

Detailed Estimate

OD/361/3452/119454/386004/00079454 : CONST OF COMMUNITY CENTRE AT HANDIBHANGA NEAR PRIMARY SCHOOL HANDIBHANGA

Block : Kendujhar Sadar, Gram Panchayat : Handibhanga

Created By: Siddhartha Sankar Parida

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									
Sl No	Description	No	L	B	D	CF	Quantity	Deduction	
i	Wall	1.000	63.330	1.660	1.500	0.000	157.692	-	
ii	Column	6.000	4.000	4.000	4.000	0.000	384.000	-	
iii	Step	1.000	12.000	2.500	1.000	0.000	30.000	-	
iv	Column	6.000	4.000	1.660	1.500	0.000	-	59.760	
Total Quantity					511.9317 Cft (Cubic Foot)		14.49626756256 Cum (Cubic Meter)		
Amount					14.49626756256 X 240.77592		3490.35		
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.									
Sl No	Description	No	L	B	D	CF	Quantity	Deduction	
i	Wall	1.000	63.330	1.660	0.330	0.000	34.692	-	
ii	Column	6.000	4.000	4.000	0.500	0.000	48.000	-	
iii	Step	1.000	12.000	2.500	0.330	0.000	9.900	-	
iv	Inside Room	1.000	17.583	11.583	1.660	0.000	338.082	-	
v	Column	6.000	4.000	1.660	0.336	0.000	-	13.386	

Total Quantity	417.28798974 Cft (Cubic Foot)	11.81626054787 Cum (Cubic Meter)
Amount	11.81626054787 X 1080.965832	12772.97

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	Wall	1.000	63.330	1.660	0.330	0.000	34.692	-
ii	Column	6.000	4.000	4.000	0.500	0.000	48.000	-
iii	Step	1.000	12.000	2.500	0.330	0.000	9.900	-
iv	Column	6.000	4.000	1.660	0.330	0.000	-	13.147
v	Floor	1.000	17.583	11.583	0.330	0.000	67.209	-
Total Quantity					146.65405737 Cft (Cubic Foot)		4.1527736117348 Cum (Cubic Meter)	
Amount					4.1527736117348 X 6125.45146632		25437.61	

4. 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	6.000	4.000	4.000	0.750	0.000	72.000	-
ii	2nd step	6.000	1.500	1.500	0.750	0.000	10.125	-
Total Quantity					82.125 Cft (Cubic Foot)		2.3255172 Cum (Cubic Meter)	

Amount		2.3255172 X 6605.6345428929		15361.52				
5. 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		1.000	63.330	0.833	0.833	0.000	43.944	-
ii	Tie Beam Middle	1.000	12.833	0.833	0.833	0.000	8.905	-
Total Quantity					52.848667907 Cft (Cubic Foot)		1.4965051593889 Cum (Cubic Meter)	
Amount		1.4965051593889 X 7362.4566680346		11017.95				
6. 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	Lintel	1.000	63.330	0.833	0.500	0.000	26.377	-
Total Quantity					26.376945 Cft (Cubic Foot)		0.746910676176 Cum (Cubic Meter)	
Amount		0.746910676176 X 13269.918771424		9911.44				
7. 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 upto Plinth	4.000	0.833	0.833	2.670	0.000	7.411	-
ii	Upto RL	4.000	0.833	0.833	8.660	0.000	24.036	-
iii	Hall Beam	1.000	12.000	0.833	0.833	0.000	8.327	-
iv	Wall Beam	1.000	63.330	0.833	0.833	0.000	43.944	-
v	column up to RL	2.000	1.250	0.830	8.660	0.000	17.970	-
vi	Column upto plinth	2.000	1.250	0.833	2.660	0.000	5.539	-
Total Quantity					107.22665785 Cft (Cubic Foot)		3.0363158250069 Cum (Cubic Meter)	
Amount					3.0363158250069 X 14661.387930213		44516.60	
8. 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	1.000	20.660	14.660	0.330	0.000	99.949	-
ii	Chajja front	1.000	13.660	1.500	0.166	0.000	3.401	-
iii	Window	2.000	4.500	1.500	0.166	0.000	2.241	-
Total Quantity					105.591288 Cft (Cubic Foot)		2.9900073840384 Cum (Cubic Meter)	
Amount					2.9900073840384 X 12907.518947283		38593.58	
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								

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	Qty	1.000	10.850	1.000	1.000	0.000	10.850	-
Total Quantity					10.85 Qntl (Quintal)		10.85 Qntl (Quintal)	
Amount					10.85 X 9248.3621622		100344.73	

10. 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	Roof slab	1.000	20.660	14.660	0.000	0.000	302.876	-
Total Quantity					302.8756 Sft (Square Foot)		28.1380518668 Sqm (Square Meter)	
Amount					28.1380518668 X 275.9558718752		7764.86	

11. 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		2.000	18.000	10.000	0.000	0.000	360.000	-
ii		2.000	12.000	10.000	0.000	0.000	240.000	-
iii	Door	1.000	3.500	7.000	0.000	0.000	-	24.500
iv	W	3.000	3.500	4.500	0.000	0.000	-	47.250
v	Skylight	4.000	1.000	1.000	0.000	0.000	-	4.000
Total Quantity					524.25 Sft (Square Foot)		48.70439775 Sqm (Square Meter)	

Amount		48.70439775 X 251.142998744					12231.77	
12. 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		2.000	19.660	0.000	10.000	0.000	393.200	-
ii		2.000	13.660	0.000	10.000	0.000	273.200	-
iii	Plinth	2.000	14.083	0.000	2.250	0.000	63.374	-
iv	Plinth	2.000	20.083	0.000	2.250	0.000	90.374	-
v	Tread	3.000	12.000	0.000	1.000	0.000	36.000	-
vi	Riser	3.000	12.000	0.000	0.500	0.000	18.000	-
vii	Sides	3.000	1.000	0.000	1.000	0.000	3.000	-
viii		3.000	1.000	0.000	0.500	0.000	1.500	-
ix	window	3.000	3.500	0.000	4.500	0.500	-	23.625
x	Door	1.000	3.500	0.000	7.000	0.500	-	12.250
xi	sky light	4.000	1.000	0.000	1.000	0.500	-	2.000
Total Quantity					840.772 Sft (Square Foot)		78.110241116 Sqm (Square Meter)	
Amount		78.110241116 X 175.7173160464					13725.32	
13. 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 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	Wall Footing	1.000	63.330	1.250	2.083	0.000	164.895	-	
ii	For Plinth Band	2.000	76.160	0.250	0.833	0.000	31.721	-	
iii	Steps	3.000	12.000	2.000	0.500	0.000	36.000	-	
iv	steps	3.000	12.000	1.000	0.500	0.000	18.000	-	
v	Column	2.000	1.250	0.830	2.083	0.000	-	4.322	
vi	Column	4.000	0.833	0.833	2.083	0.000	-	5.781	
Total Quantity					240.512419352 Cft (Cubic Foot)		6.8105420763067 Cum (Cubic Meter)		
Amount					6.8105420763067 X 5122.970901776		34890.21		
14. 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	Wall	1.000	63.330	0.833	8.660	0.000	456.849	-	
ii	Column	2.000	1.250	0.833	8.660	0.000	-	18.035	
iii		4.000	0.833	0.833	8.660	0.000	-	24.036	
iv	w	3.000	3.500	0.833	4.500	0.000	-	39.359	
v	Door	1.000	3.500	0.833	7.000	0.000	-	20.409	
vi	Skylight	4.000	1.000	0.833	1.000	0.000	-	3.332	
Total Quantity					351.67817244 Cft (Cubic Foot)		9.958400473349 Cum (Cubic Meter)		
Amount					9.958400473349 X 5156.300901776		51348.51		
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	Front Chajja	1.000	13.660	0.000	3.170	0.000	43.302	-
ii	Carnics	2.000	14.660	0.000	0.833	0.000	24.424	-
iii		2.000	18.000	0.000	0.833	0.000	29.988	-
iv	W Chajja	2.000	4.500	0.000	3.170	0.000	28.530	-
Total Quantity					126.24376 Sft (Square Foot)		11.72842403528 Sqm (Square Meter)	
Amount					11.72842403528 X 192.2659611376		2254.98	

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)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Floor	1.000	18.000	12.000	0.000	0.000	216.000	-
ii	Door sill	1.000	3.500	0.830	0.000	0.000	2.905	-
iii	Step	2.000	12.000	1.000	0.000	0.000	24.000	-
Total Quantity					242.905 Sft (Square Foot)		22.566603215 Sqm (Square Meter)	
Amount					22.566603215 X 1016.5839902422		22940.85	

17. Flooring (AR0817aa) : Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm plain (Ivory) in dados skirting and risers of steps on 12mm thick cement plaster (1:3)

Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm plain (Ivory) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the Vitrified tiles including rubbing and polishing complete including cost of precast tiles.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
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i	Dado	2.000	30.000	0.500	0.000	0.000	30.000	-
ii	Riser	2.000	12.000	0.500	0.000	0.000	12.000	-
Total Quantity					42 Sft (Square Foot)		3.901926 Sqm (Square Meter)	
Amount					3.901926 X 1535.310493091		5990.67	

18. Other Building Items. (AR1902) : cement based wall putty (water based)

Finishing surface of walls with cement based wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost of scaffolding staging charges with cost of all materials taxes,labour,T&P,etc.complete. and as per the direction of Engineer in Charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Ceiling	1.000	18.000	12.000	0.000	0.000	216.000	-
ii	Beam sides	2.000	12.000	0.833	0.000	0.000	19.992	-
Total Quantity					235.992 Sft (Square Foot)		21.924364776 Sqm (Square Meter)	
Amount					21.924364776 X 79.21834		1736.81	

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	Inner	2.000	30.000	0.000	9.500	0.000	570.000	-
ii	Ceiling	1.000	18.000	12.000	0.000	0.000	216.000	-
iii	Beam sides	2.000	12.000	0.000	0.833	0.000	19.992	-
iv	D	1.000	3.500	0.000	7.000	0.500	12.250	-
v	W	3.000	3.500	0.000	4.500	0.500	23.625	-
vi	sky light	4.000	1.000	0.000	1.000	0.000	4.000	-

Total Quantity	845.867 Sft (Square Foot)	78.583581901 Sqm (Square Meter)
Amount	78.583581901 X 71.84257680551	5645.65

20. Painting (AR0901di) : Priming one coat with outer surface primer of approved quality water-bound primer over plastering surfaces(outer surface)

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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Front Chajja	1.000	13.660	0.000	3.166	0.000	43.248	-
ii	W Chajja	2.000	4.500	0.000	3.166	0.000	28.494	-
iii	Carnics	2.000	14.660	0.000	0.833	0.000	24.424	-
iv	Carnics	2.000	18.000	0.000	0.833	0.000	29.988	-
v	Wall	2.000	13.660	0.000	10.000	0.000	273.200	-
vi		2.000	19.660	0.000	10.000	0.000	393.200	-
vii	Plinth	2.000	14.083	0.000	2.250	0.000	63.374	-
viii	Plinth	2.000	20.083	0.000	2.250	0.000	90.374	-
ix	W	3.000	3.500	0.000	4.500	0.000	-	47.250
x	D	1.000	3.500	0.000	7.000	0.000	-	24.500
xi	Skylight	4.000	1.000	0.000	1.000	0.000	-	4.000

Total Quantity	870.55012 Sft (Square Foot)	80.87671779836 Sqm (Square Meter)
Amount	80.87671779836 X 72.860453727742	5892.71

21. 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	Door	1.000	3.500	0.000	7.000	2.500	61.250	-
ii	W	3.000	3.500	0.000	4.500	3.500	165.375	-
iii	Sky light	4.000	1.000	0.000	1.000	0.500	2.000	-
Total Quantity					228.625 Kg (Kilo Gram)		2.28625 Qntl (Quintal)	
Amount					2.28625 X 16552.127671087		37842.30	

22. 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	Inner side	1.000	84.867	1.000	1.000	0.000	84.867	-
Total Quantity					84.867 Sft (Square Foot)		7.884398901 Sqm (Square Meter)	
Amount					7.884398901 X 78.865539425		621.81	

23. 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	As per outer Area of Primer	1.000	870.550	1.000	1.000	0.000	870.550	-
Total Quantity					870.55 Sft (Square Foot)		80.87670665 Sqm (Square Meter)	
Amount					80.87670665 X 87.8807022125		7107.50	

24. 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	D	1.000	3.500	0.000	7.000	2.250	55.125	-
ii	W	3.000	3.500	0.000	4.500	2.750	129.938	-
iii	Skylight	4.000	1.000	0.000	1.000	0.000	4.000	-
Total Quantity					189.0625 Sft (Square Foot)		17.5644734375 Sqm (Square Meter)	
Amount					17.5644734375 X 66.12221647451		1161.40	

25. 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		1.000	189.060	0.000	0.000	0.000	189.060	-
Total Quantity					189.06 Sft (Square Foot)		17.56424118 Sqm (Square Meter)	
Amount					17.56424118 X 164.2427377702		2884.80	
Total Amount							475486.91	

Addition

Provision for PH Work (+) @								
Provision for EI Work (+) @							12000.00	
Provision for Contingency (+) @							5000.00	
Display Citizen Board (+) @							5000.00	
Any Other Lumpsum (+) @							2512.99	
Provision for survey investigation and quality control (+) @								

Total Addition	24512.99
Grand Net Total Amount	499999.90

Siddhartha Sankar Parida
JE
Kendujhar Sadar Block

Sabyasachi Pradhan
AEE
Kendujhar Sadar Block

Binod Chandra Panda
BDO
Kendujhar Sadar Block