

Detailed Estimate

OD/361/3452/119466/385974/00102175 : Construction of Protection Wall at Thakurani Andhari Sala, Palaspanga GP
Block : Kendujhar Sadar, Gram Panchayat : Palaspanga
Created By:Ranjan Kumar Swain

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								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Wall Portion	1.000	216.000	1.500	1.500	0.000	486.000	-
ii	Column	18.000	3.000	3.000	3.000	0.000	486.000	-
iii	Deduct column	18.000	3.000	1.500	1.500	0.000	-	121.500
Total Quantity						850.5 Cft (Cubic Foot)	24.0834384 Cum (Cubic Meter)	
Amount						24.0834384 X 240.77592	5798.71	
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.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Wall Portion	1.000	216.000	1.500	0.250	0.000	81.000	-
ii	Column	18.000	3.000	3.000	0.330	0.000	53.460	-
iii	deduct column	18.000	3.000	1.500	0.330	0.000	-	26.730
Total Quantity						107.73 Cft (Cubic Foot)	3.050568864 Cum (Cubic Meter)	
Amount						3.050568864 X 1071.673832	3269.21	
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.								

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Wall Portion	1.000	216.000	1.500	0.330	0.000	106.920	-
ii	Column	18.000	3.000	3.000	0.330	0.000	53.460	-
iii	deduct column	18.000	3.000	1.500	0.330	0.000	-	26.730
Total Quantity						133.65 Cft (Cubic Foot)	3.78454032 Cum (Cubic Meter)	
Amount						3.78454032 X 6039.74607812	22857.66	

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/cm² 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	Compound wall 1st footing	1.000	216.000	1.250	1.250	0.000	337.500	-
ii	2nd Footing	18.000	0.830	0.830	1.250	0.000	-	15.500
Total Quantity						321.99975 Cft (Cubic Foot)	9.1180025208 Cum (Cubic Meter)	
Amount						9.1180025208 X 5118.755145616	46672.82	

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/cm² 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	Compound wall	1.000	216.000	0.830	4.000	0.000	717.120	-
ii		18.000	0.830	0.830	5.000	0.000	-	62.001
iii		1.000	216.000	0.410	0.410	0.000	36.310	-

Total Quantity	691.4286 Cft (Cubic Foot)	19.57904538048 Cum (Cubic Meter)
Amount	19.57904538048 X 5152.085145616	100872.91

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	COL F	18.000	3.000	3.000	0.660	0.000	106.920	-
ii		18.000	1.500	1.500	0.500	0.000	20.250	-
Total Quantity					127.17 Cft (Cubic Foot)		3.601047456 Cum (Cubic Meter)	
Amount					3.601047456 X 6522.0999604189		23486.39	

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
i	Grade Beam	1.000	216.000	0.830	0.830	0.000	148.802	-
Total Quantity					148.8024 Cft (Cubic Foot)		4.21360780032 Cum (Cubic Meter)	
Amount					4.21360780032 X 7160.5702855606		30171.83	

8. 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	Footing	3.600	0.000	0.480	0.000	0.000	1.728	-
ii	Column & Plinth	6.200	0.000	0.650	0.000	0.000	4.030	-
Total Quantity					5.758 Qntl (Quintal)		5.758 Qntl (Quintal)	
Amount					5.758 X 9269.7980487		53375.50	

9. 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	Compound Wall	1.000	216.000	0.000	4.410	0.000	952.560	-
Total Quantity					952.56 Sft (Square Foot)		88.49568168 Sqm (Square Meter)	
Amount					88.49568168 X 250.872466204		22201.13	

10. 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Compound Wall	1.000	216.000	0.000	5.410	0.000	1168.560	-
Total Quantity					1168.56 Sft (Square Foot)		108.56272968 Sqm (Square Meter)	
Amount					108.56272968 X 175.4919523224		19051.89	

11. 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Gate	1.000	3.000	0.000	3.660	2.500	27.450	-
Total Quantity					27.45 Kg (Kilo Gram)		0.2745 Qntl (Quintal)	

Amount						0.2745 X 16572.542801087	4549.16	
12. Painting (AR0903) : Painting two coats of enamel paint in inner surface paint (Inner surface)								
Painting two coats of enamel paint in inner surface paint including all costs of labour, Paint, brushes and putty required for the work etc. complete and as per direction of Engineer-in-charge.(Inside)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Door	1.000	2.250	3.000	3.660	0.000	24.705	-
Total Quantity					24.705 Sft (Square Foot)		2.295168615 Sqm (Square Meter)	
Amount						2.295168615 X 164.26075112702	377.01	
13. Painting (AR0901a) : Priming one coat in inner surface with primer of approved quality over woodwork								
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	Compound wall	1.000	1.000	216.000	4.410	0.000	952.560	-
ii		1.000	1.000	216.000	5.410	0.000	1168.560	-
Total Quantity					2121.12 Sft (Square Foot)		197.05841136 Sqm (Square Meter)	
Amount						197.05841136 X 70.10525567621	13814.83	
14. 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	Above PL	18.000	0.830	0.830	4.000	0.000	49.601	-
ii	UPTO PL	18.000	0.830	0.830	1.660	0.000	20.584	-
Total Quantity					70.185132 Cft (Cubic Foot)		1.9874183458176 Cum (Cubic Meter)	

Amount		1.9874183458176 X 14577.853347739		28972.29				
15. 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)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Boundarywall	1.000	216.000	0.000	4.410	0.000	952.560	-
ii		1.000	216.000	0.000	5.410	0.000	1168.560	-
Total Quantity					2121.12 Sft (Square Foot)		197.05841136 Sqm (Square Meter)	
Amount		197.05841136 X 87.8987155625		17321.18				

Total Amount (A) : 392792.53

Additional Components			
#	Item Name	Remark	Amount (in Rs.)
1	Provision for Contingency @ Rs.4000	-	4000
2	Display Citizen Board @ Rs.3207.45	-	3207.45
Additional Components Amount (F) : 7207.45			

Grand Total Amount (A + F) : 399999.98321165

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