

**Loksewa Kalyan
Kavre**

Estimate

Volume III

***Detailed Project Report of Ganesh Secondary
School Building***

Submitted By:

Gyalbo Engineering Consultancy Pvt. Ltd.

Koteshwor, Kathmandu

Contact No: 9860479638

Summary of Cost

**Lok Kalyan Sewa
Kavre**

F/Y: 2081/082

SUMMARY OF COST

Project : Detailed Report of Ganesh Secondary School Building

Address: Roshi-12, Kavre

Project Duration: 12.00 Months

S.N	Description of work	Amount	Remarks
A	Civil Works	4,290,681.57	
B	Sanitary Works (1.8%)	77,232.27	
C	Sum of Total Work W/O PS (A+B)	4,367,913.84	
D	Provisional Sum :		
	Insurance for the loss of damage to works, plant, material, equipment property and personnel injury or death, including third party insurance as described on Condition	57,240.00	
	Lab tests as per specified in standard specification	76,836.00	
	As built drawing (3 copies of hard copy and one digital copy) of Building with water supply, sanitation and drain, electrification, service line plans and details etc. all	50,000.00	
	Supply and Installation of Project Information Board of size 1.2 m by 1.5m as per the Instruction of Engineer with necessary metal frame and supports all complete.	18,078.00	
	Total of Provisional Sum:	202,154.00	
E	Sum of Total Work With PS(C+D)	4,570,067.84	
F	3% Contingency (3% of C)	131,037.42	
G	Total Estimate Amounts (E+F):	4,701,105.25	
H	13 % VAT (13% of C)	567,828.80	
I	Sum with VAT and Contingency(G+H):	5,268,934.05	
	Grand Total	5,268,934.05	

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Insurance

**Lok Kalyan Sewa
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Insurance premium

Project : Detailed Report of Ganesh Secondary School Building

Address: Roshi-12, Kavre

1	Insurance premium for the work, plant and materials damage for contract work for all risk including Riot, Strike, Damage, Malicious damage and Terrorism for contract work for project period 24 months + 1 year Maintenance period.			
	Insurance with value (NRs.	Rs. 2.50 per thousand	Rs	10,000.00
	do for Terrorism	Rs. 1.01 per thousand	Rs	4,040.00
	Premium		Rs	14,040.00
	for stamp duty		Rs	10.00
	Premium with stamp duty		Rs	14,050.00
	Total Amount without VAT		Rs	14050.00 for project
2	Insurance premium for the insurance of owner and consultant staff (named) Rs. 10,00,000.00 per person for 5 persons with unlimited number of occurrences per annum			
	Personnel accident of 10,00,000.00 for 5	Rs.1.50per thousand	Rs	7500.00
	Do for Terrorism	Rs.0.50 per thousand	Rs	2500.00
	Premium		Rs	10000.00
	For stamp duty		Rs	10.00
	Premium with stamp duty		Rs	10010.00
	Total Amount without VAT		Rs	10010.00 for project
3	Insurance Premium for construction equipments and machines with value of Rs.20,00,000.00 for 24 months			
	Insurance premium of Rs. 20,00,000.00	Rs.2.03 per thousand	Rs	4060.00
	Do for Terrorism	Rs.1.49 per thousand	Rs	2980.00
	Premium		Rs	7040.00
	For stamp duty		Rs	10.00
	Premium with stamp duty		Rs	7050.00
	Total Amount without VAT		Rs	7050.00 Per annum
4	Insurance Premium for third party liability personal only per person Rs. 2,00,000.00 for 5 persons for 24months			
	P.A. of third party 5 person=10,00,000.00	Rs. 2.50 per thousand	Rs	2500.00
	Do for Terrorism	Rs. 1.01 per thousand	Rs	1010.00
	Premium		Rs	3510.00
	For stamp duty		Rs	10.00
	Premium with stamp duty		Rs	3520.00
	Total Amount without VAT		Rs	3520.00 Per annum
5	Insurance Premium for Contractor's Workers (Un named) per person only Rs. 2,00,000.00 for 25 persons for 24months			
	P.A. of third party 25 person=2,00,000.00	Rs. 3.03 per thousand	Rs	15150.00
	Do for Terrorism	Rs. 1.49 per thousand	Rs	7450.00
	Premium		Rs	22600.00
	For stamp duty		Rs	10.00
	Premium with stamp duty		Rs	22610.00
	Total Amount without VAT		Rs	22610.00 Per annum
Grand Total			Rs.	57240.00

Lab Test

**Lok Kalyan Sewa
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Breakdown of Costs: Lab Tests

Project : Detailed Report of Ganesh Secondary School Building

Address: Roshi-12, Kavre

S.N.	Description of Work	Quantity	Unit	Rate	Amount	Remarks
1	Concrete Test					
a	Cubes or Cylinder Crushing	60.00	Nos.	150.00	9,000.00	
2	Stone Test					
a	Stone Crossing Test	6.00	Nos.	100.00	600.00	
b	Water Absorbition Test	6.00	Nos.	100.00	600.00	
3	Aggregate Test					
a	Aggregate Crushing Value Test	6.00	Nos.	489.00	2,934.00	
b	Aggregate Impact Value	6.00	Nos.	350.00	2,100.00	
c	Aggregate flakiness index	6.00	Nos.	489.00	2,934.00	
d	Aggregate abrasion test	6.00	Nos.	489.00	2,934.00	
4	Sand Test					
a	Sieve Analysis (wet)	6.00	Nos.	844.00	5,064.00	
b	Sieve Analysis (dry)	6.00	Nos.	844.00	5,064.00	
c	Foreign Material content Test	6.00	Nos.	450.00	2,700.00	
5	U.T.M. Tensile Strength Test					
a	8mm Ø	6.00	Nos.	1,200.00	7,200.00	
b	10mm Ø	6.00	Nos.	1,200.00	7,200.00	
c	12mm Ø	6.00	Nos.	1,200.00	7,200.00	
d	16mm Ø	6.00	Nos.	1,200.00	7,200.00	
d	20mm Ø	6.00	Nos.	1,201.00	7,206.00	
6	Cement Test					
a	Cement Mortar Cube Crushing 3 Nos.	6.00	Nos.	450.00	2,700.00	
b	Initial Setting and Final Setting	6.00	Nos.	500.00	3,000.00	
7	Brick Test					
a	Brick Crushing test.	6.00	Nos.	100.00	600.00	
b	Brick water absorption test.	6.00	Nos.	100.00	600.00	
				Total	76,836.00	
				Grand Total	76,836.00	

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As Built Drawing and Project Description Board

Project : Detailed Report of Ganesh Secondary School Building

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For As Built Drawing

S N	Position	Mandays	Monthly	Daily rate	Amount	Rem
1	Architect	4	37990	1266.33	5065.33	
2	Engineer (Civil/Electrical)	4	37990	1266.33	5065.33	
3	Sub Engineer (Civil/Electrical)	4	30200	1006.67	4026.67	
4	Surveyor	6	28610	953.67	5722.00	
5	Helper/Camp worker	20	21480	716.00	14320.00	
6	Travel Allowance			Lumpsum	10000.00	
7	Logistics			Lumpsum	15000.00	
Total NRs.					59199.33	
Say:					50000.00	

For Project Description Board

S N	Description of Work	Unit	Quantity	Rate	Amount	Rem
1	Sign Board (4' x 5')	Nos.	2	6360.00	12720.00	
2	Installation at site with necessary metal frame and posts.	LS	2	1500	3000.00	
Sub Total NRs.					15720.00	
15% contractor overhead					2358.00	
Total NRs.					18078.00	

AOC of Civil Works

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ABSTRACT OF COST OF CIVIL WORK

Project : Detailed Report of Ganesh Secondary School Building

Address: Roshi-12, Kavre

S.N	Description of Work	Unit	Total Quantity	Rate	Amount	Remarks
					Rs	
A. CIVIL WORKS						
1	Earthwork and Earthfilling					
1.1	Site preparation work with uprooting roots, solid wastes etc. all complete as per drawing, specifications and instructions of engineer all	Sq.m	115.10	22.64	2,606.00	
1.2	Earthwork in excavation in All type of hard mix soils and soft rock in foundation including 10m hauling distance and 2.5m. lift as per drawing, specifications and instructions of engineer all complete (90% Machine + 10% Manual) .	Cu.m	141.44	54.61	7,724.27	
1.3	Earth filling in 150/150 mm thick layer, ramming with watering and excluding supply of filling materials as per drawing, specifications and instructions of engineer all complete.	Cu.m	94.38	246.10	23,227.08	
2	Plain / Reinforced Cement Concrete Work					
2.1	Plain cement Concrete (PCC) in M10 (1:3:6) ratio for foundations, flooring and walls with approved quality of cement and sand and crushed stone aggregate including mixing, laying using mixture & Vibrator, curing etc all complete as per drawing, specification and instructions of engineer.	Cu.m	4.39	13,130.59	57,643.29	
2.2	Plain cement Concrete (PCC) / RCC works M15 (1:2:4) for floors with approved quality of cement and sand and crushed stone aggregate including mixing, laying using mixture & Vibrator, curing etc all complete as per drawing, specification and instructions of engineer.	Cu.m	11.51	14,493.69	166,822.33	
2.3	Plain Cement Concrete(PCC) for RCC works M20 (1:1.5:3) for bands with approved quality of cement,sand and machine crushed stone aggregate including supply of materials,mixing,laying,curing the work at least 7 days etc all complete as per approved drawing.	Cu.m	55.90	15,668.70	875,880.31	

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ABSTRACT OF COST OF CIVIL WORK

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S.N	Description of Work	Unit	Total Quantity	Rate	Amount	Remarks
					Rs	
A. CIVIL WORKS						
2.4	Tor steel or TMT reinforcement bar of fe 415/500 grade including straightening, cleaning, cutting, binding & fixing in position with annealed tying binding wire including cover blocks etc in foundation and superstructures as per drawings, specifications, instructions of	M.T	7.02	130,407.93	915,463.67	
3	Formwork					
3.1	Formwork, shuttering, centering with 19mm thick waterproof ply for column in all heights, true to the line and level, necessary propping, scaffolding, staging, supporting inclusive of wedging and cutting holes for utilization till the support if fully unyielding net as per drawing, specification and instructions of engineer all	Sq.m	66.85	1,484.89	99,265.05	
3.2	Formwork, shuttering, centering with 19mm thick waterproof ply board in all heights, true to the line and level, and steel post for all works necessary propping, scaffolding, staging, supporting inclusive of wedging and cutting holes for utilization till the support if fully unyielding net s per drawing, specification and instructions of engineer all complete For Beam	Sq.m	165.22	1,061.41	175,362.10	
3.3	Formwork, shuttering, centering with 19mm thick waterproof ply board in all heights, true to the line and level, and steel post for all works necessary propping, scaffolding, staging, supporting inclusive of wedging and cutting holes for utilization till the support if fully unyielding net s per drawing, specification and instructions of engineer all complete For Slab &	Sq.m	168.28	744.16	125,229.64	
4	Brick Masonary work					
4.1	Good quality Chimney made Brickwork in 1:4 C/S mortar , first class brick of proper size in perfect line level finish including wetting the bricks, racking the joints and curing the work for at least 7 days as per drawing, specification and instructions of engineer all complete Unto	Cu.m	54.06	15,948.82	862,193.14	
5	Flooring work					
5.1	Stone Soling in Foundation and Floor including sand filling in joints, leveling, ramming etc. all complete as per drawing, specification & instructions of engineer all complete	Cu.m	26.05	4,581.60	119,350.68	
5.2	3mm punning in 1:1 ratio for flooring with approved quality of cement, sand including supply of materials,mixing, laying, curing the work at least 7 days etc all complete as per approved drawing. Specification and instruction	Sq.m	115.10	310.05	35,686.89	
6	Plastering Work					

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ABSTRACT OF COST OF CIVIL WORK

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S.N	Description of Work	Unit	Total Quantity	Rate	Amount	Remarks
					Rs	
A. CIVIL WORKS						
6.1	12.5mm thick cement sand plaster in (1:4) ratio on wall in any level (from base to top of Building), size and shape of wall of good finish including racking the joint, wetting of surfaces & curing cleaning and cost of necessary scaffoldings works of total height of building as per drawing, specification & instructions of engineer all	Sq.m	151.53	441.03	66,828.61	
6.2	12.5mm thick cement sand plaster in (1:3) ratio in any level (on top of Building), size and shape of wall of good finish including racking the joint, wetting of surfaces & curing cleaning and cost of necessary scaffoldings works of total height of building as per drawing, specification & instructions of engineer all complete : on ceiling	Sq.m	136.11	527.85	71,846.26	
6.3	20mm thick cement sand plaster in (1:4) ratio on wall in any level (from base to top of Building), size and shape of wall of good finish including racking the joint, wetting of surfaces & curing cleaning and cost of necessary scaffoldings works of total height of building as per drawing, specification & instructions of engineer all	Sq.m	91.40	559.42	51,131.21	

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ABSTRACT OF COST OF CIVIL WORK

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S.N	Description of Work	Unit	Total Quantity	Rate	Amount	Remarks
					Rs	
A. CIVIL WORKS						
7	Wood Works					
7.1	Well seasoned salwood chaukhats for fixed/openable door/window with good finish of approved quality incuding supply of materials, fixing in postion with necessary M.S. hold fasts all complet as per approved drawing, Specification and instruction of site engineer.	Cu.m	0.88	313,326.61	274,474.11	
7.2	Supplying and fitting fixing of flush door shutter of 38x75mm swing size sal wood frame with 6mm waterproof plywood on one side and 4mm commercial ply on other side including all necessary hardware fittings as per drawing and instruction all complete.	Sq.m	8.40	9,196.25	77,248.48	
7.3	Fixing of glazed shutter in 38x75 mm thick solid carved sal wood frame with 5mm thick plain glass fitted including all necessary hardware fittings as per drawing and instruction	Sq.m	23.04	11,478.72	264,469.76	
8	Damp Proofing Work					
8.1	Providing and laying of single layer of 500 gauge polythene sheet as per specification, drawings and instructions of engineer all complete.	Sq.m	112.18	162.50	18,228.69	
	TOTAL COST OF CIVIL WORKS				4290681.57	

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DETAIL ESTIMATE (SCHOOL BLOCK)

Project : Detailed Report of Ganesh Secondary School Building

Address: Roshi-12, Kavre

S.N	DESCRIPTION	UNIT	NOS.	LENGTH	WIDTH	HEIGHT	QUANTITY	REMARKS
A	EARTHWORK							
1	Site Clearance	Sq.m					115.10	
	Total area	Sq.m	1	Avg Area=115.10			115.10	
2	Earthwork in excavation	Cu.m					141.44	
i	Excavation for Foundation							
	Foundation F1	Cu.m	4	1.900	1.900	2.025	29.24	
	Foundation F2	Cu.m	3	2.000	2.000	2.025	24.30	
	Foundation F3	Cu.m	3	2.100	2.100	2.025	26.79	
ii	Excavation for trench							
	Grid 1-1	Cu.m	1	13.800	0.600	2.025	16.77	
	Grid 2-2	Cu.m	1	14.100	0.600	2.025	17.13	
	Grid A-A	Cu.m	1	2.900	0.600	2.025	3.52	
	Grid B-B	Cu.m	1	2.750	0.600	2.025	3.34	
	Grid C-C	Cu.m	1	2.750	0.600	2.025	3.34	
	Grid D-D	Cu.m	1	2.750	0.600	2.025	3.34	
	Grid E-E	Cu.m	1	2.900	0.600	2.025	3.52	
iii	Excavation for offset Wall							
	Offset wall (230 mm thickness)	Cu.m	1	22.510	0.600	0.525	7.09	
iv	Steps							
	Front Steps	Cu.m	1	5.450	0.900	0.525	2.58	
	Landing	Cu.m	1	1.500	0.600	0.525	0.47	
1	Earthwork in Filling	Cu.m					94.38	
i	40% Backfill on excavation	Cu.m	1	40% Of Excavation			56.58	
ii	Back fill on total ground floor	Cu.m	1	Avg Area=112.180		0.337	37.80	
B	CONCRETE WORK							
1	PCC (1:3:6) (base)	Cu.m					4.39	
i	Foundation							
	Foundation F1	Cu.m	4	1.900	1.900	0.075	1.08	
	Foundation F2	Cu.m	3	2.000	2.000	0.075	0.90	
	Foundation F3	Cu.m	3	2.100	2.100	0.075	0.99	
ii	Trench							
	Grid 1-1	Cu.m	1	13.800	0.450	0.075	0.47	
	Grid 2-2	Cu.m	1	14.100	0.450	0.075	0.48	
	Grid A-A	Cu.m	1	2.900	0.450	0.075	0.10	
	Grid B-B	Cu.m	1	2.750	0.450	0.075	0.09	
	Grid C-C	Cu.m	1	2.750	0.450	0.075	0.09	
	Grid D-D	Cu.m	1	2.750	0.450	0.075	0.09	

DETAIL ESTIMATE (SCHOOL BLOCK)

Project : Detailed Report of Ganesh Secondary School Building

Address: Roshi-12, Kavre

S.N	DESCRIPTION	UNIT	NOS.	LENGTH	WIDTH	HEIGHT	QUANTITY	REMARKS
	Grid E-E	Cu.m	1	2.900	0.450	0.075	0.10	
2	PCC (1:2:4) for Flooring	Cu.m					11.51	
i.	Total area	Cu.m	1	Avg Area=115.100		0.100	11.51	
3	PCC (1:1.5:3) For Rcc on Sill , Lintel Band	Cu.m					55.90	
i	Sill Band	Cu.m					1.02	
a.	Ground Floor							
	Grid 1-1	Cu.m	1	20.480	0.230	0.075	0.35	
	Grid 2-2	Cu.m	1	20.480	0.230	0.075	0.35	
	Grid A-A	Cu.m	1	4.450	0.230	0.075	0.08	
	Grid B-B	Cu.m	1	4.450	0.230	0.075	0.08	
	Grid C-C	Cu.m	1	4.450	0.230	0.075	0.08	
	Grid D-D	Cu.m	1	4.450	0.230	0.075	0.08	
	Grid E-E	Cu.m	1	4.450	0.230	0.075	0.08	
	Deduction of Door D/01	Cu.m	-4	1.000	0.230	0.075	-0.07	
ii	Lintel Band	Cu.m					1.36	
a.	Ground Floor							
	Grid 1-1	Cu.m	1	20.480	0.230	0.100	0.47	
	Grid 2-2	Cu.m	1	20.480	0.230	0.100	0.47	
	Grid A-A	Cu.m	1	4.450	0.230	0.100	0.10	
	Grid B-B	Cu.m	1	4.450	0.230	0.100	0.10	
	Grid C-C	Cu.m	1	4.450	0.230	0.100	0.10	
	Grid D-D	Cu.m	1	4.450	0.230	0.100	0.10	
	Grid E-E	Cu.m	1	4.450	0.230	0.100	0.10	
	Deduction of Door D/01	Cu.m	-4	1.000	0.230	0.100	-0.09	
iii	Foundation						11.24	
	Foundation F1	Cu.m	4	1.700	1.700	0.350	4.05	
	Foundation F2	Cu.m	3	1.800	1.800	0.350	3.40	
	Foundation F3	Cu.m	3	1.900	1.900	0.350	3.79	
iv	Column						5.85	
	Toe column	Cu.m	10	0.350	0.350	1.900	2.33	
	Ground Floor Column (At Level +000 mm)	Cu.m	10	0.350	0.350	2.875	3.52	
v	Beam						19.42	
a.	Lower Tie Beam (Primary)						4.74	
	Size (0.25*0.30)							
	Grid 1-1	Cu.m	1	20.480	0.250	0.300	1.54	
	Grid 2-2	Cu.m	1	20.480	0.250	0.300	1.54	
	Grid A-A	Cu.m	1	4.450	0.250	0.300	0.33	
	Grid B-B	Cu.m	1	4.450	0.250	0.300	0.33	

DETAIL ESTIMATE (SCHOOL BLOCK)

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S.N	DESCRIPTION	UNIT	NOS.	LENGTH	WIDTH	HEIGHT	QUANTITY	REMARKS
	Grid C-C	Cu.m	1	4.450	0.250	0.300	0.33	
	Grid D-D	Cu.m	1	4.450	0.250	0.300	0.33	
	Grid E-E	Cu.m	1	4.450	0.250	0.300	0.33	
b.	Plinth Tie Beam (At Level +000mm)						6.53	
i	Primary Beam Size (0.25*0.3)							
	Grid 1-1	Cu.m	1	20.480	0.250	0.300	1.54	
	Grid 2-2	Cu.m	1	20.480	0.250	0.300	1.54	
	Grid A-A	Cu.m	1	4.450	0.250	0.300	0.33	
	Grid B-B	Cu.m	1	4.450	0.250	0.300	0.33	
	Grid C-C	Cu.m	1	4.450	0.250	0.300	0.33	
	Grid D-D	Cu.m	1	4.450	0.250	0.300	0.33	
	Grid E-E	Cu.m	1	4.450	0.250	0.300	0.33	
	Offset wall Plinth Beam size (0.25*0.30)	Cu.m	1	23.860	0.250	0.300	1.79	
c.	Ground Floor Beam (At level +3000 mm)						8.15	
i	Primary Beam Size (0.30*0.40)							
	Grid 1-1	Cu.m	1	20.480	0.300	0.400	2.46	
	Grid 2-2	Cu.m	1	20.480	0.300	0.400	2.46	
	Grid A-A	Cu.m	1	5.390	0.300	0.400	0.65	
	Grid B-B	Cu.m	1	5.390	0.300	0.400	0.65	
	Grid C-C	Cu.m	1	5.390	0.300	0.400	0.65	
	Grid D-D	Cu.m	1	5.390	0.300	0.400	0.65	
	Grid E-E	Cu.m	1	5.390	0.300	0.400	0.65	
vi	Slab (125 mm Thick)						17.01	
	Ground Floor Slab (At level +3000mm)	Cu.m	1	Avg Area=136.11		0.125	17.01	
5	Reinforcement For Rcc Work	M.T	From BBS				7.02	
6	Form Work	Sq.m					400.35	
iii	Foundation	Sq.m					25.06	
	Foundation F1	Sq.m	4	6.800		0.350	9.52	
	Foundation F2	Sq.m	3	7.200		0.350	7.56	
	Foundation F3	Sq.m	3	7.600		0.350	7.98	
iv	Column	Sq.m					66.85	
	Toe column	Sq.m	10	1.400		1.900	26.60	
	Ground Floor Column (At Level +000 mm)	Sq.m	10	1.400		2.875	40.25	
v	Beam	Sq.m					144.50	
a.	Lower Tie Beam (Primary)	Sq.m						
	Size (0.25*0.30)							
	Grid 1-1	Sq.m	2	20.480		0.300	12.29	
	Grid 2-2	Sq.m	2	20.480		0.300	12.29	

DETAIL ESTIMATE (SCHOOL BLOCK)

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S.N	DESCRIPTION	UNIT	NOS.	LENGTH	WIDTH	HEIGHT	QUANTITY	REMARKS
	Grid A-A	Sq.m	2	4.450		0.300	2.67	
	Grid B-B	Sq.m	2	4.450		0.300	2.67	
	Grid C-C	Sq.m	2	4.450		0.300	2.67	
	Grid D-D	Sq.m	2	4.450		0.300	2.67	
	Grid E-E	Sq.m	2	4.450		0.300	2.67	
b.	Plinth Tie Beam (At Level +000mm)	Sq.m						
i	Primary Beam Size (0.25*0.3)							
	Grid 1-1	Sq.m	2	20.480		0.300	12.29	
	Grid 2-2	Sq.m	2	20.480		0.300	12.29	
	Grid A-A	Sq.m	2	4.450		0.300	2.67	
	Grid B-B	Sq.m	2	4.450		0.300	2.67	
	Grid C-C	Sq.m	2	4.450		0.300	2.67	
	Grid D-D	Sq.m	2	4.450		0.300	2.67	
	Grid E-E	Sq.m	2	4.450		0.300	2.67	
	Offset wall Plinth Beam size (0.25*0.30)	Sq.m	2	23.860		0.300	14.32	
c.	Ground Floor Beam (At level +3000 mm)							
i	Primary Beam Size (0.30*0.40)							
	Grid 1-1	Sq.m	2	20.480		0.400	16.38	
	Grid 2-2	Sq.m	2	20.480		0.400	16.38	
	Grid A-A	Sq.m	2	5.390		0.400	4.31	
	Grid B-B	Sq.m	2	5.390		0.400	4.31	
	Grid C-C	Sq.m	2	5.390		0.400	4.31	
	Grid D-D	Sq.m	2	5.390		0.400	4.31	
	Grid E-E	Sq.m	2	5.390		0.400	4.31	
iv	Slab (125 mm Thick)	Sq.m					143.22	
	Ground Floor Slab (At level +3000mm)	Sq.m	1	Avg Area=136.11			136.11	
	Sidewise	Sq.m	2	Avg Area=2.794			5.59	
	Sidewise	Sq.m	2	Avg Area=0.761			1.52	
v	Bands	Sq.m					20.72	
a.	Sill Band	Sq.m					8.88	
i	Ground Floor							
	Grid 1-1	Sq.m	2	20.480		0.075	3.07	
	Grid 2-2	Sq.m	2	20.480		0.075	3.07	
	Grid A-A	Sq.m	2	4.450		0.075	0.67	
	Grid B-B	Sq.m	2	4.450		0.075	0.67	
	Grid C-C	Sq.m	2	4.450		0.075	0.67	
	Grid D-D	Sq.m	2	4.450		0.075	0.67	
	Grid E-E	Sq.m	2	4.450		0.075	0.67	
	Deduction of Door D/01	Sq.m	-8	1.000		0.075	-0.60	
b	Lintel Band						11.84	
i	Ground Floor							

DETAIL ESTIMATE (SCHOOL BLOCK)

Project : Detailed Report of Ganesh Secondary School Building

Address: Roshi-12, Kavre

S.N	DESCRIPTION	UNIT	NOS.	LENGTH	WIDTH	HEIGHT	QUANTITY	REMARKS
	Grid 1-1	Sq.m	2	20.480		0.100	4.10	
	Grid 2-2	Sq.m	2	20.480		0.100	4.10	
	Grid A-A	Sq.m	2	4.450		0.100	0.89	
	Grid B-B	Sq.m	2	4.450		0.100	0.89	
	Grid C-C	Sq.m	2	4.450		0.100	0.89	
	Grid D-D	Sq.m	2	4.450		0.100	0.89	
	Grid E-E	Sq.m	2	4.450		0.100	0.89	
	Deduction of Door D/01		-8	1.000		0.100	-0.80	
7	TOTAL BRICK MASONRY WORK	Cu.m					54.06	
1	Upto Ground Floor	Cu.m					54.06	
i	Toe Wall							
	Grid 1-1	Cu.m	1	20.480	0.230	1.300	6.12	
	Grid 2-2	Cu.m	1	20.480	0.230	1.300	6.12	
	Grid A-A	Cu.m	1	4.450	0.230	1.300	1.33	
	Grid B-B	Cu.m	1	4.450	0.230	1.300	1.33	
	Grid C-C	Cu.m	1	4.450	0.230	1.300	1.33	
	Grid D-D	Cu.m	1	4.450	0.230	1.300	1.33	
	Grid E-E	Cu.m	1	4.450	0.230	1.300	1.33	
	Offset wall (230 mm thickness)		1	23.860	0.230	1.300	7.13	
ii	Ground Floor							
	Grid 1-1	Cu.m	1	20.480	0.230	2.425	11.42	
	Grid 2-2	Cu.m	1	20.480	0.230	2.425	11.42	
	Grid A-A	Cu.m	1	4.450	0.230	2.425	2.48	
	Grid B-B	Cu.m	1	4.450	0.230	2.425	2.48	
	Grid C-C	Cu.m	1	4.450	0.230	2.425	2.48	
	Grid D-D	Cu.m	1	4.450	0.230	2.425	2.48	
	Grid E-E	Cu.m	1	4.450	0.230	2.425	2.48	
	Deduction of Door D/01	Cu.m	-4	1.000	0.230	2.100	-1.93	
	Window W/01	Cu.m	-16	1.200	0.230	1.200	-5.30	
8	FLOORING WORK							
1	Stone Soling Work	Cu.m					26.05	
i	Foundation							
	Foundation F1	Cu.m	4	1.900	1.900	0.150	2.17	
	Foundation F2	Cu.m	3	2.000	2.000	0.150	1.80	
	Foundation F3	Cu.m	3	2.100	2.100	0.150	1.98	
ii	Trench	Cu.m						
	Grid 1-1	Cu.m	1	13.800	0.450	0.150	0.93	
	Grid 2-2	Cu.m	1	14.100	0.450	0.150	0.95	
	Grid A-A	Cu.m	1	2.900	0.450	0.150	0.20	
	Grid B-B	Cu.m	1	2.750	0.450	0.150	0.19	
	Grid C-C	Cu.m	1	2.750	0.450	0.150	0.19	
	Grid D-D	Cu.m	1	2.750	0.450	0.150	0.19	
	Grid E-E	Cu.m	1	2.900	0.450	0.150	0.20	
iii	For Flooring							

DETAIL ESTIMATE (SCHOOL BLOCK)

Project : Detailed Report of Ganesh Secondary School Building

Address: Roshi-12, Kavre

S.N	DESCRIPTION	UNIT	NOS.	LENGTH	WIDTH	HEIGHT	QUANTITY	REMARKS
	Total area	Cu.m	1	Avg Area=115.10		0.150	17.27	
2	3mm Punning work	Sq.m					115.10	
	Same as 38 mm with chips	Sq.m	1	Avg Area=115.10			115.10	
9	WOODEN WORK							
1	Door							
a.	Door Frame	Cu.m					0.16	
	Door D/01	Cu.m	4	5.200	0.100	0.075	0.16	
b.	Door Shutter	Sq.m					8.40	
	Door D/01	Sq.m	4	1.000		2.100	8.40	
2	Window							
a.	Window Frame	Cu.m					0.72	
	Window W/01	Cu.m	16	6.000	0.100	0.075	0.72	
b.	Window Shutter	Sq.m					23.04	
	Window W/01	Sq.m	16	1.200		1.200	23.04	
10	FINISHING WORK							
1	12.5 mm Plaster Work							
	Interior Plaster work							
i	Wall	Sq.m					151.53	
a	Ground Floor							
	Upto First Floor							
	Grid 1-1	Sq.m	1	20.980		2.450	51.40	
	Grid 2-2	Sq.m	1	20.980		2.450	51.40	
	Grid A-A	Sq.m	1	4.090		2.450	10.02	
	Grid B-B	Sq.m	2	4.090		2.450	20.04	
	Grid C-C	Sq.m	2	4.090		2.450	20.04	
	Grid D-D	Sq.m	2	4.090		2.450	20.04	
	Grid E-E	Sq.m	1	4.090		2.450	10.02	
	Deduction of Door D/01	Sq.m	-4	1.000		2.100	-8.40	
	Window W/01	Sq.m	-16	1.200		1.200	-23.04	
ii	Ceiling						136.11	
	Ground Floor Slab (At level +3000mm)	Sq.m	1	Avg Area=136.110			136.11	
2	20 MM Plaster Work	Sq.m					91.40	
	Exterior Plaster Work						91.40	
a.	Ground Floor							
	Upto First Floor							
	Grid 1-1	Sq.m	1	20.980		2.450	51.40	
	Grid 2-2	Sq.m	1	20.980		2.450	51.40	
	Grid A-A	Sq.m	1	4.090		2.450	10.02	Overall Reduction

REINFORCEMENT SCHEDULE

Lok Kalyan Sewa

Kavre

Project Name:-Detailed Report of Ganesh Secondary School Building.

Address:-Roshi-12, Kavre

SUMMARY OF REINFORCEMENT SCHEDULE

General Notes:

S.N	Description	Value
1	Development Length	50D
2	lap Length	50D
3	Clear Cover	
	Footing	50
	Column	40
	Beam	25
	Slab	20
4	Stirrups Spacing(Beam & Column)	Avg of 150 mm & 100mm=125mm
5	Chairs	1 per 5 sq.m

Summary Of The Reinforcement

S.N	SCHOOL BLOCK	REINFORCEMENT (KG)
1	Main Building	6620.59
	Total (KG)	6620.59 KG
	Addition 5% for fittings	331.03 KG
	Total Reinforcement (MT)	6.95 MT

S.N	SCHOOL BLOCK	BINDING WIRE (KG)
	Overall Block (MT)	0.070
	Addition 5% for fittings	0.003
	Grand Total (KG)	72.992

S.N	SCHOOL BLOCK	Overall Reinforcement
	Grand Total (MT)	7.020

Address:-Roshi-12, Kavre

Address: Room 12, Rm12

Bar Schedule of School													
S.N	Member	Dia. mm	Spacing mm	Set	Nos	CL (m)	Lap		Total Lap Length	Total Length (m)	Unit Wt Kg/m	Total Wt. (Kg)	
							No.	Length					
1	FOOTING											435.73	
i)	Footing(Isolated) (1700*1700)												
		12	150	4	24	1.90				182.40	0.89	162.13	
	Footing(Isolated) (1800*1800)												
		12	150	3	24	2.00				144.00	0.89	128.00	
	Footing(Isolated) (1900*1900)												
		12	150	3	26	2.10				163.80	0.89	145.60	
	Total weight of reinforcement on footing(KG)											435.73	
2	COLUMN (a+b)											2347.14	
a	Main Bar (Column 1)												1646.81
	Up to Ground Floor												
	Main Bar	20		10	4	5.65	2	1.00	2.00	306.00	2.47	755.56	
	Main Bar	16		10	8	5.45	2	0.80	1.60	564.00	1.58	891.26	
	Total Weight Of Main Reinforcement (KG)											1646.81	

Bar Schedule of School												
S.N	Member	Dia. mm	Spacing mm	Set	Nos	CL (m)	Lap		Total Lap Length	Total Length (m)	Unit Wt Kg/m	Total Wt. (Kg)
							No.	Length				
b	Stirrups											700.33
	Up to Ground Floor											
		8		10	57	3.11				1772.70	0.40	700.33
										Total Weight Of Stirrups(KG)		700.33
3	BEAM (I+II)											2360.94
I	MAIN BEAM(a+b)											2360.94
a	Main Reinforcement (Bar)											1673.75
	Main Beam											
	Lower Tie Beam											
	Along Grid 1-1											
	Top Bar	16		1	1	22.65	1	0.80	0.80	23.45	1.58	37.06
	Top Bar	12		1	2	22.56	1	0.60	0.60	46.32	0.89	41.17
	Bottom Bar	16		1	1	22.65	1	0.80	0.80	23.45	1.58	37.06
	Bottom Bar	12		1	2	22.56	1	0.60	0.60	46.32	0.89	41.17
	Along Grid 2-2											
	Top Bar	16		1	1	22.65	1	0.80	0.80	23.45	1.58	37.06
	Top Bar	12		1	2	22.56	1	0.60	0.60	46.32	0.89	41.17
	Bottom Bar	16		1	1	22.65	1	0.80	0.80	23.45	1.58	37.06
	Bottom Bar	12		1	2	22.56	1	0.60	0.60	46.32	0.89	41.17

Bar Schedule of School												
S.N	Member	Dia. mm	Spacing mm	Set	Nos	CL (m)	Lap		Total Lap Length	Total Length (m)	Unit Wt Kg/m	Total Wt. (Kg)
							No.	Length				
	Along Grid A-A											
	Top Bar	16		1	1	5.45				5.45	1.58	8.62
	Top Bar	12		1	2	5.36				10.72	0.89	9.53
	Bottom Bar	16		1	1	5.45				5.45	1.58	8.62
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53
	Along Grid B-B											
	Top Bar	16		1	1	5.45				5.45	1.58	8.62
	Top Bar	12		1	2	5.36				10.72	0.89	9.53
	Bottom Bar	16		1	1	5.45				5.45	1.58	8.62
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53
	Along Grid C-C											
	Top Bar	16		1	1	5.45				5.45	1.58	8.62
	Top Bar	12		1	2	5.36				10.72	0.89	9.53
	Bottom Bar	16		1	1	5.45				5.45	1.58	8.62
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53
	Along Grid D-D											
	Top Bar	16		1	1	5.45				5.45	1.58	8.62
	Top Bar	12		1	2	5.36				10.72	0.89	9.53
	Bottom Bar	16		1	1	5.45				5.45	1.58	8.62
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53
	Along Grid E-E											
	Top Bar	16		1	1	5.45				5.45	1.58	8.62
	Top Bar	12		1	2	5.36				10.72	0.89	9.53
	Bottom Bar	16		1	1	5.45				5.45	1.58	8.62
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53

Bar Schedule of School												
S.N	Member	Dia. mm	Spacing mm	Set	Nos	CL (m)	Lap		Total Lap Length	Total Length (m)	Unit Wt Kg/m	Total Wt. (Kg)
							No.	Length				
	Plinth Beam											
	Along Grid 1-1											
	Top Bar	16		1	2	22.65	1	0.80	0.80	46.91	1.58	74.13
	Top Bar	12		1	2	22.56	1	0.60	0.60	46.32	0.89	41.17
	Bottom Bar	16		1	2	22.65	1	0.80	0.80	46.91	1.58	74.13
	Bottom Bar	12		1	2	22.56	1	0.60	0.60	46.32	0.89	41.17
	Along Grid 2-2											
	Top Bar	16		1	2	22.65	1	0.80	0.80	46.91	1.58	74.13
	Top Bar	12		1	2	22.56	1	0.60	0.60	46.32	0.89	41.17
	Bottom Bar	16		1	2	22.65	1	0.80	0.80	46.91	1.58	74.13
	Bottom Bar	12		1	2	22.56	1	0.60	0.60	46.32	0.89	41.17
	Along Grid A-A											
	Top Bar	16		1	2	5.45				10.91	1.58	17.24
	Top Bar	12		1	2	5.36				10.72	0.89	9.53
	Bottom Bar	16		1	2	5.45				10.91	1.58	17.24
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53
	Along Grid B-B											
	Top Bar	16		1	2	5.45				10.91	1.58	17.24
	Top Bar	12		1	2	5.36				10.72	0.89	9.53
	Bottom Bar	16		1	2	5.45				10.91	1.58	17.24
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53
	Along Grid C-C											
	Top Bar	16		1	2	5.45				10.91	1.58	17.24
	Top Bar	12		1	2	5.36				10.72	0.89	9.53
	Bottom Bar	16		1	2	5.45				10.91	1.58	17.24
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53

Bar Schedule of School												
S.N	Member	Dia. mm	Spacing mm	Set	Nos	CL (m)	Lap		Total Lap Length	Total Length (m)	Unit Wt Kg/m	Total Wt. (Kg)
							No.	Length				
	Along Grid D-D											
	Top Bar	16		1	2	5.45				10.91	1.58	17.24
	Top Bar	12		1	2	5.36				10.72	0.89	9.53
	Bottom Bar	16		1	2	5.45				10.91	1.58	17.24
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53
	Along Grid E-E											
	Top Bar	16		1	2	5.45				10.91	1.58	17.24
	Top Bar	12		1	2	5.36				10.72	0.89	9.53
	Bottom Bar	16		1	2	5.45				10.91	1.58	17.24
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53
	BEAM AT LEVEL +3.0m											
	Along Grid 1-1											
	Top Bar	16		1	2	22.65	1	0.80	0.80	46.91	1.58	74.13
	Bottom Bar	12		1	2	22.56	1	0.60	0.60	46.32	0.89	41.17
	Extra Bar Top	12		1	2	17.14				34.28	0.89	30.47
	Along Grid 2-2											
	Top Bar	16		1	2	22.65	1	0.80	0.80	46.91	1.58	74.13
	Bottom Bar	12		1	2	22.56	1	0.60	0.60	46.32	0.89	41.17
	Extra Bar Top	12		1	2	17.14				34.28	0.89	30.47
	Along Grid A-A											
	Top Bar	16		1	2	5.45				10.91	1.58	17.24
	Bottom Bar	12		1	2	5.36				10.72	0.89	9.53
	Extra Bar Top	12		1	2	2.84				5.68	0.89	5.05

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Bar Schedule of School												
S.N	Member	Dia. mm	Spacing mm	Set	Nos	CL (m)	Lap		Total Lap Length	Total Length (m)	Unit Wt Kg/m	Total Wt. (Kg)
							No.	Length				
4	SILL BAND											19.97
	Sill band											
	Main bar	5		2	2	20.35				81.40	0.15	12.56
	Transverse bar	4		2	134	0.28				75.04	0.10	7.41
	TOTAL REINFORCEMENT IN SILL BAND(KG)											19.97
5	LINTEL BAND											38.91
	Main Bar	5		2	4	24.35				194.80	0.15	30.06
	Transverse bar	4		2	160	0.28				89.60	0.10	8.85
	TOTAL REINFORCEMENT IN LINTEL BAND(KG)											38.91
6	FLOOR SLAB											1402.34
	FLOOR SLAB											
	BOTTOM REINFORCEMENT											
	AT LEVEL +3.0 M											
	Grid A-A to E-E											
	Along X-X Axis	8	125	1	49	22.41	1	0.40	0.40	1117.69	0.40	441.56
	Along Y-Y Axis	8	125	1	179	6.15				1100.85	0.40	434.90
				TOTAL WEIGHT OF BOTTOM REINFORCEMENT(KG)								876.46
				TOTAL WEIGHT OF TOP REINFORCEMENT(KG) ASSUME 60%								525.88
7	CHAIRS											15.56
	Chairs	10		1	28	0.90				25.20	0.62	15.56
				TOTAL WEIGHT OF REINFORCEMENT								15.56
	GRAND TOTAL REINFORCEMENT OF MAIN BLOCK (kg)											6620.59