

## Detailed Estimate

**OD/364/3484/120005/430295/00015652 : Improvement Of Road From RD Road M.V-48 To Masaguda.**

**Block : Malkangiri, Panchayat : Tamasa**

**Created By:Er. TAPAN KUMAR SAMAL**

<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	Abutement	1.000	7.000	2.800	0.600	0.000	11.760	-	
ii	Wing Wall	2.000	5.000	0.750	0.750	0.000	5.625	-	
iii	Wing Wall	2.000	6.500	0.750	0.750	0.000	7.313	-	
iv	Drain	1.000	20.000	1.400	0.500	0.000	14.000	-	
Total Quantity					38.6975 cum (cum)		38.6975 Cum (Cubic Meter)		
<b>Amount</b>					<b>38.6975 X 235.56432</b>		<b>9115.75</b>		
<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	Abutement Bed	1.000	7.000	2.800	0.100	0.000	1.960	-	
ii	Wing wall bed	2.000	5.000	0.750	0.100	0.000	0.750	-	
iii	Wing Wall bed	2.000	6.500	0.750	0.100	0.000	0.975	-	
iv	Drain Bed	1.000	20.000	1.400	0.100	0.000	2.800	-	
v	Approch filling	1.000	9.500	5.000	0.380	0.000	18.050	-	
vi	Approch filling	1.000	6.000	6.500	0.380	0.000	14.820	-	
Total Quantity					39.355 cum (cum)		39.355 Cum (Cubic Meter)		
<b>Amount</b>					<b>39.355 X 514.258872</b>		<b>20238.66</b>		

**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	Abutement bed	1.000	7.000	2.800	0.200	0.000	3.920	-
ii	Abutement	2.000	7.000	0.700	0.800	0.000	7.840	-
iii	Wing Wall	2.000	5.000	0.750	0.100	0.000	0.750	-
iv	Wing wall 1st footing)	2.000	5.000	0.500	0.900	0.000	4.500	-
v	Wing Wall	2.000	6.500	0.750	0.100	0.000	0.975	-
vi	1st footing)	2.000	6.500	0.500	0.900	0.000	5.850	-
vii	C.C Approch	1.000	9.500	5.000	0.125	0.000	5.938	-
viii	C.C Approch	1.000	6.000	6.500	0.125	0.000	4.875	-
ix	Drain bed	1.000	20.000	1.400	0.100	0.000	2.800	-
x	Drain wall	2.000	20.000	0.370	0.750	0.000	11.100	-
Total Quantity					48.5475 cum (cum)		48.5475 Cum (Cubic Meter)	
Amount					48.5475 X 5718.13758562		277601.28	

**4. 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	0.75 Qtl steel required/one cum of M20 concrete	1.000	0.750	5.550	0.000	0.000	4.163	-
Total Quantity					4.1625 Qntl (Quintal)		4.1625 Qntl (Quintal)	
Amount					4.1625 X 8710.1454337		36255.98	

**5. 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 centering 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	Culvert deck slab	1.000	7.000	2.000	0.250	0.000	3.500	-
ii	Drain cover	1.000	20.000	1.250	0.080	0.000	2.000	-
Total Quantity					5.5 cum (cum)		5.5 Cum (Cubic Meter)	
<b>Amount</b>					<b>5.5 X 12743.521698389</b>		<b>70089.37</b>	

**6. 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 and as per direction of Engineer-in charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	C.C Approach	1.000	9.500	5.000	0.100	0.000	4.750	-
ii	C.C Approach	1.000	6.000	6.500	0.100	0.000	3.900	-
iii	Culvert bed	1.000	7.000	1.000	0.050	0.000	0.350	-
Total Quantity					9 cum (cum)		9 Cum (Cubic Meter)	
<b>Amount</b>					<b>9 X 7368.46640694</b>		<b>66316.20</b>	

**7. 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Wing Wall	2.000	5.700	0.400	0.000	0.000	4.560	-
ii	Wing Wall	5.000	7.200	0.400	0.000	0.000	14.400	-
iii	Drain	2.000	20.000	0.750	0.000	0.000	30.000	-
iv	Abutement	2.000	7.000	0.800	0.000	0.000	11.200	-

Total Quantity	60.16 Sqm (Sqm)	60.16 Sqm (Square Meter)
Amount	<b>60.16 X 162.4587407638</b>	<b>9773.52</b>
<b>Total Amount</b>		<b>489390.76</b>
<b>Addition</b>		
Provision for Contingency (+) @		4893.91
Display Citizen Board (+) @		4500.00
Any Other Lumpsum (+) @		1215.00
<b>Total Addition</b>		<b>10608.91</b>
<b>Grand Net Total Amount</b>		<b>499999.67</b>