

## Detailed Estimate

**OD/360/3441/119227/395717/00066604 : CONSTRUCTION OF HUMP PIPE CULVERT AT DALIKANDA PLAYGROUND ROAD**

**Block : Rajkanika, Gram Panchayat : Siko**

**Created By:RAJASMITA BARIK**

<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	Abutment	2.000	4.000	2.000	2.000	0.000	32.000	-
ii	Abutment	2.000	4.000	2.000	2.000	0.000	32.000	-
iii	Culvert Bed	1.000	30.000	6.000	7.000	0.000	1260.000	-
iv	Cut-off Wall	2.000	150.000	1.000	1.000	0.000	300.000	-
<b>Total Quantity</b>					<b>1624 Cft (Cubic Foot)</b>		<b>45.9864832 Cum (Cubic Meter)</b>	
<b>Amount</b>					<b>45.9864832 X 240.77592</b>		<b>11072.44</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	Abutment	2.000	4.000	2.000	1.000	0.000	16.000	-
ii	Abutment	2.000	4.000	2.000	1.000	0.000	16.000	-
iii	Bed	1.000	30.000	6.000	1.000	0.000	180.000	-
iv	Above Of Humepipe	1.000	30.000	6.000	5.000	0.000	900.000	-
v	Cut-off Wall	2.000	150.000	1.000	0.250	0.000	75.000	-

vi	Road	1.000	150.000	11.000	0.250	0.000	412.500	-	
vii	Hume Pipe	3.000	8.000	0.785	9.000	0.000	-	169.560	
Total Quantity					1429.94 Cft (Cubic Foot)		40.491324992 Cum (Cubic Meter)		
Amount					40.491324992 X 901.872632		36518.02		

### 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	2.000	4.000	2.000	1.000	0.000	16.000	-	
ii	Abutment	2.000	4.000	2.000	1.000	0.000	16.000	-	
iii	Bed Bottom	1.000	30.000	6.000	0.660	0.000	118.800	-	
iv	Bed Top	1.000	12.000	10.000	0.330	0.000	39.600	-	
v	Cut-off Wall	2.000	150.000	0.750	0.330	0.000	74.250	-	
vi	Road	1.000	150.000	11.000	0.330	0.000	544.500	-	
Total Quantity					809.15 Cft (Cubic Foot)		22.91253872 Cum (Cubic Meter)		
Amount					22.91253872 X 6479.38838626		148459.24		

### 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/cm<sup>2</sup> with dimensional tolerance  $\pm 8$  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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Abutment	2.000	8.000	2.000	4.000	0.000	128.000	-

Total Quantity	128 Cft (Cubic Foot)	3.6245504 Cum (Cubic Meter)
Amount	3.6245504 X 5737.524257668	20795.95

**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 specifaion and direction of Engineer-in charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Road	1.000	150.000	11.000	0.250	0.000	412.500	-
Total Quantity					412.5 Cft (Cubic Foot)		11.68068 Cum (Cubic Meter)	
Amount					11.68068 X 7956.97105362		92942.83	

**6. Plastering (AR1014i) : 16mm thick cement Plaster in CM (1:6) over brick work in outside (outside)**

16mm thick cement Plaster in CM (1:6) over brick work in outside 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	Abutment	2.000	8.000	4.000	0.000	0.000	64.000	-
ii	Abutment	2.000	8.000	4.000	0.000	0.000	64.000	-
iii	Top	2.000	8.000	2.000	0.000	0.000	32.000	-
Total Quantity					160 Sft (Square Foot)		14.86448 Sqm (Square Meter)	
Amount					14.86448 X 247.875305142		3684.54	

**7. 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	Cut-off Wall	2.000	150.000	0.580	0.000	0.000	174.000	-
Total Quantity					174 Sft (Square Foot)		16.165122 Sqm (Square Meter)	
Amount					16.165122 X 216.23489289764		3495.46	
Total Amount							316968.47	
<b>Addition</b>								
Provision for Contingency (+) @							3714.00	
Display Citizen Board (+) @							1000.00	
Any Other Lumpsum (+) @							49760.00	
Provision for survey investigation and quality control (+) @								
Total Addition							54474.00	
Grand Net Total Amount							371442.47	

**RAJASMITA BARIK**  
JE  
Rajkanika Block

**SUDHANSU SEKHAR PATRA**  
AEE  
Rajkanika Block

**KAILASH CHANDRA MAHALIK**  
BDO  
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