

Detailed Estimate

OD/354/3368/117665/410364/00063811 : Construction of Addl. Class Room At UP School, Karachuli
Block : Buguda, Gram Panchayat : Karachuli
Created By: Srikanta Sethi

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	12.000	1.500	1.500	1.500	0.000	40.500	-
ii	wall	3.000	5.320	0.400	0.300	0.000	1.915	-
iii		2.000	4.000	0.400	0.300	0.000	0.960	-
Total Quantity					43.3752 cum (cum)		43.3752 Cum (Cubic Meter)	
Amount					43.3752 X 240.77592		10443.70	
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	12.000	1.500	1.500	0.150	0.000	4.050	-
ii	wall	3.000	5.320	0.400	0.100	0.000	0.638	-
iii		2.000	4.000	0.400	0.100	0.000	0.320	-
iv	F&P	1.000	9.600	6.770	0.300	0.000	19.498	-
Total Quantity					24.506 cum (cum)		24.506 Cum (Cubic Meter)	
Amount					24.506 X 703.286432		17234.74	
3. Concrete (AR0304a) : Cement concrete (1:4:8) with 4 cm. hard granite(Hand Broken) metal								

Cement concrete (1:4:8) 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	12.000	1.500	1.500	0.150	0.000	4.050	-
ii	wall	3.000	5.320	0.400	0.100	0.000	0.638	-
iii		4.000	4.000	0.400	0.100	0.000	0.640	-
iv	F&P	1.000	9.600	6.770	0.100	0.000	6.499	-
Total Quantity					11.8276 cum (cum)		11.8276 Cum (Cubic Meter)	
Amount					11.8276 X 5023.89599248		59420.63	

4. 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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column Gap	24.000	0.400	0.600	0.900	0.000	5.184	-
Total Quantity					5.184 cum (cum)		5.184 Cum (Cubic Meter)	
Amount					5.184 X 4369.9971634884		22654.07	

5. 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/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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Wall	2.000	5.320	0.400	0.100	0.000	0.426	-
ii	s wall	4.000	4.000	0.400	0.100	0.000	0.640	-

iii	Ramp	2.000	2.450	0.230	0.600	0.000	0.676	-
iv	steps	3.000	2.450	0.300	0.200	0.000	0.441	-
v		1.000	1.200	0.230	0.300	0.000	0.083	-
vi		1.000	1.200	0.230	0.600	0.000	0.166	-
Total Quantity					2.4312 cum (cum)		2.4312 Cum (Cubic Meter)	
Amount					2.4312 X 5161.944162848		12549.72	

6. Masonry Brick Work (AR0603ci) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure

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/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 wall	2.000	10.050	0.230	2.750	0.000	12.713	-
ii		2.000	5.410	0.230	2.750	0.000	6.844	-
iii	Lintel Over	1.000	13.700	0.230	0.650	0.000	2.048	-
iv	Door	2.000	1.050	0.230	2.100	0.000	-	1.014
v	window	4.000	1.200	0.230	1.200	0.000	-	1.325
vi	Ventilator	6.000	0.600	0.230	0.200	0.000	-	0.166
vii	Column	8.000	0.350	0.230	2.800	0.000	-	1.803
viii		4.000	0.230	0.230	0.650	0.000	-	0.138
Total Quantity					17.15961 cum (cum)		17.15961 Cum (Cubic Meter)	
Amount					17.15961 X 5195.274162848		89148.88	

7. 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	Inside	2.000	9.600	3.150	0.000	0.000	60.480	-
ii		2.000	4.950	3.150	0.000	0.000	31.185	-
iii	Lintel over	1.000	13.200	0.900	0.000	0.000	11.880	-
iv		1.000	10.050	3.150	0.000	0.000	31.658	-
v	Door	2.000	1.050	2.100	0.000	0.000	-	4.410
vi	window	4.000	1.200	1.200	0.000	0.000	-	5.760
Total Quantity					125.0325 Sqm (Sqm)		125.0325 Sqm (Square Meter)	
Amount					125.0325 X 251.121068412		31398.29	

8. Plastering (AR1004i) : 12mm thick cement plaster (1:6) over Brick work in outside.

12mm thick cement plaster (1:6) over Brick work in outside 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	Outside	2.000	10.050	3.150	0.000	0.000	63.315	-
ii		2.000	5.450	3.150	0.000	0.000	34.335	-
iii	Lintel Over	1.000	13.750	0.900	0.000	0.000	12.375	-
iv	Door	2.000	1.050	2.100	0.000	0.000	-	4.410
v	window	4.000	1.200	1.200	0.000	0.000	-	5.760
Total Quantity					99.855 Sqm (Sqm)		99.855 Sqm (Square Meter)	
Amount					99.855 X 175.6982816672		17544.35	

9. 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 specification and direction of Engineer-in charge. (new work)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	slab	1.000	10.400	7.500	0.000	0.000	78.000	-
Total Quantity					78 Sqm (Sqm)		78 Sqm (Square Meter)	
Amount					78 X 357.7724592972		27906.25	

10. Plastering (AR1008i) : 20mm thick cement Plaster in CM (1:6) over stone work in outside (Outside)

20mm thick cement Plaster in CM (1:6) over stone work in outside 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	F&P	1.000	10.200	0.900	0.000	0.000	9.180	-
ii		1.000	7.500	0.900	0.000	0.000	6.750	-
Total Quantity					15.93 Sqm (Sqm)		15.93 Sqm (Square Meter)	
Amount					15.93 X 264.054025088		4206.38	

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

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	All members	1.000	30.000	0.000	0.000	0.000	30.000	-
Total Quantity					30 Qntl (Quintal)		30 Qntl (Quintal)	
Amount					30 X 9008.2204212		270246.61	

12. 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	80.000	0.000	0.000	0.000	160.000	-
ii	window	4.000	60.000	0.000	0.000	0.000	240.000	-
Total Quantity					400 Kg (Kilo Gram)		4 Qntl (Quintal)	
Amount					4 X 16329.425701087		65317.70	

13. 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	Footing	12.000	1.500	1.500	0.350	0.000	9.450	-
ii	Pedestal	12.000	0.450	0.450	0.350	0.000	0.851	-
iii	Plinth beam	3.000	10.050	0.230	0.250	0.000	1.734	-
iv		4.000	6.750	0.230	0.250	0.000	1.553	-
v	Lintel beam	1.000	10.050	0.230	0.230	0.000	0.532	-
vi		2.000	2.050	0.230	0.230	0.000	0.217	-
vii		2.000	10.050	0.230	0.150	0.000	0.693	-
viii		2.000	4.750	0.230	0.150	0.000	0.328	-
ix	Chajja	1.000	10.050	0.600	0.060	0.000	0.362	-
x	w chajja	3.000	1.500	0.550	0.060	0.000	0.149	-
xi	Wall beam	2.000	10.050	0.230	0.250	0.000	1.156	-
xii		2.000	6.750	0.230	0.250	0.000	0.776	-

xiii		2.000	5.450	0.230	0.350	0.000	0.877	-
xiv	slab	1.000	10.400	7.600	0.125	0.000	9.880	-
xv	Column	8.000	0.230	0.350	4.050	0.000	2.608	-
xvi		4.000	0.230	0.230	4.050	0.000	0.857	-
Total Quantity					32.02129 cum (cum)		32.02129 Cum (Cubic Meter)	
Amount					32.02129 X 5871.2642994172		188005.46	

14. 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

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Plinth	6.000	10.050	0.000	0.300	0.000	18.090	-
ii		8.000	6.750	0.000	0.300	0.000	16.200	-
Total Quantity					34.29 Sqm (Sqm)		34.29 Sqm (Square Meter)	
Amount					34.29 X 216.23489289764		7414.69	

15. 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	8.000	1.160	0.000	4.050	0.000	37.584	-
ii		4.000	0.920	0.000	4.050	0.000	14.904	-
iii	wall beam	6.000	10.050	0.000	0.250	0.000	15.075	-
iv		4.000	7.230	0.000	0.250	0.000	7.230	-

v		4.000	5.450	0.000	0.350	0.000	7.630	-
vi		2.000	5.450	0.000	0.230	0.000	2.507	-
Total Quantity					84.93 Sqm (Sqm)		84.93 Sqm (Square Meter)	
Amount					84.93 X 1047.3822930467		88954.18	

16. 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 Beam	2.000	10.050	0.000	0.230	0.000	4.623	-
ii		4.000	2.050	0.000	0.230	0.000	1.886	-
iii		1.000	14.150	0.000	0.230	0.000	3.255	-
iv		4.000	5.450	0.000	0.150	0.000	3.270	-
v		4.000	10.050	0.000	0.150	0.000	6.030	-
Total Quantity					19.0635 Sqm (Sqm)		19.0635 Sqm (Square Meter)	
Amount					19.0635 X 499.15267251462		9515.60	

17. 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
i	slab	1.000	10.400	7.600	0.000	0.000	79.040	-
ii	sides	2.000	10.400	0.125	0.000	0.000	2.600	-
iii		2.000	7.600	0.125	0.000	0.000	1.900	-

iv	chajja	1.000	14.150	0.600	0.000	0.000	8.490	-
v		3.000	1.500	0.550	0.000	0.000	2.475	-
Total Quantity					94.505 Sqm (Sqm)		94.505 Sqm (Square Meter)	
Amount					94.505 X 662.689943368		62627.51	
Total Amount							984588.77	
Addition								
Provision for PH Work (+) @								
Provision for EI Work (+) @								
Provision for Contingency (+) @							10000.00	
Display Citizen Board (+) @							3500.00	
Any Other Lumpsum (+) @							1911.00	
Provision for survey investigation and quality control (+) @								
Total Addition							15411.00	
Grand Net Total Amount							999999.77	

Srikanta Sethi
JE
Buguda Block

Rajib Chandra Pradhan
AEE
Buguda Block

DUTIKRUSHNA PATRO
BDO
Buguda Block