

## Detailed Estimate

**OD/354/3372/117743/412776/00068636 : Improvement of AWC building at Padmanabhapur-IV**

**Block : Digapahandi, Gram Panchayat : Padmanavapur**

**Created By: SANDHYA RANI MAHAPATRA**

<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								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	toilet LW	1.000	12.500	1.000	1.000	0.000	12.500	-
ii	sw	2.000	7.500	1.000	1.000	0.000	15.000	-
Total Quantity						27.5 Cft (Cubic Foot)	0.778712 Cum (Cubic Meter)	
Amount						0.778712 X 240.77592	187.50	
<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.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	toilet Lw	1.000	12.500	1.000	0.250	0.000	3.125	-
ii	SW	2.000	7.500	1.000	0.250	0.000	3.750	-
Total Quantity						6.875 Cft (Cubic Foot)	0.194678 Cum (Cubic Meter)	
Amount						0.194678 X 677.127432	131.82	
<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	Toilet LW	1.000	12.500	1.000	1.000	0.000	12.500	-
ii	Sw	2.000	7.500	1.000	1.000	0.000	15.000	-
Total Quantity						27.5 Cft (Cubic Foot)	0.778712 Cum (Cubic Meter)	
Amount						0.778712 X 5456.93818292	4249.38	

**4. 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	toilet LW	1.000	12.500	0.750	0.500	0.000	4.688	-
ii	Sw	2.000	7.500	0.750	0.500	0.000	5.625	-
iii	lintel LW	1.000	12.500	0.750	0.500	0.000	4.688	-
iv	sw	2.000	7.500	0.750	0.500	0.000	5.625	-
v	slab	1.000	8.750	13.750	0.332	0.000	39.944	-
Total Quantity						60.56875 Cft (Cubic Foot)	1.71511318 Cum (Cubic Meter)	
Amount						1.71511318 X 5705.7644703684	9786.03	

**5. 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	1.380	1.000	1.000	0.000	1.380	-

Total Quantity						1.38 Qntl (Quintal)	1.38 Qntl (Quintal)	
Amount						1.38 X 8442.3395301	11650.43	
<b>6. 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								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Plinth LW	2.000	12.500	1.000	0.500	0.000	12.500	-
ii	SW	4.000	7.500	1.000	0.500	0.000	15.000	-
Total Quantity					27.5 Sft (Square Foot)		2.5548325 Sqm (Square Meter)	
Amount					2.5548325 X 216.39264180804		552.85	
<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 LW	2.000	12.500	1.000	0.500	0.000	12.500	-
ii	SW	4.000	7.500	1.000	0.500	0.000	15.000	-
Total Quantity					27.5 Sft (Square Foot)		2.5548325 Sqm (Square Meter)	
Amount					2.5548325 X 499.57698698128		1276.34	
<b>8. R.C.C. Work (AR0410a) : Centring &amp; Shuttering for R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas</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. 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	slab	1.000	8.750	13.750	1.000	0.000	120.312	-
Total Quantity					120.3125 Sft (Square Foot)		11.1773921875 Sqm (Square Meter)	
Amount					11.1773921875 X 663.29946175911		7413.96	

**9. 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	toilet LW	1.000	12.500	0.750	8.500	0.000	79.688	-
ii	sw	2.000	7.500	0.750	8.500	0.000	95.625	-
iii	Deduction V	5.000	2.000	0.750	1.000	0.000	-	7.500
iv	D	2.000	3.500	0.750	7.000	0.000	-	36.750
Total Quantity					131.0625 Cft (Cubic Foot)		3.7112706 Cum (Cubic Meter)	
Amount					3.7112706 X 5074.961105256		18834.55	

**10. 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	Toilet LW	1.000	12.500	0.000	8.500	0.000	106.250	-
ii	SW	3.000	7.500	0.000	8.500	0.000	191.250	-
iii	Deduct V	5.000	2.000	0.000	1.000	0.000	-	10.000
iv	D	2.000	3.500	0.000	7.000	0.000	-	49.000

Total Quantity	238.5 Sft (Square Foot)	22.1573655 Sqm (Square Meter)
Amount	22.1573655 X 244.705967764	5422.04

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

12mm thick cement plster (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	Toilet Lw	1.000	13.250	0.000	8.500	0.000	112.625	-
ii	Sw	2.000	8.250	0.000	8.500	0.000	140.250	-
Total Quantity					252.875 Sft (Square Foot)		23.492846125 Sqm (Square Meter)	
Amount					23.492846125 X 170.3523851184		4002.06	

#### 12. 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	Toilet floor	2.000	6.000	7.500	0.000	0.000	90.000	-
Total Quantity					90 Sft (Square Foot)		8.36127 Sqm (Square Meter)	
Amount					8.36127 X 1013.6475360382		8475.38	

#### 13. 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	toilet Lw	4.000	6.000	0.000	4.000	0.000	96.000	-
ii	sw	4.000	7.500	0.000	4.000	0.000	120.000	-
iii	deduction D	2.000	3.500	0.000	4.000	0.000	-	28.000
Total Quantity					188 Sft (Square Foot)		17.465764 Sqm (Square Meter)	
Amount					17.465764 X 1535.504062621		26818.75	
Total Amount							98801.09	
<b>Addition</b>								
Provision for PH Work (+) @								
Provision for EI Work (+) @								
Provision for Contingency (+) @							1000.00	
Display Citizen Board (+) @							198.91	
Any Other Lumpsum (+) @								
Provision for survey investigation and quality control (+) @								
Total Addition							1198.91	
Grand Net Total Amount							100000.00	

**SANDHYA RANI MAHAPATRA**  
JE  
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**ASHOK KUMAR SATAPATHY**  
AEE  
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**ANAMIKA PANDEY**  
BDO  
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