM	1.000	16.830	14.000	0.330	0.000	77.755	-	
iv		1.000	16.830	5.000	0.330	0.000	27.770	-	
v	RAMP	2.000	8.000	1.330	0.330	0.000	7.022	-	
vi		1.000	3.340	1.330	0.330	0.000	1.466	-	
vii	RAMP INSIDE	1.000	7.160	3.340	0.330	0.000	7.892	-	
viii	STEP	1.000	11.500	1.000	0.330	0.000	3.795	-	
ix	COL	9.000	0.830	0.830	0.330	0.000	-	2.046	
Total Quantity					309.078145 Cft (Cubic Foot)		8.752104016336 Cum (Cubic Meter)		

Amount	8.752104016336 X 5946.16028612	52041.41
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**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 ±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	94.300	1.330	1.500	0.000	188.128	-
ii		2.000	94.300	0.250	0.830	0.000	39.135	-
iii	RAMP	2.000	8.000	0.830	1.330	0.000	17.662	-
iv		1.000	11.500	1.000	0.830	0.000	9.545	-
v		1.000	3.340	0.830	0.830	0.000	2.301	-
vi	COL	9.000	0.830	0.830	1.500	0.000	-	9.300
Total Quantity					247.471176 Cft (Cubic Foot)		7.0075917965568 Cum (Cubic Meter)	
Amount					7.0075917965568 X 5050.706395616		35393.29	

**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 ±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	2.000	17.660	0.830	9.250	0.000	271.169	-
ii		2.000	14.830	0.830	9.250	0.000	227.715	-
iii		2.000	5.830	0.830	1.920	0.000	18.581	-
iv		1.000	17.660	0.830	1.920	0.000	28.143	-

v		2.000	5.000	0.830	3.500	0.000	29.050	-
vi	COL	6.000	0.830	0.830	9.250	0.000	-	38.234
vii		3.000	0.830	0.830	1.920	0.000	-	3.968
viii	DOOR	2.000	3.500	0.830	7.000	0.000	-	40.670
ix	WINDOW	2.000	4.000	0.830	3.500	0.000	-	23.240
Total Quantity					468.546288 Cft (Cubic Foot)		13.267731528038 Cum (Cubic Meter)	
Amount					13.267731528038 X 5084.036395616		67453.63	
<b>6. R.C.C. Work (AR0404Aa) : 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 foundation, footing bases of column, mass concrete, pre-cast slabs etc.)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	COL BASE	9.000	4.000	4.000	0.830	0.000	119.520	-
ii		9.000	2.500	2.500	0.660	0.000	37.125	-
Total Quantity					156.645 Cft (Cubic Foot)		4.435685136 Cum (Cubic Meter)	
Amount					4.435685136 X 6434.3632804189		28540.81	
<b>7. R.C.C. Work (AR0404Ab) : 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 Plinth band)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		1.000	94.300	0.830	0.830	0.000	64.963	-

Total Quantity	64.96327 Cft (Cubic Foot)	1.839551923936 Cum (Cubic Meter)
Amount	<b>1.839551923936 X 7191.1854055606</b>	<b>13228.56</b>

**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	2.750	0.000	17.050	-
ii		6.000	0.830	0.830	9.250	0.000	38.234	-
iii		3.000	0.830	0.830	9.000	0.000	18.600	-
iv	WALL BEAM	1.000	94.300	0.830	0.830	0.000	64.963	-
v		1.000	14.000	0.830	1.000	0.000	11.620	-

Total Quantity	150.467795 Cft (Cubic Foot)	4.260766457456 Cum (Cubic Meter)
Amount	<b>4.260766457456 X 14490.116667739</b>	<b>61739.00</b>

**9. 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)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	17.660	0.830	0.500	0.000	14.658	-
ii		2.000	14.830	0.830	0.500	0.000	12.309	-
iii		1.000	17.660	0.830	0.830	0.000	12.166	-
iv		2.000	5.830	0.830	0.830	0.000	8.033	-

Total Quantity	47.165248 Cft (Cubic Foot)	1.3355688945664 Cum (Cubic Meter)
Amount	1.3355688945664 X 13098.64750895	17494.15

**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		1.000	21.500	1.500	0.000	0.000	32.250	-
ii		2.000	6.330	1.500	0.000	0.000	18.990	-
iii		2.000	5.000	1.500	0.000	0.000	15.000	-

Total Quantity	66.24 Sft (Square Foot)	6.15389472 Sqm (Square Meter)
Amount	6.15389472 X 1110.7020835332	6835.14

**11. 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	19.500	22.500	0.370	0.000	162.337	-

Total Quantity	162.3375 Cft (Cubic Foot)	4.59687852 Cum (Cubic Meter)
Amount	4.59687852 X 12736.247684809	58546.98

**12. 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		0.000	0.000	0.000	0.000	15.980	15.980	-
Total Quantity					15.98 Qntl (Quintal)		15.98 Qntl (Quintal)	
Amount					15.98 X 9245.8402932		147748.53	

**13. Plastering (AR1017) : 20mm thick cement Plaster in CM (1:4) over masonry 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		1.000	19.500	22.500	0.000	0.000	438.750	-
Total Quantity					438.75 Sft (Square Foot)		40.76119125 Sqm (Square Meter)	
Amount					40.76119125 X 272.0399774432		11088.67	

**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		3.000	16.830	10.580	0.000	0.000	534.184	-
ii		2.000	14.000	10.580	0.000	0.000	296.240	-
iii		1.000	16.830	3.580	0.000	0.000	60.251	-
iv		2.000	5.000	3.580	0.000	0.000	35.800	-
v	D	2.000	3.500	7.000	0.000	0.000	-	49.000
vi	W	0.500	2.000	4.000	3.500	0.000	-	14.000

Total Quantity	863.4756 Sft (Square Foot)	80.2194736668 Sqm (Square Meter)
Amount	80.2194736668 X 247.836406204	19881.31

**15. Plastering (AR1004i) : 12mm thick cement plaster (1:6) over Brick work in outside.**

12mm thick cement plaster (1:6) over Brick work in outside 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		2.000	18.500	10.580	0.000	0.000	391.460	-
ii		2.000	15.660	10.580	0.000	0.000	331.366	-
iii		2.000	5.830	3.580	0.000	0.000	41.743	-
iv		1.000	18.500	3.580	0.000	0.000	66.230	-
v	PLINTH	2.000	19.000	1.500	0.000	0.000	57.000	-
vi		2.000	22.000	1.500	0.000	0.000	66.000	-
vii	RAMP	2.000	8.000	1.000	0.000	0.000	16.000	-
viii	W	0.500	2.000	4.000	3.500	0.000	-	14.000

Total Quantity	955.7984 Sft (Square Foot)	88.7965387552 Sqm (Square Meter)
Amount	88.7965387552 X 172.9619023224	15358.42

**16. 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	ROOM	1.000	16.830	14.000	0.000	0.000	235.620	-
ii	VER	1.000	16.830	5.000	0.000	0.000	84.150	-

iii	BEAM	2.000	14.000	1.000	0.000	0.000	28.000	-
iv	CARNICE	2.000	19.500	0.920	0.000	0.000	35.880	-
v		2.000	22.500	0.920	0.000	0.000	41.400	-
vi	COL	3.000	4.000	0.830	7.000	0.000	69.720	-
vii	BOTTOM	1.000	16.830	0.830	0.000	0.000	13.969	-
viii		2.000	5.000	0.830	0.000	0.000	8.300	-
ix	CHHAJA	2.000	21.500	1.500	0.000	0.000	64.500	-
x		2.000	6.330	1.500	0.000	0.000	18.990	-
xi		2.000	5.000	1.500	0.000	0.000	15.000	-
Total Quantity					615.5289 Sft (Square Foot)		57.1844813967 Sqm (Square Meter)	
Amount					57.1844813967 X 190.8418999216		10913.20	
<b>17. Other Building Items. (AR1901B) : Vitrified Tile 600mmx600mm Plain Ivory</b>								
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)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i		1.000	16.830	14.000	0.000	0.000	235.620	-
ii		1.000	18.830	6.000	0.000	0.000	112.980	-
iii		3.000	16.830	0.500	0.000	0.000	25.245	-
iv		2.000	14.000	0.500	0.000	0.000	14.000	-
v	PILLAR	3.000	4.000	0.830	0.500	0.000	4.980	-
vi	D	2.000	3.500	0.500	0.000	0.000	-	3.500
Total Quantity					389.325 Sft (Square Foot)		36.169460475 Sqm (Square Meter)	

<b>Amount</b>					36.169460475 X 1010.2567294962		36540.44	
<b>18. Iron Work (AR1704) : Iron Doors and windows fixing</b>								
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	D	2.000	3.500	7.000	2.750	0.000	134.750	-
ii	W	2.000	4.000	3.500	3.500	0.000	98.000	-
Total Quantity					232.75 Kg (Kilo Gram)		2.3275 Qntl (Quintal)	
<b>Amount</b>					2.3275 X 16549.725891087		38519.49	
<b>19. Painting (AR0920) : Finishing wall two coats with plastic emulsion paint of approved shades on new work (Inside)</b>								
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	16MM AREA	0.000	0.000	0.000	0.000	863.470	863.470	-
ii	CEILING	1.000	16.830	14.000	0.000	0.000	235.620	-
iii		1.000	16.830	5.000	0.000	0.000	84.150	-
iv		2.000	14.000	1.000	0.000	0.000	28.000	-
Total Quantity					1211.24 Sft (Square Foot)		112.52782972 Sqm (Square Meter)	
<b>Amount</b>					112.52782972 X 93.956706925		10572.74	
<b>20. Painting (AR0901a) : Priming one coat in inner surface with primer of approved quality over woodwork</b>								
Priming one coat in inner surface with primer of approved quality over woodwork 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	12MM AREA	1.000	0.000	0.000	0.000	88.790	88.790	-
ii	6MM AREA	1.000	0.000	0.000	0.000	57.180	57.180	-
Total Quantity					145.97 Sqm (Sqm)		145.97 Sqm (Square Meter)	
Amount					145.97 X 70.08814299371		10230.77	
<b>21. Painting (AR0918cb) : Finishing wall two coats with weather coat with one coat waterbound Primer</b>								
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)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	16MM AREA	1.000	0.000	0.000	0.000	80.220	80.220	-
Total Quantity					80.22 Sqm (Sqm)		80.22 Sqm (Square Meter)	
Amount					80.22 X 160.72305542887		12893.20	
<b>22. Painting (AR0903ak) : Painting two coats of enamel paint with a coat of wood primer new wood work in inner surface paint (Inside)(For repair and maintenance) .</b>								
Painting two coats of enamel paint with a coat of wood primer in new wood work inner surface paint including all costs of labour, Paint, Primer, brushes and putty required for the work etc. complete and as per direction of Engineer-in-charge.(Inside)(For repair and maintenance)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	D	2.000	3.500	7.000	0.000	2.250	110.250	-
ii	W	2.000	4.000	3.500	0.000	2.750	77.000	-
Total Quantity					187.25 Sft (Square Foot)		17.39608675 Sqm (Square Meter)	
Amount					17.39608675 X 238.25220524129		4144.66	
<b>23. Other Building Items. (AR1911) : Stainless steel of 304 grade in hand railing using 50mm dia of 2mm</b>								
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		2.000	8.000	0.000	0.000	0.000	16.000	-
Total Quantity					16 Ft (Feet)		4.8767998439424 Rmt (Meter)	
Amount					4.8767998439424 X 3129.0244276074		15259.63	
Total Amount							703861.36	
<b>Addition</b>								
Provision for PH Work (+) @								
Provision for EI Work (+) @							17359.64	
Provision for Contingency (+) @							7305.00	
Display Citizen Board (+) @							2000.00	
Any Other Lumpsum (+) @								
Provision for survey investigation and quality control (+) @								
Total Addition							26664.64	
Grand Net Total Amount							730526.00	

**Ratikanta Lenka**  
JE  
Kendujhar Sadar Block

**Sabyasachi Pradhan**  
AEE  
Kendujhar Sadar Block

**Binod Chandra Panda**  
BDO  
Kendujhar Sadar Block