

## Detailed Estimate

**OD/365/3489/120081/389463/00078979 : Creation of Facility Center at Bangriposi Block Campus**  
**Block : Bangriposi, Gram Panchayat : Bangriposi**  
**Created By: Sanjay Kumar Padhiary**

<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								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	column	14.000	4.000	4.000	5.000	0.000	1120.000	-
ii	grade beam area	1.000	190.000	2.000	2.000	0.000	760.000	-
iii	deduction	14.000	4.000	2.000	2.000	0.000	-	224.000
Total Quantity					1656 Cft (Cubic Foot)		46.8926208 Cum (Cubic Meter)	
<b>Amount</b>					<b>46.8926208 X 240.77592</b>		<b>11290.61</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.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	column	14.000	4.000	4.000	5.000	0.000	1120.000	-
ii	grade beam area	1.000	190.000	2.000	0.500	0.000	190.000	-
iii	bed room 1	1.000	14.000	11.000	1.500	0.000	231.000	-
iv	bed room 2	1.000	15.330	12.000	1.500	0.000	275.940	-
v	dinning	1.000	21.830	12.000	1.500	0.000	392.940	-
vi	toilet 1	1.000	7.000	5.000	1.500	0.000	52.500	-

vii	toilet2	1.000	6.580	7.080	1.500	0.000	69.880	-
viii	kitchen	1.000	7.000	10.000	1.500	0.000	105.000	-
ix	varandha	1.000	10.420	7.000	1.500	0.000	109.410	-
x	deduction for pcc 1:3:6	14.000	4.000	4.000	0.500	0.000	-	112.000
xi	column base	14.000	4.000	4.000	1.000	0.000	-	224.000
xii	column pedestal	14.000	2.500	2.500	1.500	0.000	-	131.250
xiii	column upto gl	14.000	0.830	0.830	1.500	0.000	-	14.467
Total Quantity					2064.9527 Cft (Cubic Foot)		58.47285261536 Cum (Cubic Meter)	
Amount					58.47285261536 X 1025.042132		59937.14	

### 3. Concrete (AR0303a) : Cement concrete (1:3:6) with 4 cm. hard granite(Hand Broken) metal

Cement concrete (1:3:6) with 4 cm. hard granite(Hand 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	column	14.000	4.000	4.000	0.500	0.000	112.000	-
ii	gradev beam area	1.000	190.000	2.000	0.500	0.000	190.000	-
iii	bed room	1.000	14.000	11.000	0.330	0.000	50.820	-
iv	bed room 2	1.000	15.330	12.000	0.330	0.000	60.707	-
v	dinning	1.000	21.830	12.000	0.330	0.000	86.447	-
vi	toilet1	1.000	7.000	5.000	0.330	0.000	11.550	-
vii	toilet2	1.000	6.580	7.080	0.330	0.000	15.374	-
viii	kitchen	1.000	7.000	10.000	0.330	0.000	23.100	-

ix	varandhA	1.000	10.420	7.000	0.330	0.000	24.070	-	
x	deduction	14.000	4.000	2.000	0.500	0.000	-	56.000	
Total Quantity					518.067312 Cft (Cubic Foot)		14.670008460442 Cum (Cubic Meter)		
Amount					14.670008460442 X 5685.4877883		83406.15		

**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)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	column base	14.000	4.000	4.000	1.000	0.000	224.000	-
ii	pedestal	14.000	2.500	2.500	1.500	0.000	131.250	-
iii	column upto gl	14.000	0.830	0.830	2.500	0.000	24.112	-
iv	grade beam	3.000	34.920	0.830	1.000	0.000	86.951	-
v		3.000	25.580	0.830	1.000	0.000	63.694	-
vi		1.000	17.830	0.830	1.000	0.000	14.799	-
vii		1.000	6.580	0.830	0.500	0.000	2.731	-
viii	column upto roof level	14.000	0.830	0.830	1.000	0.000	9.645	-
ix	lintel	3.000	34.920	0.830	0.500	0.000	43.475	-
x		3.000	25.830	0.830	0.500	0.000	32.158	-
xi		1.000	17.830	0.830	0.500	0.000	7.399	-
xii		1.000	6.580	0.830	0.500	0.000	2.731	-
xiii	toilet small lintel	1.000	12.000	0.420	0.500	0.000	2.520	-

xiv	wall beam	3.000	34.920	0.830	0.830	0.000	72.169	-
xv		1.000	17.830	0.830	0.830	0.000	12.283	-
xvi		1.000	6.580	0.830	0.830	0.000	4.533	-
xvii	roof slab	1.000	35.000	29.000	0.416	0.000	422.240	-
Total Quantity					1156.689813 Cft (Cubic Foot)		32.753754096758 Cum (Cubic Meter)	
Amount					32.753754096758 X 6170.337792491		202101.73	

**5. 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	hysd bar	32.720	0.000	0.000	0.000	0.950	31.084	-
Total Quantity					31.084 Qntl (Quintal)		31.084 Qntl (Quintal)	
Amount					31.084 X 8409.9650204		261415.35	

**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	pedestal	14.000	4.000	2.500	1.500	0.000	210.000	-
ii	grade beam	3.000	2.000	34.920	1.000	0.000	209.520	-
iii		3.000	2.000	25.580	1.000	0.000	153.480	-
iv		1.000	2.000	10.000	1.000	0.000	20.000	-
v		2.000	2.000	6.580	1.000	0.000	26.320	-

Total Quantity	619.32 Sft (Square Foot)	57.53668596 Sqm (Square Meter)
Amount	57.53668596 X 216.23489289764	12441.44

**7. R.C.C. Work (AR0410d) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting**

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. beams, column, grider and bressmer, etc. Data for 4.2sqm

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	column	14.000	2.000	0.830	10.000	0.000	232.400	-
ii	wall beam	3.000	2.000	34.920	0.830	0.000	173.902	-
iii	wall beam	3.000	2.000	25.580	0.830	0.000	127.388	-
iv		1.000	2.000	17.830	0.830	0.000	29.598	-
v		1.000	2.000	6.850	0.830	0.000	11.371	-

Total Quantity	574.6588 Sft (Square Foot)	53.3875264964 Sqm (Square Meter)
Amount	53.3875264964 X 1047.3822930467	55917.15

**8. R.C.C. Work (AR0410e) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting**

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. Lintels Data for 7.8 sqm

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	lintel	3.000	2.000	34.920	0.500	0.000	104.760	-
ii		3.000	2.000	25.580	0.500	0.000	76.740	-
iii		1.000	2.000	17.830	0.500	0.000	17.830	-
iv		1.000	2.000	6.580	0.500	0.000	6.580	-
v		1.000	2.000	12.000	0.500	0.000	12.000	-

Total Quantity	217.91 Sft (Square Foot)	20.24449273 Sqm (Square Meter)
Amount	20.24449273 X 499.15267251462	10105.09

**9. 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	for slab	1.000	1.000	35.000	29.000	0.000	1015.000	-
ii	deduction of wall beam	1.000	1.000	190.000	0.830	0.000	-	157.700
Total Quantity					857.3 Sft (Square Foot)		79.6457419 Sqm (Square Meter)	
Amount					79.6457419 X 662.689943368		52780.43	

**10. 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	long wall	3.000	34.920	0.830	2.000	0.000	173.902	-
ii		3.000	25.830	0.830	2.000	0.000	128.633	-
iii		0.000	17.830	0.830	2.000	0.000	29.598	-
iv		0.000	6.580	0.830	2.000	0.000	10.923	-
v	deduction	14.000	0.830	0.830	0.500	0.000	-	4.822
Total Quantity					338.2333 Cft (Cubic Foot)		9.57768470944 Cum (Cubic Meter)	

<b>Amount</b>		<b>9.57768470944 X 5094.99332244</b>					<b>48798.24</b>	
<b>11. Masonry Brick Work (AR0603bi) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure</b>								
Brickwork with Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure 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.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	long wall	3.000	34.920	0.830	9.000	0.000	782.557	-
ii		3.000	25.580	0.830	9.000	0.000	573.248	-
iii		1.000	17.830	0.830	9.000	0.000	133.190	-
iv		1.000	12.420	0.830	9.000	0.000	92.777	-
v		1.000	6.580	0.830	9.000	0.000	49.153	-
vi	deduction D	3.000	3.250	0.830	7.000	0.000	-	56.648
vii	D1	1.000	3.000	0.830	7.000	0.000	-	17.430
viii	D2	2.000	2.500	0.830	7.000	0.000	-	29.050
ix	GD	1.000	4.000	0.830	7.000	0.000	-	23.240
x	W	4.000	5.000	0.830	4.500	0.000	-	74.700
xi	W1	2.000	3.500	0.830	4.500	0.000	-	26.145
xii	W2	2.000	3.500	0.830	3.500	0.000	-	20.335
xiii	column	14.000	0.830	0.830	9.000	0.000	-	86.801
<b>Total Quantity</b>					<b>1296.5762 Cft (Cubic Foot)</b>		<b>36.71488894016 Cum (Cubic Meter)</b>	
<b>Amount</b>		<b>36.71488894016 X 5128.32332244</b>					<b>188285.82</b>	
<b>Total Amount</b>							<b>986479.16</b>	

<b>Addition</b>	
Provision for PH Work (+) @	
Provision for EI Work (+) @	
Provision for Contingency (+) @	10000.00
Display Citizen Board (+) @	3520.84
Any Other Lumpsum (+) @	
Provision for survey investigation and quality control (+) @	
<b>Total Addition</b>	<b>13520.84</b>
<b>Grand Net Total Amount</b>	<b>1000000.00</b>

**Sanjay Kumar Padhiary**  
JE  
Bangriposi Block

**Suwendu Kumar Naik**  
AEE  
Bangriposi Block

**Paramananda Khandei**  
BDO  
Bangriposi Block