

## Detailed Estimate

**OD/361/3452/119466/385992/00068076 : SATEIBHANJHA COMMUNITY SHED AT HUNDULA**

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

**Created By:Ranjan Kumar Swain**

<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	6.000	4.000	4.000	4.000	0.000	384.000	-
ii		1.000	57.320	2.000	2.000	0.000	229.280	-
iii	Ded col	6.000	4.000	2.000	2.000	0.000	-	96.000
<b>Total Quantity</b>						<b>517.28 Cft (Cubic Foot)</b>	<b>14.647714304 Cum (Cubic Meter)</b>	
<b>Amount</b>						<b>14.647714304 X 240.77592</b>	<b>3526.82</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	6.000	4.000	4.000	0.500	0.000	48.000	-
ii		1.000	57.320	2.000	0.330	0.000	37.831	-
iii		1.000	12.000	15.000	1.500	0.000	270.000	-
iv	Deduct column	6.000	4.000	2.000	0.330	0.000	-	15.840
<b>Total Quantity</b>						<b>339.9912 Cft (Cubic Foot)</b>	<b>9.62746281216 Cum (Cubic Meter)</b>	
<b>Amount</b>						<b>9.62746281216 X 1071.673832</b>	<b>10317.50</b>	
<b>3. 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	Column	6.000	4.000	4.000	0.500	0.000	48.000	-	
ii	main wall	1.000	57.320	2.000	0.330	0.000	37.831	-	
iii	room fl	1.000	12.000	15.000	0.330	0.000	59.400	-	
iv	column deduction	6.000	1.500	2.000	0.330	0.000	-	5.940	
Total Quantity							139.2912 Cft (Cubic Foot)	3.94428105216 Cum (Cubic Meter)	
Amount							3.94428105216 X 6039.74607812	23822.46	

#### 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	main wall	1.000	57.320	1.250	1.000	0.000	71.650	-	
ii		2.000	57.320	0.830	0.250	0.000	23.788	-	
iii	Ded col	6.000	0.830	0.830	1.000	0.000	-	4.133	
Total Quantity							91.3044 Cft (Cubic Foot)	2.58544843392 Cum (Cubic Meter)	
Amount							2.58544843392 X 5118.755145616	13234.28	

#### 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
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i	long wall	2.000	12.830	0.830	5.000	0.000	106.489	-
ii		2.000	15.830	0.830	5.000	0.000	131.389	-
iii		4.000	4.000	0.830	4.000	0.000	53.120	-
iv		4.000	2.580	0.830	4.000	0.000	34.262	-
v	Deduct Column	6.000	0.830	0.830	5.000	0.000	-	20.667
vi	deduct door	2.000	4.000	0.830	5.000	0.000	-	33.200
vii	deduct window	0.000	3.000	0.830	4.000	0.000	-	9.960
Total Quantity					261.4334 Cft (Cubic Foot)		7.40295730112 Cum (Cubic Meter)	
Amount					7.40295730112 X 5152.085145616		38140.67	

**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.)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column Foundation	6.000	4.000	4.000	0.750	0.000	72.000	-
ii		6.000	2.000	2.000	0.500	0.000	12.000	-
Total Quantity					84 Cft (Cubic Foot)		2.3786112 Cum (Cubic Meter)	
Amount					2.3786112 X 6522.0999604189		15513.54	

**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
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i	plinth Beam	1.000	70.150	0.830	0.830	0.000	48.326	-
Total Quantity					48.326335 Cft (Cubic Foot)		1.368447162928 Cum (Cubic Meter)	
Amount					1.368447162928 X 7278.9220855606		9960.82	

**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)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	6.000	0.830	0.830	9.500	0.000	39.267	-
ii		6.000	0.830	0.830	2.000	0.000	8.267	-
iii	Beam	3.000	12.830	0.830	0.830	0.000	26.516	-
iv		2.000	15.830	0.830	0.830	0.000	21.811	-
Total Quantity					95.860435 Cft (Cubic Foot)		2.714460765808 Cum (Cubic Meter)	
Amount					2.714460765808 X 14577.853347739		39571.01	

**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)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	L.wall Beam	2.000	12.830	0.830	0.660	0.000	14.057	-
ii	wall beam	2.000	15.830	0.830	0.660	0.000	17.343	-
Total Quantity					31.399896 Cft (Cubic Foot)		0.8891445750528 Cum (Cubic Meter)	
Amount					0.8891445750528 X 13186.38418895		11724.60	

**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	Chhaja W	2.000	16.660	1.500	0.000	0.000	49.980	-
ii		2.000	16.660	1.500	0.000	0.000	49.980	-
Total Quantity					99.96 Sft (Square Foot)		9.28658388 Sqm (Square Meter)	
Amount					9.28658388 X 1116.1856260332		10365.55	

**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	Slab Main building	1.000	14.660	17.660	0.330	0.000	85.436	-
Total Quantity					85.435548 Cft (Cubic Foot)		2.4192613256064 Cum (Cubic Meter)	
Amount					2.4192613256064 X 12823.984364809		31024.57	

**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	Reinforcement	1.000	15.900	0.000	0.000	0.000	15.900	-
Total Quantity					15.9 Qntl (Quintal)		15.9 Qntl (Quintal)	
Amount					15.9 X 9269.7980487		147389.79	

**13. 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	Inside hall	6.000	3.320	0.000	9.500	0.000	189.240	-
ii		2.000	12.000	0.000	9.500	0.000	228.000	-
iii		2.000	15.000	0.000	9.500	0.000	285.000	-
iv		0.000	3.320	0.000	9.500	0.000	31.540	-
v		0.000	12.000	0.000	9.500	0.000	114.000	-
vi	Deduction door	2.000	4.000	0.000	7.000	0.000	-	56.000
vii		4.000	5.000	0.000	4.000	0.000	-	80.000
Total Quantity					711.78 Sft (Square Foot)		66.12649734 Sqm (Square Meter)	
Amount					<b>66.12649734 X 250.872466204</b>		<b>16589.32</b>	

**14. 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	Outside Up to plinth	2.000	13.660	0.000	2.000	0.000	54.640	-
ii		2.000	16.660	0.000	2.000	0.000	66.640	-
iii	Long wall	2.000	13.660	0.000	9.500	0.000	259.540	-
iv	Short Wall	2.000	16.660	0.000	9.500	0.000	316.540	-
v	Deduction Door	2.000	4.000	0.000	7.000	0.000	-	56.000
vi	Deduct Opening	0.000	12.000	0.000	7.000	0.000	-	84.000
vii		0.000	2.000	4.000	0.000	7.000	-	56.000

viii	Deduct Window	0.000	0.000	3.000	0.000	4.000	-	12.000
Total Quantity					489.36 Sft (Square Foot)		45.46301208 Sqm (Square Meter)	
Amount					45.46301208 X 175.4919523224		7978.39	

**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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	S&C Beam	6.000	13.660	0.830	0.000	0.000	68.027	-
ii		4.000	16.660	0.830	0.000	0.000	55.311	-
iii	Slab -Hall	1.000	14.660	17.660	0.000	0.000	258.896	-
Total Quantity					382.2336 Sft (Square Foot)		35.5106481408 Sqm (Square Meter)	
Amount					35.5106481408 X 192.1069249216		6821.84	

**16. Other Building Items. (AR1901B) : Vitrified Tile 600mmx600mm Plain Ivory**

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	Hall	1.000	12.000	15.000	0.000	0.000	180.000	-
ii	Verandah	0.000	14.660	3.000	0.000	0.000	43.980	-
iii	Col	6.000	3.500	0.500	0.000	0.000	10.500	-
Total Quantity					234.48 Sft (Square Foot)		21.78389544 Sqm (Square Meter)	
Amount					21.78389544 X 1020.0792604782		22221.30	

**17. 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	Window	4.000	5.000	0.000	4.000	2.000	160.000	-
ii	Door	2.000	4.000	0.000	7.000	2.500	140.000	-
Total Quantity					300 Kg (Kilo Gram)		3 Qntl (Quintal)	
Amount					3 X 16572.542801087		49717.63	

**18. 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Paintings	1.000	136.000	0.000	2.250	0.000	306.000	-
ii		1.000	80.000	0.750	0.000	0.000	60.000	-
Total Quantity					366 Sft (Square Foot)		34.002498 Sqm (Square Meter)	
Amount					34.002498 X 230.39074936873		7833.86	

**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	inside wall	1.000	634.240	0.000	0.000	0.000	634.240	-
ii		1.000	382.230	0.000	0.000	0.000	382.230	-
iii	Out side wall	1.000	641.360	0.000	0.000	0.000	641.360	-
Total Quantity					1657.83 Sft (Square Foot)		154.01738049 Sqm (Square Meter)	
Amount					154.01738049 X 71.85468177671		11066.87	

**20. Painting (AR0919) : Finishing wall One Coat with plastic emulsion paint of approved shades on old work (Inside)**

Finishing wall One Coat with plastic emulsion paint of approved shades on old 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	1.000	634.240	0.000	0.000	0.000	634.240	-
ii	ceiling	1.000	382.230	0.000	0.000	0.000	382.230	-
Total Quantity					1016.47 Sft (Square Foot)		94.43311241 Sqm (Square Meter)	
Amount					94.43311241 X 60.7628208375		5738.02	

**21. 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)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Outside wall	1.000	641.360	0.000	0.000	0.000	641.360	-
Total Quantity					641.36 Sft (Square Foot)		59.58426808 Sqm (Square Meter)	
Amount					59.58426808 X 160.77218538831		9579.49	

**Total Amount (A) : 492138.33**

**Additional Components**

#	Item Name	Remark	Amount (in Rs.)
1	Provision for Contingency @ Rs.5000	-	5000
2	Display Citizen Board @ Rs.2861.67	-	2861.67

**Additional Components Amount (F) : 7861.67**

**Grand Total Amount (A + F) : 499999.99586622**

**Ranjan Kumar Swain**  
**JE**  
**Kendujhar Sadar Block**

**Sabyasachi Pradhan**  
**AEE**  
**Kendujhar Sadar Block**

**Binod Chandra Panda**  
**BDO**  
**Kendujhar Sadar Block**