

## Detailed Estimate

**OD/373/3586/275334/384218/00068711 : Construction of Cement Concrete Road with C D Work at Pada from Simon House to Pada Village Chock Road**  
**Block : Rajgangpur, Gram Panchayat : Garvana**  
**Created By:Pragyan Parimita Mohanty**

<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	Bed	1.000	4.000	1.800	0.600	0.000	4.320	-
ii	Abutment	2.000	4.000	0.600	0.600	0.000	2.880	-
iii	wingwall	4.000	4.000	0.600	0.600	0.000	5.760	-
iv	u/s apron	1.000	1.800	0.300	0.100	0.000	0.054	-
v	d/s apron	1.000	1.800	0.300	0.100	0.000	0.054	-
vi	Road	1.000	50.000	3.150	0.050	0.000	7.875	-
vii	cutoff	2.000	46.000	0.250	0.200	0.000	4.600	-
Total Quantity					25.543 cum (cum)		25.543 Cum (Cubic Meter)	
Amount					25.543 X 240.77592		6150.14	
<b>2. Earth Work (AR0116) : Fine dressing and turfing with initial lead of 50m and 1.5m initial lift</b>								
Fine dressing and turfing with initial lead of 50m and 1.5m initial lift as per direction of Engineer-in-charge								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Road	1.000	50.000	3.150	0.000	0.000	157.500	-
Total Quantity					157.5 Sqm (Sqm)		157.5 Sqm (Square Meter)	
Amount					157.5 X 13.718628		2160.68	

**3. 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	Bed	1.000	4.000	0.600	0.075	0.000	0.180	-
ii	Abutment	2.000	4.000	0.600	0.100	0.000	0.480	-
iii	wingwall	4.000	4.000	0.450	0.100	0.000	0.720	-
iv	U/s apron	1.000	1.800	0.300	0.075	0.000	0.041	-
v	D/s apron	1.000	1.800	0.300	0.075	0.000	0.041	-
vi	Road	1.000	50.000	3.150	0.100	0.000	15.750	-
vii	cutoff	2.000	50.000	0.250	0.100	0.000	2.500	-
Total Quantity					19.711 cum (cum)		19.711 Cum (Cubic Meter)	
Amount					19.711 X 653.725732		12885.59	

**4. 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	Bed	1.000	3.950	0.600	0.150	0.000	0.356	-
ii	Abutment	2.000	3.950	0.450	0.150	0.000	0.533	-
iii	wingwall	4.000	4.000	0.450	0.150	0.000	1.080	-
iv	u/s apron	1.000	1.800	0.300	0.100	0.000	0.054	-
v	d/s apron	1.000	1.800	0.300	0.100	0.000	0.054	-
vi	Road	1.000	50.000	3.650	0.100	0.000	18.250	-
vii	cutoff	2.000	50.000	0.250	0.100	0.000	2.500	-

Total Quantity	22.82675 cum (cum)	22.82675 Cum (Cubic Meter)
Amount	22.82675 X 5225.81186352	119288.30

**5. 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	3.950	0.600	0.060	0.000	0.142	-
ii	Abutment	2.000	3.950	0.420	0.900	0.000	2.986	-
iii	wingwall	4.000	4.000	0.300	0.800	0.000	3.840	-
iv	U/s apron	1.000	1.800	0.300	0.100	0.000	0.054	-
v	d/s apron	1.000	1.800	0.300	0.100	0.000	0.054	-
vi	Road	1.000	50.000	3.650	0.100	0.000	18.250	-
vii	Parapet	2.000	1.500	0.250	0.250	0.000	0.188	-
Total Quantity					25.5139 cum (cum)		25.5139 Cum (Cubic Meter)	
Amount					25.5139 X 6745.33552424		172099.82	

**6. 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	piercap	4.000	4.400	0.000	0.150	0.000	2.640	-
ii	Abut ment	2.000	3.950	0.000	1.050	0.000	8.295	-
iii	wingwall	8.000	4.000	0.000	0.800	0.000	25.600	-

iv	U.s apron	1.000	2.400	0.000	0.150	0.000	0.360	-	
v	d/s apron	1.000	2.400	0.000	0.150	0.000	0.360	-	
vi	bed	2.000	0.600	0.000	0.200	0.000	0.240	-	
vii	Road	2.000	50.000	0.000	0.200	0.000	20.000	-	
viii	Cutoff	2.000	50.000	0.000	0.100	0.000	10.000	-	
ix	parapet	4.000	1.750	0.000	0.250	0.000	1.750	-	
x	Abutment side	4.000	0.420	0.000	1.050	0.000	1.764	-	
Total Quantity					71.009 Sqm (Sqm)		71.009 Sqm (Square Meter)		
Amount					71.009 X 216.23489289764		15354.62		

**7. R.C.C. Work (AR0410a) : Centring & Shuttering for R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas**

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	2.000	5.450	0.000	0.300	0.000	3.270	-	
ii		1.000	3.950	0.600	0.000	0.000	2.370	-	
Total Quantity					5.64 Sqm (Sqm)		5.64 Sqm (Square Meter)		
Amount					5.64 X 662.689943368		3737.57		

**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
i	Ms rod	1.000	5.000	0.000	0.000	0.000	5.000	-

Total Quantity		5 Qntl (Quintal)		5 Qntl (Quintal)				
Amount		5 X 8664.2281572		43321.14				
<b>9. R.C.C. Work (AR0404A) : Reinforced cement concrete work of M-20 grade with 20mm &amp; down grade size black hard crusher broken granite chips</b>								
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)								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Pier cap	2.000	3.950	0.450	0.150	0.000	0.533	-
ii	slab	1.000	3.950	1.500	0.300	0.000	1.778	-
Total Quantity					2.31075 cum (cum)		2.31075 Cum (Cubic Meter)	
Amount					2.31075 X 5407.8864694304		12496.27	
<b>Total Amount</b>							<b>387494.14</b>	
<b>Addition</b>								
Provision for Contingency (+) @							4000.00	
Display Citizen Board (+) @							5000.00	
Any Other Lumpsum (+) @							3505.00	
Provision for survey investigation and quality control (+) @								
<b>Total Addition</b>							<b>12505.00</b>	
<b>Grand Net Total Amount</b>							<b>399999.14</b>	

Pragyan Parimita Mohanty  
JE  
Rajgangpur Block

PRATYUSH KUMAR ACHARYA  
AEE  
Rajgangpur Block

BDO Rajgangpur  
BDO  
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