

## Detailed Estimate

**OD/369/3545/121063/409773/00070164 : Construction of Basantei Bhoga Mandap, Chasapada, Bijayramchandrapur  
GP**

**Block : Sadar, Gram Panchayat : Bijayramchandrapur**

**Created By:Subrat Mangaraj**

<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	column	4.000	1.210	1.210	1.210	1.000	7.086	-
ii	wall	3.000	2.990	0.600	0.600	1.000	3.229	-
iii		2.000	2.020	0.600	0.600	1.000	1.454	-
iv	verandah	2.000	2.200	0.600	0.600	1.000	1.584	-
<b>Total Quantity</b>					<b>13.353844 cum (cum)</b>		<b>13.353844 Cum (Cubic Meter)</b>	
<b>Amount</b>					<b>13.353844 X 240.77592</b>		<b>3215.28</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	column	4.000	1.210	1.210	0.150	1.000	0.878	-
ii		3.000	2.990	0.600	0.100	1.000	0.538	-
iii		2.000	2.020	0.600	0.100	1.000	0.242	-
iv	inside plinth	1.000	2.990	1.210	0.250	1.000	0.904	-
v		1.000	2.200	2.990	0.250	1.000	1.645	-

Total Quantity		4.208035 cum (cum)		4.208035 Cum (Cubic Meter)				
Amount		4.208035 X 828.607232		3486.81				
<b>3. Concrete (AR0303) : Cement concrete (1:3:6) with 4 cm. Crusher Broken hard granite metal</b>								
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	column	4.000	1.210	1.210	0.100	1.000	0.586	-
ii		3.000	2.990	0.600	0.100	1.000	0.538	-
iii		2.000	2.020	0.600	0.100	1.000	0.242	-
Total Quantity		1.36624 cum (cum)		1.36624 Cum (Cubic Meter)				
Amount		1.36624 X 6235.36202164		8519.00				
<b>4. Masonry Brick Work (AR0603c) : Flyash Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:6) in foundation and plinth</b>								
Brickwork with Flyash Bricks of size (23cm x 11cm 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 ±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		2.000	2.990	0.250	0.450	1.000	0.673	-
ii		2.000	2.020	0.250	0.450	1.000	0.455	-
iii		1.000	2.990	0.250	0.450	1.000	0.336	-
iv		2.000	2.200	0.250	0.450	1.000	0.495	-
Total Quantity		1.958625 cum (cum)		1.958625 Cum (Cubic Meter)				
Amount		1.958625 X 5353.327679552		10485.16				
<b>5. Masonry Brick Work (AR0603ci) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure</b>								

Brickwork with Flyash Bricks of size (23cm x 11cm 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	2.990	0.250	2.800	1.000	4.186	-
ii		2.000	2.020	0.250	2.800	1.000	2.828	-
iii		1.000	2.990	0.250	0.700	1.000	0.523	-
iv		2.000	2.200	0.250	1.430	1.000	1.573	-
v		2.000	1.100	0.500	0.760	1.000	0.836	-
vi		2.000	2.040	0.250	0.200	1.000	0.204	-
vii		1.000	1.060	0.250	0.200	1.000	-	0.053
Total Quantity					10.09725 cum (cum)		10.09725 Cum (Cubic Meter)	
Amount					10.09725 X 5386.657679552		54390.43	

**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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i		0.000	6.180	0.000	0.000	1.000	6.180	-
Total Quantity					6.18 Qntl (Quintal)		6.18 Qntl (Quintal)	
Amount					6.18 X 7972.459341		49269.80	

**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	column	4.000	1.210	1.210	0.300	1.000	1.757	-
ii		4.000	0.450	0.450	0.450	1.000	0.365	-
iii		4.000	0.250	0.250	0.450	1.000	0.113	-
iv	plinth beam	3.000	2.990	0.250	0.200	1.000	0.449	-
v		2.000	2.020	0.250	0.200	1.000	0.202	-
vi		2.000	2.200	0.250	0.200	1.000	0.220	-
vii		4.000	0.250	0.250	2.800	1.000	0.700	-
viii	w.beam	2.000	2.990	0.250	0.200	1.000	0.299	-
ix		2.000	2.020	0.250	0.200	1.000	0.202	-
x		2.000	2.220	0.250	0.200	1.000	0.222	-
xi		1.000	2.990	0.250	0.200	1.000	0.150	-
xii	slab	1.000	5.320	4.490	0.110	1.000	2.628	-
xiii	Lintel	3.000	2.990	0.250	0.100	1.000	0.224	-
xiv		2.000	2.020	0.250	0.100	1.000	0.101	-
xv		2.000	2.200	0.250	0.100	1.000	0.110	-
Total Quantity					7.739718 cum (cum)		7.739718 Cum (Cubic Meter)	
Amount					7.739718 X 6464.5677677428		50033.93	
<b>8. R.C.C. Work (AR0410c) : R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc</b>								
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		16.000	1.210	0.000	0.300	1.000	5.808	-

ii		16.000	0.450	0.000	0.450	1.000	3.240	-
iii		16.000	0.250	0.000	0.450	1.000	1.800	-
iv		6.000	2.990	0.000	0.200	1.000	3.588	-
v		4.000	2.020	0.000	0.200	1.000	1.616	-
vi		4.000	2.200	0.000	0.200	1.000	1.760	-

Total Quantity					17.812 Sqm (Sqm)		17.812 Sqm (Square Meter)	
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Amount					17.812 X 216.23489289764		3851.58	
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**9. 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		4.000	1.000	0.000	2.800	1.000	11.200	-
ii		4.000	2.990	0.000	0.200	1.000	2.392	-
iii		4.000	2.020	0.000	0.200	1.000	1.616	-
iv		4.000	2.220	0.000	0.200	1.000	1.776	-
v		2.000	2.990	0.000	0.200	1.000	1.196	-

Total Quantity					18.18 Sqm (Sqm)		18.18 Sqm (Square Meter)	
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Amount					18.18 X 1047.3822930467		19041.41	
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**10. 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

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
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i		1.000	5.320	4.490	0.000	1.000	23.887	-
Total Quantity					23.8868 Sqm (Sqm)		23.8868 Sqm (Square Meter)	
Amount					23.8868 X 662.689943368		15829.54	
<b>11. Plastering (AR1017) : 20mm thick cement Plaster in CM (1:4) over brick work in inside.</b>								
20mm thick cement Plaster in CM (1:4) over stone work in inside 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.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		1.000	5.320	4.490	0.000	1.000	23.887	-
Total Quantity					23.8868 Sqm (Sqm)		23.8868 Sqm (Square Meter)	
Amount					23.8868 X 278.2542233504		6646.60	
<b>12. Plastering (AR1027) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces including chipping (Inside)</b>								
6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in inside including chipping 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		1.000	2.990	2.020	0.000	1.000	6.040	-
ii		1.000	2.990	2.200	0.000	1.000	6.578	-
Total Quantity					12.6178 Sqm (Sqm)		12.6178 Sqm (Square Meter)	
Amount					12.6178 X 193.4484668752		2440.89	
<b>13. Plastering (AR1004) : 12mm thick cement plaster (1:6) over Brick work in inside</b>								
12mm thick cement plaster (1:6) over Brick work in inside 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.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction

i		1.000	2.990	0.000	3.000	1.000	8.970	-	
ii		2.000	2.020	0.000	3.000	1.000	12.120	-	
iii		2.000	1.000	0.000	2.200	1.000	4.400	-	
iv		2.000	2.200	0.000	1.430	1.000	6.292	-	
v		2.000	2.040	0.000	0.250	1.000	1.020	-	
vi		3.000	2.040	0.000	0.200	1.000	1.224	-	
vii		1.000	2.990	0.000	2.200	1.000	6.578	-	
Total Quantity					40.604 Sqm (Sqm)		40.604 Sqm (Square Meter)		
Amount					40.604 X 176.7688579928		7177.52		

**14. Plastering (AR1014) : 16mm thick cement Plaster in CM (1:6) over brick work in inside.**

16mm thick cement Plaster in CM (1:6) over brick work in inside 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		2.000	2.990	0.000	2.200	1.000	13.156	-	
ii		2.000	2.020	0.000	2.200	1.000	8.888	-	
Total Quantity					22.044 Sqm (Sqm)		22.044 Sqm (Square Meter)		
Amount					22.044 X 252.406210188		5564.04		

**15. Flooring (AR0809) : 10cm thick dry K.B. brick khoa well watered & rammed to receive A.S.flooring incl. cost, conveyance & royalty of materials as per direction of Engineer-in-charge.**

10cm thick dry K.B. brick khoa well watered & rammed to receive A.S.flooring incl. cost, conveyance & royalty of materials as per direction of Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i		1.000	2.990	2.020	0.000	1.000	6.040	-
ii		1.000	2.200	2.990	0.000	1.000	6.578	-

Total Quantity	12.6178 Sqm (Sqm)	12.6178 Sqm (Square Meter)
Amount	12.6178 X 259.4286	3273.42

**16. Other Building Items. (AR1901B) : Vitrified Tile 600mmx600mm Plain Ivory**

Supplying, fitting & fixing Vitrified Tile 600mmx600mm Plain Ivory in floors of size 600mm x 600 mm of approved make conforming IS:13755 laid on 20 mm thick cement mortar(1:4)and filling joints with white cement of approved quality including cost of all materials, taxes, labour, T&P , etc. required for the work all complete as per direction of Engineer-in-charge(for new work only)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i		1.000	2.990	2.020	0.000	1.000	6.040	-
ii		1.000	2.990	2.200	0.000	1.000	6.578	-
iii		1.000	1.050	0.250	0.000	1.000	0.263	-
iv		2.000	2.220	0.250	0.000	1.000	1.110	-
v		1.000	2.990	0.250	0.000	1.000	0.748	-

Total Quantity	14.7378 Sqm (Sqm)	14.7378 Sqm (Square Meter)
Amount	14.7378 X 1022.4286312954	15068.35

**17. Flooring (AR0817ad) : Fixing Vitrified Tile 600mm x 1200mm size of approved shade and make (Single Charge) in dados skirting and risers of steps on 12mm thick cement plaster (1:3)**

Fixing Vitrified Tile 600mm x 1200mm size of approved shade and make (Single Charge) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the Vitrified tiles including rubbing and polishing complete including cost of precast tiles.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	2.990	0.000	0.600	1.000	3.588	-
ii		2.000	2.020	0.000	0.600	1.000	2.424	-
iii	verandah	1.000	2.990	0.000	0.600	1.000	1.794	-
iv	column	8.000	0.250	0.000	0.600	1.000	1.200	-
v		2.000	1.100	0.000	0.550	1.000	1.210	-

vi		2.000	0.550	0.000	0.760	1.000	0.836	-	
vii		2.000	1.100	0.000	0.760	1.000	1.672	-	
viii	tread step	2.000	2.040	0.000	0.250	1.000	1.020	-	
ix	rise step	3.000	2.040	0.000	0.200	1.000	1.224	-	
x	deduct door	2.000	1.060	0.000	0.600	1.000	-	1.272	
Total Quantity					13.696 Sqm (Sqm)		13.696 Sqm (Square Meter)		
Amount					13.696 X 1486.60182495		20360.50		

**18. Painting (AR0918cb) : Finishing wall two coats with weather coat with one coat waterbound Primer**

Finishing wall two coats with weather coat with one coat waterbound Primer including all costs of labour, Paint, Primer, Brushes and putty required for the work etc. complete and as per direction of Engineer-in-charge.(Outside)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction	
i		1.000	2.990	2.020	0.000	1.000	6.040	-	
ii		1.000	2.990	2.020	0.000	1.000	6.040	-	
iii		1.000	2.990	3.000	0.000	1.000	8.970	-	
iv		2.000	2.020	3.000	0.000	1.000	12.120	-	
v		2.000	1.000	2.200	0.000	1.000	4.400	-	
vi		2.000	2.200	1.430	0.000	1.000	6.292	-	
vii		2.000	2.040	0.250	0.000	1.000	1.020	-	
viii		3.000	2.040	0.200	0.000	1.000	1.224	-	
ix		1.000	2.990	2.200	0.000	1.000	6.578	-	
x		2.000	2.990	2.200	0.000	1.000	13.156	-	
xi		2.000	2.020	2.200	0.000	1.000	8.888	-	
Total Quantity					74.7276 Sqm (Sqm)		74.7276 Sqm (Square Meter)		

<b>Amount</b>	74.7276 X 160.75925645161	12013.15
<b>Total Amount</b>		290667.42
<b>Addition</b>		
Provision for survey investigation and quality control (+) @		
Display Citizen Board (+) @		5000.00
Provision for Contingency (+) @		0.10
Provision for EI Work (+) @		
Provision for PH Work (+) @		
Any Other Lumpsum (+) @		4340.00
<b>Total Addition</b>		<b>9340.10</b>
<b>Grand Net Total Amount</b>		<b>300007.52</b>

**Subrat Mangaraj**  
JE  
Sadar Block

**Ashok Kumar Dalabehera**  
AEE  
Sadar Block

**SAMBEET SATAPATHY**  
BDO  
Sadar Block