

Detailed Estimate

OD/361/3453/119492/385689/00063996 : Construction of culvert at Ninhan Munda sahi

Block : Patana, Gram Panchayat : Turumunga

Created By: Phillip Kumar Mohanta

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	Abutment wall	2.000	16.000	2.500	2.500	0.028	5.660	-
ii	Wing wall	4.000	8.000	2.000	2.500	0.028	4.528	-
iii	Cutoff D/S	1.000	4.000	1.000	1.500	0.028	0.170	-
iv	Cutoff U/S	1.000	4.000	1.000	2.000	0.028	0.226	-
v	Bed	1.000	14.000	4.000	1.000	0.028	1.585	-
vi	Drain	1.000	80.000	3.000	1.000	0.028	6.792	-
vii	Road cutoff	4.000	47.000	0.750	0.500	0.028	1.995	-
Total Quantity						20.95615 cum (cum)	20.95615 Cum (Cubic Meter)	
Amount						20.95615 X 240.77592	5045.74	
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	Abutment wall	2.000	16.000	2.500	0.500	0.028	1.132	-
ii	Wing wall	4.000	8.000	2.000	0.500	0.028	0.906	-

iii	Cutoff D/S & U/S	2.000	4.000	1.000	0.500	0.028	0.113	-
iv	Bed	1.000	14.000	4.000	0.500	0.028	0.792	-
v	Culvert Portion	2.000	15.250	8.750	2.000	0.028	15.105	-
vi	Road	2.000	10.500	13.500	0.330	0.028	2.648	-
vii	Drain	1.000	80.000	3.000	0.330	0.028	2.241	-
viii	Road cutoff	4.000	47.000	0.750	0.160	0.028	0.638	-
ix	road base	2.000	47.000	10.500	0.330	0.028	9.218	-
Total Quantity					32.7933325 cum (cum)		32.7933325 Cum (Cubic Meter)	
Amount					32.7933325 X 705.750832		23143.92	

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	Abutment wall	2.000	16.000	2.500	1.000	0.028	2.264	-
ii	Wing wall	4.000	8.000	2.000	1.000	0.028	1.811	-
iii	Cutoff D/S	1.000	4.000	1.000	1.000	0.028	0.113	-
iv	Cutoff U/S	1.000	4.000	1.000	1.500	0.028	0.170	-
v	Bed	1.000	14.000	4.000	0.500	0.028	0.792	-
vi	Abutment wall	2.000	16.000	2.000	3.000	0.028	5.434	-
vii	Wing wall	4.000	8.750	1.750	3.750	0.028	6.500	-
viii	Parapet	2.000	7.000	1.250	2.000	0.028	0.991	-
ix	Road	2.000	10.500	13.500	0.330	0.028	2.648	-

x	Drain base	1.000	80.000	3.000	0.500	0.028	3.396	-
xi	Drain wall	2.000	80.000	1.000	2.000	0.028	9.056	-
xii	Road cutoff	4.000	47.000	0.750	0.660	0.028	2.634	-
xiii	Road	2.000	47.000	12.000	0.330	0.028	10.534	-
Total Quantity					46.34245275 cum (cum)		46.34245275 Cum (Cubic Meter)	
Amount					46.34245275 X 5985.18866774		277368.32	

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	Abutment cap	2.000	16.000	1.500	0.500	0.028	0.679	-
Total Quantity					0.6792 cum (cum)		0.6792 Cum (Cubic Meter)	
Amount					0.6792 X 6194.7991207398		4207.51	

5. R.C.C. Work (AR0410c) : R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc

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	Abutment cap	4.000	16.000	0.500	0.000	0.093	2.973	-
ii	Abutment cap	4.000	1.500	0.500	0.000	0.093	0.279	-
iii	Abutment	4.000	16.000	2.000	0.000	0.093	11.891	-
iv	Wing wall out side	4.000	10.500	2.750	0.000	0.093	10.730	-

v	Wing wall inside	4.000	8.750	2.750	0.000	0.093	8.942	-	
vi	Parapet	4.000	7.000	2.000	0.000	0.093	5.202	-	
vii	Drain	2.000	80.000	2.000	0.000	0.093	29.728	-	
viii	Road cutoff	4.000	47.000	0.660	0.000	0.093	11.527	-	
ix	Road	4.000	47.000	0.250	0.000	0.093	4.366	-	
Total Quantity					85.638007 Sqm (Sqm)		85.638007 Sqm (Square Meter)		
Amount					85.638007 X 216.23489289764		18517.93		

6. 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)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction	
i	Slab	1.000	16.000	7.000	0.750	0.028	2.377	-	
ii	Drain slab	1.000	8.000	3.000	0.500	0.028	0.340	-	
Total Quantity					2.7168 cum (cum)		2.7168 Cum (Cubic Meter)		
Amount					2.7168 X 12821.035864476		34832.19		

7. 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Qty taken from RCC work	1.000	3.400	0.000	0.000	0.000	3.400	-

Total Quantity				3.4 Qntl (Quintal)			3.4 Qntl (Quintal)	
Amount				3.4 X 9273.5808522			31530.17	
8. Concrete (AR0307) : Cement concrete (1:2:4)with 12mm size hard broken granite chips per 1cum								
Cement concrete work with (1:2:4) using 12mm size hard granite(crusher broken) 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 as per specificaion and direction of Engineer-in charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Bed	1.000	16.000	4.000	0.250	0.028	0.453	-
ii	Parapet	2.000	7.000	1.250	0.250	0.028	0.124	-
iii	Wing wall	4.000	9.500	1.500	0.160	0.028	0.258	-
iv	Road	2.000	13.000	9.500	0.250	0.028	1.748	-
v	Draon	1.000	80.000	3.000	0.160	0.028	1.087	-
vi	Road	2.000	47.000	12.000	0.250	0.028	7.981	-
Total Quantity					11.6495535 cum (cum)		11.6495535 Cum (Cubic Meter)	
Amount					11.6495535 X 7468.05426938		86999.50	
9. Plastering (AR1017) : 20mm thick cement Plaster in CM (1:4) over brick 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	Abutment wall	2.000	16.000	2.500	0.000	0.093	7.432	-
ii	Wing wall	4.000	10.500	2.750	0.000	0.093	10.730	-
iii	Parapet	4.000	7.000	2.000	0.000	0.093	5.202	-
Total Quantity					23.36435 Sqm (Sqm)		23.36435 Sqm (Square Meter)	

Amount	23.36435 X 270.6011802464	6322.42
Total Amount		487967.70
Addition		
Provision for PH Work (+) @		
Provision for EI Work (+) @		
Provision for Contingency (+) @		5000.00
Display Citizen Board (+) @		5000.00
Any Other Lumpsum (+) @		2032.00
Provision for survey investigation and quality control (+) @		
Total Addition		12032.00
Grand Net Total Amount		499999.70

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AEE
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