

## Detailed Estimate

**OD/361/3451/119440/385324/00072556 : Construction of Market Complex at Birikala**  
**Block : Joda, Gram Panchayat : Birikala**  
**Created By:Kartikeswar Naik**

<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	col	8.000	4.000	4.000	4.000	0.028	14.490	-
ii	wall	3.000	35.500	2.000	2.000	0.028	12.056	-
iii	wall	4.000	16.830	2.000	2.000	0.028	7.621	-
iv	col	8.000	4.000	2.000	2.000	0.028	-	3.622
<b>Total Quantity</b>					30.543624 cum (cum)		30.543624 Cum (Cubic Meter)	
<b>Amount</b>					<b>30.543624 X 240.77592</b>		<b>7354.17</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	col	8.000	4.000	4.000	0.330	0.028	1.195	-
ii	wall	3.000	35.500	2.000	0.330	0.028	1.989	-
iii	wall	4.000	16.830	2.000	0.330	0.028	1.257	-
iv	ROOM	3.000	11.000	12.000	2.500	0.028	28.017	-
v	Varanda	1.000	35.500	4.000	2.500	0.028	10.047	-
vi	col	8.000	4.000	2.000	0.330	0.028	-	0.598

Total Quantity	41.90780596 cum (cum)	41.90780596 Cum (Cubic Meter)
Amount	<b>41.90780596 X 1803.115832</b>	<b>75564.63</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	col	8.000	4.000	4.000	0.330	0.028	1.195	-
ii	wall	3.000	35.500	2.000	0.330	0.028	1.989	-
iii	wall	4.000	16.830	2.000	0.330	0.028	1.257	-
iv	ROOM	3.000	11.000	12.000	0.330	0.028	3.698	-
v	Varanda	1.000	35.500	4.000	0.330	0.028	1.326	-
vi	col	8.000	4.000	2.000	0.330	0.028	-	0.598
Total Quantity					8.86868796 cum (cum)		8.86868796 Cum (Cubic Meter)	
Amount					<b>8.86868796 X 6898.98818774</b>		<b>61184.97</b>	

### 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	1st footing	3.000	35.500	1.250	1.000	0.028	3.767	-
ii	2nd footing	3.000	35.500	0.830	3.000	0.028	7.505	-
iii	1st footing	4.000	12.000	1.250	1.000	0.028	1.698	-

iv	2nd footing	4.000	12.000	0.830	3.000	0.028	3.382	-	
v	varanda	2.000	4.000	1.250	1.000	0.028	0.283	-	
vi	varanda	2.000	4.000	0.830	4.000	0.028	0.752	-	
vii	col	8.000	0.830	0.830	5.000	0.028	-	0.780	
Total Quantity					16.6074022 cum (cum)		16.6074022 Cum (Cubic Meter)		
Amount					16.6074022 X 5504.136383032		91409.41		

**5. Masonry Brick Work (AR0603bi) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure**

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	WALL	2.000	35.500	0.830	9.500	0.028	15.843	-	
ii	wall	4.000	12.000	0.830	9.500	0.028	10.711	-	
iii	SHUTTER	3.000	7.000	0.830	7.000	0.028	-	3.453	
Total Quantity					23.1014315 cum (cum)		23.1014315 Cum (Cubic Meter)		
Amount					23.1014315 X 5537.466383032		127923.40		

**6. R.C.C. Work (AR0404Aa) : 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 centring and shuttering) complete and as per direction of Engineer-in charge (RCC foundation, footing bases of column, mass concrete, pre-cast slabs etc.)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	col	8.000	4.000	4.000	0.660	0.028	2.391	-

ii	coloum	8.000	2.000	2.000	0.500	0.028	0.453	-
Total Quantity					2.843584 cum (cum)		2.843584 Cum (Cubic Meter)	
Amount					2.843584 X 7376.7850035487		20976.51	

**7. R.C.C. Work (AR0404Ab) : 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 centring and shuttering) complete and as per direction of Engineer-in charge (RCC Plinth band)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	plinth bend	3.000	35.500	0.830	0.830	0.028	2.076	-
ii	plinth bend	4.000	12.000	0.830	0.830	0.028	0.936	-
iii	v beam	2.000	4.000	0.830	0.830	0.028	0.156	-
Total Quantity					3.168078875 cum (cum)		3.168078875 Cum (Cubic Meter)	
Amount					3.168078875 X 8135.815613436		25774.91	

**8. R.C.C. Work (AR0404Ac) : 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 centring and shuttering) complete and as per direction of Engineer-in charge. (RCC Beams, Column, Girder & Bressmer etc)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	col	8.000	0.830	0.830	9.500	0.028	1.482	-
ii	up to plinth	8.000	0.830	0.830	3.000	0.028	0.468	-
iii	wall beam	2.000	35.500	0.830	0.500	0.028	0.834	-
iv	wall beam	4.000	12.000	0.830	0.500	0.028	0.564	-
v	varanda	4.000	4.000	0.830	0.500	0.028	0.188	-

Total Quantity		3.5350945 cum (cum)					3.5350945 Cum (Cubic Meter)	
Amount		3.5350945 X 15448.282923409					54611.14	
<b>9. R.C.C. Work (AR0404Ad) : 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. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Lintels)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	lintel	2.000	35.500	0.830	0.500	0.028	0.834	-
ii	lintel	4.000	12.000	0.830	0.500	0.028	0.564	-
Total Quantity		1.3975955 cum (cum)					1.3975955 Cum (Cubic Meter)	
Amount		1.3975955 X 14063.886046008					19655.62	
<b>10. R.C.C. Work (AR0404Bg) : Reinforced cement concrete work of M-20 grade with 20mm &amp; downgrade size black hard crusher broken granite chips(RCC Roof slab, lending, balcony, sun shed)(Nominal mix as per IS-456, Table-9).</b>								
Reinforced cement concrete work of M-20 grade with 20mm & downgrade 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 centring and shuttering) complete and as per direction of Engineer-in charge (RCC Roof slab, lending, balcony, sun shed)(Nominal mix as per IS-456, Table-9).								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	ROOF	1.000	36.500	17.830	0.410	0.028	7.551	-
Total Quantity		7.551174385 cum (cum)					7.551174385 Cum (Cubic Meter)	
Amount		7.551174385 X 13702.101212047					103466.96	
<b>11. 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</b>								

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 BAR	10.500	1.000	1.000	1.000	1.000	10.500	-
Total Quantity					10.5 Qntl (Quintal)		10.5 Qntl (Quintal)	
Amount					10.5 X 9267.2761797		97306.40	

**12. 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	WALL	6.000	12.000	10.000	1.000	0.093	66.888	-
ii	WALL	6.000	11.000	10.000	1.000	0.093	61.314	-
iii	DOOR	3.000	7.000	7.000	1.000	0.093	-	13.656
Total Quantity					114.5457 Sqm (Sqm)		114.5457 Sqm (Square Meter)	
Amount					114.5457 X 265.600938058		30423.45	

**13. Plastering (AR1004) : 12mm thick cement plster (1:6) over Brick work in inside**

12mm thick cement plster (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	OUT SIDE WALL	2.000	36.500	10.500	1.000	0.093	71.208	-
ii	wall	2.000	13.660	10.500	1.000	0.093	26.649	-
iii	DOOR	3.000	7.000	7.000	1.000	0.093	-	13.656

iv	UP TO PLINTH	2.000	36.500	4.000	1.000	0.093	27.127	-
v	UP TO PLINTH	2.000	13.660	4.000	1.000	0.093	10.152	-
Total Quantity					121.479756 Sqm (Sqm)		121.479756 Sqm (Square Meter)	
Amount					121.479756 X 187.7644676148		22809.58	

**14. Plastering (AR1027) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces including chipping (Inside)**

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	CILLING	3.000	12.000	11.000	1.000	0.093	36.788	-
ii	V CILLNG	1.000	35.330	4.000	1.000	0.093	13.129	-
Total Quantity					49.917028 Sqm (Sqm)		49.917028 Sqm (Square Meter)	
Amount					49.917028 X 198.9444978232		9930.72	

**15. Flooring (AR0817aa) : Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm plain (Ivory) in dados skirting and risers of steps on 12mm thick cement plaster (1:3)**

Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm plain (Ivory) 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	room	3.000	12.000	11.000	1.000	0.093	36.788	-
ii	varanda	1.000	36.500	4.000	1.000	0.093	13.563	-
iii	door	3.000	7.000	0.830	1.000	0.093	1.619	-
iv	dado	6.000	12.000	0.500	1.000	0.093	3.344	-
v	dado	3.000	11.000	0.500	1.000	0.093	1.533	-

Total Quantity		56.848297 Sqm (Sqm)		56.848297 Sqm (Square Meter)				
Amount		56.848297 X 1554.114421096		88348.76				
<b>16. Iron Work (AR1704) : Iron Doors and windows fixing</b>								
Supplying, fitting & fixing of Mild steel and put up for frames & shutters of Doors and windows fixing in position with cost, conveyance, taxes of all materials, labours and T & P required for the work etc. as per direction of Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	door	2.000	7.000	7.000	1.000	0.093	9.104	-
Total Quantity		9.1042 Qntl (Quintal)		9.1042 Qntl (Quintal)				
Amount		9.1042 X 16570.141021087		150857.88				
Total Amount		987598.49						
<b>Addition</b>								
Provision for PH Work (+) @								
Provision for EI Work (+) @				401.00				
Provision for Contingency (+) @				10000.00				
Display Citizen Board (+) @				2000.00				
Any Other Lumpsum (+) @								
Provision for survey investigation and quality control (+) @								
Total Addition		12401.00						
Grand Net Total Amount		999999.49						

Kartikeswar Naik  
JE  
Joda Block

AJAYA KUMAR SAHOO  
AEE  
Joda Block

KendujharJodaBDO  
BDO  
Joda Block