

## Detailed Estimate

**OD/363/3471/119803/428971/00068979 : Construction of Bhoga Mandap at Sankat Tarini Temple**  
**Block : Koraput, Gram Panchayat : Kerenga**  
**Created By:P Santosh Kumar Patro**

<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	4.000	1.350	1.350	1.350	0.000	9.842	-
ii		2.000	4.730	0.750	0.750	0.000	5.321	-
iii		2.000	3.850	0.750	0.750	0.000	4.331	-
iv		1.000	1.200	1.200	0.300	0.000	0.432	-
v		4.000	1.350	0.750	0.750	0.000	-	3.038
Total Quantity					16.8885 cum (cum)		16.8885 Cum (Cubic Meter)	
Amount					16.8885 X 240.77592		4066.34	
<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	4.000	1.350	1.350	0.150	0.000	1.094	-
ii		2.000	4.730	0.750	0.050	0.000	0.355	-
iii		2.000	3.850	0.750	0.050	0.000	0.289	-
iv	Step	1.000	3.530	4.150	0.300	0.000	4.395	-
v	Step	1.000	1.200	1.200	0.150	0.000	0.216	-

vi		1.000	5.630	0.000	0.000	0.000	5.630	-
vii		4.000	1.350	0.750	0.150	0.000	-	0.608
Total Quantity					11.37035 cum (cum)		11.37035 Cum (Cubic Meter)	
Amount					11.37035 X 1194.227232		13578.78	

### 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	4.000	1.350	1.350	0.150	0.000	1.094	-
ii	L/Wall	2.000	4.730	0.750	0.150	0.000	1.064	-
iii	S/Wall	2.000	3.850	0.750	0.150	0.000	0.866	-
iv	Floor	1.000	3.750	4.370	0.100	0.000	1.639	-
v	Step	1.000	1.200	1.200	0.150	0.000	0.216	-
vi	Deduction	4.000	1.350	0.750	0.150	0.000	-	0.608
Total Quantity					4.27125 cum (cum)		4.27125 Cum (Cubic Meter)	
Amount					4.27125 X 5996.98467994		25614.62	

### 4. Concrete (AR0317) : 2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips

2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips including hoisting and laying in position compacting 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. (new work)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	L/Wall	1.000	4.510	5.130	0.000	0.000	23.136	-
Total Quantity					23.1363 Sqm (Sqm)		23.1363 Sqm (Square Meter)	

<b>Amount</b>				23.1363 X 364.5682262788			8434.76	
<b>5. R.C.C. Work (AR0404Aa) : 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 foundation, footing bases of column, mass concrete, pre-cast slabs etc.)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column Base	4.000	1.350	1.350	0.300	0.000	2.187	-
ii	Hunch	4.000	0.700	0.600	0.400	0.000	0.672	-
Total Quantity					2.859 cum (cum)		2.859 Cum (Cubic Meter)	
<b>Amount</b>				2.859 X 6515.3129804171			18627.28	
<b>6. R.C.C. Work (AR0404Ab) : 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 Plinth band)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	4.210	0.230	0.230	0.000	0.445	-
ii		2.000	4.350	0.230	0.230	0.000	0.460	-
Total Quantity					0.905648 cum (cum)		0.905648 Cum (Cubic Meter)	
<b>Amount</b>				0.905648 X 7273.791469118			6587.49	
<b>7. R.C.C. Work (AR0404Ac) : 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 Beams, Column, Girder & Bressmer etc)								

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	4.000	0.230	0.350	4.250	0.000	1.369	-
ii	Wall Beam	2.000	4.210	0.230	0.230	0.000	0.445	-
iii		2.000	4.370	0.230	0.230	0.000	0.462	-
Total Quantity					2.276264 cum (cum)		2.276264 Cum (Cubic Meter)	
Amount					2.276264 X 14582.874767143		33194.47	

**8. R.C.C. Work (AR0404Ad) : 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 Lintels)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	4.210	0.230	0.230	0.000	0.445	-
ii		2.000	4.370	0.230	0.230	0.000	0.462	-
Total Quantity					0.907764 cum (cum)		0.907764 Cum (Cubic Meter)	
Amount					0.907764 X 13196.709819394		11979.50	

**9. R.C.C. Work (AR0404Ag) : 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 Roof slab, landing, balcony, sun shade)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		1.000	4.510	5.130	0.120	0.000	2.776	-
Total Quantity					2.776356 cum (cum)		2.776356 Cum (Cubic Meter)	

Amount	2.776356 X 12834.771237889	35633.89
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**10. Masonry Brick Work (AR0603c) : Flyash Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:6) in foundation and plinth**

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  $\pm 8$  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	4.210	0.230	1.400	0.000	2.711	-
ii		2.000	4.370	0.230	1.400	0.000	2.814	-
iii		4.000	1.200	0.230	1.100	0.000	1.214	-
iv		2.000	0.600	0.230	1.100	0.000	0.304	-
v	Step	1.000	1.200	0.900	0.300	0.000	0.324	-
vi		1.000	1.200	0.600	0.200	0.000	0.144	-
vii	Column Deduction	4.000	0.230	0.350	1.400	0.000	-	0.451
viii	Gate Deduction	1.000	1.200	0.230	1.100	0.000	-	0.304
Total Quantity					6.75712 cum (cum)		6.75712 Cum (Cubic Meter)	
Amount					6.75712 X 5241.638550592		35418.38	

**11. 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	4.370	3.750	0.000	0.000	16.388	-
ii		1.000	3.750	1.500	0.000	0.000	5.625	-

Total Quantity	22.0125 Sqm (Sqm)	22.0125 Sqm (Square Meter)
Amount	22.0125 X 1020.8701845294	22471.90

### 12. Masonry Stone Work (AR0703) : Random rubble H.G. stone of masonry.

Random rubble H.G. stone of size not less than 0.0025 cum stacked masonry in cement mortar (1:6) in foundation and plinth including watering, curing for seven days 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		2.000	4.580	0.600	0.450	0.000	2.473	-
ii		2.000	4.000	0.600	0.450	0.000	2.160	-
iii		2.000	4.430	0.450	0.450	0.000	1.794	-
iv		2.000	4.150	0.450	0.450	0.000	1.681	-
v		4.000	0.230	0.350	1.200	0.000	-	0.386
Total Quantity					7.7217 cum (cum)		7.7217 Cum (Cubic Meter)	
Amount					7.7217 X 4757.7206377886		36737.69	

### 13. Painting (AR0918ca) : Finishing wall two coats with weather coat with one coat oilbound Primer

Finishing wall surface two coats with weather coat with one coat oilbound 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	31.950	0.000	0.000	0.000	31.950	-
ii		1.000	11.360	0.000	0.000	0.000	11.360	-
iii	Chaja	4.000	5.500	0.900	0.000	0.000	19.800	-
Total Quantity					63.11 Sqm (Sqm)		63.11 Sqm (Square Meter)	
Amount					63.11 X 156.88520431851		9901.03	

<b>14. 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		1.000	180.000	0.000	0.000	0.000	180.000	-
Total Quantity					180 Kg (Kilo Gram)		1.8 Qntl (Quintal)	
Amount					1.8 X 16013.822921087		28824.88	
<b>15. Painting (AR0903b) : Painting two coats of enamel paint with a coat of red oxide primer over iron surface</b>								
Painting two coats of enamel paint with a coat of red oxide primer over iron surface including all costs of labour, Paint, Primer, brushes and putty 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		8.000	1.500	1.200	0.500	0.000	7.200	-
ii		1.000	1.200	2.100	0.500	0.000	1.260	-
Total Quantity					8.46 Sqm (Sqm)		8.46 Sqm (Square Meter)	
Amount					8.46 X 230.04864401703		1946.21	
<b>16. R.C.C. Work (AR0404Af) : 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 Sun sheds & Chajja)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	5.410	0.450	0.000	0.000	4.869	-
ii		2.000	4.830	0.450	0.000	0.000	4.347	-
Total Quantity					9.216 Sqm (Sqm)		9.216 Sqm (Square Meter)	
Amount					9.216 X 1117.7281178816		10300.98	

**17. Flooring (AR0817ab) : Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm Coloured /Printed series(Homogeneous) 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 Coloured /Printed series(Homogeneous) 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		1.000	17.180	1.100	0.000	0.000	18.898	-
Total Quantity					18.898 Sqm (Sqm)		18.898 Sqm (Square Meter)	
Amount					18.898 X 1584.071511956		29935.78	

**18. 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	3.750	2.050	0.000	0.000	15.375	-
ii		2.000	4.370	2.050	0.000	0.000	17.917	-
iii		4.000	1.200	2.050	0.000	0.000	9.840	-
iv		4.000	0.600	2.050	0.000	0.000	4.920	-
Total Quantity					48.052 Sqm (Sqm)		48.052 Sqm (Square Meter)	
Amount					48.052 X 253.188334998		12166.21	

**19. Plastering (AR1008) : 20mm thick cement Plaster in CM (1:6) over brick work in inside.**

20mm thick cement Plaster in CM (1:6) for 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	4.430	0.600	0.000	0.000	5.316	-

ii		2.000	5.500	0.600	0.000	0.000	6.600	-	
Total Quantity					11.916 Sqm (Sqm)		11.916 Sqm (Square Meter)		
Amount					11.916 X 266.328839402		3173.57		
<b>20. 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		1.000	8.500	0.000	0.000	0.000	8.500	-	
Total Quantity					8.5 Qntl (Quintal)		8.5 Qntl (Quintal)		
Amount					8.5 X 8683.1421747		73806.71		
<b>21. Painting (AR0922) : Finishing wall two coats with distemper of approved shades on new work (Inside)</b>									
Finishing wall two coats with distemper of approved shades on new work to give an even shade including all costs of labor, Paint and Brushes required for the work, etc. complete and as per direction of the Engineer-in-charge.(Inside)									
SI No	Description	No	L	B	D	CF	Quantity	Deduction	
i		1.000	65.160	0.000	0.000	0.000	65.160	-	
Total Quantity					65.16 Sqm (Sqm)		65.16 Sqm (Square Meter)		
Amount					65.16 X 78.85530055		5138.21		
<b>Total Amount</b>							<b>427538.71</b>		
<b>Addition</b>									
Provision for survey investigation and quality control (+) @									
Display Citizen Board (+) @							5000.00		
Provision for Contingency (+) @							5000.00		
Provision for EI Work (+) @							12461.00		

Provision for PH Work (+) @	
Any Other Lumpsum (+) @	
<b>Total Addition</b>	<b>22461.00</b>
<b>Grand Net Total Amount</b>	<b>449999.71</b>

**P Santosh Kumar Patro**  
**JE**  
**Koraput Block**

**PHAKIR MOHAN PRADHAN**  
**AEE**  
**Koraput Block**

**Dr. DEBASIS GOUDA**  
**BDO**  
**Koraput Block**