

Detailed Estimate

OD/373/3587/121740/384060/00070172 : Construction of Cultural Centre at Rural Park
Block : Subdega, Gram Panchayat : Damkuda
Created By:ASIT PATEL

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	4.000	1.400	1.400	1.400	0.000	10.976	-
ii	L/W	2.000	5.950	0.750	0.450	0.000	4.016	-
iii	S/W	2.000	4.750	0.750	0.450	0.000	3.206	-
iv	Steps	1.000	2.150	1.200	0.300	0.000	0.774	-
v	Column	4.000	1.400	0.750	0.450	0.000	-	1.890
Total Quantity					17.0825 cum (cum)		17.0825 Cum (Cubic Meter)	
Amount					17.0825 X 240.77592		4113.05	
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	4.000	1.400	1.400	0.150	0.000	1.176	-
ii	L/W	2.000	5.950	0.750	0.100	0.000	0.893	-
iii	S/W	2.000	4.750	0.750	0.100	0.000	0.713	-
iv	Steps	1.000	2.150	1.200	0.100	0.000	0.258	-
v	Plinth Protection	2.000	7.400	0.450	0.075	0.000	0.500	-

vi		2.000	5.000	0.450	0.075	0.000	0.338	-	
vii	Hall	1.000	5.700	4.500	0.300	0.000	7.695	-	
viii	Column	4.000	0.380	0.380	0.150	0.000	-	0.087	
Total Quantity					11.48436 cum (cum)		11.48436 Cum (Cubic Meter)		
Amount					11.48436 X 545.807232		6268.25		

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	4.000	1.400	1.400	0.150	0.000	1.176	-	
ii	L/W	2.000	5.950	0.750	0.100	0.000	0.893	-	
iii	S/W	2.000	4.750	0.750	0.100	0.000	0.713	-	
iv	Steps	1.000	2.150	1.200	0.100	0.000	0.258	-	
v	Plinth Protection	2.000	7.400	0.450	0.075	0.000	0.500	-	
vi		2.000	5.000	0.450	0.075	0.000	0.338	-	
vii	Hall	1.000	5.700	4.500	0.100	0.000	2.565	-	
viii	Column	4.000	0.380	0.380	0.100	0.000	-	0.058	
Total Quantity					6.38324 cum (cum)		6.38324 Cum (Cubic Meter)		
Amount					6.38324 X 6031.99189402		38503.65		

4. 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	1st Footing	2.000	5.570	0.500	0.180	0.000	1.003	-
ii		2.000	4.500	0.500	0.180	0.000	0.810	-
iii	2nd footing	2.000	5.570	0.380	0.300	0.000	1.270	-
iv		2.000	4.500	0.380	0.300	0.000	1.026	-
v	Plinth Beam sides	2.000	6.200	0.125	0.250	0.000	0.388	-
vi		2.000	4.500	0.125	0.250	0.000	0.281	-
vii	Steps	1.000	2.150	1.140	0.150	0.000	0.368	-
viii		1.000	2.150	0.760	0.150	0.000	0.245	-
ix		1.000	2.150	0.380	0.150	0.000	0.123	-
Total Quantity					5.51261 cum (cum)		5.51261 Cum (Cubic Meter)	
Amount					5.51261 X 4944.398756736		27256.54	
5. 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/cm ² 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	L/W	2.000	5.570	0.230	3.050	0.000	7.815	-
ii	S/W	2.000	4.500	0.230	3.050	0.000	6.314	-
iii	Lintel	2.000	5.570	0.230	0.250	0.000	-	0.641
iv		2.000	4.500	0.230	0.250	0.000	-	0.518
v	Gate	1.000	2.150	0.230	2.100	0.000	-	1.038
vi	Grill	2.000	0.900	0.230	1.350	0.000	-	0.559

vii		4.000	1.650	0.230	1.350	0.000	-	2.049
Total Quantity					9.32351 cum (cum)		9.32351 Cum (Cubic Meter)	
Amount					9.32351 X 4977.728756736		46409.90	
6. 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	Column Base	4.000	4.000	1.400	0.200	0.000	4.480	-
ii	Footing	4.000	4.000	0.750	0.300	0.000	3.600	-
iii	up to G.L	4.000	4.000	0.380	0.830	0.000	5.046	-
Total Quantity					13.1264 Sqm (Sqm)		13.1264 Sqm (Square Meter)	
Amount					13.1264 X 216.39264180804		2840.46	
7. 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	4.000	2.000	0.610	2.800	0.000	13.664	-
ii	Wall beam	2.000	2.000	6.200	0.300	0.000	7.440	-
iii		2.000	2.000	4.500	0.300	0.000	5.400	-
Total Quantity					26.504 Sqm (Sqm)		26.504 Sqm (Square Meter)	
Amount					26.504 X 1047.9038224181		27773.64	

8. 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

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	L/W	2.000	2.000	6.200	0.250	0.000	6.200	-
ii	S/W	2.000	2.000	4.500	0.250	0.000	4.500	-
Total Quantity					10.7 Sqm (Sqm)		10.7 Sqm (Square Meter)	
Amount					10.7 X 499.57698698128		5345.47	

9. 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	Front Chajja	1.000	6.200	0.450	0.000	0.000	2.790	-
ii	Side Chajja	2.000	5.450	0.450	0.000	0.000	4.905	-
iii	Slab	1.000	6.500	5.300	0.000	0.000	34.450	-
Total Quantity					42.145 Sqm (Sqm)		42.145 Sqm (Square Meter)	
Amount					42.145 X 663.29946175911		27954.76	

10. 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	Column Base	4.000	1.400	1.400	0.200	0.000	1.568	-

ii	Footing	4.000	0.750	0.750	0.300	0.000	0.675	-
iii	up to G.L	4.000	0.380	0.380	0.830	0.000	0.479	-
iv	Column upto Top	4.000	0.380	0.230	2.800	0.000	0.979	-
v	Plinth Beam	2.000	6.200	0.230	0.250	0.000	0.713	-
vi		2.000	4.500	0.230	0.250	0.000	0.518	-
vii	Lintel	2.000	6.200	0.230	0.250	0.000	0.713	-
viii		2.000	4.500	0.230	0.250	0.000	0.518	-
ix	Chajja	2.000	5.450	0.450	0.065	0.000	0.319	-
x		1.000	6.200	0.450	0.065	0.000	0.181	-
xi	Wall Beam	2.000	6.200	0.230	0.300	0.000	0.856	-
xii		2.000	4.500	0.230	0.300	0.000	0.621	-
xiii	Roof Slab	1.000	6.500	5.300	0.125	0.000	4.306	-
Total Quantity					12.445313 cum (cum)		12.445313 Cum (Cubic Meter)	
Amount					12.445313 X 6171.6447006154		76808.05	
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.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Taking 1.00 Qtl for 1.00 cu of RCC	1.000	12.450	0.000	0.000	0.000	12.450	-
Total Quantity					12.45 Qntl (Quintal)		12.45 Qntl (Quintal)	
Amount					12.45 X 8438.0746233		105054.03	

12. 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	roof Slab	1.000	6.500	5.300	0.000	0.000	34.450	-
Total Quantity					34.45 Sqm (Sqm)		34.45 Sqm (Square Meter)	
Amount					34.45 X 357.2261506204		12306.44	

13. 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	Ceiling	1.000	5.700	4.500	0.000	0.000	25.650	-
ii	Side Chajja	2.000	2.000	5.450	0.450	0.000	9.810	-
iii	Front Chajja	1.000	2.000	6.200	0.450	0.000	5.580	-
iv	Slab Beat	2.000	11.800	0.280	0.000	0.000	6.608	-
Total Quantity					47.648 Sqm (Sqm)		47.648 Sqm (Square Meter)	
Amount					47.648 X 187.1654203336		8918.06	

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.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Out Side	2.000	6.200	3.650	0.000	0.000	45.260	-
ii		2.000	5.000	3.650	0.000	0.000	36.500	-

iii	Gate	0.500	1.000	2.150	2.100	0.000	-	2.258	
iv	Grill	0.500	2.000	0.900	1.350	0.000	-	1.215	
v		0.500	4.000	1.650	1.350	0.000	-	4.455	
Total Quantity					73.8325 Sqm (Sqm)		73.8325 Sqm (Square Meter)		
Amount					73.8325 X 166.6042167404		12300.81		

15. 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	Hall	2.000	5.700	3.350	0.000	0.000	38.190	-	
ii		2.000	4.500	3.350	0.000	0.000	30.150	-	
iii	Deduct Gate & Grill	1.000	7.928	0.000	0.000	0.000	-	7.928	
Total Quantity					60.4125 Sqm (Sqm)		60.4125 Sqm (Square Meter)		
Amount					60.4125 X 240.206152134		14511.45		

16. 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.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction	
i	Gate	1.000	2.150	2.100	0.000	30.000	135.450	-	
ii	Grill	2.000	0.900	1.350	0.000	25.000	60.750	-	
iii		4.000	1.650	1.350	0.000	25.000	222.750	-	
Total Quantity					418.95 Kg (Kilo Gram)		4.1895 Qntl (Quintal)		

Amount					4.1895 X 15780.425253087	66112.09		
17. 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.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Gate	1.000	2.150	2.100	0.000	0.000	4.515	-
ii	Grill	2.000	0.900	1.350	0.000	0.000	2.430	-
iii		4.000	1.650	1.350	0.000	0.000	8.910	-
Total Quantity					15.855 Sqm (Sqm)		15.855 Sqm (Square Meter)	
Amount					15.855 X 230.31602828603	3651.66		
18. Other Building Items. (AR1901Ba) : Vitrified Tile 600mmx600mm Coloured /Printed								
Supplying, fitting & fixing Vitrified Tile 600mmx600mm Coloured /Printed series(Homogeneous) 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 work all materials, taxes, labor, T&P , etc. complete as per direction of Engineer-in-charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Hall	1.000	5.700	4.500	0.000	0.000	25.650	-
ii	Steps	2.000	2.150	0.380	0.000	0.000	1.634	-
iii	Door Sills	1.000	2.150	0.250	0.000	0.000	0.538	-
Total Quantity					27.8215 Sqm (Sqm)		27.8215 Sqm (Square Meter)	
Amount					27.8215 X 1052.1643381142	29272.79		
19. 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	Hall	2.000	5.700	0.150	0.000	0.000	1.710	-
ii		2.000	4.500	0.150	0.000	0.000	1.350	-
iii	Steps	3.000	2.150	0.150	0.000	0.000	0.968	-
Total Quantity					4.0275 Sqm (Sqm)		4.0275 Sqm (Square Meter)	
Amount					4.0275 X 1573.415929136		6336.93	

20. Flooring (AR0817a) : Fixing ceramic Tiles (30cmx30cm / 40cmx40cm special plain/printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755)

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 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 ceramic tiles including rubbing and polishing, cost of precast tiles complete as per direction of Engineer-in-charge

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Hall	2.000	5.700	0.600	0.000	0.000	6.840	-
ii		2.000	4.500	0.600	0.000	0.000	5.400	-
Total Quantity					12.24 Sqm (Sqm)		12.24 Sqm (Square Meter)	
Amount					12.24 X 1325.198329136		16220.43	

21. Flooring (AR0816j) : Fixing Chequered Tiles in floor , treads or steps and landing on a 25mm thick bed of cement mortar 1:1

Fixing Chequered Tiles 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 Chequered tiles including rubbing and polishing, cost of precast tiles complete as per direction of Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Plinth Protection	2.000	7.400	0.450	0.000	0.000	6.660	-
ii		2.000	5.000	0.450	0.000	0.000	4.500	-

Total Quantity	11.16 Sqm (Sqm)	11.16 Sqm (Square Meter)
Amount	11.16 X 972.5584526706	10853.75

22. Other Building Items. (AR1902) : cement based wall putty (water based)

Finishing surface of walls with cement based wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost of scaffolding staging charges with cost of all materials taxes,labour,T&P,etc.complete. and as per the direction of Engineer in Charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Qty Same as 6 mm Plaster	1.000	47.648	0.000	0.000	0.000	47.648	-
ii	Qty Same as 16 mm Plaster	1.000	60.413	0.000	0.000	0.000	60.413	-
Total Quantity					108.0605 Sqm (Sqm)		108.0605 Sqm (Square Meter)	
Amount					108.0605 X 79.21834		8560.37	

23. Painting (AR0918cb) : Finishing wall two coats with weather coat with one coat waterbound Primer

Finishing wall two coats with weather coat with one coat waterbound 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)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Out side Qty Same as 12 mm Plaster	1.000	73.833	0.000	0.000	0.000	73.833	-
Total Quantity					73.8325 Sqm (Sqm)		73.8325 Sqm (Square Meter)	
Amount					73.8325 X 160.72822700355		11866.97	

24. Painting (AR0920b) : Finishing wall surface with two coats with plastic emulsion paint of approved shades above one coat waterbound Primer on new work (Inside)

Finishing wall surface with two coats with plastic emulsion paint of approved shades above one coat waterbound Primer on new work to give an even shade including all costs of labor, Paint, Primer, Brushes and putty 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
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i	Qty Same as Putty	1.000	108.061	0.000	0.000	0.000	108.061	-
Total Quantity					108.0605 Sqm (Sqm)		108.0605 Sqm (Square Meter)	
Amount					108.0605 X 166.59766721751		18002.63	
Total Amount							587242.19	
Addition								
Provision for PH Work (+) @								
Provision for EI Work (+) @							1885.00	
Provision for Contingency (+) @							5872.42	
Display Citizen Board (+) @							5000.00	
Any Other Lumpsum (+) @								
Provision for survey investigation and quality control (+) @								
Total Addition							12757.42	
Grand Net Total Amount							599999.61	

ASIT PATEL
JE
Subdega Block

BINAY BHUSHAN DASH
AEE
Subdega Block

BDO Subdega
BDO
Subdega Block