

Detailed Estimate

OD/346/3305/116241/393326/00068347 : Const of additional classroom Betakata Primary School

Block : Nilgiri, Gram Panchayat : K.C.Pur

Created By:BAIDYANATH SINGH

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	Col	11.000	1.000	1.000	1.000	0.000	11.000	-
ii		1.000	23.300	0.400	0.300	0.000	2.796	-
iii	Col	11.000	1.000	0.400	0.300	0.000	-	1.320
Total Quantity					12.476 cum (cum)		12.476 Cum (Cubic Meter)	
Amount					12.476 X 240.77592		3003.92	
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	Col	11.000	1.000	1.000	0.100	0.000	1.100	-
ii	Col B/Filing	11.000	0.330	0.000	0.000	0.000	3.630	-
iii	B.GB	1.000	23.300	0.400	0.100	0.000	0.932	-
iv	Inside -R-1	1.000	4.100	3.850	0.400	0.000	6.314	-
v	ver	1.000	4.100	0.900	0.400	0.000	1.476	-
vi	Col	11.000	1.000	0.400	0.100	0.000	-	0.440
Total Quantity					13.012 cum (cum)		13.012 Cum (Cubic Meter)	

Amount			13.012 X 1197.681432				15584.23	
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	11.000	1.000	1.000	0.150	0.000	1.650	-
ii	B.GB	1.000	23.300	0.400	0.100	0.000	0.932	-
iii	Inside -R-1	1.000	4.100	3.850	0.100	0.000	1.579	-
iv	ver	1.000	4.100	0.900	0.100	0.000	0.369	-
v	Col	11.000	1.000	0.400	0.100	0.000	-	0.440
Total Quantity					4.0895 cum (cum)		4.0895 Cum (Cubic Meter)	
Amount			4.0895 X 6423.04054686				26267.02	
4. 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	Col	11.000	1.000	1.000	0.250	0.000	2.750	-
ii		11.000	0.250	0.250	0.800	0.000	0.550	-
iii	G.B	3.000	4.600	0.250	0.250	0.000	0.863	-
iv		2.000	3.850	0.250	0.250	0.000	0.481	-
v		2.000	0.900	0.250	0.250	0.000	0.113	-
vi	Col S/s	9.000	0.250	0.250	2.900	0.000	1.631	-

vii	Lintel	2.000	4.600	0.250	0.150	0.000	0.345	-
viii		1.000	4.600	0.250	0.250	0.000	0.288	-
ix		2.000	3.850	0.250	0.250	0.000	0.481	-
x		2.000	0.900	0.250	0.250	0.000	0.113	-
xi	F.Chaja	1.000	4.600	0.500	0.080	0.000	0.184	-
xii	W.Chaja	2.000	1.650	0.500	0.080	0.000	0.132	-
xiii	W.Beam	3.000	4.600	0.250	0.150	0.000	0.518	-
xiv		2.000	3.850	0.250	0.150	0.000	0.289	-
xv		2.000	0.900	0.250	0.150	0.000	0.068	-
xvi	Slab	1.000	4.900	5.800	0.100	0.000	2.842	-
Total Quantity					11.6455 cum (cum)		11.6455 Cum (Cubic Meter)	
Amount					11.6455 X 6914.5326010887		80523.19	
5. 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	Col	11.000	4.000	0.250	0.800	0.000	8.800	-
ii	GB	3.000	2.000	4.600	0.250	0.000	6.900	-
iii		2.000	2.000	3.850	0.250	0.000	3.850	-
iv		2.000	2.000	0.900	0.250	0.000	0.900	-
Total Quantity					20.45 Sqm (Sqm)		20.45 Sqm (Square Meter)	
Amount					20.45 X 216.23489289764		4422.00	

6. 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	Col	9.000	4.000	0.250	2.900	0.000	26.100	-
ii	Wall beam	3.000	2.000	4.600	0.150	0.000	4.140	-
iii		2.000	2.000	3.850	0.150	0.000	2.310	-
iv		2.000	2.000	0.900	0.150	0.000	0.540	-
Total Quantity					33.09 Sqm (Sqm)		33.09 Sqm (Square Meter)	
Amount					33.09 X 1047.3822930467		34657.88	

7. 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	2.000	2.000	4.600	0.150	0.000	2.760	-
ii		1.000	1.000	4.600	0.750	0.000	3.450	-
iii		2.000	1.000	3.850	0.150	0.000	1.155	-
iv		2.000	1.000	0.900	0.750	0.000	1.350	-
Total Quantity					8.715 Sqm (Sqm)		8.715 Sqm (Square Meter)	
Amount					8.715 X 499.15267251462		4350.12	

8. 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

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Chaja	1.000	4.600	0.500	0.000	0.000	2.300	-
ii		2.000	1.650	0.500	0.000	0.000	1.650	-
iii	Roof Slab	1.000	4.900	5.800	0.000	0.000	28.420	-
Total Quantity					32.37 Sqm (Sqm)		32.37 Sqm (Square Meter)	
Amount					32.37 X 662.689943368		21451.27	

9. 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		12.150	0.000	0.000	0.000	0.000	12.150	-
Total Quantity					12.15 Qntl (Quintal)		12.15 Qntl (Quintal)	
Amount					12.15 X 8652.2742113		105125.13	

10. 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/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		1.000	23.300	0.250	0.250	0.000	1.456	-
ii	Col	11.000	0.250	0.250	0.250	0.000	-	0.172
Total Quantity					1.284375 cum (cum)		1.284375 Cum (Cubic Meter)	
Amount					1.284375 X 5468.622986848		7023.76	

11. 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/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	2.000	4.600	0.250	2.900	0.000	6.670	-
ii		2.000	3.850	0.250	2.900	0.000	5.583	-
iii		1.000	4.600	0.250	0.750	0.000	0.863	-
iv		2.000	0.900	0.250	0.750	0.000	0.338	-
v	Col	6.000	0.250	0.250	2.900	0.000	-	1.088
vi		3.000	0.250	0.250	0.750	0.000	-	0.141
vii	D	1.000	0.950	0.250	2.100	0.000	-	0.499
viii	W	2.000	1.200	0.250	1.200	0.000	-	0.720
Total Quantity					11.005625 cum (cum)		11.005625 Cum (Cubic Meter)	
Amount					11.005625 X 5501.952986848		60552.43	

12. 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	C.room	1.000	0.000	4.100	3.850	0.000	15.785	-
ii	Ver	1.000	0.000	4.600	0.900	0.000	4.140	-
iii	F.chaja	1.000	0.000	4.600	0.500	0.000	2.300	-
iv	W.chaja	2.000	0.000	1.650	0.500	0.000	1.650	-

Total Quantity	23.875 Sqm (Sqm)	23.875 Sqm (Square Meter)
Amount	23.875 X 193.2184423648	4613.09

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	L.w	1.000	0.000	4.600	3.400	0.000	15.640	-
ii		1.000	0.000	4.600	3.200	0.000	14.720	-
iii	S.w	2.000	0.000	4.350	3.400	0.000	29.580	-
iv	L.w	1.000	0.000	4.600	1.150	0.000	5.290	-
v	S/w	2.000	0.000	1.150	1.150	0.000	2.645	-
vi	D	1.000	0.500	0.950	2.100	0.000	-	0.998
vii	W	2.000	0.500	1.200	1.200	0.000	-	1.440

Total Quantity	65.4375 Sqm (Sqm)	65.4375 Sqm (Square Meter)
Amount	65.4375 X 177.5024901172	11615.32

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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		2.000	0.000	4.100	3.200	0.000	26.240	-
ii		2.000	0.000	3.850	3.200	0.000	24.640	-
iii		1.000	0.000	4.100	1.150	0.000	4.715	-

iv		2.000	0.000	0.900	1.150	0.000	2.070	-	
v	D	1.000	0.500	0.950	2.100	0.000	-	0.998	
vi	W	2.000	0.500	1.200	1.200	0.000	-	1.440	
Total Quantity					55.2275 Sqm (Sqm)		55.2275 Sqm (Square Meter)		
Amount					55.2275 X 253.285331762		13988.32		

15. Plastering (AR1017) : 20mm thick cement Plaster in CM (1:4) over masonry work in inside.

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	4.900	5.800	0.000	0.000	28.420	-	
Total Quantity					28.42 Sqm (Sqm)		28.42 Sqm (Square Meter)		
Amount					28.42 X 278.5304643296		7915.84		

16. 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	C.room	2.000	0.000	4.100	0.150	0.000	1.230	-	
ii		2.000	0.000	3.850	0.150	0.000	1.155	-	
iii	ver	1.000	0.000	4.600	0.150	0.000	0.690	-	
Total Quantity					3.075 Sqm (Sqm)		3.075 Sqm (Square Meter)		
Amount					3.075 X 1539.394578884		4733.64		

17. Flooring (AR0816) : Fixing ceramic Tiles (30cmx30cm / 40cmx40cm special plain/printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755) in floor

Fixing ceramic Tiles (30cmx30cm / 40cmx40cm special plain/printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755) in floor , treads or steps and landing on a 25mm thick bed of cement mortar 1:1 (1cement: 1sand) jointed with neat cement slurry mixed with pigment to match the shades of the ceramic tiles including rubbing and polishing, cost of precast tiles complete as per direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	C.room	1.000	0.000	4.100	3.850	0.000	15.785	-
ii	ver	1.000	0.000	4.600	1.150	0.000	5.290	-
Total Quantity					21.075 Sqm (Sqm)		21.075 Sqm (Square Meter)	
Amount					21.075 X 1201.8659564148		25329.33	

18. Painting (AR0920) : Finishing wall two coats with plastic emulsion paint of approved shades on new work (Inside)

Finishing wall two coats with plastic emulsion paint 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	Same Qty 16mm thick	0.000	0.000	0.000	55.220	0.000	55.220	-
ii	Same qty 6mm thick	0.000	0.000	0.000	23.870	0.000	23.870	-
Total Quantity					79.09 Sqm (Sqm)		79.09 Sqm (Square Meter)	
Amount					79.09 X 94.7766463875		7495.88	

19. 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)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Same Qty 12mm thick	0.000	0.000	0.000	65.430	0.000	65.430	-
Total Quantity					65.43 Sqm (Sqm)		65.43 Sqm (Square Meter)	

Amount				65.43 X 156.89365297861			10265.55	
20. Painting (AR0903b) : Painting two coats of enamel paint with a coat of red oxide primer over iron surface								
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	Door	1.000	2.250	0.950	2.100	0.000	4.489	-
ii	W	2.000	2.750	1.200	1.200	0.000	7.920	-
Total Quantity					12.40875 Sqm (Sqm)		12.40875 Sqm (Square Meter)	
Amount				12.40875 X 230.37785181013			2858.70	
21. miscellaneous (ARM287) : Supplying and fixing of 80mm thick cement concrete interlocking paver block of M-40 grade of approved make, design, colour and size made by Block making machine with proper compaction laid in required pattern etc. complete in all respect conforming to IRC								
Supplying and fixing of 80mm thick cement concrete interlocking paver block of M-40 grade of approved make, design, colour and size made by Block making machine with proper compaction laid in required pattern etc. complete in all respect conforming to IRC SP-63:2018. (New miscellaneous items) and as directed by Engineer-in-Charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		1.000	27.000	3.050	0.000	0.000	82.350	-
Total Quantity					82.35 Sqm (Sqm)		82.35 Sqm (Square Meter)	
Amount				82.35 X 642.2616			52890.24	
Total Amount							504666.87	
Addition								
Provision for PH Work (+) @							57286.20	
Provision for EI Work (+) @							28000.00	
Provision for Contingency (+) @							5046.67	
Display Citizen Board (+) @							5000.00	

Any Other Lumpsum (+) @	
Provision for survey investigation and quality control (+) @	
Total Addition	95332.87
Grand Net Total Amount	599999.74

BAIDYANATH SINGH
JE
Nilgiri Block

Sarat kumar Upadhyay
AEE
Nilgiri Block

Bikram Kishore Parida
BDO
Nilgiri Block