

Detailed Estimate

OD/368/3533/120803/421827/00126423 : Construction of ACR at UGH School Kantapali under Gandamer GP, Vill-Kantapali, G.P-Gandamer
Block : Komna, Gram Panchayat : Gandamer
Created By:THANESWAR PUNJI

1. Earth Work (AR0102aa) : Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift

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	14.000	1.200	1.200	1.200	0.000	24.192	-
ii	L/W	3.000	9.400	0.600	0.600	0.000	10.152	-
iii	S/W	2.000	6.500	0.600	0.600	0.000	4.680	-
iv	C/W	2.000	2.100	0.600	0.600	0.000	1.512	-
v	STEPS	1.000	9.400	1.200	0.300	0.000	3.384	-
vi	Deduction Column	14.000	1.200	0.600	0.600	0.000	-	6.048
Total Quantity					37.872 cum (cum)		37.872 Cum (Cubic Meter)	
Amount					37.872 X 245.98752		9316.04	

2. Earth Work (AR0115) : Filling foundation and plinth with sand well watered and rammed

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	14.000	1.200	1.200	0.150	0.000	3.024	-
ii	L/W	3.000	9.400	0.600	0.150	0.000	2.538	-
iii	S/W	2.000	6.500	0.600	0.150	0.000	1.170	-
iv	C/W	2.000	2.100	0.600	0.150	0.000	0.378	-
v	STEPS	1.000	9.400	1.200	0.150	0.000	1.692	-

vi	Deduction Column	14.000	1.200	0.600	0.150	0.000	-	1.512
vii	Below floor. Classroom	1.000	8.800	5.900	0.600	0.000	31.152	-
viii	VER	1.000	8.800	1.800	0.600	0.000	9.504	-
Total Quantity					47.946 cum (cum)		47.946 Cum (Cubic Meter)	
Amount					47.946 X 718.957592		34471.14	

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	Column	14.000	1.200	1.200	0.150	0.000	3.024	-
ii	L/W	3.000	9.400	0.600	0.150	0.000	2.538	-
iii	S/W	2.000	6.500	0.600	0.150	0.000	1.170	-
iv	C/W	2.000	2.100	0.600	0.150	0.000	0.378	-
v	STEPS	1.000	9.400	1.200	0.150	0.000	1.692	-
vi	Deduction Column	14.000	1.200	0.600	0.150	0.000	-	1.512
vii	Below floor. Classroom	1.000	8.800	5.900	0.100	0.000	5.192	-
viii	VER	1.000	8.800	1.800	0.100	0.000	1.584	-
Total Quantity					14.066 cum (cum)		14.066 Cum (Cubic Meter)	
Amount					14.066 X 5480.26303404		77085.38	

4. Masonry Brick Work (AR0602e) : C.B. Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:4) in foundation and plinth

Brickwork with C.B. Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:4) in foundation and plinth having crushing strength not less than 75.00 Kg/cm² 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
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i	1st ft L/w	3.000	9.150	0.350	0.300	0.000	2.882	-	
ii	S/W	2.000	6.750	0.350	0.300	0.000	1.418	-	
iii	C/W	2.000	2.350	0.350	0.300	0.000	0.494	-	
iv	2nd ft L/W	3.000	9.050	0.230	0.450	0.000	2.810	-	
v	S/W	2.000	6.850	0.230	0.450	0.000	1.418	-	
vi	C/W	2.000	2.450	0.230	0.450	0.000	0.507	-	
vii	Deduct Column	14.000	0.250	0.230	0.750	0.000	-	0.604	
Total Quantity					8.924625 cum (cum)		8.924625 Cum (Cubic Meter)		
Amount					8.924625 X 5181.177588		46240.07		

5. 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.)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction	
i	Column Base	14.000	1.050	1.050	0.150	0.000	2.315	-	
ii		14.000	0.900	0.900	0.250	0.000	2.835	-	
iii	Below Plinth	14.000	0.250	0.230	0.950	0.000	0.765	-	
Total Quantity					5.915 cum (cum)		5.915 Cum (Cubic Meter)		
Amount					5.915 X 5959.0667641573		35247.88		

6. 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
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i	Plinth Bend	3.000	9.050	0.230	0.250	0.000	1.561	-
ii		2.000	6.850	0.230	0.250	0.000	0.788	-
iii		2.000	2.450	0.230	0.250	0.000	0.282	-
iv	Deduction	14.000	0.230	0.230	0.230	0.000	-	0.170
Total Quantity					2.460287 cum (cum)		2.460287 Cum (Cubic Meter)	
Amount					2.460287 X 6719.423889299		16531.71	

7. R.C.C. Work (AR0404Bd) : Reinforced cement concrete work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips(RCC Lintels)(Nominal mix as per IS-456, Table-9).

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 Lintels)(Nominal mix as per IS-456, Table-9).

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Lintel Bend L/W	2.000	9.050	0.230	0.150	0.000	0.624	-
ii	S/W	2.000	6.850	0.230	0.150	0.000	0.473	-
iii	C/W	2.000	2.450	0.230	0.150	0.000	0.169	-
Total Quantity					1.26615 cum (cum)		1.26615 Cum (Cubic Meter)	
Amount					1.26615 X 12667.159742688		16038.52	

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	Column in Superstructure	14.000	0.250	0.230	2.900	0.000	2.335	-
ii	T beam	1.000	9.050	0.230	0.230	0.000	0.479	-
iii	Roof Beam	2.000	6.500	0.230	0.350	0.000	1.047	-

iv	Wall Band L/W	3.000	9.050	0.230	0.150	0.000	0.937	-
v	S/W	2.000	6.850	0.230	0.150	0.000	0.473	-
vi	C/W	2.000	2.450	0.230	0.150	0.000	0.169	-
Total Quantity					5.43812 cum (cum)		5.43812 Cum (Cubic Meter)	
Amount					5.43812 X 14119.127901477		76781.51	

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	Chajja F.ver	1.000	9.050	0.600	0.075	0.000	0.407	-
ii	F.Ver.Side	1.000	2.600	0.600	0.075	0.000	0.117	-
iii	Back Window	3.000	1.500	0.600	0.075	0.000	0.203	-
iv	Roof Slab	1.000	9.400	10.290	0.125	0.000	12.091	-
Total Quantity					12.8175 cum (cum)		12.8175 Cum (Cubic Meter)	
Amount					12.8175 X 12321.152218547		157926.37	

10. 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	Roof Slab	1.000	27.000	0.000	0.000	0.000	27.000	-
Total Quantity					27 Qntl (Quintal)		27 Qntl (Quintal)	
Amount					27 X 8042.4016895		217144.85	

11. Masonry Brick Work (AR0602ei) : C.B. Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:4) in superstructure

Brickwork with C.B. Bricks of size (23cm x 11 cm x 8cm) in cement mortar (1:4) in superstructure having crushing strength not less than 75.00 Kg/cm² 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	L/w	3.000	9.050	0.230	2.900	0.000	18.109	-
ii	S/W	2.000	6.850	0.230	2.900	0.000	9.138	-
iii	C/W	2.000	2.450	0.230	2.900	0.000	3.268	-
iv	Step	1.000	9.400	1.200	0.200	0.000	2.256	-
v		1.000	9.400	0.800	0.200	0.000	1.504	-
vi		1.000	9.400	0.400	0.200	0.000	0.752	-
vii	Deduct Column	14.000	0.230	0.230	2.900	0.000	-	2.148
viii	Ventilator	9.000	0.450	0.230	0.300	0.000	-	0.279
ix	DOOR	2.000	1.200	0.230	2.100	0.000	-	1.159
x	WINDOW	3.000	1.200	0.230	1.350	0.000	-	1.118
xi	Ver Opening	1.000	8.200	0.230	2.100	0.000	-	3.961
Total Quantity					26.36246 cum (cum)		26.36246 Cum (Cubic Meter)	
Amount					26.36246 X 5147.766788		135707.80	

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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	L/w	3.000	8.750	0.000	2.900	0.000	76.125	-
ii	S/W	2.000	6.550	0.000	2.900	0.000	37.990	-
iii	C/W	2.000	2.150	0.000	2.900	0.000	12.470	-
iv	Ventilator	9.000	0.450	0.000	0.300	0.000	-	1.215

v	DOOR	2.000	1.200	0.000	2.100	0.000	-	5.040
vi	WINDOW	3.000	1.200	0.000	1.350	0.000	-	4.860
vii	Ver Opening	1.000	8.200	0.000	2.100	0.000	-	17.220
Total Quantity					98.25 Sqm (Sqm)		98.25 Sqm (Square Meter)	
Amount					98.25 X 247.079538868		24275.56	

13. Painting (AR0919) : Finishing wall One Coat with plastic emulsion paint of approved shades on old work (Inside)

Finishing wall One Coat with plastic emulsion paint of approved shades on old 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)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	L/w	3.000	8.750	0.000	2.900	0.000	76.125	-
ii	S/W	2.000	6.550	0.000	2.900	0.000	37.990	-
iii	C/W	2.000	2.150	0.000	2.900	0.000	12.470	-
iv	Step	1.000	9.400	0.000	0.200	0.000	1.880	-
v		1.000	9.400	0.000	0.200	0.000	1.880	-
vi		1.000	9.400	0.000	0.200	0.000	1.880	-
vii	Ventilator	9.000	0.450	0.000	0.300	0.000	-	1.215
viii	DOOR	2.000	1.200	0.000	2.100	0.000	-	5.040
ix	WINDOW	3.000	1.200	0.000	1.350	0.000	-	4.860
x	Ver Opening	1.000	8.200	0.000	2.100	0.000	-	17.220
Total Quantity					103.89 Sqm (Sqm)		103.89 Sqm (Square Meter)	
Amount					103.89 X 62.02566449		6443.85	

14. Plastering (AR1004) : 12mm thick cement plaster (1:6) over Brick work in inside

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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
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i	L/w	3.000	9.050	0.000	2.900	0.000	78.735	-
ii	S/W	2.000	6.850	0.000	2.900	0.000	39.730	-
iii	C/W	2.000	2.450	0.000	2.900	0.000	14.210	-
iv	Ventilator	9.000	0.450	0.000	0.300	0.000	-	1.215
v	DOOR	2.000	1.200	0.000	2.100	0.000	-	5.040
vi	WINDOW	3.000	1.200	0.000	1.350	0.000	-	4.860
vii	Ver Opening	1.000	8.200	0.000	2.100	0.000	-	17.220
Total Quantity					104.34 Sqm (Sqm)		104.34 Sqm (Square Meter)	
Amount					104.34 X 171.5915745608		17903.86	

15. Painting (AR0918g) : Finishing wall with two coats weather coat paint of approved shade including one coat of oil bound primer in the outer surface of old work .(Outside)

Finishing wall with two coats weather coat paint of approved shade including one coat of oil bound primer in the outer surface of old work to give an even shade including all costs of labour, Paint, 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	L/w	3.000	9.050	0.000	2.900	0.000	78.735	-
ii	S/W	2.000	6.850	0.000	2.900	0.000	39.730	-
iii	C/W	2.000	2.450	0.000	2.900	0.000	14.210	-
iv	Ventilator	9.000	0.450	0.000	0.300	0.000	-	1.215
v	DOOR	2.000	1.200	0.000	2.100	0.000	-	5.040
vi	WINDOW	3.000	1.200	0.000	1.350	0.000	-	4.860
vii	Ver Opening	1.000	8.200	0.000	2.100	0.000	-	17.220
Total Quantity					104.34 Sqm (Sqm)		104.34 Sqm (Square Meter)	
Amount					104.34 X 159.14386602289		16605.07	

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)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	C/R	1.000	8.600	5.900	0.000	0.000	50.740	-
ii	Ver	1.000	8.600	1.800	0.000	0.000	15.480	-
Total Quantity					66.22 Sqm (Sqm)		66.22 Sqm (Square Meter)	
Amount					66.22 X 1007.8800256954		66741.82	

17. Iron Work (AR1704) : Iron Doors and windows fixing

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	4.000	6.500	0.000	2.250	117.000	-
ii	Window	3.000	4.000	3.500	0.000	2.500	105.000	-
Total Quantity					222 Kg (Kilo Gram)		2.22 Qntl (Quintal)	
Amount					2.22 X 15551.644815197		34524.65	

Total Amount (A) : 988986.08

Additional Components

#	Item Name	Remark	Amount (in Rs.)
1	Provision for Contingency @ 1%	-	9889.8607807083
2	Display Citizen Board @ Rs.1124	-	1124

Additional Components Amount (F) : 11013.860780708

Grand Total Amount (A + F) : 999999.93885154

THANESWAR PUNJI
JE
Komna Block

DURGA SHANKAR MEHER
AEE
Komna Block

PABITRA KUMAR SAMAL
BDO
Komna Block