

Detailed Estimate

OD/364/3484/120002/430193/00063764 : Construction of road and culvert at Pedawada to Dongruguda
Block : Malkangiri, Gram Panchayat : Pedawada
Created By: TAPAN KUMAR SAMAL

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	Abutement	1.000	7.000	3.600	1.200	0.000	30.240	-
ii	Wing Wall	4.000	2.500	1.200	1.200	0.000	14.400	-
Total Quantity					44.64 cum (cum)		44.64 Cum (Cubic Meter)	
Amount					44.64 X 240.77592		10748.24	
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	Abutement bed	1.000	7.000	3.600	0.100	0.000	2.520	-
ii	Wing Wall	4.000	2.500	1.200	0.100	0.000	1.200	-
Total Quantity					3.72 cum (cum)		3.72 Cum (Cubic Meter)	
Amount					3.72 X 515.507232		1917.69	
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	Abutement bed	2.000	7.000	1.500	0.250	0.000	5.250	-
ii	Abutement 1st footing	2.000	7.000	1.125	0.850	0.000	13.388	-
iii	Abutement 2nd footing	2.000	7.000	0.825	1.200	0.000	13.860	-
iv	Wing wall bed	4.000	2.500	1.200	0.250	0.000	3.000	-
v	Wing wall 1st footing	4.000	2.600	0.850	0.850	0.000	7.514	-
vi	Wing wall 2nd footing	4.000	2.800	0.550	1.500	0.000	9.240	-
vii	Cutoff Wall	2.000	0.600	0.750	0.250	0.000	0.225	-
viii		2.000	0.950	0.500	0.700	0.000	0.665	-
ix	Bed	1.000	7.000	1.500	0.100	0.000	1.050	-
x	Parapet	2.000	2.700	0.350	0.350	0.000	0.662	-
Total Quantity					54.853 cum (cum)		54.853 Cum (Cubic Meter)	
Amount					54.853 X 5283.21944744		289800.44	
4. 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 specification and direction of Engineer-in charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Wing Wall top	4.000	3.100	0.400	0.050	0.000	0.248	-
ii	Vent bed	1.000	7.000	1.500	0.050	0.000	0.525	-
iii	Parapet	4.000	2.700	0.350	0.050	0.000	0.189	-
Total Quantity					0.962 cum (cum)		0.962 Cum (Cubic Meter)	
Amount					0.962 X 6806.95229528		6548.29	

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	Centering & shuttering required 1.50 times of Concrete quantity	1.000	54.852	1.500	0.000	0.000	82.278	-
Total Quantity					82.278 Sqm (Sqm)		82.278 Sqm (Square Meter)	
Amount					82.278 X 216.55039071844		17817.33	

6. 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	16mm Main bar	40.000	2.750	1.580	1.050	0.000	182.490	-
ii	Distribution bar at Bottom	17.000	5.900	0.890	1.050	0.000	93.730	-
iii	at top	15.000	5.900	0.890	1.050	0.000	82.703	-
iv	extra top	24.000	2.500	0.890	1.050	0.000	56.070	-
v	chair	12.000	1.050	0.890	1.050	0.000	11.775	-
Total Quantity					426.7683 Kg (Kilo Gram)		4.267683 Qntl (Quintal)	
Amount					4.267683 X 8965.8116625		38263.24	

7. 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	Deck Slab	1.000	7.000	2.700	0.300	0.000	5.670	-
Total Quantity					5.67 cum (cum)		5.67 Cum (Cubic Meter)	
Amount					5.67 X 5529.1808901288		31350.46	

8. Plastering (AR1026i) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces (outside)

6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in outside 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	Vent	2.000	7.000	1.200	0.000	0.000	16.800	-
ii	Wing Wall	4.000	3.700	1.500	0.000	0.000	22.200	-
iii	Wing wall side	4.000	0.650	1.500	0.000	0.000	3.900	-
iv	Parapet	2.000	2.700	0.800	0.000	0.000	4.320	-
v		4.000	0.400	0.350	0.000	0.000	0.560	-
Total Quantity					47.78 Sqm (Sqm)		47.78 Sqm (Square Meter)	
Amount					47.78 X 159.3900943056		7615.66	

9. R.C.C. Work (AR0410k) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling upto 8M span

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. Work in slab for culverts and Bridges upto 8M span)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Deck slab	1.000	7.000	1.500	0.000	0.000	10.500	-
Total Quantity					10.5 Sqm (Sqm)		10.5 Sqm (Square Meter)	

Amount						10.5 X 796.69077618027	8365.25	
10. Bridge Works (AR2008) : Back filling behind abutment, wing wall and return wall using sandy material complete.								
Back filling behind abutment, wing wall and return wall using sandy material complete as per drawing and direction of Engineer-in charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Filling	2.000	5.900	0.500	1.500	0.000	8.850	-
Total Quantity					8.85 cum (cum)		8.85 Cum (Cubic Meter)	
Amount						8.85 X 912.6850254	8077.26	
11. Road Work (AR1342) : Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam(WMM) specification including premixing the material.								
Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, laying in uniform layers with paver in subbase/base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per Clause 406 of MoRT&H Specifications for Road & Bridge works (Last Revision)and as per direction of Engineer-in-Charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Road	1.000	60.000	3.500	0.150	0.000	31.500	-
Total Quantity					31.5 cum (cum)		31.5 Cum (Cubic Meter)	
Amount						31.5 X 1992.6569657778	62768.69	
Total Amount							483272.55	
Addition								
Provision for PH Work (+) @								
Provision for EI Work (+) @								
Provision for Contingency (+) @							4832.73	
Display Citizen Board (+) @							5000.00	
Any Other Lumpsum (+) @							6894.00	

Provision for survey investigation and quality control (+) @	
Total Addition	16726.73
Grand Net Total Amount	499999.27

TAPAN KUMAR SAMAL
JE
Malkangiri Block

Er. ABHIJIT SETHI
AEE
Malkangiri Block

Tapan kumar senapati
BDO
Malkangiri Block