

**DETAIL PROJECT REPORT
OF
LANKA MAHAVIDYALAYA, LANKA**

For RUSA Fund Grant



SUBMITTED BY

PRINCIPAL

**LANKA MAHAVIDYALAYA, LANKA
HOJAI, ASSAM, PIN-782446**

INTRODUCTION

LANKA MAHAVIDYALAYA was established on the 20th July, 1979 in the northern outskirts of Lanka town which is situated in the southernmost part of the district of Hojai, Assam. Lanka is situated at a distance of about 180 Kms from Guwahati, the capital city of Assam and about 10Kms from Hojai, the district headquarter town. The site, where the college stand today spreads over an area of about 17 acres amid green surroundings. Lanka Mahavidyalaya is an affiliated college of Guwahati University and is listed under University Grants Commission (UGC), offers Higher Secondary (10+2) and Three-year degree courses in Arts and Commerce stream. Lanka being a backward area, there was no Institution of Higher Education within a distance of 20Kms. Of Lanka before the establishment of Lanka Mahavidyalaya and a vast majority of students could not afford higher education due to financial constraint. As the college committee has been exerting each sincere and untiring efforts to enlighten the economically and educationally backward people of area, the scenario has changed for the greater to a great extent.

The college started its mission with only 130 students at Lanka High School premises. It was shifted in 1982 to the present site which spread over a sprawling area amid green surrounding. At present the college is having a total strength of about 2127 enrolments which reflects the progress of the Institution of the day by day.

The college has been Accredited 'B' Grade by the National Assessment and Accreditation Council (NAAC) in February, 2005 and in November, 2015.

PROFILE OF THE COLLEGE:

1. Name: Lanka Mahavidyalaya
2. Address:
 - a) Postal: Lanka Mahavidyalaya, P.O. Lanka, Dist.-Hojai, Assam, PIN – 782446
 - b) Telephone: 03674-255473 (O) 9435369038 (M)
 - c) E-mail: Principal.lm@gmail.com
 - d) Website: www.lankamahavidyalaya.in
3. Date and Year of establishment: 20th July, 1979
4. Type of College: Provincialized
5. Registration No. of the college: 1927 of 1993-94
6. University to which the college is affiliated: Guwahati University
7. Nature of Affiliation: Permanent
8. Date of UGC recognition under 2(f) & 12(b): February 22, 1995
9. Financial Category of the college: Grant-in-aid/ Provincialized
10. Management: The college is managed by governing body constituted by the Government of Assam as per provisions of "Assam Non-Govt. College Management (Amendment) Rules, 2001

as

OBJECTIVE OF THE COLLEGE:

1. To impart quality education.
2. To help the students to bring out the best in them so that they can make use of their learning in real life situation.
3. To equip them with education for a meaningful future life and to prepare them for career opportunities.
4. To instill in them spirit of enquiring humanistic values.
5. To develop their spirit of patriotism, dedication and service.
6. To provide accessibility of higher education to women.
7. To remove the educational backwardness of the people of the area.
8. To inculcate the change of scientific temperament among the rural masses.



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Infrastructure Grant Under Rusa 2

Following new proposal submitted by Lanka Mahavidyalaya under RUSA 2 proposed project in a tabular form. The ratio followed as 50: 30: 20.

Total of Infrastructure Grants to Individual Colleges

New Facilities	Renovation/ Upgradation of existing facilities	New Equipments/ Facilities	Total
(In Rs. Lakh)	(In Rs. Lakh)	(In Rs. Lakh)	(In Rs. Lakh)
100.00	60.00	40.00	200.00

Creation of New Facilities

Class Rooms (Including Science Block)	Girl's Common Room	Cafeteria	Total
(In Rs. Lakh)	(In Rs. Lakh)	(In Rs. Lakh)	(In Rs. Lakh)
80.00	16.00	4.00	100.00



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**PROPOSED RCC SCIENCE BLOCK
OF
LANKA MAHAVIDYALAYA
AT
LANKA, HOJAI, ASSAM, PIN-782446**

DETAIL ESTIMATE
(Specification of item of works, Abstract of Quantities,
Rate as per S.O.R. & Estimated Amount)



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SUMMARY OF ESTIMATE

1	CIVIL WORK		Rs.	48,18,868.00
2	Add Internal Electrification Electrification 9% i.e 9% of Rs. 48,18,868.00		Rs.	4,33,698.00
3	Add Internal Electrification Electrification 4% i.e 4% of Rs. 48,18,868.00		Rs.	1,92,755.00
		Total	Rs.	54,45,321.00
4	Add Contingency 1% i.e 1% of Rs. 54,45,321.00		Rs.	54,453.00
		GRAND TOTAL	Rs.	54,99,774.00
		Say,	Rs.	55,00,000.00

(Rupees Fifty Five Lakh only)

BASIS OF ESTIMATE

Schedule items : Prepared on the basis of APWD Schedule of Rates for Buildings (Civil works/Sanitary Fittings and Water Supply Works) 2008-09.

Non-Schedule items : As per D.S.R.-2014.

Date: 01/03/2019

Signature of the Architect.

Dhrubajyoti Das
B. Tech (Civil Engineering)
GMDA/RTP/2015/ENG-1272

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DETAIL ESTIMATE OF CIVIL WORKS

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
EARTHWORK IN EXCAVATION						
1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.				
		(A) Up to a depth of 2.00m below the existing ground level.	Cu.M.	265.00	108.82	28837.00
		(a) In ordinary soil				
		(B) Extra over item no.1.1(A) above for each 1m depth or part thereof beyond the initial depth of 2m	Cu.M.	38.00	30.79	1170.00
2	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.	Cu.M.	265.00	345.61	91587.00
		(c) With river sand or silt (predominantly non plastic) by truck carriage including loading and unloading.				
2.1 PLAIN CEMENT CONCRETE WORKS						
3	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).	Cu.M.	14.00	4292.86	60100.00
		(a) In prop. 1 cement:3 sand : 6 coarse aggregate by volume				


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Sl. No.	APWD 2013-14 Item No.	Specification of Item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
4	2.1.2	Plain cement concrete floor base in prop 1:3:6 laid in alternate bays as specified with coarse agg. of size 13mm to 32mm including dewatering if necessary, and curing etc. complete. (c). 100 mm thick in prop 1:3:6	Sq.M.	425.00	491.91	209062.00
5	2.1.3	Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	Sq.M.	32.00	181.99	5824.00
	2.2	REINFORCED CEMENT CONCRETE WORKS				
6	2.2.1	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using mixture machine (A) In sub - structure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. N) Without using admixture, plasticiser a) M15 grade concrete or Prop. 1:2:4 b) M20 grade concrete or Prop. 1:1.5:3	Cu.M.	5.00	5496.65	27483.00
			Cu.M.	48.00	6063.65	291055.00
		(B) In super-structure from plinth level upto 1st floor level. (i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc.				


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N) Without using admixture, plasticiser

b) M20 grade concrete or Prop. 1:1.5:3 Cu.M. 5.00 6241.39 31207.00

(ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing. Cu.M. 82.00 6331.46 519180.00

N) Without using admixture, plasticiser

b) M20 grade concrete or Prop. 1:1.5:3

3.1 TIMBER SHUTTERING (FORMWORK)

7 3.1.1 Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in:

3.1.1.1 Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc. Sq.M. 65.00 276.07 17945.00

(b) Using 25mm thick plank

3.1.1.2 Sides of tie beams, grade beams etc. at or below ground level. Sq.M. 135.00 341.90 46157.00


(b) Using 25mm thick plank

8 3.3 STEEL SHUTTERING:

3.3.1 Providing formwork using 2mm pressed bend shuttering plate of mild sheet and tubular telescopic steel props including centering, shuttering, strutting and propping etc. complete and removal of the same for in situ reinforced concrete and plain concrete work in:

3.3.1.1 Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having plane vertical face Sq.M. 275.00 116.95 32161.00

3.3.1.2 Sides and soffits of Beams, beam haunchings, cantilever girders and bressumers. Sq.M. 445.00 115.42 51362.00


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Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
	3.3.1.3	Flat Surfaces such as soffits of suspended floors, roofs, landings and the like.	Sq.M.	495.00	142.53	70552.00
	3.3.1.5	Vertical surface such as walls (any thickness), Lift shafts, partitions and the like including attached pilasters, buttresses, plinth and string courses and the like.	Sq.M.	22.00	143.23	3151.00
		MASONRY WORKS				
9	4.1.1	Providing soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.	Sq.M.	495.00	368.71	182511.00
		(a).Brick on flat soling.				
		IN SUB-STRUCTURE.				
10	4.1.4	Brick work in cement mortar with 1st class brick including racking out joints and dewatering if necessary, and curing complete as directed (l) In Sub-structure up to plinth level. (b). In proportion 1:4.	Cu.M.	34.00	5860.86	199269.00
		IN SUPERSTRUCTURE.				
11	4.1.8	1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embeded in cement mortar and will be measured and paid separately) (A) 112mm thick brick wall (a) In cement mortar in proportion 1:4. (1 cement:4 sand)	Sq.M.	545.00	653.01	355890.00


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Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
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5.7 **TILES WORKS**

5.7.1 **1. CERAMIC TILES
A) ON FLOOR**

12	5.7.1.1	Providing Ceramic Tiles of approved quality, size, shape and thickness not less than 8 mm on floors, skirtings, treads and risers of steps over cement mortar bed 15 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile Choksey /Sika/Pedelite /Rouf) /white cement slurry mixed with approved pigment to match the shade of granite slab, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of slab and as approved and directed by the Department).	Sq.M.	555.00	680.00	377400.00
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a) Normal range (Somany/ Orient/ Nitco /Asian)

i) Of size 300mmx 300mm and above

CEMENT PLASTERING


13	6.2.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.	Sq.M.	820.00	116.85	95817.00
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(a). In cement mortar 1:4

14	6.2.2	15 mm thick Cement plaster in single coat on rough side of single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed.	Sq.M.	545.00	147.23	80240.00
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A) On rough side

(b). In cement mortar 1:4


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Sl. No.	APWD 2013-14 Item No.	Specification of Item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
	9.0	WOOD WORKS				
15	9.1.2	Providing wood work in frame (chowkaths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embedded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified.	Cu.M.	0.86	77474.00	66628.00
		(b) With 1st class timber (Bonsum/ Sundi)				
	9.12	BLOCK BOARD SHUTTERS				
16	9.12.1	Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevant I.S code including oxidised iron butt hinges (100mm x 75mm x 3.5mm) 6 nos with necessary wood screws.				
		a)Decorative type and block board core.	Sq.M.	12.00	2990.57	35887.00
		(ii) 35 mm thick .				
		GRILLS				
17	10.2	Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, square or round M.S. bars with round headed bolts and nuts or screws.	Kg.	112.00	88.74	9939.00
		I . Plain grill				
		(c). Fixed to Brickwork/P.C.C/R.C.C.				
		ALUMINIUM DOORS, WINDOWS AND OTHER WORKS				
		WINDOWS AND VENTILATORS				

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SI. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
18	11.1.1	Providing, fitting and fixing anodised aluminium windows and ventilators of standard sections of approved brand without horizontal glazing bars joints mitred and welded (manufactured to relevant IS specifications) fitted with 6mm x 3.15mm lugs 100mm long embedded in CC blocks 150mm x 100mm x 100mm in 1:3:6 mix including providing and fixing handles, frictions stays, joining cleat, bolting device, locking arrangement, spring catch as required complete as specified and directed for all levels.				
		(b)Fixed windows and ventilators (iv) 5 mm clear glass	Sq.M.	11.00	2572.03	28292.00
19	11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.				
		(b)3 Track sliding window (iv) 5 mm clear glass	Sq.M.	34.00	4712.14	160213.00
20	13.2.3	CEMENT PAINT & PRIMER a) Applying one coat of cement primer of approved brand and manufacture on new wall surface after throughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	Sq.M.	1365.00	40.66	55501.00


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Sl. No.	APWD 2013-14 Item No.	Specification of item of works	UNIT	Quantity	Rate as per S.O.R.	Estimated Amount
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21 13.3.4 **PLASTER OF PARIS & WALL PUTTY**
 Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)

Sq.M. 1333.00 88.00 117324.00

(i) Thickness = 1.5 mm thick

WALL PAINTING

22 13.4.7 Wall painting (two coats) with Plastic emulsion paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.
 (a) Plastic Emulsion Paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)

Sq.M. 545.00 73.00 40000.00

13.6 PAINTING ON WOOD AND WOOD BASED SURFACES

23 13.6.3 Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter, sand papering and knotting.
 (b). With ready mixed paint, wood primer (white).

Sq.M. 24.00 36.00 864.00


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Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
24	13.6.5	Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping. (i).Surfaces over 100mm in width or girth. b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	Sq.M.	24.00	73.00	1752.00
EXTERIOR PAINTS / COATINGS						
25	13.9.1	Finishing old / new wall with water proofing weather coat smooth anti-fungal exterior painting of approved make of Berger paint of required shade after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats)	Sq.M.	545.00	127.80	69651.00
15.2 ALUMINIUM FITTINGS						
26	15.2.1	Supplying, fitting, fixing anodised aluminium fittings of approved make, reasonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)				
		a) Sliding door bolts i) 300mm x 16mm	Each	12	272.17	3266.00
		b) Tower bolts ii) 250mm x 12mm	Each	12	121.86	1462.00
		c) Door handles iii) 150mm	Each	12	42.43	509.00
		l) Hydraulic door closure	Each	6	1077.24	6463.00
		t) Door stopper with rubber stopper	Each	6	85.81	515.00
STEEL & IRON WORKS						
18.1		REINFORCEMENT				


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Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
27	18.1.1	<p>Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)</p> <p>a) From Primary Producer: TATA/SAIL/Essex Steel/ Jindal steel/Shyam steel/RINL (ii) Super Ductile (SD) TMT reinforcement bars</p>	Qtl.	156.00	6902.86	1076846.00
28		<p>Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.</p>	Each	25	119.05	2976.00
PLINTH PROTECTION WORKS AND DRAINS						
29	19.1	<p>Providing plinth protection 50mm thick to cement concrete 1 : 3 : 6 with coarse agg. of 20mm nominal size including finishing the surface with 10mm thick cement plaster in proportion 1:3 with a floating coat of neat cement finished.</p>	Sq.M.	495.00	342.80	169686.00
30	19.4	<p>Providing drain with cement concrete (1:3:6) 10cm thick sides 10cm thick bed over brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shuttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified.</p> <p>i). 300mm wide and average 150mm deep with bed slope 1 in 150 with initial depth of 100mm.</p>	R.M.	99.00	883.38	87455.00
22.3		WATER PROOFING OF CHAJJAS, ROOF SLABS, TERRACES, SUNKEN SLABS, SEPTIC TANK, OH TANK, RAFT SLAB IN BASEMENT, WALLS ETC.				


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SI. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
31	22.3.10	Providing and applying over sunken slab etc., two coats of waterproofing slurry prepared with neat cement, water and modified Styrene Butadiene Rubber based polymer like Sika Latex of Sika India Ltd./Dr. Sealkit Masterbond Latex (Asian Chemicals)/ RHEOMIX 141 by brush after proper surface preparation (surface preparation including thorough cleaning of surface to be measured and paid separately) as specified & directed by the Department complete.	Sq.M.	25.00	69.51	1738.00


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Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
	26.1	PRE CONSTRUCTION ANTI - TERMITE TREATMENT				
32	26.1.3	Pre construction anti - termite treatment by applying in the entire levelled area after plinth filling and before laying floor by applying the emulsion @ 5 (five) litres per square meter of the surface to be spread with light rodding so as to ensure proper absorption by the filled up earth (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete. a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (trichel or euivalent) and water, i.e. 1% solution.	Sq.M.	495.00	77.09	38160.00
33	26.1.4	Pre construction anti - termite treatment by applying in the junction of walls, column with the floor before laying floor and after operation of item no. 26.1.3 above making a channel 30mmx30mm all over the walls and making rod holes @ 150mm apart up to ground level below and applying emulsion @ 11 litres per square meter of vertical plinth wall surface inside the building so as to soak the soil with the emulsion up to the ground level and refill the holes and channel with the original materials obtained in making channels (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete. a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (trichel or euivalent) and water, i.e. 1% solution.	Sq.M.	495.00	168.27	83294.00


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Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
34	26.1.5	Pre construction anti - termite treatment by applying the soil along the external perimeter of the building (after construction completed) to a distance close to the plinth wall as specified and as directed by the deptt. up to a depth of 300mm making rod holes along the line @ 150mm apart to a depth of 300mm and applying emulsion @ 4.5 litres per running meter ensure moistening of the soil with emulsion (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete. a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (trichel or euivalent) and water, i.e. 1% solution.	R.M.	99.00	69.90	6920.00

=Rs. 4818868.00



Signature of the Architect.

Date: 01/03/2019

Dhrubajyoti Das
B. Tech (Civil Engineering)
GMDA/RTP/2015/ENG-122/2



Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

**PROPOSED CONSTRUCTION OF RCC NEW CLASS ROOM (FIRST FLOOR)
OF
LANKA MAHAVIDYALAYA
AT
LANKA, HOJAI, ASSAM, PIN-782446**

DETAIL ESTIMATE
(Specification of item of works, Abstract of Quantities,
Rate as per S.O.R. & Estimated Amount)


**Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam**

**PROPOSED CONSTRUCTION OF RCC NEW CLASS ROOM (FIRST FLOOR)
OF
LANKA MAHAVIDYALAYA
AT
LANKA, HOJAI, ASSAM, PIN-782446**

SUMMARY OF ESTIMATE


1	CIVIL WORK		Rs.	21,90,530.00
2	Add Internal Electrification Electrification 9%			
	i.e 9% of Rs.	21,90,530.00	Rs.	1,97,148.00
3	Add Internal Electrification Electrification 4%			
	i.e 4% of Rs.	21,90,530.00	Rs.	87,621.00
			Total	Rs. 24,75,299.00
4	Add Contingency 1%			
	i.e 1% of Rs.	24,75,299.00	Rs.	24,753.00
			GRAND TOTAL	Rs. 25,00,052.00
			Say,	Rs. 25,00,000.00

(Rupees Twenty Five Lakh only)


BASIS OF ESTIMATE

Schedule items : Prepared on the basis of APWD Schedule of Rates for Buildings (Civil works/Sanitary Fittings and Water Supply Works) 2013-14.

Date: 01/03/2019


Signature of the Architect.

Dhruvajyoti Das
B. Tech (Civil Engineering)
GMDA/RTP/2015/ENG-122/2


Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

**PROPOSED CONSTRUCTION OF RCC NEW CLASS ROOM (FIRST FLOOR)
OF
LANKA MAHAVIDYALAYA
AT
LANKA, HOJAI, ASSAM, PIN-782446
DETAIL ESTIMATE OF CIVIL WORKS**

SI. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantiti	Rate as per S.O.R.	Estimated Amount
1	2.2	REINFORCED CEMENT CONCRETE WORKS				
		From 1st floor level to 2nd floor level.				
		(i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc.				
		N) Without using admixture, plasticiser				
		b) M20 grade concrete or Prop. 1:1.5:3	Cu.M.	5.00	6547.58	32738.00
		(ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.				
		N) Without using admixture, plasticiser				
		b) M20 grade concrete or Prop. 1:1.5:3	Cu.M.	82.00	6637.65	544287.00
2	3.3 3.3.1	STEEL SHUTTERING: Providing formwork using 2mm pressed bend shuttering plate of mild sheet and tubular telescopic steel props including centering, shuttering, strutting and propping etc. complete and removal of the same for in situ reinforced concrete and plain concrete work in:				
		From 1st floor level to 2nd floor level.				
	3.3.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having plane vertical face	Sq.M.	155.00	142.64	22109.00
	3.3.1.2	Sides and Soffits of Beams, beam haunchings, cantilever girders and bressumers.	Sq.M.	315.00	141.11	44450.00


**Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam**

Sl. No.	APWD	Specification of item of works	Unit	Abstract of Quantiti	Rate as per S.O.R.	Estimated Amount
	2013-14 Item No.					
	3.3.1.3	Flat Surfaces such as soffits of suspended floors, roofs, landings and the like.	Sq.M.	325.00	168.22	54672.00

IN SUPERSTRUCTURE.

- 3 4.1.8 1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embeded in cement mortar and will be measured and paid separately)

From 1st floor level to 2nd floor level.

(A) 112mm thick brick wall

(a) In cement mortar in proportion 1:4. (1 cement:4 sand)

Sq.M. 235.00 682.10 160294.00

5.7 TILES WORKS

5.7.1 1. CERAMIC TILES

A) ON FLOOR

- 4 5.7.1.1 Providing Ceramic Tiles of approved quality, size, shape and thickness not less than 8 mm on floors, skirtings, treads and risers of steps over cement mortar bed 15 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile Choksey /Sika/Pedelite /Rouf) /white cement slurry mixed with approved pigment to match the shade of granite slab, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of slab and as approved and directed by the Department).


Sq.M. 335.00 680.00 227800.00

a) Normal range (Somany/ Orient/ Nitco /Asian)

i) Of size 300mmx 300mm and above


Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantiti	Rate as per S.O.R.	Estimated Amount
5	5.9 5.9.2	MARBLE FLOORING 18 mm thick marble stone tiles in flooring including risers and treads of steps, skirting, dado, walls, pillars laid with 10 mm thick base of cement plaster in prop.1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing complete with marble tiles of specified quality and shade at all levels. (b) With 18mm thick marble stone tiles of size 600mm x 450 mm, 600mm x 300mm (iv) Rajnagar Marble	Sq.M.	35.00	1023.70	35830.00
6	6.2.1	CEMENT PLASTERING 10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. (a). In cement mortar 1:4	Sq.M.	235.00	116.85	27460.00
7	6.2.2	15 mm thick Cement plaster in single coat on rough side of single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side (b). In cement mortar 1:4	Sq.M.	235.00	147.23	34599.00
8	9.0 9.1.2	WOOD WORKS Providing wood work in frame (chowkaths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embeded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified. (b) With 1st class timber (Bonsum/ Sundi)	Cu.M.	0.30	77474.00	23242.00


 Principal
 Lanka Mahavidyalaya
 Lanka, Hojai, Assam

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantiti	Rate as per S.O.R.	Estimated Amount
9	9.12 9.12.1	BLOCK BOARD SHUTTERS Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevent I.S code including oxidised iron butt hinges (100mm x 75mm x 3.5mm) 6 nos with necessary wood screws. a) Decorative type and block board core. (ii) 35 mm thick .	Sq.M.	7.00	2990.57	20934.00
10	10.2	GRILLS Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, squre or round M.S. bars with round headed bolts and nuts or screws. I. Plain grill (c). Fixed to Brickwork /P.C.C /R.C.C.	Kg.	345.00	88.74	30615.00
11	11.1.1	ALUMINIUM DOORS, WINDOWS AND OTHER WORKS WINDOWS AND VENTILATORS Providing, fitting and fixing anodised aluminium windows and ventilators of standard sections of approved brand without horizontal glazing bars joints mitred and welded (manufactured to relevant IS specifications) fitted with 6mm x 3.15mm lugs 100mm long embedded in CC blocks 150mm x 100mm x 100mm in 1:3:6 mix including providing and fixing handles, frictions stays, joining cleat, bolting device, locking arrangement, spring catch as required complete as specified and directed for all levels. (Cement concrete to be measured and paid separately). (b)Fixed windows and ventilators (iv) 5 mm clear glass	Sq.M.	8.00	2572.03	20576.00




Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantiti	Rate as per S.O.R.	Estimated Amount
12	11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.				
		(b)3 Track sliding window				
		(iv) 5 mm clear glass	Sq.M.	22.00	4712.14	103667.00
13	13.2.3	CEMENT PAINT & PRIMER a) Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	Sq.M.	470.00	40.66	19110.00
14	13.3	PLASTER OF PARIS & WALL PUTTY				
	13.3.4	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) (i) Thickness = 1.5 mm thick	Sq.M.	470.00	66.60	31302.00
15	13.4.7	WALL PAINTING Wall painting (two coats) with Plastic emulsion paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth. (a).Plastic Emulsion Paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	Sq.M.	235.00	76.99	18093.00

as

SI. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantiti	Rate as per S.O.R.	Estimated Amount
	13.6	PAINTING ON WOOD AND WOOD WOOD BASED SURFACES				
16	13.6.3	Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter , sand papering and knotting. (b). With ready mixed paint , wood primer (white).	Sq.M.	14.00	36.90	517.00
17	13.6.5	Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping. (i).Surfaces over 100mm in width or girth. b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	Sq.M.	14.00	73.00	1022.00
	13.7	PAINTING ON STEEL AND OTHER METAL SURFACE				
18	13.7.2	Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by thoroughly cleaning oil,grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper. a). With ready mixed "red-lead/ red oxide" primer.	Sq.M.	89.00	33.96	3022.00
19	13.7.4	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint of approved brand and manufacture(Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter. (i).Surfaces over 100mm in width or girth. b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	Sq.M.	89.00	73.00	6497.00


 Principal
 Lanka Mahavidyalaya
 Lanka, Hojai, Assam

SI. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantiti	Rate as per S.O.R.	Estimated Amount
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EXTERIOR PAINTS / COATINGS

20	13.9.1	Finishing old / new wall with water proofing weather coat smooth anti-fungal exterior painting of approved make of Berger paint of required shade after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats)	Sq.M.	235.00	127.80	30033.00
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15.2 ALUMINIUM FITTINGS

21	15.2.1	Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)				
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	a) Sliding door bolts i) 300mm x 16mm	Each	6	272.17	1633.00
	b) Tower bolts ii) 250mm x 12mm	Each	6	121.86	731.00
	c) Door handles iii) 150mm	Each	6	42.43	255.00
	l) Hydraulic door closure	Each	3	1077.24	3232.00
	t) Door stopper with rubber stopper	Each	3	85.81	257.00


Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantiti	Rate as per S.O.R.	Estimated Amount
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**STEEL & IRON WORKS
REINFORCEMENT**

22 18.1 18.1.1 Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete.
(No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)

a) From Primary Producer: TATA/SAIL/Essex Steel/ Jindal steel/Shyam steel/RINL

From 1st floor level to 2nd floor level. Qtl. 92.00 6940.61 638536.00

23 Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete. Each 10 119.05 1191.00

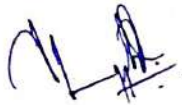


Principal
Lanka Mahavir Jais,
Lanka, Hojai, Assam

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantiti	Rate as per S.O.R.	Estimated Amount
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	18.9	STEEL RAILING				
24	18.9.1	Providing and fixing Stainless Steel (Grade 304) railing made of hollow tubes, channels, plates etc, including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i.e. fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc, of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer incharge.(For payment, only weight of stainless steel member is to be considered. No extra payment for fixing accessories such as nuts, bolts, fasteners etc. will be considered.)	Kg.	89.00	582.31	51826.00

=Rs. 2190530.00



Signature of the Architect.

Date: 01/03/2019


Dhrubajyoti Das
B. Tech (Civil Engineering)
GMDA/RTP/2015/ENG-122/2



Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

**PROPOSED CONSTRUCTION OF RCC NEW GIRL'S COMMON ROOM
OF
LANKA MAHAVIDYALAYA
AT
LANKA, HOJAI, ASSAM, PIN-782446**

DETAIL ESTIMATE
(Specification of item of works, Abstract of Quantities,
Rate as per S.O.R. & Estimated Amount)


Principal
Lanka Mahavidyalaya,
Lanka, Hojai, Assam

**PROPOSED CONSTRUCTION OF RCC NEW GIRL'S COMMON ROOM
OF
LANKA MAHAVIDYALAYA
AT
LANKA, HOJAI, ASSAM, PIN-782446**

SUMMARY OF ESTIMATE

1	CIVIL WORK		Rs.	14,02,155.00	
2	Add Internal Electrification Electrification 9%				
	i.e	9% of Rs.	14,02,155.00	Rs.	1,26,194.00
3	Add Internal Electrification Electrification 4%				
	i.e	4% of Rs.	14,02,155.00	Rs.	56,086.00
			Total	Rs.	15,84,435.00
4	Add Contingency 1%				
	i.e	1% of Rs.	15,84,435.00	Rs.	15,844.00
			GRAND TOTAL	Rs.	16,00,279.00
			Say,	Rs.	16,00,000.00

(Rupees Sixteen Lakh only)

BASIS OF ESTIMATE

Schedule items : Prepared on the basis of APWD Schedule of Rates for Buildings (Civil works/Sanitary Fittings and Water Supply Works) 2013-14.

Date: 01/03/2019


Signature of the Architect.

Dhrubajyoti Das
B. Tech (Civil Engineering)
GMDA/RTP/2015/E. 2012


Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

**PROPOSED CONSTRUCTION OF RCC NEW GIRL'S COMMON ROOM
OF
LANKA MAHAVIDYALAYA
AT
LANKA, HOJAI, ASSAM, PIN-782446**

DETAIL ESTIMATE OF CIVIL WORKS

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
EARTHWORK IN EXCAVATION						
1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.				
		(A) Up to a depth of 2.00m below the existing ground level.	Cu.M.	82.00	108.82	8923.00
		(a) In ordinary soil				
		(B) Extra over item no.1.1(A) above for each 1m depth or part thereof beyond the initial depth of 2m	Cu.M.	17.00	30.79	523.00
2	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.	Cu.M.	38.00	345.61	13133.00
		(c) With river sand or silt (predominantly non plastic) by truck carriage including loading and unloading.				
2.1 PLAIN CEMENT CONCRETE WORKS						
3	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).	Cu.M.	11.00	4292.86	47221.00
		(a) In prop. 1 cement:3 sand : 6 coarse aggregate by volume				

as

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
4	2.1.2	Plain cement concrete floor base in prop 1:3:6 laid in alternate bays as specified with coarse agg. of size 13mm to 32mm including dewatering if necessary, and curing etc. complete. (c). 100 mm thick in prop 1:3:6	Sq.M.	64.00	491.91	31482.00
5	2.1.3	Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	Sq.M.	5.00	181.99	910.00
	2.2	REINFORCED CEMENT CONCRETE WORKS				
6	2.2.1	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using mixture machine (A) In sub - structure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. N) Without using admixture, plasticiser a) M15 grade concrete or Prop. 1:2:4 b) M20 grade concrete or Prop. 1:1.5:3 (B) In super-structure from plinth level upto 1st floor level. (i) Walls (thickness not less than 100mm) including attached pillars, buttresses, plinth and string course etc. N) Without using admixture, plasticiser b) M20 grade concrete or Prop. 1:1.5:3	Cu.M.	2.00	5496.65	10993.00
			Cu.M.	20.00	6063.65	121273.00
			Cu.M.	2.00	6241.39	12483.00


Principal
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Lanka, Hojai, Assam

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
		(ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.	Cu.M.	20.00	6331.46	126629.00
		N) Without using admixture, plasticiser				
		b) M20 grade concrete or Prop. 1:1.5:3				
	3.1	TIMBER SHUTTERING (FORMWORK)				
7	3.1.1	Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in:				
	3.1.1.1	Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc.	Sq.M.	48.00	276.07	13251.00
		(b) Using 25mm thick plank				
	3.1.1.2	Sides of tie beams, grade beams etc. at or below ground level.	Sq.M.	31.00	341.90	10599.00
		(b) Using 25mm thick plank				
8	3.3	STEEL SHUTTERING:				
	3.3.1	Providing formwork using 2mm pressed bend shuttering plate of mild sheet and tubular telescopic steel props including centering, shuttering, strutting and propping etc. complete and removal of the same for in situ reinforced concrete and plain concrete work in:				
	3.3.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having plane vertical face	Sq.M.	78.00	116.95	9122.00
	3.3.1.2	Sides and Soffits of Beams, beam haunchings, cantilever girders and bressumers.	Sq.M.	105.00	115.42	12119.00
	3.3.1.3	Flat Surfaces such as soffits of suspended floors, roofs, landings and the like.	Sq.M.	67.00	142.53	9550.00



Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

SI. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
	3.3.1.5	Vertical surface such as walls (any thickness), Lift shafts, partitions and the like including attached pilasters, buttresses, plinth and string courses and the like.	Sq.M.	10.00	143.23	1432.00
		MASONRY WORKS				
9	4.1.1	Providing soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.	Sq.M.	135.00	368.71	49776.00
		(a).Brick on flat soling.				
		IN SUB-STRUCTURE.				
10	4.1.4	Brick work in cement mortar with 1st class brick including racking out joints and dewatering if necessary, and curing complete as directed	Cu.M.	13.00	5860.86	76191.00
		(l) In Sub-structure up to plinth level.				
		(b). In proportion 1:4.				
		IN SUPERSTRUCTURE.				
11	4.1.8	1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embedded in cement mortar and will be measured and paid separately)	Sq.M.	92.00	653.01	60077.00
		(A) 112mm thick brick wall				
		(a) In cement mortar in proportion 1:4.				
		(1 cement:4 sand)				
	5.7	TILES WORKS				
	5.7.1	1. CERAMIC TILES				
		A) ON FLOOR				
12	5.7.1.1	Providing Ceramic Tiles of approved quality, size, shape and thickness not less than 8 mm on floors, skirtings, treads and risers of steps over cement mortar bed 15 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile Choksey /Sika/Pedelite /Rouf) /white cement slurry mixed with approved pigment to match the shade of granite slab, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of slab and as approved and directed by the Department).	Sq.M.	62.00	680.00	42160.00



Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
		a) Normal range (Somany/ Orient/ Nitco /Asian) i) Of size 300mmx 300mm and above				
		CEMENT PLASTERING				
13	6.2.1	10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. (a). In cement mortar 1:4	Sq.M.	342.00	116.85	39963.00
14	6.2.2	15 mm thick Cement plaster in single coat on rough side of single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side (b). In cement mortar 1:4	Sq.M.	184.00	147.23	27090.00
	9.0	WOOD WORKS				
15	9.1.2	Providing wood work in frame (chowkaths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embedded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified. (b) With 1st class timber (Bonsum/ Sundi)	Cu.M.	0.50	77474.00	38737.00
	9.12	BLOCK BOARD SHUTTERS				
16	9.12.1	Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevent I.S code including oxidised iron butt hinges (100mm x 75mm x 3.5mm) 6 nos with necessary wood screws. a)Decorative type and block board core. (ii) 35 mm thick .	Sq.M.	4.50	2990.57	13458.00


GRILLS


 Principal
 Lanka Mahavidyalaya
 Lanka, Hojai, Assam

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
17	10.2	Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ opening with M.S. flats at required spacing in frame all round, square or round M.S. bars with round headed bolts and nuts or screws. I. Plain grill (c). Fixed to Brickwork/P.C.C/R.C.C.	Kg.	105.00	88.74	9318.00
ALUMINIUM DOORS, WINDOWS AND OTHER WORKS						
WINDOWS AND VENTILATORS						
18	11.1.1	Providing, fitting and fixing anodised aluminium windows and ventilators of standard sections of approved brand without horizontal glazing bars joints mitred and welded (manufactured to relevant IS specifications) fitted with 6mm x 3.15mm lugs 100mm long embedded in CC blocks 150mm x 100mm x 100mm in 1:3:6 mix including providing and fixing handles, frictions stays, joining cleat, bolting device, locking arrangement, spring catch as required complete as specified and directed for all levels. (b) Fixed windows and ventilators (iv) 5 mm clear glass	Sq.M.	2.00	2572.03	5144.00
19	11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. (b)3 Track sliding window (iv) 5 mm clear glass	Sq.M.	7.00	4712.14	32985.00
20	13.2.3	CEMENT PAINT & PRIMER a) Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	Sq.M.	526.00	40.66	21387.00
13.3		PLASTER OF PARIS & WALL PUTTY				


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Sl. No.	APWD 2013-14 Item No.	Specification of Item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
21	13.3.4	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)	Sq.M.	526.00	66.60	35032.00
		(i) Thickness = 1.5 mm thick				
		WALL PAINTING				
22	13.4.7	Wall painting (two coats) with Plastic emulsion paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.				
		(a).Plastic Emulsion Paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	Sq.M.	184.00	76.99	14166.00
	13.6	PAINTING ON WOOD AND WOOD WOOD BASED SURFACES				
23	13.6.3	Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter , sand papering and knotting.	Sq.M.	9.00	36.90	332.00
		(b). With ready mixed paint , wood primer (white).				
24	13.6.5	Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping.				
		(i).Surfaces over 100mm in width or girth.				
		b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	Sq.M.	9.00	73.00	657.00


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Lanka, Hojai, Assam

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
	13.7	PAINTING ON STEEL AND OTHER METAL SURFACE				
25	13.7.2	Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by thoroughly cleaning oil,grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper. a). With ready mixed "red-lead/ red oxide" primer.	Sq.M.	137.00	33.96	4653.00
26	13.7.4	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint of approved brand and manufacture(Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter. (i).Surfaces over 100mm in width or girth. b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	Sq.M.	135.00	73.00	9855.00
		EXTERIOR PAINTS / COATINGS				
27	13.9.1	Finishing old / new wall with water proofing weather coat smooth anti-fungal exterior painting of approved make of Berger paint of required shade after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats)	Sq.M.	92.00	127.80	11758.00
	15.2	ALUMINIUM FITTINGS				
28	15.2.1	Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) a) Sliding door bolts i) 300mm x 16mm b) Tower bolts ii) 250mm x 12mm c) Door handles iii) 150mm l) Hydraulic door closure t) Door stopper with rubber stopper	Each	4	272.17	1089.00
			Each	4	121.86	487.00
			Each	4	42.43	170.00
			Each	2	1077.24	2154.00
			Each	2	85.81	172.00

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
STEEL & IRON WORKS						
18.1 REINFORCEMENT						
29	18.1.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) a) From Primary Producer: TATA/SAIL/Essex Steel/ Jindal steel/Shyam steel/RINL (ii) Super Ductile (SD) TMT reinforcement bars	Qtl.	58.00	6902.86	400366.00
30		Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	Each	2	119.05	238.00
PLINTH PROTECTION WORKS AND DRAINS						
31	19.1	Providing plinth protection 50mm thick to cement concrete 1 : 3 : 6 with coarse agg. of 20mm nominal size including finishing the surface with 10mm thick cement plaster in proportion 1:3 with a floating coat of neat cement finished.	Sq.M.	68.00	342.80	23310.00
32	19.4	Providing drain with cement concrete (1:3:6) 10cm thick sides 10cm thick bed over brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shuttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. i). 300mm wide and average 150mm deep with bed slope 1 in 150 with initial depth of 100mm.	R.M.	35.00	883.38	30918.00


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Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
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22.3 WATER PROOFING OF CHAJJAS, ROOF SLABS, TERRACES, SUNKEN SLABS, SEPTIC TANK, OH TANK, RAFT SLAB IN BASEMENT, WALLS ETC.

33	22.3.10	Providing and applying over sunken slab etc., two coats of waterproofing slurry prepared with neat cement, water and modified Styrene Butadiene Rubber based polymer like Sika Latex of Sika India Ltd./Dr. Sealkit Masterbond Latex (Asian Chemicals)/ RHEOMIX 141 by brush after proper surface preparation (surface preparation including thorough cleaning of surface to be measured and paid separately) as specified & directed by the Department complete.	Sq.M.	25.00	69.51	1738.00
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Lanka, Hojai, Assam**

Sl. No.	APWD 2013-14 Item No.	Specification of Item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
	26.1	PRE CONSTRUCTION ANTI - TERMITE TREATMENT				
34	26.1.3	Pre construction anti - termite treatment by applying in the entire levelled area after plinth filling and before laying floor by applying the emulsion @ 5 (five) litres per square meter of the surface to be spread with light rodding so as to ensure proper absorption by the filled up earth (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete. a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (trichel or euivalent) and water, i.e. 1% solution.	Sq.M.	68.00	77.09	5242.00
35	26.1.4	Pre construction anti - termite treatment by applying in the junction of walls, column with the floor before laying floor and after operation of item no. 26.1.3 above making a channel 30mmx30mm all over the walls and making rod holes @ 150mm apart up to ground level below and applying emulsion @ 11 litres per square meter of vertical plinth wall surface inside the building so as to soak the soil with the emulsion up to the ground level and refill the holes and channel with the original materials obtained in making channels (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete. a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (trichel or euivalent) and water, i.e. 1% solution.	Sq.M.	68.00	168.27	11442.00


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Lanka, Hojai, Assam

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per B.O.R.	Estimated Amount
36	26.1.5	<p>Pre construction anti - termite treatment by applying the soil along the external perimeter of the building (after construction completed) to a distance close to the plinth wall as specified and as directed by the deptt. up to a depth of 300mm making rod holes along the line @ 150mm apart to a depth of 300mm and applying emulsion @ 4.5 litres per running meter ensure moistening of the soil with emulsion (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.</p> <p>a) with aqueous emulsion having concentration 1:19 with chlorophosphose solution (tricol or equivalent) and water, i.e. 1% solution.</p>	R.M.	35.00	69.00	2447.00

=Rs. 1402165.00



Signature of the Architect.

Date: 01/03/2019

Dhrubajyoti Das
 B. Tech (Civil Engineering)
 GMDA/RTP/2015/ENG-1222



Principal
 Lanka Mahavidyalaya
 Lanka, Hojai, Assam

**PROPOSED CAFETERIA
OF
LANKA MAHAVIDYALAYA
AT
LANKA, HOJAI, ASSAM, PIN-782446**

DETAIL ESTIMATE
(Specification of item of works, Abstract of Quantities,
Rate as per S.O.R. & Estimated Amount)


**Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam**

**PROPOSED CAFETERIA
OF
LANKA MAHAVIDYALAYA
AT
LANKA, HOJAI, ASSAM, PIN-782446**

SUMMARY OF ESTIMATE

1	CIVIL WORK		Rs.	3,49,961.65
2	Add Internal Electrification Electrification 9%		Rs.	31,497.00
	i.e 9% of Rs.	3,49,961.65		
3	Add Internal Electrification Electrification 4%		Rs.	13,998.00
	i.e 4% of Rs.	3,49,961.65		
			Total	<u>Rs. 3,95,456.65</u>
4	Add Contingency 1%		Rs.	3,955.00
	i.e 1% of Rs.	3,95,456.65		
			GRAND TOTAL	<u>Rs. 3,99,411.65</u>
			Say,	Rs. 4,00,000.00

(Rupees Four Lakh only)


BASIS OF ESTIMATE

Schedule items : Prepared on the basis of APWD Schedule of Rates for Buildings (Civil works/Sanitary Fittings and Water Supply Works) 2013-14

Date: 01/03/2019


Signature of the Architect.

Dhrubajyoti Das
B. Tech (Civil Engineering)
GMDA/RTP/2015/ENG-122/2


Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

**PROPOSED CAFETERIA
OF
LANKA MAHAVIDYALAYA
AT
LANKA, HOJAI, ASSAM, PIN-782446**

DETAIL ESTIMATE OF CIVIL WORKS

Sl. No.	APWD 2013-14 Item No.	Specification of Item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
EARTHWORK IN EXCAVATION						
1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.				
		(A) Up to a depth of 2.00m below the existing ground level.	Cu.M.	5.00	108.82	544.00
		(a) In ordinary soil				
		(B) Extra over item no.1.1(A) above for each 1m depth or part thereof beyond the initial depth of 2m	Cu.M.	4.50	30.79	139.00
2	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.	Cu.M.	8.00	345.61	2765.00
		(c) With river sand or silt (predominantly non plastic) by truck carriage including loading and unloading.				
2.1 PLAIN CEMENT CONCRETE WORKS						
3	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).	Cu.M.	1.00	4292.86	4293.00
		(a) In prop. 1 cement:3 sand : 6 coarse aggregate by volume				


**Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam**

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
		(B) In super-structure from plinth level upto 1st floor level.				
		(i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc.				
		N) Without using admixture, plasticiser				
		b) M20 grade concrete or Prop. 1:1.5:3	Cu.M.	1.00	6241.39	6241.00
		(ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.				
		N) Without using admixture, plasticiser				
		b) M20 grade concrete or Prop. 1:1.5:3	Cu.M.	2.00	6331.46	12663.00
		3.1 TIMBER SHUTTERING (FORMWORK)				
7	3.1.1	Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in:				
	3.1.1.1	Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc.	Sq.M.	8.50	276.07	2347.00
		(b) Using 25mm thick plank				
	3.1.1.2	Sides of tie beams, grade beams etc. at or below ground level.	Sq.M.	12.40	341.90	4240.00
		(b) Using 25mm thick plank				
8	3.3	STEEL SHUTTERING:				
	3.3.1	Providing formwork using 2mm pressed bend shuttering plate of mild sheet and tubular telescopic steel props including centering, shuttering, strutting and propping etc. complete and removal of the same for in situ reinforced concrete and plain concrete work in:				
	3.3.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having plane vertical face	Sq.M.	38.00	116.95	4444.00
	3.3.1.2	Sides and Soffits of Beams, beam haunchings, cantilever girders and bressumers.	Sq.M.	30.00	115.42	3463.00


 Principal
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SI. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
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MASONRY WORKS

9	4.1.1	Providing soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.	Sq.M.	14.00	368.71	5162.00
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(a).Brick on flat soling.

IN SUB-STRUCTURE.

10	4.1.4	Brick work in cement mortar with 1st class brick including racking out joints and dewatering if necessary, and curing complete as directed	Cu.M.	4.00	5860.86	23443.00
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(l) In Sub-structure up to plinth level.

(b). In proportion 1:4.

5.7 TILES WORKS

5.7.1 1. CERAMIC TILES

A) ON FLOOR

11	5.7.1.1	Providing Ceramic Tiles of approved quality, size, shape and thickness not less than 8 mm on floors, skirtings, treads and risers of steps over cement mortar bed 15 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile Choksey /Sika/Pedelite /Rouf) /white cement slurry mixed with approved pigment to match the shade of granite slab, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of slab and as approved and directed by the Department).	Sq.M.	32.00	680.00	21760.00
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a) Normal range (Somany/ Orient/ Nitco /Asian)

i) Of size 300mmx 300mm and above

8.1 ROOFING

12	8.1.33	Providing Pre Painted Galvanized Iron Sheet Roofing (PPGI) at all levels including fitting and fixing with self drilling, self tapping screws complete. (Roof trusses, purlins etc. to be measured and paid separately.)	Sq.M.	35.00	802.77	28097.00
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TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement

(iii) 0.50 mm thick



**Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam**

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
	8.2	ROOF TREATMENT STEEL & IRON WORKS				
	18.1	REINFORCEMENT				
13	18.1.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) a) From Primary Producer: TATA/SAIL/Essex Steel/ Jindal steel/Shyam steel/RINL (ii) Super Ductile (SD) TMT reinforcement bars	Qtl.	2.00	6902.86	13806.00
	18.3	ROOF TRUSS				
14	18.3.1	Providing fitting, hoisting and fixing of roof trusses including purlins fabricated using MS circular hollow section conforming to relevant I.S. code, as per approved design and drawings including providing M.S. cleats, base plates, bolts and nuts and one coat of red oxide Zinc Chromate primer and two coats of approved enamel paints complete including fitting necessary cleats etc. for fixing ceiling joists as per design and drawing as directed. a) TATA make Circular Hollow section- CHS of Grade YST-310 conforming to I.S. Specification : 1161-1998	Qtl.	2.50	8839.00	22098.00
		PLINTH PROTECTION WORKS AND DRAINS				
15	19.1	Providing plinth protection 50mm thick to cement concrete 1 : 3 : 6 with coarse agg. of 20mm nominal size including finishing the surface with 10mm thick cement plaster in proportion 1:3 with a floating coat of neat cement finished.	Sq.M.	28.50	342.80	9770.00


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Lanka, Hojai, Assam


Sl. No.	APWD	Specification of Item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
	2013-14 Item No.					

16	19.4	<p>Providing drain with cement concrete (1:3:6) 10cm thick sides 10cm thick bed over brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shattering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified.</p> <p>i). 300mm wide and average 150mm deep with bed slope 1 in 150 with initial depth of 100mm.</p>	R.M.	15.00	883.38	13251.00
	26.1	PRE CONSTRUCTION ANTI - TERMITES TREATMENT				
17	26.1.3	<p>Pre construction anti - termite treatment by applying in the entire levelled area after plinth filling and before laying floor by applying the emulsion @ 5 (five) litres per square meter of the surface to be spread with light rodding so as to ensure proper absorption by the filled up earth (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.</p> <p>a) with aqueous emulsion having concentration 1:19 with chloropyrophose solution (trical or equivalent) and water, i.e. 1% solution.</p>	Sq.M.	35.00	77.09	2698.00
18	26.1.4	<p>Supplying, fitting and fixing anodised aluminium decorated grill with anodised aluminium rectangular frame of 'F' and 'H' section fitted with walls, columns or stiffeners by special type of screws as per specification by the Department for all levels. (Aluminium Alloy procured from primary aluminium producer (On submission of certificate of alloy purchasing from primary producer)</p>	Sq.M	38.00	2098.22	79732.36

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Lanka, Hojai, Assam**

Sl. No.	APWD 2013-14 Item No.	Specification of item of works	Unit	Abstract of Quantities	Rate as per S.O.R.	Estimated Amount
19	8.1.23	Providing corrugated 1.20 mm thick transparent fibre sheet roofing including fitting and fixing necessary galvanised J or L hooks, bolts and nuts of 8 mm dia with bitumen washer 25 mm dia. X 3 mm thick and 1.6 mm thick limpet washer complete excluding cost of roof truss, purlins etc. (Roof trusses, purlin, etc. to be measured and paid separately).	Sq.M	35	1319.67	46188.45
20	8.1.27	Providing Iron Plastic Laminated corrugated coloured sheet Roofing at all levels including fitting and fixing galvanised J or L hooks, bolts and nuts of 8 mm diameter with Bitumen washer 35 mm x 35 mm x 3 mm and G.I. Diamond washer 40 mm x 40 mm x 3 mm complete excluding cost of roof truss, purlins etc. (Roof trusses, Purlins etc. to be measured and paid separately).				
		(d) 0.65 mm thick	Sq.M	24.00	575.41	13809.84
					=Rs.	<u>349961.65</u>



Signature of the Architect.

Date: 01/03/2019

Dhrubajyoti Das
B. Tech (Civil Engineering)
GMDA/RTP/2015/ENG-122/2



Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam

LANKA MAHAVIDYALAYA
LANKA, ASSAM
SUMMARY FOR

**RENOVATION/ UPGRADATION OF SEMINAR HALL, COLLEGE CAMPUS,
LIBRARY, CLASSROOMS, TOILET, CANTEEN**

1. SEMINAR HALL	Rs.	3,04,000.00
2. COLLEGE CAMPUS	Rs.	19,09,000.00
3. LIBRARY	Rs.	13,25,000.00
4. CLASSROOM	Rs.	16,40,000.00
5. TOILET	Rs.	2,88,000.00
6. CANTEEN	Rs.	90,000.00
ADD CONTINGENCY 1%	Rs.	55,560.00
ADD GST (12-5)%	Rs.	3,88,920.00
TOTAL		Rs. 60,00,480.00
SAY,		Rs. 60,00,000.00 (Rupees Sixty Lakh Only)

BASIS OF ESTIMATE


Schedule items : Prepared on the basis of APWD Schedule of Rates for Buildings (Civil works/Sanitary Fittings and Water Supply & Electrical Works) 2013-14 and prevailing market rates.


Principal
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Lanka, Hojai, Assam


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GMDA/RTP/2018/22/2

LANKA MAHAVIDYALAYA						
LANKA, ASSAM						
Detail Estimate for Renovation/ Upgradation of the Seminar Hall						
SI No.	Item No.	Description	Unit	Qty	Rate	Amount
Acoustic Treatment						
1	31.4	Supplying, fitting and fixing SoundSmooth MB White (NSS White) with glass wool of Anutone Acoustics Ltd. Including all fixtures and fittings. 20 MM	Sq M	45.5	Rs 3,168.78	Rs 1,44,179.49
2	31.14 31.14.3	ARMSTRONG ACOUSTICAL CEILING Providing & fixing Armstrong Mineral fibre Acoustical suspended ceiling system with optra FG (board/tegular) edge tiles with armstrong XL 24mm exposed grid (600x600x15)mm	Sq M	42	Rs 3,801.93	Rs 1,59,681.06
TOTAL						Rs 3,03,860.55
Say,						Rs 3,04,000.00


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Detail Estimate for Renovation/ Upgradation of Campus Development

S.No.	APWD 2013-14 Item No.	Description	Unit	Qty	Rate	Amount
1	1.4	Raising low site around the building with approved soil obtained from outside by truck carriage including breaking clods, dressing etc. complete including paying necessary forest royelty, sales tax, land compensation, municipal gate fees, if any monopoly duty etc. (profile measurement to be taken and 12.5% deduction for shrinkage to be made from total quantity) etc. complete as directed and specified.				
		(b) Other than Guwahati city for Road	Cum	200	210.20	42040.00
2	2.1.2	Plain cement concrete floor base in prop 1:3:6 laid in alternate bays as specified with coarse agg. of size 13mm to 32mm including dewatering if necessary, and curing etc. complete.				
		b) 50mm thick	Cum	60	253.28	15196.80
3	2.2.1	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)				
		Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level.				
		a) M15 grade concrete or Prop. 1:2:4, without admixture	Cum	45	5496.65	247349.25
4	3.1.1	Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in:				
		Sides of tie beams, grade beams etc. at or below ground level. (b) Using 25mm thick plank	Sqm	52.5	341.90	17949.75
5	18.1.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete.				
		b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) (For Assam Type Bldg., drain works., retaining wall & boundary wall etc. .	Qll	8	6026.82	48214.56
6	30.1	SUB-GRADE				
		Construction of Sub-grade and earthen shoulders with approved materials obtained from borrow pits, with all lifts & leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2 (including compensation of earth). (Including cost of testing of materials at site and laboratory as directed by the deptt.)				
		b) from Government land	Cum	136	245.00	33320.00


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7	30.2	Construction of Granular sub-base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per Clause 401 of MoRTH specifications (with an initial lead of 5 km) (including cost of testing of materials at site and laboratory as directed by the deptt.)				
		(a)Using Grading I material	Cum	140	2050.00	287000.00
8	30.7	Providing and laying of inter locking concrete block pavement (ICBP) with cement concrete paver blocks as per IS 15658-2006 of thickness 80mm and 28 days compressive strength not less than 30 N/m over a layer of bedding sand of compacted thickness 30mm, laid either in stretcher/ running/ herringbone pattern of bonds as directed by the engineer and in proper level and grade and compacted with appropriate equipment such as plat vibrator along with spreading of a thin layer of joint filling sand to fill up the gaps between blocks including construction of edge restraint wherever required complete as per drawings and Technical specification clause 1504 of MORD.	Sqm	865	1100.00	951500.00
9		Vegetation Clearance and Dismantling works	L/S	-	-	10000.00
10	20.1	Supplying and dibbling of selected lawn grass [Doob grass (Cynodon dactylon), cushion grass (Axonopus affinis)] after preparing the land by ploughing / working to a depth of 40 - 45 cm, removing of all unwanted debris (rubbles, pebbles, plant roots etc.), mixing of organic manure(10kg - 15kg/sq.m), levelling the surface and initial maintenance by proper and periodic rolling, mowing and irrigation etc. (as specified) for a period of six months from the date of dibbling including the application of recommended dose of fertilizers(N:P:K) mixture as specified and directed by the department.				
		(b) By Carpet grass (Axonopus affinis)	Sqm	225	335.04	75384.00
11	20.6	Supplying and planting of seasonal flower in required size of pot including filling the pot to the top surface with appropriate soil media made of garden soil, river sand, cowdung, leaf mould, fertilizer, pesticides as per specification and necessary maintenance for a period of 4 months from the date of planting complete as specified and directed . (Mixing of different ingredients of soil media to be made in presence of Deptt. official / Specialist concerned)				
		(l) Using earthen pot of 30 cm dia.	Each	240	184.38	44251.20
12	33.1.2	RAINWATER HERVESTING SYSTEM Providing,Fixing, testing &Commissioning of Rain water Hervesting system for 100 sq.mt roof area with 180 mm uPVC Gutter of Class-3 conforming to IS:4985-200 (with uptodate amendment) with extra UV ray protection by Titanium Dioxide(TiO2) along the outer periphery of the GCI/Diana roof ,110 mm UPVC pipe directing the Rainwater to Rainy filter/Pop-up raintap filter (Excluding Civil Works)	Each	1	106000.00	106000.00
13	33.1.3	Water storage tank ISI Marked, conforming to IS:12701/1996 (with uptodate amendment)	Ltr	500	12.00	6000.00
13		Miscellaneous	L/S	-	-	25000.00
TOTAL						1909205.56
SAY, Rs.						1909000.00


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Detail Estimate for Renovation/ Upgradation of Library

Sl. No.	APWD 2013-14 Item No	Description of Item	Unit	Qty	Rate	Amount
ROOM TILES						
1	23.15	Demolishing CC floors of various thickness including top layer and base course and disposal of debris as directed for all levels.	Sqm.	200.00	102.60	20520.00
2	5.7.2.1	Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 18mm on floors, skirtings, risers and treads of steps over 15 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department) a) Normal range Somany/ Orient/Nitco /Varmora/VITA/ Marbitto/ Make ii) Of size 600mmx600mm and above	Sqm.	200.00	1483.13	296626.00
PAINT						
3	13.1.1 (a)	Removing white or colour wash by steel wire brushing and/ or scraping, sand papering and preparing the wall surface smooth including necessary repairs to scratches complete.	Sqm.	600.00	13.57	8142.00
	13.2.2	c) Applying one coat of distemper primer of approved brand and manufacture on wall surface after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	Sqm.	200.00	35.17	7034.00
	13.4.7	Wall painting (two coats) with Plastic emulsion paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth. (a).Plastic Emulsion Paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	Sqm.	400.00	76.99	30796.00
ALUMINIUM PARTITION						
4	11.4.2	Providing, fitting and fixing anodised aluminium partition walls of standard sections of approved brand, joints mitred and welded (manufactured to relevant I.S. specification) and providing and fitting angle cleat, rubber gasket, bolting device screws etc. at all levels.				
		(i)Partly 6mm thick glass panes and 12mm prelaminate board	Sqm.	155.00	3586.86	555963.30
DECORATIVE DOOR						
5	11.5.1	Providing, fitting and fixing anodised aluminium framed glazed door with partition walls of standard sections of approved brand, joints mitred and welded (manufactured to relevant I.S. specification) and providing and fitting angle cleat, rubber gasket, bolting device screws etc. at all levels. (ii) 6mm clear glass and 12 mm Prelaminated board	Sqm.	18.00	3689.31	66407.58
		Supplying, fitting, fixing and painting where necessary (one coat primer and two coats of paint) M/F Suspended Ceiling which includes G.I. perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling, screw fixed to brick wall/ partition with the help of nylon sleeves and screws, at 610mm c/c. Then suspending G.I. intermediate channels of size 45mm (0.9mm thick with two equal flanges of 15mm each) from the soffit at 1220mm c/c with ceiling angle of width 25mmx10mmx0.55mm thick fixed to soffit with G.I.cleat and steel expansion fasteners.				


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6	7.2.1	Ceiling section of 0.55mm thickness having knurled web of 51.5mm and two equal flanges of 26mm each with lips of 10.5mm are then fixed to the intermediate channel with the help of connecting clip and in direction perpendicular to the intermediate channel at 457mm c/c. 9.5mm/ 12.5mm tapered edge Gypboard (conforming to IS:2095-1982) is then screw fixed to ceiling section with 25mm long drywall screws at 230mm c/c. Screw fixing is done mechanically either with screw driver or drilling machine with suitable attachment. Finally, the boards are to be jointed and finished so as to have a flush look which includes filling and finishing the tapered and square edges of the boards with jointing compound, joint paper tape and two coats of drywall topcoat suitable for Gypboard complete at all levels as specified and directed. (For light fittings, providing opening for doors, window, ventilators etc, cut out made with frame of perimeter channel supported suitably to be measured and paid separately where necessary). 9.5mm thick	Sqm.	200.00	1214.80	242960.00
7	10.3	Supplying, fitting and fixing anodised aluminium decorated grill with anodised aluminium rectangular frame of 'F' and 'H' section fitted with walls, columns or stiffeners by special type of screws as per specification by the Department for all levels. (Aluminium Alloy procured from primary aluminium producer (On submission of certificate of alloy purchasing from primary producer)	Sqm.	10.00	2098.22	20982.20
8		Miscellaneous	L/S			25000.00
						1274431.08
9	Electrification (Internal and External)		4%			50,977.24
						TOTAL 13,25,408.32
						SAY, Rs. 13,25,000.00


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Detail Estimate for Renovation/ Upgradation of Classrooms

S.No.	APWD	Description	Unit	Qty	Rate	Amount
	2013-14 Item No.					
1	5.1	CEMENT CONCRETE FLOORING	Sq.M	250.00	841.63	210407.50
	5.2.1	Pre-cast cement concrete tiles 20 mm thick with aggregate of sizes up to 6 mm laid in floors, treads of steps and landing with 20 mm thick bed of cement mortar in prop. 1:6 (1 cement : 6 coarse sand) joined with neat cement slurry with pigment to match the floor.				
2	8.1	ROOFING	Sq.M.	200.00	836.74	167348.00
	8.1.33	Providing Pre Painted Galvanized Iron Sheet Roofing (PPGI) at all levels including fitting and fixing with self drilling, self tapping screws complete. (Roof trusses, purlins etc. to be measured and paid separately.) TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (iii) 0.50 mm thick				
3	8.1.29	Providing circular corrugated / trouhed Everlast Aluminium roofing sheet of Aluminium Alloy procured from primary aluminium producer (On submission of certificate of alloy purchasing from primary producer) including fitting and fixing necessary J or L hooks bolts and nuts 8 mm dia with bitumen / EPDM washer 25mm dia x 3mm thick and 1.6mm limplet washer complete excluding cost of truss, purlin etc. (b) 0.50mm thick	Sq.M	50.00	734.15	36707.50
4	9.0	WOOD WORKS	Cu.M.	9.50	49716.53	472307.00
	9.1.2	Providing wood work in frame (chowkaths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embedded in cement concrete block in proportion 1:2:4 and with two coats of kircide oiling to the timber faces in contact with C.C and masonry as directed and specified. (d) With Bola timber				
5	9.12	BLOCK BOARD SHUTTERS	Sq.M.	25.00	2114.71	52867.75
	9.12.1	Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevent I.S code including oxidised iron butt hinges (100mm x 75mm x 3.5mm) 6 nos with necessary wood screws. b) Non decorative type and block board core. (iii) 30 mm thick				
		a) Decorative type face panel and block board core. (ii) 35mm thick				
6	13.3	PLASTER OF PARIS & WALL PUTTY	Sq.M.	125.00	50.20	6275.00
	13.3.4	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) (ii) Thickness = 1.0 mm thick				
	13.2.2	DISTEMPERING	Sq.M	800.00	7.64	6112.00
		a) Removing dry or oil bound distemper by washing and scraping and sand papering the wall surface smooth including necessary repairs to scratches complete.				


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6		f) Distemporing with dry distemper of approved brand and manufacture (two coats) and of required shade on new wall surface to give an even shade, over and including priming coat of white primer after thoroughly brushing the surface free from mortar droppings and other foreign matter and including preparing surface even and sand papered smooth.	Sq.M.	900.00	78.37	70533.00
	13.6	PAINTING ON WOOD AND WOOD WOOD BASED SURFACES				
	13.6.3	Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter, sand papering and knotting. (b). With ready mixed paint, wood primer (white).	Sq.M.	350.00	36.90	12915.00
	13.6.5	Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping. (i). Surfaces over 100mm in width or girth. b). High gloss (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	Sq.M.	350.00	73.00	25550.00
7	15.2	ALUMINIUM FITTINGS				
	15.2.1	Supplying, fitting, fixing anodised aluminium fittings of approved make, reasonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete. (anodised to bright natural matt & satin finished)				
		a) Sliding door bolts	Each	95	272.17	25856.00
		i) 300mm x 16mm				
		b) Tower bolts	Each	95	121.86	11577.00
		ii) 250mm x 12mm				
c) Door handles		Each	90	42.43	3819.00	
	iii) 150mm					
	t) Door stopper with rubber stopper	Each	5	85.81	429.00	
8	7.2	GYPSUM BOARD CEILING				
	7.2.1	Supplying, fitting, fixing and painting where necessary (one coat primer and two coats of paint) M/F Suspended Ceiling which includes G.I. perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling, screw fixed to brick wall/ partition with the help of nylon sleeves and screws, at 610mm c/c. Then suspending G.I. intermediate channels of size 45mm (0.9mm thick with two equal flanges of 15mm each) from the soffit at 1220mm c/c with ceiling angle of width 25mmx10mmx0.55mm thick fixed to soffit with G.I. cleat and steel expansion fasteners. (i) 9.5mm Thick	Sq.M	315.00	1214.80	382662.00
9	Miscellaneous				25000.00	
						1540271.45
10	Electrification (Internal and External) 4%				61610.86	
11	Water Supply and Sanitation 2.5%				38506.79	
TOTAL						1640389.09
Say,						Rs. 16,40,000.00


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Detail Estimate for Renovation/ Upgradation of Toilet Block

S.No.	APWD 2013-14 Item No.	Description	Unit	Qty	Rate	Amount
1	5.1	CEMENT CONCRETE FLOORING				
	5.1.1	Cement concrete works in topping 1:1:2 (1cement :1sand :2 graded aggregates on R.C.C floor, tread and rise of steps finished with a floating coat of neat cement using cement slurry for bond @ 2.75 kg.of cement per sq. m. of floor to be laid in panels including curing complete as directed. (b) 20 mm thick	Sq.M	50	270.39	13519.50
2	5.7.2	VITRIFIED TILES ON FLOORS				
	5.7.2.1	Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 18mm on floors, skirtings, risers and treads of steps over 15 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department)				
		a) Normal range Somany/ Orient/Nitco /Varmora/VITA/ Marbitto/ Make ii) Of size 600mmx600mm and above	Sq.M	40	1483.13	59325.20
		B) ON WALLS				
		Providing polished vitrified wall tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirtings over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf)/white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (coloured pigment should be in conformity with colour of tiles and as approved and directed by the department). i) Of size 300mmx450mm and above	Sq.M	32	1311.67	41973.44
3	9.12	BLOCK BOARD SHUTTERS				
	9.12.1	Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevent I.S code including oxidised iron butt hinges (100mm x 75mm x 3.5mm) 6 nos with necessary wood screws. b) Non decorative type and block board core. (iii) 30 mm thick	Sq.M.	7.00	2114.71	14802.97
	13.2.2	DISTEMPERING a) Removing dry or oil bound distemper by washing and scraping and sand papering the wall surface smooth including necessary repairs to scratches complete. f) Distempering with dry distemper of approved brand and manufacture(two coats)and of required shade on new wall surface to give an even shade, over and including priming coat of white primer after thoroughly brushing the surface free from mortar dropings and other foreign matter and including preparing surface even and sand papered smooth.	Sq.M	185.00	7.64	1413.40
	13.2.2		Sq.M.	185.00	78.37	14498.00
4	13.6	PAINTING ON WOOD AND WOOD WOOD BASED SURFACES				
	13.6.3	Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter , sand papering and knotting. (b). With ready mixed paint , wood primer (white).	Sq.M.	50.00	36.90	1845.00


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13.6.5	Painting two coats (excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping	Sq.M.	50.00	73.00	3650.00	
	(i) Surfaces over 100mm in width or girth.					
15.2	ALUMINIUM FITTINGS					
5	15.2.1	Supplying, fitting, fixing anodised aluminium fittings of approved make, reasonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)				
		a) Sliding door bolts	Each	10	272.17	2722.00
		i) 300mm x 16mm				
		b) Tower bolts				
		ii) 250mm x 12mm	Each	10	121.86	1219.00
	c) Door handles					
	iii) 150mm	Each	10	42.43	424.00	
6	DISMANTLING WORKS	L/S			10000.00	
7	1.1	INDIAN TYPE WATER CLOSET				
		Providing fitting and fixing vitreous water closet squatting pan (Indian type W.C Orissa pattern) with all fittings and fixtures complete including cutting and making good to the walls and floors wherever required. (Flushing Cistern to be paid separately)	Each	2	3500.00	7000.00
		Parryware/ Hindware/ Jaquar make				
	1.2	EUROPEAN TYPE WATER CLOSE				
		Providing fitting and fixing vitreous china pedestal type water closet (European type W.C pan 400mm high) with seat and lead ,CP brass hinges and rubber buffers , CI/MS brackets , 40 mm dia flush band with fittings including painting of fittings and brackets, required. (Flushing Cistern to be paid separately)	Each	2	6359.27	12718.54
		a) Parryware make				
		(i) Universal Closet S Trap (Cat No.C0271) (Anglo Indian) (inclusive of seat cover)				
	1.6	CONCEALED CISTERN				
		Supplying, fitting and fixing concealed cistern with all internal fittings with CI brackets including fitting and fixing standard size CP flush pipe, union clamps etc. complete as directed and specified (pipes will be measured separately)	Each	6	10069.89	60419.34
		(B) Hindware Make				
	(ii) Concealed Cistern 120mm with Slender flush plate 120mm					
1.8	Providing fitting and fixing vitreous china flat back type lipped front urinal basin with standard flush pipe and CP brass spreader and brass unions, etc. complete including painting of fittings and brackets, cutting and making good the walls & floors wherever required.					
	(A) Parryware Make	Each	2	2915.00	5830.00	
	(iii) Niagara (Cat. No.C0504)					
1.9	SQUATING PLATE URINAL					
	Providing fitting and fixing vitreous china squatting plate urinal with automatic flushing cistern with standard flush pipe and CP brass spreader and brass unions, etc. complete including painting of fittings and brackets, cutting and making good the walls & floors wherever required.	Each	4	3156.88	12627.52	
	(A) Parryware Make					
8	Miscellaneous works	L/S			5000.00	

Electrification External 2%

Electrification Internal 4%

Water Supply and other Sanitation 5%

268987.91

5379.76

10759.52

13449.40

287817.06

Say,

Rs.

2,88,000.00


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Detail Estimate for Renovation/ Upgradation of Canteen

Sl. No.	APWD 2013-14 Item No.	Description of Item	Unit	Qty	Rate	Amount
1	5.10.1	Providing polished granite tiles of approved quality, size and shape and thickness not less than 8mm, on walls over 15mm thick, cement mortar bed in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary, finished with flush pointing on wall with ordinary cement slurry mixed with approved pigment to match shade of tiles, complete at all levels as specified and directed.	Sq.M	6	1157.36	6944.16
2	5.9.1	18 mm thick Marble stone slab flooring of sizes 1200x1200 including treads and risers of steps, skirting, laid over 20 mm thick base of cement plaster 1:6 (1 cement : 6 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with marble slab of specified quality and shade at all levels- Rajnagar slab	Sq.M	8	1610.84	12886.72
3	5.7.1	Providing Ceramic Tiles of approved quality, size, shape and thickness not less than 8 mm on floors, skirtings, treads and risers of steps over cement mortar bed 15 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with fix-A Tile Choksey/ Sika/ Pedelite/ Rouf/ White cement slurry mixed with approved pigment to match the shade of granite slab, complete at all levels as specified and directed (coloured pigment should be in conformity with colour of slab and as approved and directed by the Department). Normal range Somany/ Orient/Nitco /Asian Make Of size 400mmx400mm and above.	Sq.M	50	720.00	36000.00
4	5.7.1.2	Providing polished ceramic wall tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirtings over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey / Sika / Pedelite / Rouf) /white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (Cement plastering to be measured and paid separately). (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department). (Walls means both interior and exterior walls). b) Executive range Somany/ Orient/Nitco/Asian Make i) Of size 200mmx300mm and above.	Sq.M	30	715.00	21450.00
5	13.2.2	a) Removing dry or oil bound distemper by washing and scraping and sand papering the wall surface smooth including necessary repairs to scratches complete.	Sq.M	90	7.64	687.60
		f) Distemping with dry distemper of approved brand and manufacture(two coats)and of required shade on new wall surface to give an even shade, over and including priming coat of white primer after throughly brushing the surface free from mortar dropings and other foreign matter and including preparing surface even and sand papered smooth.	Sq.M	90	78.37	7053.30
6		Miscellaneous	L/S	-	-	5000.00
Total						90021.78
Say, Rs.						90,000.00



**Principal
Lanka Mahavidyalaya
Lanka, Hojai, Assam**



**Dhrubajyoti Das
B. Tech (Civil Engineering)
GMDA/RTPI/2015/ENG-122/2**

**DETAIL ESTIMATE FOR
NEW EQUIPMENTS
OF LANKA MAHAVIDYALAYA
LANKA, ASSAM**

SUMMARY OF ESTIMATE

1	LABORATORY EQUIPMENTS		
	A) PHYSICS	Rs.	1,00,000.00
	B) CHEMISTRY	Rs.	1,00,000.00
	C) BIOLOGY	Rs.	1,00,000.00
	D) HOME SCIENCE	Rs.	1,00,000.00
2	GYM EQUIPMENTS	Rs.	12,30,000.00
3	SPORTS ITEMS	Rs.	65,000.00
4	BOOKS	Rs.	2,35,000.00
5	WIFI ENABLING	Rs.	95,000.00
6	COMPUTERS	Rs.	10,50,000.00
7	VIDEO CONFERENCE	Rs.	2,00,000.00
8	ELECTRIFICATION : GENERATOR	Rs.	6,85,000.00
			<hr/>
	(+)	Rs.	39,60,000.00
	ADD. CONTINGENCY 1%	Rs.	39,600.00
			<hr/>
	TOTAL	Rs.	39,99,600.00
			<hr/>
	SAY,	Rs.	40,00,000.00
			(Rupees Forty Lakh only)

BASIS OF ESTIMATE

Schedule items : Prepared on the basis of Prevailing Market Rate.


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Lanka, Hojai, Assam**


**Dhrubajyoti Das
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GMDA/RT P/2015/ENG-122/2**

LANKA MAHAVIDYALAYA

LANKA, ASSAM

Estimate of Physics Laboratory Equipments

Sl. No.	Description of the item	Approx. Amount in Rs.
1	Spring Balance	
2	Thermometre	
3	Steel balls	
4	Pully with frame	
5	Rod with holders	
6	Banana clips	
7	Fuse	
8	Resistor sets	
9	Magnetic compass	
10	Colour disc	
11	Transperent PVC Tube	
12	LED Lights	
13	Circuit Board	
14	Turning fork	
15	Glazed glass Sheet	
16	Plane Mirror	
17	G-Clamp	
18	Concave and Convex mirror and lens	
19	Resistent box	
20	Galvanometre .	
21	Stop Watch	
22	Rheostate	
TOTAL		1,00,000.00


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LANKA MAHAVIDYALAYA

LANKA, ASSAM

Estimate of Chemistry Laboratory Equipments

Sl. No.	Description of the item	Approx. Amount in Rs.
1	Cube Vessels	
2	Tripod Stand	
3	Plastic Funnels	
4	Filter paper	
5	Measuring Cylinder	
6	China dish	
7	Wash Bottle	
8	Test tube brush	
9	Test tube holder	
10	Test tube	
11	Beaker	
12	Glass tube	
13	Watch glass	
14	Test tube stand	
15	Wire gauge	
TOTAL		1,00,000.00


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LANKA MAHAVIDYALAYA

LANKA, ASSAM

Estimate of Biology (Zoology and Botany) Laboratory Equipments

Sl. No.	Description of the item	Approx. Amount in Rs.
1	Compound Microscope	
2	Knife	
3	Surgical Scissor	
4	Magnifying glass	
5	Vessels	
6	Propagation kit	
7	Leaf collection Mounded	
8	Molecular model kit	
9	Plant dicot flower	
10	Enzymes in seed kit	
11	Conical Flask	
12	Microscope slide	
13	Watch glass	
14	Margining cylinders	
15	Tearing needles	
16	Dropper Small and Medium	
17	Bug Box	
TOTAL		1,00,000.00


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LANKA MAHAVIDYALAYA

LANKA, ASSAM

Estimate for Home Science Equipment

Sl. No.	Description of the item	Approx. Amount in Rs.
1	Containers	
2	Sauce Pan with Lid	
3	Fry Pan	
4	Tava (Black Diamond)	
6	Parrat	
7	Grater (Multipurpose)	
8	Patila with Lid	
9	Masala Dabba	
10	Chimta	
11	Jhara	
12	Kadchhi	
13	Knife	
14	Peeler	
15	Chamcha	
16	Cutlery Set	
17	Chakla Belan	
18	Kadahi with Lid	
19	Dinner set Steel	
20	Bucket	
21	Dustbin	
22	Tub	
23	Pressure Cooker	
24	Lighter	
25	Tray	
26	Crockeries	
27	Other dani's	
28	Stiching Material	
29	Channi	
30	Gas Chula with Cylinder	
TOTAL		1,00,000.00


Principal
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Lanka, Hojai, Assam


Dhrubajyoti Das
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GMDA/RTP/2013/ENG-122/2

LANKA MAHAVIDYALAYA**LANKA, ASSAM****Estimate of Gym Equipments**

Sl. No.	Description of the item	Approx. Market Rate (in Rupees)	Unit	Quantity	Amount (in Rupees)
1	Multi Gym	109000.00	No.s	1	109000.00
2	Motorised Treadmill	153500.00	No.s	2	307000.00
3	Spin Bike	29000.00	No.s	2	58000.00
4	Cross Trainer	132000.00	No.s	1	132000.00
5	Preacher curl	30000.00	No.s	1	30000.00
6	Multi Bench	15000.00	No.s	2	30000.00
7	Flat Bench	15000.00	No.s	3	45000.00
8	Sit Up Bench	9000.00	No.s	1	9000.00
9	Smith Machine	96100.00	No.s	1	96100.00
11	Leg Press	130000.00	No.s	1	130000.00
12	Dumbbell Reek	11800.00	No.s	3	35400.00
13	Back Extension	25300.00	No.s	1	25300.00
14	Dumbbell	150.00	Kg	600	90000.00
15	Plate	150.00	Kg	610	91500.00
16	Bar		Sizes	Each	4450.00
17	Boxing Bag	3300.00	No.s	1	3300.00
18	Yoga Mat	600.00	No.s	6	3600.00
19	Push up Bar	800.00	No.s	5	4000.00
20	Kettle bell	400.00	Kg	66	26400.00
TOTAL					1230050.00
				SAY,	Rs. 1230000.00


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Lanka, Hojai, Assam


Dhrubajyoti Das
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LANKA MAHAVIDYALAYA**LANKA, ASSAM****Estimate of Sports items**

Sl. No.	Description of the item	Approx. Market Rate (in Rupees)	Unit	Quantity	Amount (in Rupees)
1	Cricket Bat SG	1500.00	Each	4	6000.00
2	Cricket Stump KSM	100.00	Each	8	800.00
3	Tennis Ball Stumper	50.00	Each	10	500.00
4	Badminton Racquet Yonex GR303	400.00	Each	8	3200.00
5	Shuttle cock Yonex Mavis 350	725.00	Box	2	1450.00
6	Badminton Net	600.00	Each	1	600.00
7	TT Board Stag	21000.00	Each	1	21000.00
8	Football Nivia	490.00	Each	4	1960.00
9	Goalkeeper Gloves	650.00	Pair	4	2600.00
10	Carrom Board Precise	5700.00	Each	4	22800.00
11	Volley Ball Nivia	670.00	Each	4	2680.00
12	Volley Ball Net	1000.00	Each	1	1000.00
TOTAL					64590.00
					SAY, Rs. 65000.00


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LANKA MAHAVIDYALAYA**LANKA, ASSAM****Estimate of Books**

Sl. No.	Description of the item	Approx Market Rate (in Rupees)
1	Books for History	
2	Books for Education	
3	Books for Humanities	
4	Books for Political Science	
5	Books for Physics	
6	Books for Chemistry	
7	Books for Biology	
8	Books for Mathematics	
9	Books for Home Science	
10	Books for Hindi	
11	Books for English	
12	Books for Assamese	
13	Books for Economics	
14	Books for Management	
15	Books for Accountancy	
16	Books for Philosophy	
17	Books for Commerce	
18	Books for General Studies	
19	Encyclopedia	
20	Books for Computer Science	
21	Kindle book with carrying	
22	Journal	
23	Novels	
24	Other Ancillary Books	
TOTAL		235000.00


Principal
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Lanka, Hojai, Assam


Dhrubajyoti Das
B. Tech (Civil Engineering)
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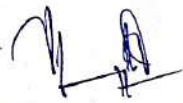
LANKA MAHAVIDYALAYA

LANKA, ASSAM

Estlmate of WIFI Enabling

Sl. No.	Description of the item	As Per Prevalling Market Rate (L/S)	Unit	Quantity	Amount (in Rupees)
1	Router for Internet Connection	4500.00	Each	1	4500.00
2	Server System	50000.00	Each	1	50000.00
3	Server Protection	18500.00	Each	1	18500.00
4	Distribution Hub	3500.00	Each	4	14000.00
5	Fitting and Installation		L/S		4000.00
6	Other Ancillary Equipments		L/S		4000.00
TOTAL					95000.00


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LANKA MAHAVIDYALAYA

LANKA, ASSAM

Estimate of Computer Sets

Sl. No.	Description of the item	Approx. Market Rate (in Rupees)	Unit	Quantity	Amount (in Rupees)
1	Desktop set: Configuration (Intel i3 7th Gen, Gigabite Motherboard 250, 4 GB DDR4 RAM, 1TB HDD, LG DVD Writer, Frontech ATX cabinet, Acer 18.5" LED Monitor, Logitech MK-200 combo, APC 600VA UPS)	35,000.00	per Set	30	1050000.00
TOTAL					1050000.00
					SAY, Rs. 1050000.00


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Lanka, Hojai, Assam


Dhrubojit Das
B. Tech (Computer Engineering)
GMDA/RTP/2015/ENG-122/2


LANKA MAHAVIDYALAYA

LANKA, ASSAM

Estimate of Video Conference

Sl. No.	Description of the item	As Per Prevailing Market Rate (L/S)	Unit	Quantity	Amount (in Rupees)
1	50" Samsung Full HD LED TV	46990.00	Each	1	46990.00
2	Projector: Epson EB-S41 with HDMI	31990.00	Each	2	63980.00
3	Projector Screen	5000.00	Each	3	15000.00
4	Woofers	3500.00	Each	3	10500.00
5	Speakers with Fitting and Installation	1250.00	Each	10	12500.00
6	Sound System with Mic set	40000.00	Each	1	40000.00
7	Other Ancillary Equipments		L/S		10000.00
TOTAL					198970.00
				SAY,	Rs. 200000.00


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Dhruvrajoti Das
B. Tech (Electrical Engineering)
GMDA/RTP/2015/ENG-122/2

LANKA MAHAVIDYALAYA

LANKA, ASSAM

Estimate of Electrification

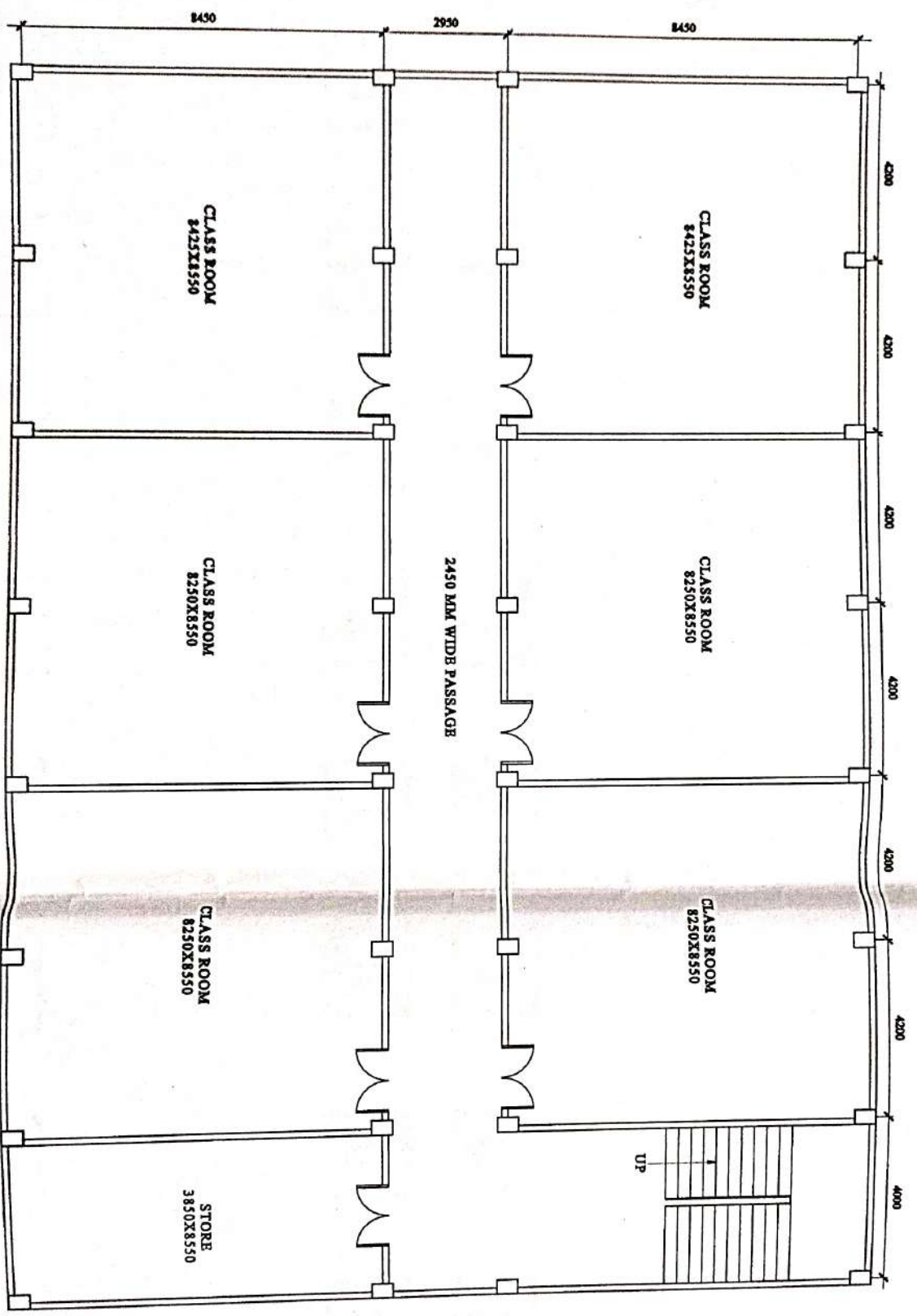
Sl. No.	Description of the item	Approx. Market Rate (in Rupees)	Unit	Quantity	Amount (in Rupees)
1	Kirloskar Genset 30 KVA 3Phase Diesel Generator, Voltage 415V	360000.00	Each	1	360000.00
2	Kirloskar Genset 15 KVA	285000.00	Each	1	285000.00
3	Fittings and Fixing of Genset	20000.00	Each	2	40000.00
TOTAL					685000.00

(Rupees Fifteen Lakh Only)


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Lanka, Hojai, Assam


Dhrubajyoti Das
B. Tech (Civil Engineering)
GMDA/RTP/2015/ENG-122/2

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REV	DATE	REVISION PARTICULARS	SIGN

LANIKA MAHAVIDYALAYA

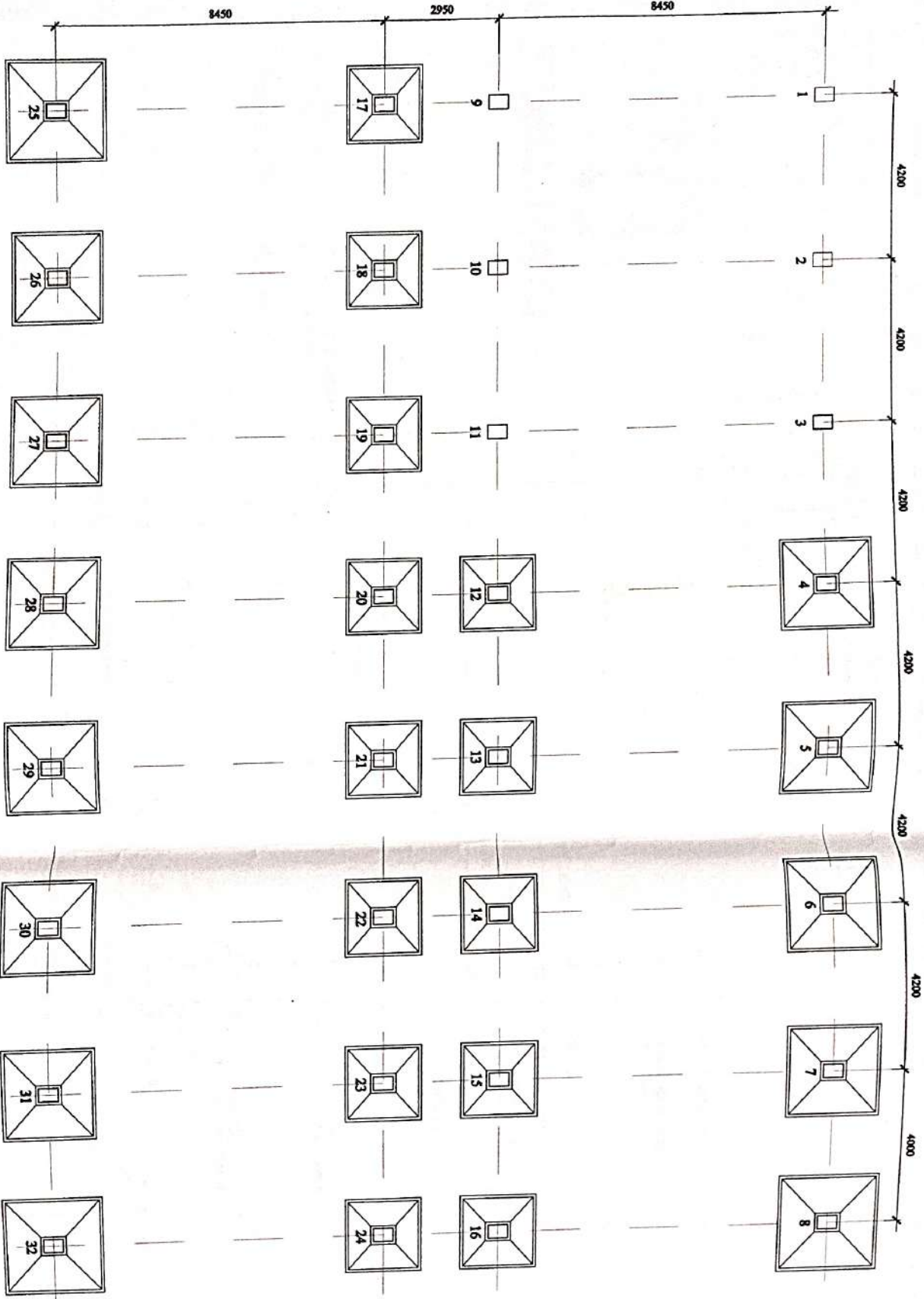
WORKS:
 PROPOSED BGC SCIENCE BLOCK AT LANIKA,
 ROYAL ASHALL, PDR-78244

DRAWING:
 GROUND FLOOR PLAN
 AREA = 579.42 Sq.m OR 624.71 Sq.ft

DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-05-19	SCALE TO FIT	A-01

REV-00

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REV	DATE	REVISION PARTICULARS	SIGN

LANKA MAHAVIDYALAYA

WORK:-
PROPOSED UGC SCIENCE BLOCK AT LANKA,
SRI LANKA. (P/2015/ENG-12212)

DRAWING:-

LAYOUT OF FOUNDATION & FOOTING

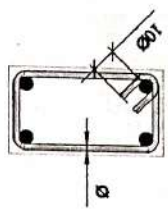
DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-01-19	SCALE TO FIT	S-01
				REV-00

Dhundayon Das

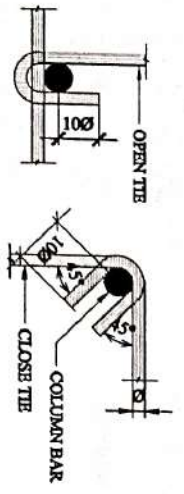
Principal
Lanka Mahavidyalaya
Lanka, Hotal, Assan
B. Tech (Civil Engineering)
GMDW/RT/P/2015/ENG-12212

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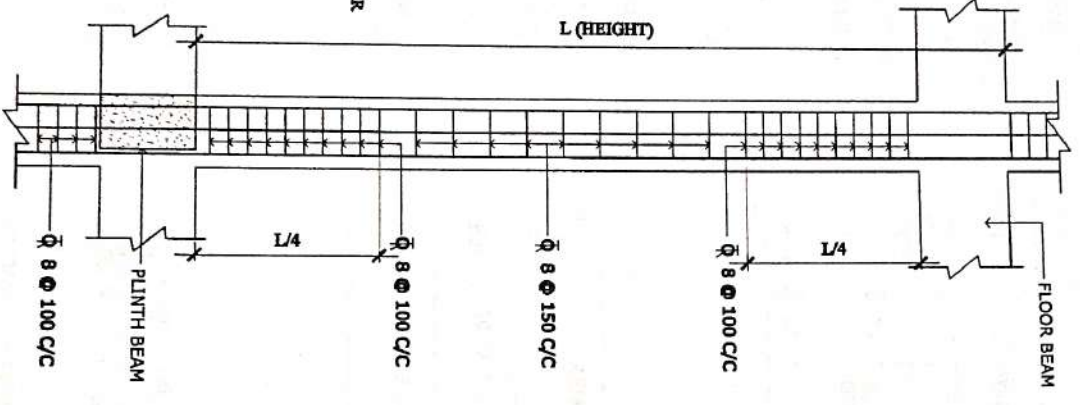
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



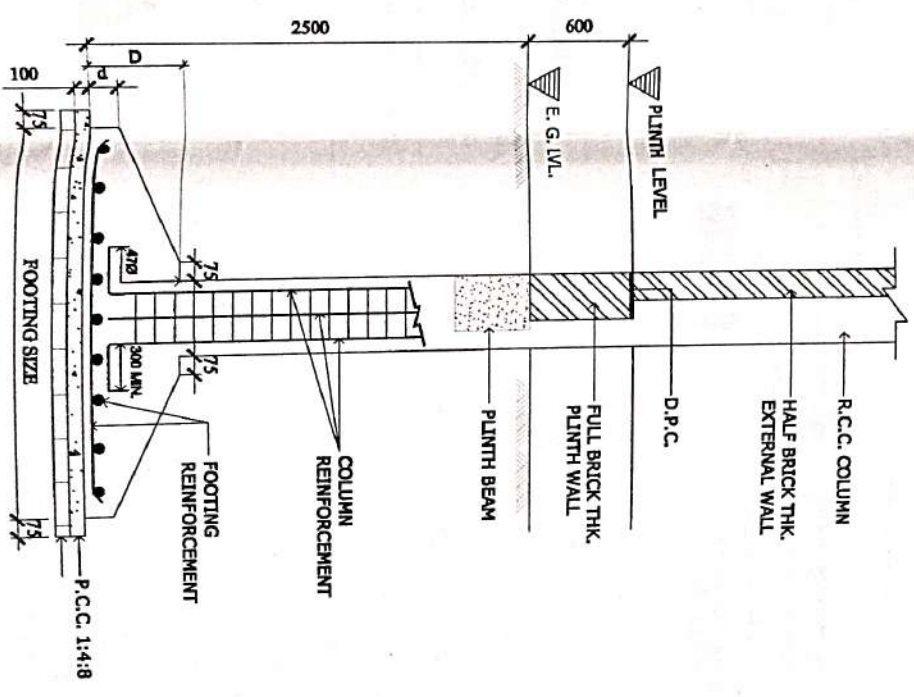
CROSS SECTION OF COLUMN / BEAM FOR ARRANGEMENT OF STIRRUP



DETAILS OF HOOK FOR STIRRUPS



TYPICAL DETAILS OF COLUMN STIRRUP



TYPICAL DETAILS OF FOUNDATION

NOTE:-
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.

REV	DATE	REVISION PARTICULARS	SIGN

LANKA MAHAVIDYALAYA
 WORK:-
 PROPOSED RCC SCIENCE BLOCK AT LANKA,
 ROYAL, ASSAM, PIN-782446

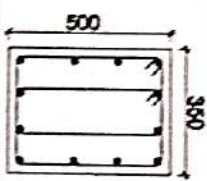
DRAWING:-
 TYPICAL DETAILS OF FOUNDATION

DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-01-19 <td>SCALE TO FIT <td>S-02 </td></td>	SCALE TO FIT <td>S-02 </td>	S-02

Dhrubajyoti Das
 Principal
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 Lanka, Hojai, Assam

B. Tech (Civil Engineering)
 GMDART/P/2015/ENG-12/22

SCHEDULE OF COLUMN & REINFORCEMENT:-

GROUP	COLUMN NO.	COLUMN SIZE (ORIENTATION AS PER LAYOUT)	REINFORCEMENT GROUND FLOOR	SECTION	STIRRUP
A.	4,6,7,8,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32	360 x 600	4 NOS Φ 25 + 8 NOS Φ 20		AS PER DETAIL

SCHEDULE OF FOOTING & REINFORCEMENT

GROUP	ISOLATED FOOTING NO.	FOOTING SIZE (ORIENTATION AS PER LAYOUT)	DEPTH		REINFORCEMENT
			D	d	
A	4, 5, 6, 7, 8, 25, 26, 27, 28, 29, 30, 31, 32	2200x2200	500	200	10 Φ 150 C/C (BOTHWAYS).
B	12,13,14,15,16,17,18,19,20,21,22,23,24	1800x1800	450	200	10 Φ 175 C/C (BOTHWAYS).

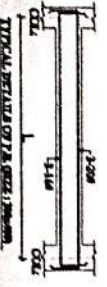
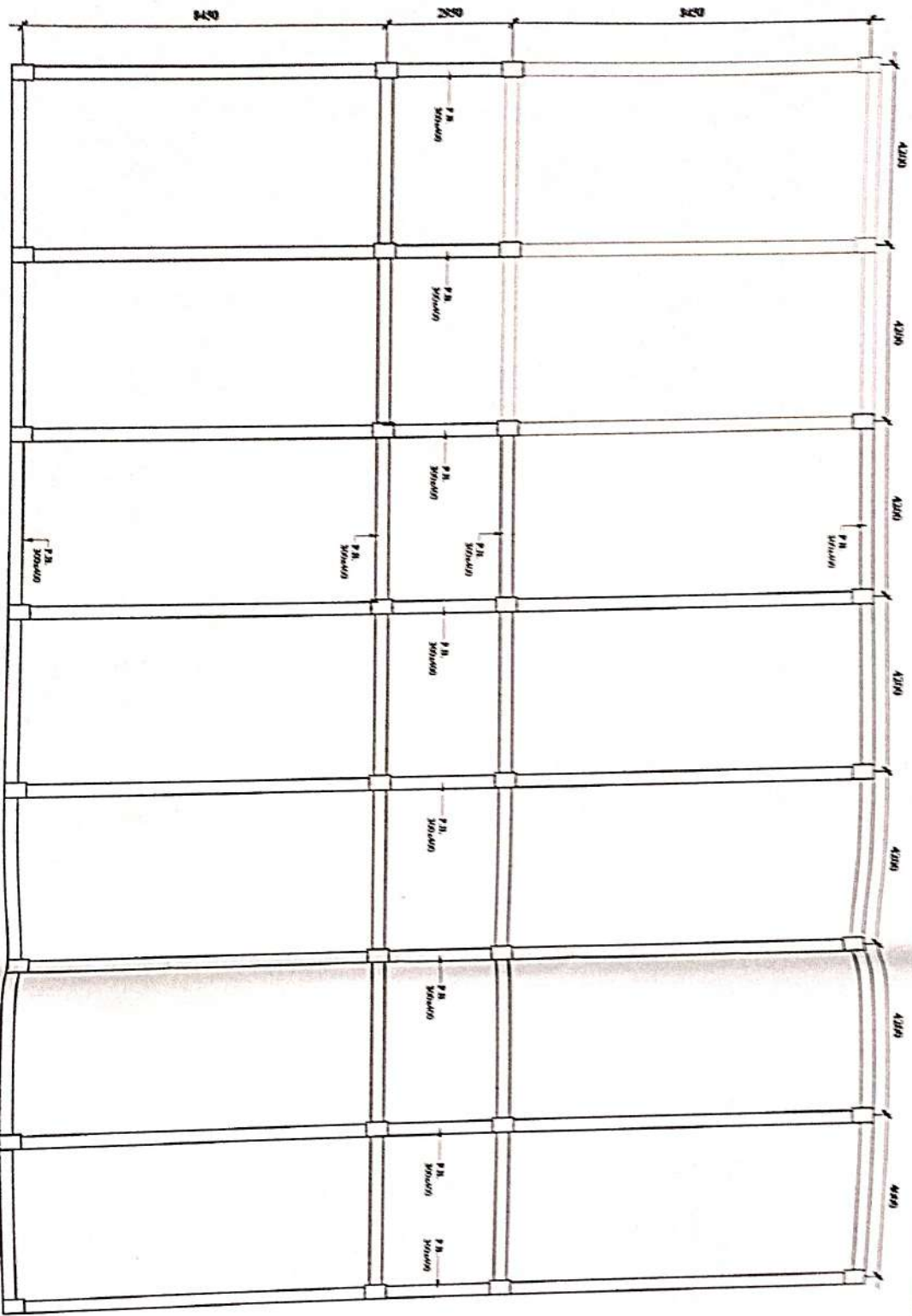


CROSS SECTION OF MAIN BEAM



CROSS SECTION OF SECONDARY BEAM

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REV	DATE	REVISION PARTICULARS	BY

LANKA MAHAVIDDYALAYA
 WORK:-
 PROPOSED SCIENCE BLOCK AT LANKA,
 EDDAL, ASALU, PERATTIYAKK

DRAWING:-
 LAYOUT AND DETAILS OF FIFTH FLOOR

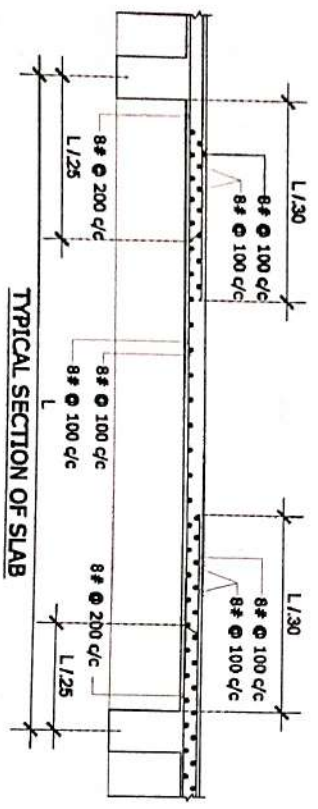
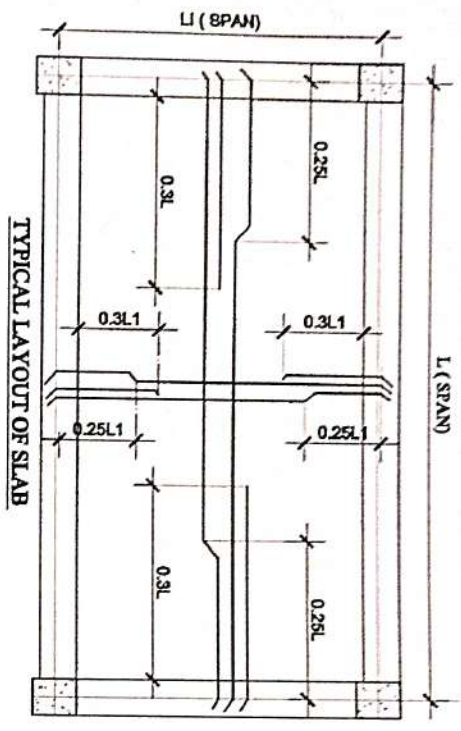
DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-01-18	SCALE TO FIT	S-04
				REV-00

Principal
 Lanka Mahavidyalaya
 Lanka, Hetale, Asalam

Dr. D. S. S. S. S.
 B. Tech (Civil Engineering)
 GMD/ART/P/2015/ENGG-1...2

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REINFORCEMENT OF SLAB:
 8# @ 100 c/c IN BOTHWAYS.

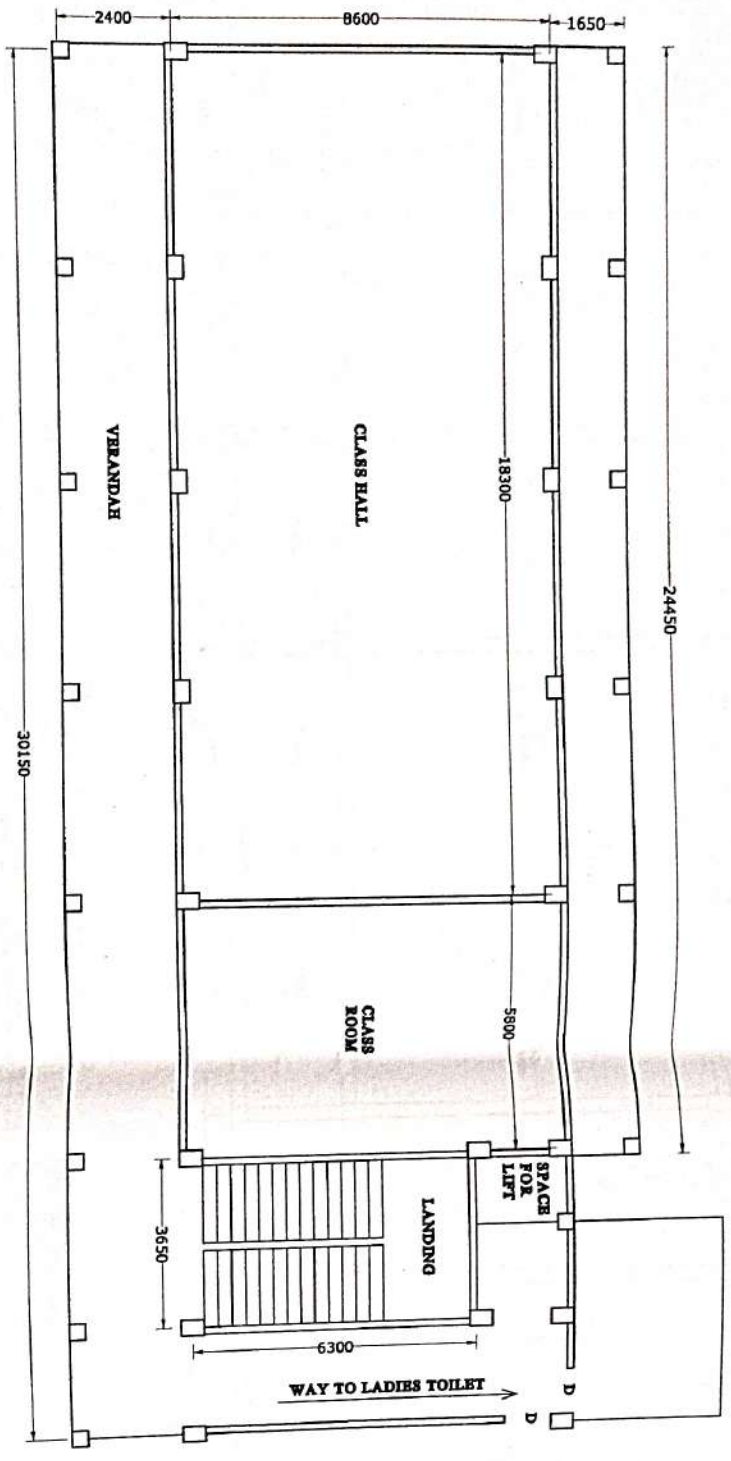
REV	DATE	REVISION PARTICULARS	SIGN

LANKA MAHAVIDDYALAYA
 WORK:-
 PROPOSED RCC SCIENCE BLOCK AT LANKA,
 ROYAL ASRAM, PIN-782448

DRAWING:-
 SCHEDULE OF SLAB

DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-01-19	SCALE TO FIT	S-05

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REV	DATE	REVISION PARTICULARS	BY

LANKA MAHAVIDYALAYA

WORKS:
 PROPOSED CONSTRUCTION OF NEW
 CLASS ROOM (FIRST FLOOR) AT LANKA,
 DIST. HOJAI, ASSAM

DRAWING:

PLAN LAYOUT AT 1/16th

AREA - 395.25 Sq. M OR 1327.28 Sq. Ft

DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-01-19	TO FT	A-01
				REV-00

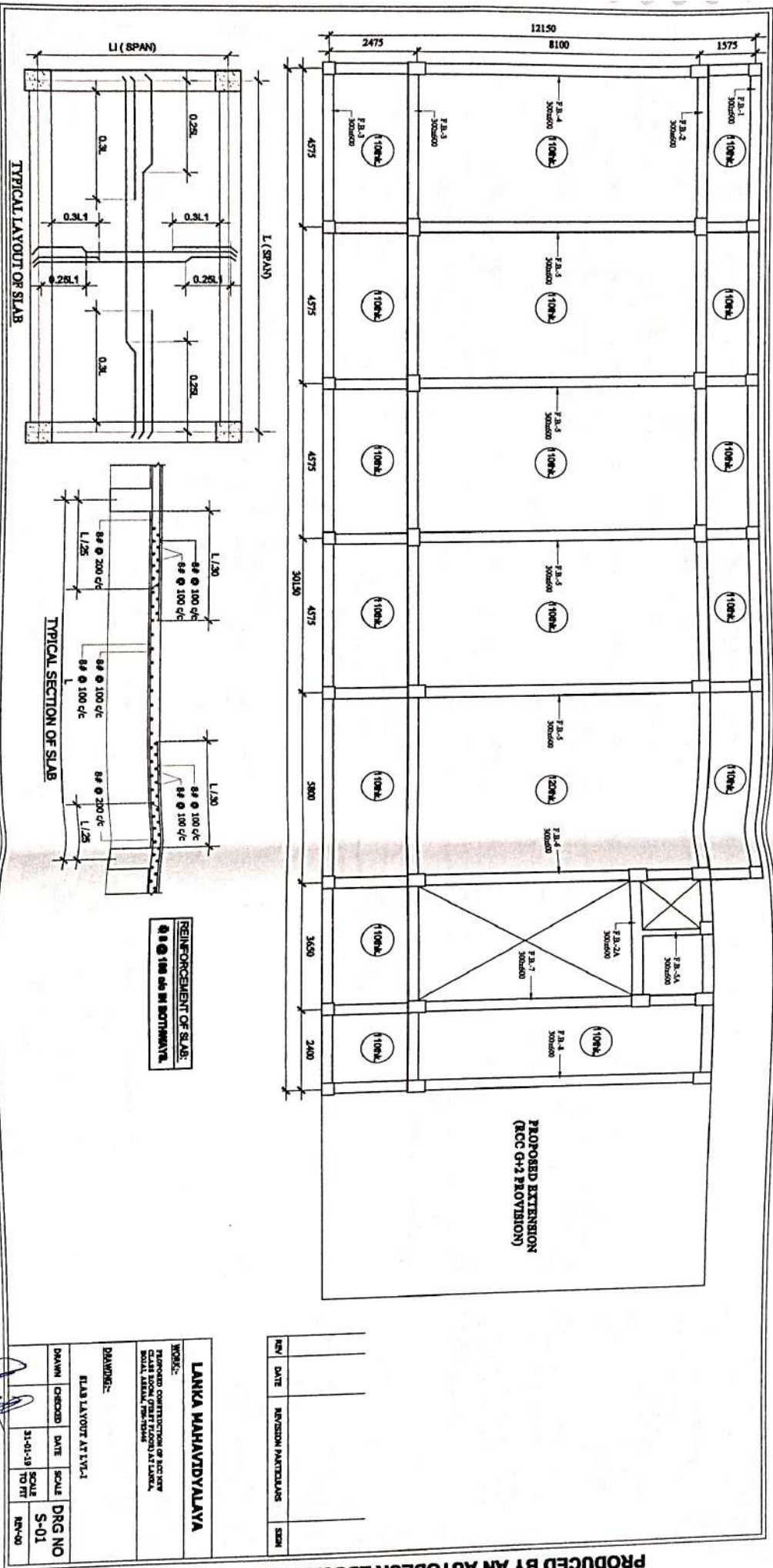
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

(Signature)
 Principal
 Lanka Mahavidyalaya
 Lankā, Hojai, Assam

Di:
 B. Te
 GMD/Arch. S/ENCS-1222

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REV	DATE	REVISION PARTICULARS	BY

LANKA MAHAVIDYALAYA
 WORK:-
 FURNISHING DRAWINGS OF SECTION
 SLAB, BEAM, COLUMN AT LEVEL 1.

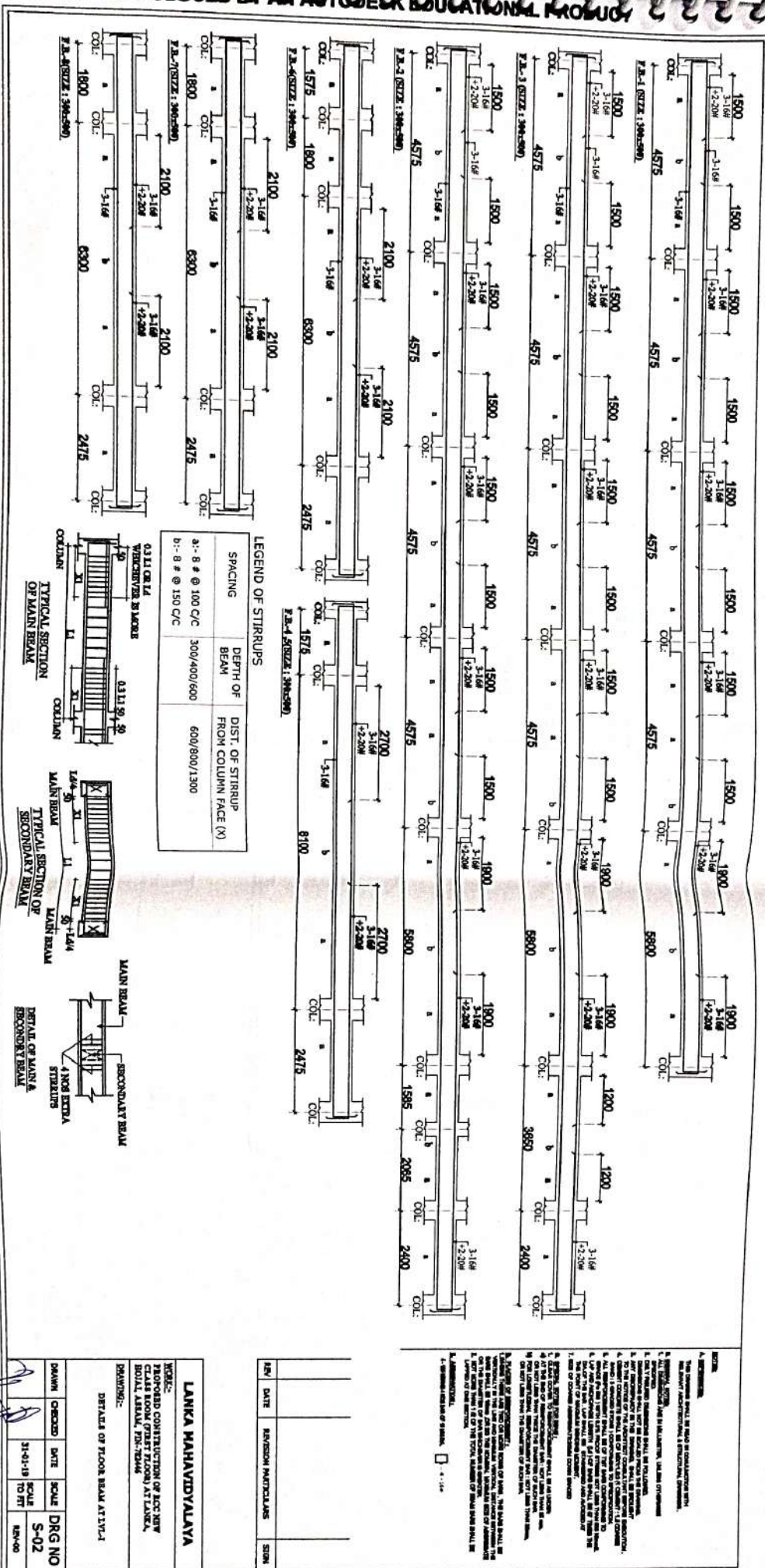
DATE	CHECKED	DATE	SCALE	DRG NO
31-01-18				S-01

Dhruv S Das

B. Tech (Civil Engineering)
 GMDA/11/2015/ENG-122/2

Principal
 Lanka Mahavidyalaya
 Lanka, Hojai, Assam

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NOTES:

1. THE DRAWING SHALL BE MADE IN CONFORMANCE WITH THE SRI LANKAN STANDARDS FOR ARCHITECTURAL & STRUCTURAL DRAWINGS.
2. ALL DIMENSIONS SHALL BE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
3. DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
5. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
6. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
7. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
8. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
9. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.
10. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.

REV.	DATE	REVISION PARTICULARS	BY

LANKA MAHAVIDYALAYA

WEEK:

PROJECT: REPOSED CONSTRUCTION OF ACC NEW CLASS ROOM (FIRST FLOOR) AT LANKA, SRI LANKA. DRAWN: P.M. 7/24/84

DRAWING:

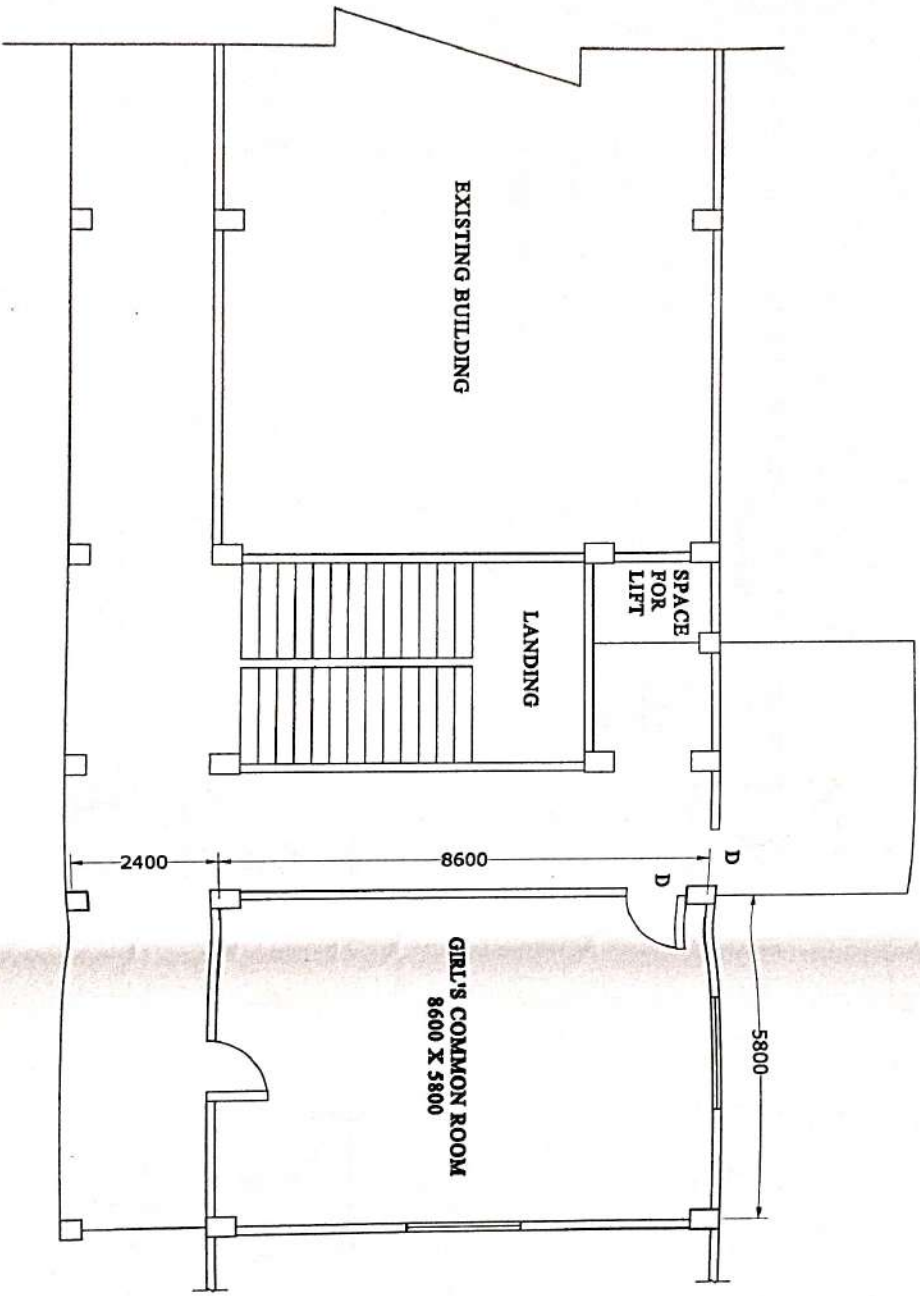
DETAILS OF FLOOR BEAM AT 1/10-1

DATE	CHECKED	DATE	SCALE	DRG NO
31-01-84			S-02	5-02

DRN-06

Dr. Dhrubajyoti Das
 Principal
 Lanka Mahavidyalaya
 Lanka, Hotal, Assam

B. Tech (Civil Engineering)
 GMDA/RTP/2015/ENG-122/2



REV	DATE	REVISION PARTICULARS	SIGN

LANKA MAHAVIDYALAYA

WORK:- PROPOSED CONSTRUCTION OF NEW BOYS GIRL'S COMMON ROOM AT LANKA MAHAVIDYALAYA, LANKA, HAWAI

DRAWING:-

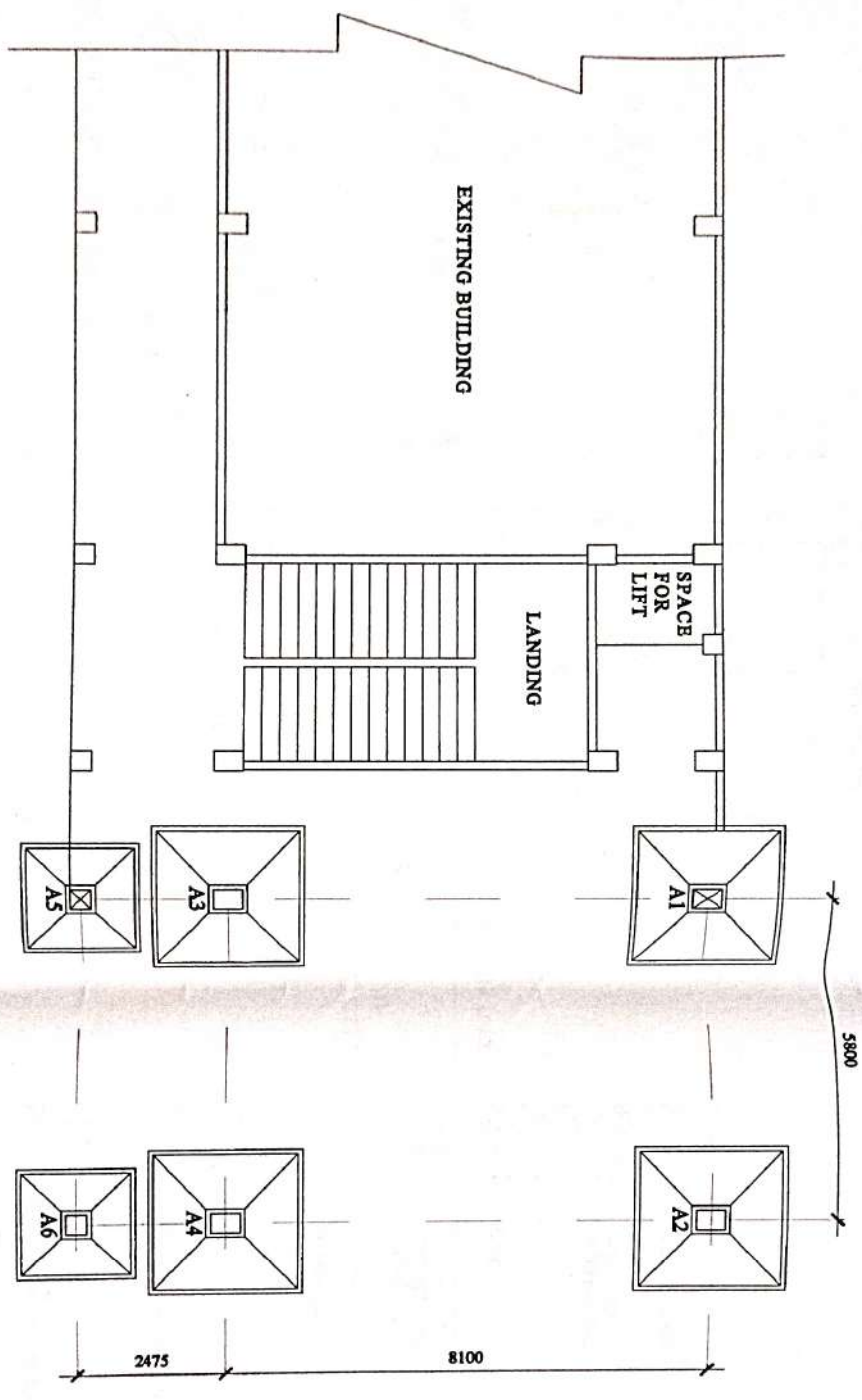
FLOOR PLAN

AREA = 63.8 Sq.m OR 686.48 Sq.ft.

DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-01-19	SCALE TO FIT	A-01
				REV-00

Lanka Mahavidyalaya
Lanka, Hawaii, Assam

Dhrudajyoti Das
B. Tech (Civil Engineering)
GMD/RT/P/2015, ENG-12272



REV	DATE	REVISION PARTICULARS	SIGN

LANKA MAHAVIDDYALAYA

WORK:-
 PROPOSED CONSTRUCTION OF RCC NEW
 GIRD & COMMON ROOM AT LANKA, BOHAL,
 ASSAM, PIN-782244

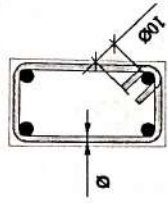
DESIGNED:-

LAYOUT OF FOUNDATION & FOOTING

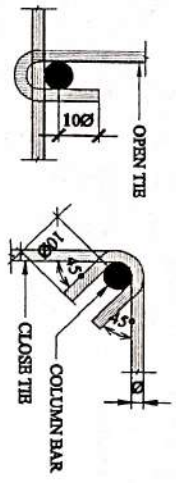
DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-01-19	SCALE TO FIT	S-01
				REV/00

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 Lanka, Hojai, Assam

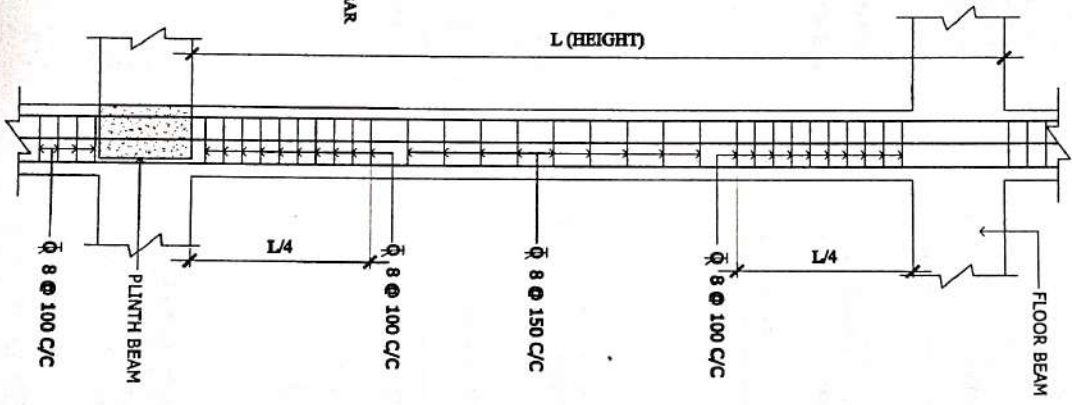
Dr. Debajyoti Das
 B. Tech (Civil Engineering)
 GMCARIP/2019/ENCG-12272



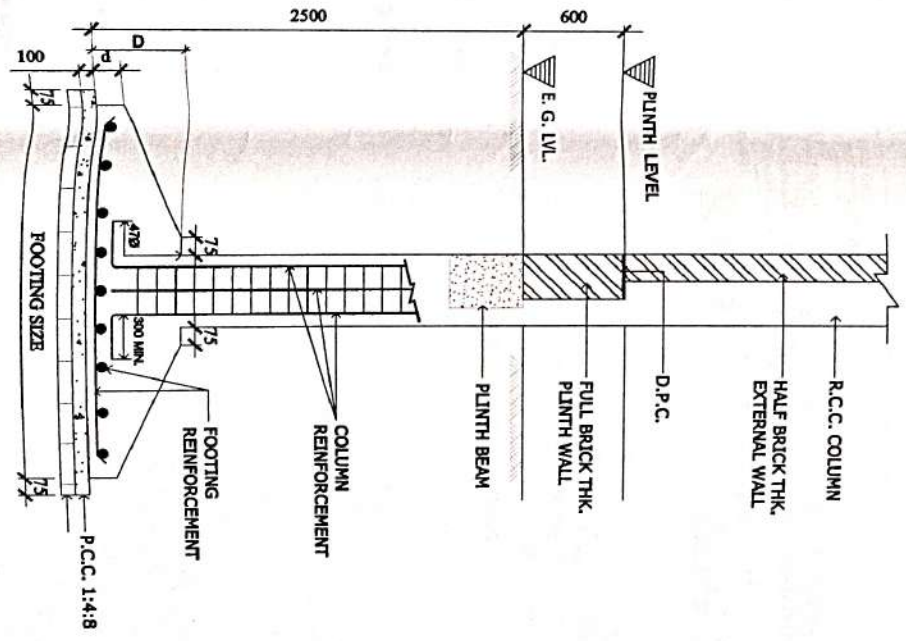
CROSS SECTION OF COLUMN / BEAM FOR ARRANGEMENT OF STIRRUP



DETAILS OF HOOK FOR STIRRUPS



TYPICAL DETAILS OF COLUMN STIRRUP



TYPICAL DETAILS OF FOUNDATION

NOTE:-
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.

REV.	DATE	REVISION PARTICULARS	SIGN.

LANKA MAHAVIDYALAYA

WORK:-
PROPOSED CONSTRUCTION OF R.C.C. NEW
GIRLS COMMON ROOM AT LANKA, BOYAL,
ASSAM, PIN-78446

DRAWING:-
SCHEDULE OF FOOTING & REINFORCEMENT,
SCHEDULE OF COLUMN & REINFORCEMENT

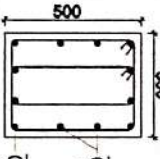
DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-01-19	SCALE TO FIT	S-02
				REV-00

Dhrubajyoti Das

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SCHEDULE OF COLUMN & REINFORCEMENT:-

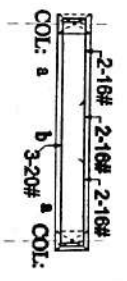
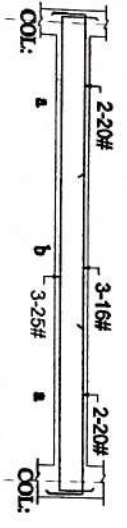
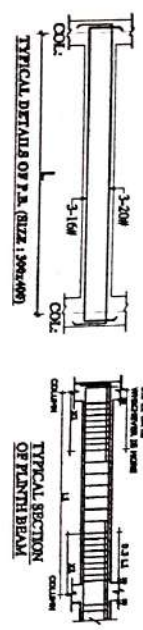
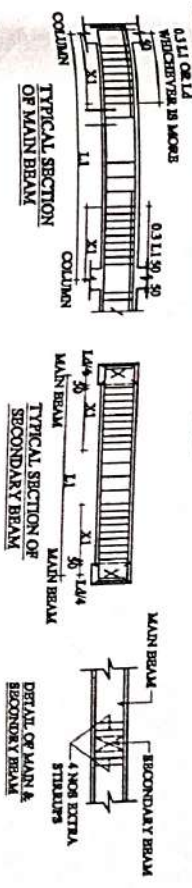
GROUP	COLUMN NO.	COLUMN SIZE (ORIENTATION AS PER LAYOUT)	REINFORCEMENT GROUND FLOOR	SECTION	STIRRUP
A.	4,5,6,7,8,12,13,14,15,16,17,18,18,20,21,22,23,24,25,28,27,28,28,30,31,32	350 x 500	4 NOS ϕ 25 + 8 NOS ϕ 20		AS PER DETAIL

SCHEDULE OF FOOTING & REINFORCEMENT

GROUP	ISOLATED FOOTING NO.	FOOTING SIZE (ORIENTATION AS PER LAYOUT)	DEPTH		REINFORCEMENT
			D	d	
A	4, 5, 6, 7, 8, 25, 26, 27, 28, 29, 30, 31, 32	2200x2200	500	200	10 ϕ 150 C/C (BOTHWAYS).
B	12,13,14,15,16,17,18,19,20,21,22,23,24	1800x1800	450	200	10 ϕ 175 C/C (BOTHWAYS).

LEGEND OF STIRRUPS

SPACING	DEPTH OF BEAM	DIST. OF STIRRUP FROM COLUMN FACE (X)
a: 8 # @ 100 C/C	300/400/500	600/800/1200
b: 8 # @ 150 C/C		



CROSS SECTION OF MAIN BEAM

CROSS SECTION OF SECONDARY BEAM

REV	DATE	REVISION PARTICULARS	SIGN

LANKA MAHAVIDYALAYA

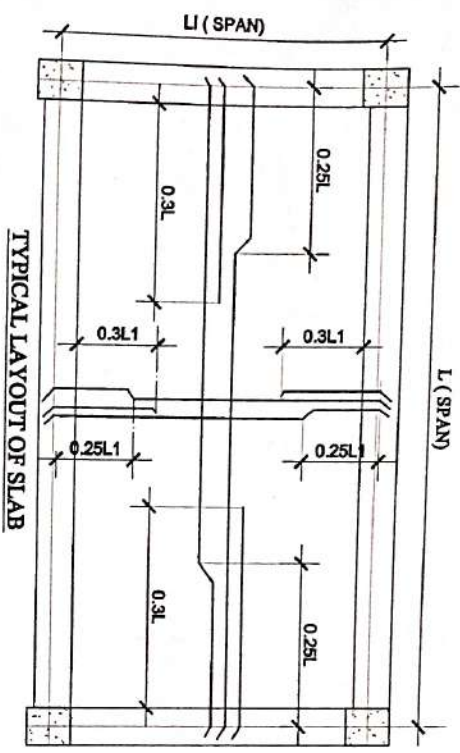
WORK:- PROPOSED CONSTRUCTION OF NEW NCC GUARDS COMMON ROOM AT LANKA MAHAVIDYALAYA, LANKA, HOTAI

DRAWING:- SCHEDULE OF FOOTING & REINFORCEMENT, SCHEDULE OF COLUMN & REINFORCEMENT, SCHEDULE AND LAYOUT OF FLOOR BEAM, PLINTH BEAM

DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-01-19	SCALE TO FIT	S-03

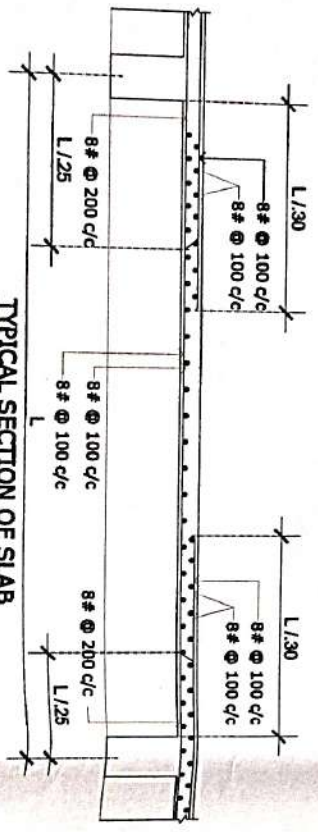
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GMD/AR/17/2015/E/M/3-1222



TYPICAL LAYOUT OF SLAB

REINFORCEMENT OF SLAB:
 $\phi 8 @ 100$ c/c IN BOTH WAY.



TYPICAL SECTION OF SLAB

REV	DATE	REVISION PARTICULARS	SIGN

LANKA MAHAVIDYALAYA

WORK:- PROPOSED CONSTRUCTION OF NEW RCC GIRLS COMMON ROOM AT LANKA MAHAVIDYALAYA, LANKA, HOJAI

DRAWINGS:-
 SCHEDULE OF SLAB

DRAWN	CHECKED	DATE	SCALE	DRG NO
		31-01-19 <td>SCALE TO FIT <td>S-05</td> </td>	SCALE TO FIT <td>S-05</td>	S-05

Principal
 Lanka Mahavidyalaya
 Lanka, Hojai, Assam

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 GND/19/1500/15/12272