

## Detailed Estimate

OD/346/3300/116117/392077/00066555 : provision of facility centre at ratai gp office.

Block : Baliapal, Gram Panchayat : Ratii

Created By:PREMANANDA CHAYANI

<b>1. 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	COL	9.000	1.200	1.200	1.200	0.000	15.552	-
ii	WALL	2.000	11.050	0.600	0.100	0.000	1.326	-
iii	WALL	2.000	2.450	0.600	0.100	0.000	0.294	-
iv	WALL	1.000	3.200	0.600	0.100	0.000	0.192	-
v	INSIDE	1.000	8.300	7.100	0.300	0.000	17.679	-
Total Quantity					35.043 cum (cum)		35.043 Cum (Cubic Meter)	
Amount					35.043 X 912.437232		31974.54	
<b>2. 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	COL	9.000	1.200	1.200	0.150	0.000	1.944	-
ii	WALL	2.000	11.050	0.600	0.100	0.000	1.326	-
iii	WALL	2.000	2.450	0.600	0.100	0.000	0.294	-
iv	WALL	1.000	3.200	0.600	0.100	0.000	0.192	-
v	INSIDE	1.000	8.300	7.100	0.100	0.000	5.893	-

Total Quantity	9.649 cum (cum)	9.649 Cum (Cubic Meter)
Amount	9.649 X 7100.7150292	68514.80

### 3. 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	2.000	16.400	0.000	3.900	0.000	127.920	-
ii	ENTRANCE	1.000	1.200	0.000	2.100	0.500	-	1.260
iii	WINDOW	2.000	1.350	0.000	1.350	0.500	-	1.823
Total Quantity					124.8375 Sqm (Sqm)		124.8375 Sqm (Square Meter)	
Amount					124.8375 X 181.673025224		22679.61	

### 4. 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	WALL	2.000	15.400	0.000	3.150	0.000	97.020	-
ii	WALL	4.000	3.550	0.000	3.150	0.000	44.730	-
iii	WALL	2.000	4.000	0.000	3.150	0.000	25.200	-
iv	DOOR	1.000	1.200	0.000	2.100	0.500	-	1.260
v	DOOR	2.000	0.750	0.000	2.100	0.500	-	1.575
vi	WINDOW	2.000	1.350	0.000	1.350	0.500	-	1.823
Total Quantity					162.2925 Sqm (Sqm)		162.2925 Sqm (Square Meter)	

<b>Amount</b>						<b>162.2925 X 258.28904124</b>	<b>41918.37</b>	
<b>5. R.C.C. Work (AR0410c) : R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc</b>								
Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. foundation, plinth band and footings bases of columns mass concrete precast slabs, etc								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	P BEAM	2.000	23.000	0.000	0.300	0.000	13.800	-
ii	P BEAM	2.000	3.550	0.000	0.300	2.000	4.260	-
iii	P BEAM	2.000	4.000	0.000	0.300	0.000	2.400	-
Total Quantity					20.46 Sqm (Sqm)		20.46 Sqm (Square Meter)	
<b>Amount</b>						<b>20.46 X 216.39264180804</b>	<b>4427.39</b>	
<b>6. R.C.C. Work (AR0410d) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting</b>								
Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. beams, column, grider and bressmer, etc. Data for 4.2sqm								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	COL	9.000	0.875	1.000	2.650	0.000	20.869	-
ii	BEAM	2.000	23.000	1.000	0.300	0.000	13.800	-
iii	BEAM	2.000	3.550	2.000	0.300	0.000	4.260	-
iv	BEAM	2.000	2.000	4.000	0.300	0.000	4.800	-
Total Quantity					43.72875 Sqm (Sqm)		43.72875 Sqm (Square Meter)	
<b>Amount</b>						<b>43.72875 X 1047.9038224181</b>	<b>45823.52</b>	
<b>7. R.C.C. Work (AR0410e) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting</b>								

Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. Lintels Data for 7.8 sqm

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	LINTEL	2.000	8.800	0.000	0.300	0.000	5.280	-
ii	LINTEL	2.000	8.800	0.000	0.150	0.000	2.640	-
iii	LINTEL	2.000	7.100	0.000	0.150	0.000	2.130	-
iv	LINTEL	2.000	3.550	0.000	0.150	2.000	2.130	-
v	LINTEL	2.000	4.000	0.000	0.150	0.000	1.200	-
Total Quantity					13.38 Sqm (Sqm)		13.38 Sqm (Square Meter)	
Amount					13.38 X 499.57698698128		6684.34	

**8. R.C.C. Work (AR0410a) : Centring & Shuttering for R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas**

Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas up to 4.3m height

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	ROOF SLAB	1.000	8.300	7.100	0.000	0.000	58.930	-
ii	SLAB	1.000	9.100	1.050	0.000	0.000	9.555	-
iii	SLAB	1.000	26.400	0.000	0.300	0.000	7.920	-
Total Quantity					76.405 Sqm (Sqm)		76.405 Sqm (Square Meter)	
Amount					76.405 X 663.29946175911		50679.40	

**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
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i	COL	9.000	6.000	1.580	0.000	4.000	341.280	-
ii	COL	9.000	6.000	0.890	0.000	2.000	96.120	-
iii	STIRRUPS	9.000	1.050	0.400	0.000	30.000	113.400	-
iv	G BEAM	2.000	16.800	0.890	0.000	6.000	179.424	-
v	G BEAM	2.000	3.500	0.890	0.000	6.000	37.380	-
vi	G BEAM	2.000	4.050	0.890	0.000	6.000	43.254	-
vii	STIRRUPS	230.000	0.875	0.400	0.000	0.000	80.500	-
viii	LINTEL	4.000	0.000	0.620	0.000	24.000	59.520	-
ix	LINTEL	6.000	0.000	0.890	0.000	9.000	48.060	-
x	LINTEL	2.000	0.000	0.620	4.000	4.000	19.840	-
xi	STIRRUPS	160.000	0.650	0.400	0.000	0.000	41.600	-
xii	STIRRUPS	50.000	0.650	0.400	0.000	0.000	13.000	-
xiii	STIRRUPS	54.000	0.875	0.400	0.000	0.000	18.900	-
xiv	WALL BEAM	6.000	32.900	0.890	0.000	0.000	175.686	-
xv	WALL BEAM	6.000	3.500	0.890	2.000	0.000	37.380	-
xvi	WALL BEAM	2.000	4.000	0.890	4.000	0.000	28.480	-
xvii	STIRRUPS	280.000	1.000	0.400	0.000	0.000	112.000	-
xviii	ROOF SLAB	60.000	9.000	0.400	0.000	0.000	216.000	-
xix	R SLAB	62.000	8.700	0.620	0.000	0.000	334.428	-
xx	ETOP	20.000	9.000	0.400	0.000	0.000	72.000	-
xxi	ETOP	20.000	8.700	0.400	0.000	0.000	69.600	-
xxii	ETOP	62.000	1.000	0.400	0.000	0.000	24.800	-
xxiii	ETOP	60.000	1.000	0.400	0.000	0.000	24.000	-

xxiv	ETOP	71.000	2.000	0.400	0.000	0.000	56.800	-
xxv	CHHAJA	7.000	8.800	0.400	0.000	0.000	24.640	-
xxvi	CHHAJA	89.000	0.550	0.620	0.000	0.000	30.349	-
Total Quantity					2298.441 Kg (Kilo Gram)		22.98441 Qntl (Quintal)	
Amount					22.98441 X 8489.0560499		195115.94	

**10. 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
i	FLOORING	1.000	8.300	7.100	0.000	0.000	58.930	-
Total Quantity					58.93 Sqm (Sqm)		58.93 Sqm (Square Meter)	
Amount					58.93 X 1553.438923501		91544.16	

**11. Flooring (AR0817b) : Fixing ceramic tiles (20cmx30cm / 20cmx20cm special plain/printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753)**

Fixing ceramic tiles (20cmx30cm / 20cmx20cm special plain/printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753) in wall cladding on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the ceramic tiles including rubbing and polishing, cost of precast tiles complete as per direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	WALL	2.000	11.050	0.000	2.100	0.000	46.410	-
ii	WALL	1.000	3.600	0.000	2.100	0.000	7.560	-
Total Quantity					53.97 Sqm (Sqm)		53.97 Sqm (Square Meter)	
Amount					53.97 X 903.503923501		48762.11	

**12. Concrete (AR0317) : 2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips**

2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips including hoisting and laying in position compacting and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete as per specificaion and direction of Engineer-in charge. (new work)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	ROOF	1.000	9.100	8.650	0.000	0.000	78.715	-
Total Quantity					78.715 Sqm (Sqm)		78.715 Sqm (Square Meter)	
Amount					78.715 X 385.009825874		30306.05	

**13. R.C.C. Work (AR0404A) : 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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	PBEAM	2.000	15.900	0.250	0.300	0.000	2.385	-
ii	PBEAM	2.000	3.550	0.250	0.300	0.000	0.533	-
iii	PBEAM	2.000	4.000	0.250	0.300	0.000	0.600	-
iv	COL	9.000	1.200	1.200	0.300	0.000	3.888	-
v	COL	9.000	1.690	0.650	0.100	0.000	0.989	-
vi	COL	9.000	0.375	0.250	2.800	0.000	2.363	-
vii	LINTEL	2.000	7.100	0.250	0.150	0.000	0.533	-
viii	LINTEL	1.000	8.800	0.250	0.100	0.000	0.220	-
ix	LINTEL	1.000	8.800	0.250	0.300	0.000	0.660	-
x	LINTEL	2.000	3.550	0.250	0.150	0.000	0.266	-
xi	LINTEL	2.000	4.000	0.250	0.150	0.000	0.300	-
xii	W BEAM	2.000	15.900	0.250	0.300	0.000	2.385	-

xiii	W BEAM	2.000	3.800	0.250	0.300	0.000	0.570	-
xiv	W BEAM	1.000	4.375	0.250	0.300	0.000	0.328	-
xv	R SLAB	1.000	9.100	8.650	0.125	0.000	9.839	-
xvi	CHHAJA	1.000	8.800	0.450	0.080	0.000	0.317	-
Total Quantity					26.1747 cum (cum)		26.1747 Cum (Cubic Meter)	
Amount					26.1747 X 7194.572826724		188315.79	

**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  $\pm 8$  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	BRICK WORK	2.000	6.175	0.450	0.250	0.000	1.389	-
ii	B WORK	2.000	4.850	0.450	0.250	0.000	1.091	-
iii	BW	2.000	3.550	0.450	0.250	0.000	0.799	-
iv	BW	1.000	3.250	0.450	0.250	0.000	0.366	-
v	BW	2.000	6.175	0.250	0.300	0.000	0.926	-
vi	BW	2.000	4.850	0.250	0.300	0.000	0.728	-
vii	BW	2.000	3.550	0.250	0.300	0.000	0.533	-
viii	BW	1.000	3.250	0.250	0.300	0.000	0.244	-
Total Quantity					6.075 cum (cum)		6.075 Cum (Cubic Meter)	
Amount					6.075 X 5234.06867816		31796.97	

**15. 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	2.000	8.425	0.250	2.650	0.000	11.163	-
ii	WALL	2.000	6.850	0.250	2.650	0.000	9.076	-
iii	WALL	2.000	3.550	0.250	2.650	0.000	4.704	-
iv	ENTRANCE	1.000	1.500	0.250	2.100	0.000	-	0.788
v	DOOR	2.000	0.750	0.250	2.100	0.000	-	0.788
vi	WINDOW	2.000	1.350	0.250	1.350	0.000	-	0.911
Total Quantity					22.456875 cum (cum)		22.456875 Cum (Cubic Meter)	
Amount					22.456875 X 5267.39867816		118289.31	

**16. 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	COL	9.000	1.200	1.200	1.200	0.000	15.552	-
ii	WALL	2.000	11.050	0.600	0.450	0.000	5.967	-
iii	WALL	2.000	2.450	0.600	0.450	0.000	1.323	-
iv	WALL	1.000	3.200	0.600	0.450	0.000	0.864	-
Total Quantity					23.706 cum (cum)		23.706 Cum (Cubic Meter)	
Amount					23.706 X 240.77592		5707.83	

**17. Other Building Items. (AR1919) : UPVC Door with 6 mm thick clear toughened glass**

Supplying, fitting and fixing of Un-plasticised Poly Vinyl Chloride (UPVC) (FENESTA/NCL VEKA LTD) casement Window with top fixed - 60 Series duly manufactured using UPVC reinforced profiles of 60mm x 55 mm x 2.5 mm for outer frames, 75 mm x 60 mm x 2.25mm for casement window Sash Profile and 74 mm x 60 mm x 2.5 mm mullion profile capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.5 mm prefabricated & welded through fusion welding the window sash shall be fitted with 6 mm thick clear toughened glass of SAINT-GOBAIN make duly fixed with EPDM weathering seal resistant accessories like clipping locking system made of aluminium 1 no per set of sashes and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc, including cost and conveyance of all materials accessories, labour charges, materials and product conforming to ASTM D 638-14, EN-477-95 and other applicable codes and standards and as per direction of Engineer in Charge. (Rate given by Office of the Engineer-IN-Chief (Civil) Odisha Nirman Soudha Unit-V, Bhubaneswar vide letter no 16100 dated 08/05/2018)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	WINDOW	1.000	1.350	0.000	1.350	0.000	1.823	-
Total Quantity					1.8225 Sqm (Sqm)		1.8225 Sqm (Square Meter)	
Amount					1.8225 X 7661.86		13963.74	
Total Amount							996503.87	
<b>Addition</b>								
Provision for PH Work (+) @								
Provision for EI Work (+) @								
Provision for Contingency (+) @							100.00	
Display Citizen Board (+) @							1500.00	
Any Other Lumpsum (+) @							1896.00	
Provision for survey investigation and quality control (+) @								
Total Addition							3496.00	
Grand Net Total Amount							999999.87	

PREMANANDA CHAYANI  
JE  
Baliapal Block

AMIT KUMAR MURMU  
AEE  
Baliapal Block

Radha Ranjan Das  
BDO  
Baliapal Block