



GOVERNMENT OF ASSAM
DIRECTORATE OF AGRICULTURE, ASSAM
KHANAPARA, GUWAHATI-22

No. AGRI/ENGG/4210/RIDF-XXV/KC/BID/2021-22/173

Dated: 09/11/2021

NOTICE

- (i) NIT NO:AGRI/ENGG/4210/RIDF-XXV/KC/BID/2021-22/108 Dtd 11/10/21
(ii) NIT NO: AGRI/ENGG/4874 /KC-XXVI /Bid/ 2020-21/13 Dtd 11/10/21

It is hereby informed that Model Estimate for construction of Knowledge Centre with Training Hall under RIDF XXV & XXVI with drawing vide NIT mentioned under reference (i) and (ii) above are available in the website www.diragri.assam.gov.in.

Further, as the bid submission date of NIT mentioned under reference (i) above i.e. 10/11/2021 being a Govt. holiday, the submission of hard copy is hereby extended till 11.11.2021 up to 1.00 PM. However, online schedules of submission of the said will remain same as per the NIT.

Executive Engineer (Agri) (W/M)
Directorate of Agriculture
Assam, Khanapara, Guwahati-22.

NAME OF THE PROJECT :- MODEL ESTIMATE FOR CONSTRUCTION OF G+1 KNOWLEDGE CENTRE WITH TRAINING HALL UNDER RIDF XXV & XXVI .																	
(A) CIVIL WORKS																	
Description of item			No		L		B		D		AREA		QTY	Unit	RATE	AMOUNT	
DSR 2021 CL. :2.8 : EARTH WORK																	
Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 2 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.																	
2.8.1 All kinds of soil.																	
Isolated footing																	
IF1 (Size 2000mmx2000mm)			20	X	2.20	X	2.20	X	2.50				=	242.00			
Septick tank			1	x	5.00	x	2.00	x	1.80				=	18.00			
											TOTAL	=	260.00	cum	₹ 286.85	₹ 74,581.00	
DSR 2021 CL. : 4.1 : P.C.C																	
Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :																	
4.1.5 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size																	
Footing (Size 2000mmx2000mm)			20	X	2.2	X	2.2	X	0.10				=	9.68			
Septick tank			1	x	5.00	x	2.00	x	0.10				=	1.00			
Tie beam			1		136.00	x	0.30	x	0.10				=	4.08			
Front Step			1	X	3.0	X	0.90	X	0.10				=	0.27			
											TOTAL		15.03	cum	₹ 6,833.40	₹ 1,02,706.00	
4.1.10. 1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)																	
Under Floor					19.40		9.81		0.15				=	28.55	cum	₹ 6,050.65	₹ 1,72,746.06
DSR 2021 CL. : 5.22 : STEEL REINFORCEMENT																	
Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.																	

Description of item			No		L		B		D		AREA		QTY	Unit	RATE	AMOUNT
5.22.6 Thermo-Mechanically Treated bars																
Footing																
Footing (12-Φ @ 100 c/c)	20	x	2	x	11	x	2.00	x	0.89	=	783.2			Kg		
In 20nos columns upto PL. (300x400)																
8-16mm dia of bar	11	x	8	x	3.00	x	1.580	=	417.12	Kg						
Stirrups 8Φ @125 mm c/c	11	x	30	x	1.24	x	0.395	=	161.63	Kg						
Stirrups 8Φ @80mm c/c	11	x	25	x	0.94	x	0.395	=	101.67	Kg						
									0.00							
10-16mm dia of bar	9	x	10	x	3.00	x	1.580	=	426.60	Kg						
Stirrups 8Φ @125mm c/c	9	x	30		1.24		0.395	=	132.25	Kg						
Stirrups 8Φ @80mm c/c	9	x	25		0.94	x	0.395	=	83.19	Kg						
Plinth beams																
TB-01																
									0.00							
Top cont. 2-16mm dia of bar	4	x	2	x	20.00	x	1.58	=	252.80	Kg						
Bottom cont. 2-16mm dia of bar	4	x	2	x	20.00	x	1.58	=	252.80	Kg						
Top Ext. 2-16mm dia of bar	20	x	2	x	2.50	x	1.58	=	158.00	Kg						
Bottom Ext. 1-16mm dia of bar	16	x	2	x	3.20	x	1.58	=	161.79	Kg						
Stirrups 8Φ @125mm c/c at mid.			180						352.66							
	4	x		x	1.24	x	0.395			Kg						
TB-02 & TB-03																
									0.00							

Description of item			No		L		B		D		AREA		QTY	Unit	RATE	AMOUNT
Top cont. 2-16mm dia of bar	7	x	2	x	10	x	1.58	=	221.20							
Bottom cont. 2-16mm dia of bar	7	x	2	x	10	x	1.58	=	221.20							
Top Ext. 2-16mm dia of bar	20	x	2	x	2.2	x	1.58	=	139.04							
Bottom Ext. 1-16mm dia of bar	20	x	2	x	2.5	x	1.58	=	158.00							
Stirrups 8Φ @125mm c/c at mid.	7	x	100	x	1.24	x	0.395	=	342.86							
									3582.81		TOTAL	=	4366.01	Kg		
												=	218.30	Kg		
											G.TOTAL	=	4584.31	Kg	₹ 89.65	₹ 4,10,983.25
5.22A Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.																
5.22A.6 Thermo-Mechanically Treated bars of grade Fe-500 D or more.																
	No		8mm		10mm		12mm		16mm		20mm		25mm			
First Floor beams																
FB-01																
Top cont. 2-16mm dia of bar									165.13							
Bottom cont. 2-16mm dia of bar									165.13							
Top Ext. 3-16mm dia of bar									121.35							
Bottom Ext. 1-16mm dia of bar									70.05							
Stirrups 8Φ @150mm c/c at mid.			542.06													

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
Stirrups 8Φ @80mm c/c at supp.	453.25								
FB-02									
Bottom cont. 2-16mm dia of bar				96.72					
Top Ext. 3-16mm dia of bar				70.04					
Bottom Ext. 1-16mm dia of bar				42.69					
Stirrups 8Φ @150mm c/c at mid.	223.10								
Stirrups 8Φ @80mm c/c at supp.	478.72								
FB-03									
Top cont. 2-16mm dia of bar				2.83					
Bottom cont. 2-16mm dia of bar				2.83					
Stirrups 8Φ @80mm c/c	2.84								
Roof Floor beams									
RB-01									
Top cont. 2-16mm dia of bar				135.38					
Bottom cont. 2-16mm dia of bar				135.38					
Top Ext. 2-16mm dia of bar				67.69					
Bottom Ext. 1-16mm dia of bar				54.15					

Description of item		No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
Stirrups 8Φ @150mm c/c at mid.		324.70								
Stirrups 8Φ @80mm c/c at supp.		274.00								
RB-02										
Top cont. 2-16mm dia of bar					98.10					
Bottom cont. 2-16mm dia of bar					98.10					
Top Ext. 2-16mm dia of bar					49.05					
Bottom Ext. 1-16mm dia of bar					39.24					
Stirrups 8Φ @150mm c/c at mid.		185.08								
Stirrups 8Φ @80mm c/c at supp.		293.54								
In 20nos columns above PL.										
(300X400)										
8-16mm dia of bar	11				321.82					
Stirrups 8Φ @125mm c/c		190.91								
Stirrups 8Φ @80mm c/c		325.40								
10-16mm dia of bar	9				329.13					
Stirrups 8Φ @125mm c/c		218.91								
Stirrups 8Φ @80mm c/c		395.54								

Description of item		No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
In 20nos columns above 1st Floor.										
(300X400)										
8-16mm dia of bar	11				290.40					
Stirrups 8Φ @125mm c/c		180.68								
Stirrups 8Φ @80mm c/c		294.97								
10-16mm dia of bar	7				231.00					
Stirrups 8Φ @125mm c/c		155.04								
Stirrups 8Φ @80mm c/c		279.01								
Ground Floor Lintel										
4-10mm dia of bar			545.84							
Stirrups 8Φ @90mm c/c		682.75								
First Floor Lintel										
4-10mm dia of bar			545.84							
Stirrups 8Φ @90mm c/c		682.75								
Slab details										
First Floor slab										
8-Φ, @ 100c/c ,125mm thick		1415.15								
10-Φ, @ 100c/c ,125mm thick			1124.54							
8-Φ, @ 180c/c ,125mm thick		600.31								
10-Φ, @ 180c/c ,125mm thick			564.00							

Description of item		No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
Waist slab										
10-Φ, @ 120c/c			282.67							
Holding bar 10Φ @200mm c/c			168.00							
Landing										
10-Φ, @ 120c/c			116.50							
Holding bar 10Φ @200mm c/c			74.25							
10-Φ, @ 120c/c			120.67							
Holding bar 10Φ @200mm c/c			77.00							
		8198.71	3619.31		2586.21	0.00	0.00			
Co-efficient		0.39	0.61	0.88	1.56	2.44	3.81			
Weight =		3197.50	2207.78	0.00	4034.49	0.00	0.00	Kg		
							= 9439.76	Kg		
							= 471.99	Kg		
						G.TOTAL	= 9911.75	Kg	₹ 89.65	₹ 8,88,588.55
DSR 2021 CL. : 4.3 : SHUTTERING										
Centering and shuttering including strutting, propping etc. and removal of form for										
5.9.1 Foundations, footings, bases of columns, etc. for mass concrete										
For Isolated Footings										
Footing	20	X	4	X	2.00	X	0.30		= 48.00	
Column upto PL										
	20	X	2	X	2.50	X	0.40		= 40.00	
	20	X	2	X	2.50	X	0.30		= 30.00	
							TOTAL	= 118.00	sqm	₹ 307.95
5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts										
Column above PL to 1ST Floor										
	20	X	2	X	3.66	X	0.40		= 58.56	
	20	X	2	X	3.66	X	0.30		= 43.92	

Description of item			No		L		B		D		AREA		QTY	Unit	RATE	AMOUNT
Column above 1ST Floor to Roof																
	18	X	2	X	3.30	X	0.40						=	47.52		
	18	X	2	X	3.30	X	0.30						=	35.64		
											TOTAL		185.64	Sqm	₹ 804.25	₹ 1,49,300.97
5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers																
Plinth Beam																
PB01	1	X	2	X	77.60	X	0.40						=	62.08		
PB02	1	X	2	X	58.96	X	0.40						=	47.17		
PB03	1	X	2	X	2.9	X	0.35						=	2.03		
First Floor Beam														0.00		
FB01	1	X	2	X	87.56	X	0.40						=	70.05		
	1	X	1	X	87.56	X	0.30						=	26.27		
FB02	1	X	2	X	63.16	X	0.40						=	50.53		
	1	X	1	X	63.16	X	0.30						=	18.95		
FB03	1	X	2	X	1.4	X	0.35						=	0.98		
	1	X	1	X	1.4	X	0.25						=	0.35		
Roof Beam														0.00		
RB01	1	X	2	X	67.71	X	0.40						=	54.17		
	1	X	1	X	67.71	X	0.30						=	20.31		
RB02	1	X	2	X	49.05	X	0.40						=	39.24		
	1	X	1	X	49.05	X	0.30						=	14.72		
Ground Floor Lintel	1	X	2	X	136.46	X	0.15						=	40.94		
First Floor Lintel	1	X	2	X	136.46	X	0.15						=	40.94		
											TOTAL		488.71	sqm	₹ 608.35	₹ 2,97,306.73
5.9.3 Suspended floors, roofs, landings, balconies and access platform																
First Floor slab																
	1	X	1	X	19.4	X	9.81						=	190.31		
Shuttering On the side of the Slab	1	X	2	X	19.4	X	0.15						=	5.82		
	1	X	2	X	9.81	X	0.15						=	2.94		
														0.00		

Description of item			No		L		B		D		AREA		QTY	Unit	RATE	AMOUNT
Waist slab	1	X	2	X	4.00	X	2.000					=	16.00			
	1	X	2	X	4.00	X	0.150					=	1.20			
steps	1	X	25	X	2.00	X	0.177					=	8.85			
	1	X	25	X	0.25	X	0.177					=	1.11			
Landing	1	X	1	X	4.20	X	1.200					=	5.04			
											TOTAL	=	231.27	sqm	₹ 766.55	₹ 1,77,280.02
DSR 2021 CL. : 5.1 : R.C.C																
Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :																
5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)																
Footing			20	X	2.00	X	2.00	X	0.25			=	20.00			
Plinth Beam																
PB01			1	X	77.6	X	0.3	X	0.40			=	9.31			
PB02			1	X	58.96	X	0.3	X	0.40			=	7.08			
PB03			1	X	2.9	X	0.25	X	0.35			=	0.25			
Column below P.L			20	X	0.4	X	0.30	X	3.10			=	7.44			
											TOTAL	=	44.08	cum	₹ 8,364.20	₹ 3,68,693.94
CL. 5.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :																
5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).																
Column above P.L to 1st Floor			20	X	0.4	X	0.30	X	3.66			=	8.78			
Ground Floor Lintel(150x115)			1	X	116.46	X	0.15	X	0.115			=	2.01			
First Floor Beam																
FB01			1	X	70.56	X	0.30	X	0.45			=	9.53			
FB02			1	X	63.16	X	0.30	X	0.45			=	8.53			

Description of item			No		L		B		D		AREA		QTY	Unit	RATE	AMOUNT
FB03			1	X	1.4	X	0.25	X	0.35			=	0.12			
Roof Floor Beam																
RB01			1	X	67.71	X	0.25	X	0.35			=	5.92			
RB02			1	X	49.05	X	0.25	X	0.35			=	4.29			
Column from 1st Floor to Roof			18	X	0.4	X	0.30	X	3.30			=	7.13			
1st Floor Lintel(150x115)			1	X	116.46	X	0.15	X	0.115			=	2.01			
First Floor Slab			1	X	19.4	X	9.81	X	0.125			=	23.79			
waist slab	1	X	2	X	4	X	2.00	X	0.15			=	2.40			
steps	1	X	25	X	1.77	X	0.25	X	0.09			=	1.00			
Landing	1	X	1	X	4.2	X	0.12	X	0.15			=	0.08			
											TOTAL	=	75.58	cum	₹ 10,185.05	₹ 7,69,801.81
DSR 2021 CL. : 2.25: EARTH FILLING																
Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.																
Isolated footing																
Footing			20	X	2.00	X	2.00	X	2.50			=	200.00			
			20	X	2.00	X	2.00	X	0.10			=	-8.00			
			20	X	2.00	X	2.00	X	0.40			=	-32.00			
Column below P.L			20	X	0.40	X	0.30	X	2.50			=	-6.00			
											TOTAL		154.00	Cum	₹ 253.95	₹ 39,108.30
DSR 2021 CL. : 2.25(a): EARTH FILLING																
2.25(a) Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.																

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT					
600mm Earth filling in all rooms and varandah at Ground floor	1	X	19.4	X	9.81	X	0.60	=	114.19					
									TOTAL	=	114.19	cum	₹ 368.65	₹ 42,096.14
DSR 2021 CL. : 2.27: SAND FILLING														
Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.														
GL to PL														
Sand Filling														
	1	X	19.4	X	9.81	X	0.15	=	28.55					
									TOTAL	=	28.55	cum	₹ 2,161.20	₹ 61,702.26
DSR 2021 CL. : 4.10 : DPC														
Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).														
	1	X	77.6	X	0.125						9.70			
	1	X	63.16	X	0.125						7.90			
	1	X	2.9	X	0.125						0.36			
									TOTAL	=	17.96	sqm	₹ 370.85	₹ 6,660.47
2.35.3 Treatment of soil under existing floors using chemical emul-sion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2(1 cement : 2 Coarse sand) to match the existing floor:														
2.35.3.1 With Chlorpyriphos/Lindane E.C. 20% with 1% concentration														
									TOTAL	=	200.00	sqm	₹ 256.15	₹ 51,230.00
DSR 2021 CL. : 6.1 : BRICK WORK														
Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:														
6.1.2 Cement Mortar 1:6 (1 cement : 6 coarse sand).														

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT	
9.1. Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).										
9.1.3 Kiln seasoned and chemically treated hollock wood										
GROUND FLOOR & FIRST FLOOR										
D	1	X	8.50	x	0.125	x	0.075	=	0.080	
D1	9	X	5.4	x	0.125	x	0.075	=	0.456	
D2	4	X	5.1	x	0.125	x	0.075	=	0.191	
D3	1	X	5.7	x	0.125	x	0.075	=	0.053	
TOTAL						=	0.78	Cum	₹ 74,199.70	₹ 57,875.77
9.20 Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.										
9.20.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws										
GROUND FLOOR & FIRST FLOOR										
D to D3								=	40.89 sqm	
TOTAL						=	40.89	sqm	₹ 3,086.10	₹ 1,26,190.63
21.1. Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :										
21.1.2 For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)										
21.1.2.1 Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15										

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
GROUND FLOOR & FIRST FLOOR									
W1	16	X	2.4	X	1.35	=	51.84		
W2	6	X	2.0	X	1.35	=	16.2		
V1	16	X	2.4	X	0.45	=	17.28		
V2	5	X	2.0	X	0.45	=	4.5		
V3	7	X	0.75	X	0.45	=	2.36		
						TOTAL	= 92.18	sqm	
							@ 5.40Kg/Sqm		
							= 497.79	Kg.	₹ 531.80
									₹ 2,64,724.72
21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):									
21.3.1 With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)									
						=	78.00	sqm	₹ 1,019.80
9.48 Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.									
9.48.2 Fixed to openings /wooden frames with rawl plugs screws etc.									
Qty. Same as above =116.40 sqm @ 22.00kg/sqm									
						=	2560.80	kg.	₹ 197.70
DSR 2021 CL. : 11.3.FLOORING									
Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate)									
11.3.1 40 mm thick with 20 mm nominal size stone aggregate									
GROUND FLOOR									
			19.5		X		9.81		= 191.30
FIRST FLOOR									
D1			19.5		X		9.81		= 191.30
						TOTAL	= 382.59	sqm	₹ 545.00
									₹ 2,08,511.55
DSR 2021 CL. : 11.40 .Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete.									

Description of item			No		L		B		D		AREA		QTY	Unit	RATE	AMOUNT
GF wash room	1	x	2.5	x	2.06							=	5.15			
	2	x	2	x	1.2								4.80			
FF wash room	4	x	2.5	x	2.8								28.00			
													37.95	sqm	₹ 1,225.10	₹ 46,492.55
TOTAL																
DSR 2021 CL. : 11.41 .Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.																
11.41.2 Size of Tile 600x600 mm																
GF & FF including stairs			2	x	19.5	x	9.81					=	382.59			
Less Wash room													-37.95			
													344.64	sqm	₹ 1,416.65	₹ 4,88,234.26
TOTAL																
8.31 Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.																
11.6 Cement plaster skirting up to 60 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement																
11.6.1 18 mm thick (Out side of bldg.) Plinth	2	x	2	x	19.5	x	0.6					=	46.80			
	2	x	2	x	9.8	x	0.6					=	23.54			
Deduction													-1.80			
													72.14	sqm	₹ 570.75	₹ 41,176.19
DSR 2021 CL. : 13.0 : FINISHING																
13.1 12 mm cement plaster of mix :																
13.1.2 1:6 (1 cement: 6 fine sand)																
Qty. Same as Half br.work																
												=	518.00	sqm	₹ 282.00	₹ 1,46,076.00
15 mm cement plaster on the rough side of single or half brick wall of mix :																
13.2.2 1:6 (1 cement: 6 fine sand)																

Description of item			No		L		B		D		AREA		QTY	Unit	RATE	AMOUNT
Out side of bldg.																
	2	x	2	x	19.5	x	3.3					=	257.40			
	2	x	2	x	9.8	x	3.3						129.49			
Deduction (W & V)													-110.36			
											TOTAL		276.53	sqm	₹ 324.30	₹ 89,679.33
13.16	6 mm cement plaster of mix :															
13.16.1	1:3 (1 cement : 3 fine sand)															
Celing	1	x	19.50	x	9.81							=	191.30	sqm	₹ 253.05	₹ 48,407.20
DSR 2021 CL. : 12.45 : Ceiling																
12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :															
12.45.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks)															
FF room	1	x	19.50	x	9.81							=	191.30	Sqm	₹ 1,145.95	₹ 2,19,214.51

Description of item		No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT						
DSR 2021 CL. : 10.16 : Truss																
10.16 Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.																
10.16.1 Hot finished welded type tubes																
122x61x3.6 -Tie	1	5	x	10.50		@	9.67	=	507.68							
72x72x3.2 -Rafter	2	x	5	x	5.49	@	6.71	=	368.38							
49.5x49.5x2.9	1	5	x	0.83		@	4.07	=	16.83							
25.6x25.6x2.6	5	4	x	6.00		@	1.98	=	237.60							
purline	2	8		10.0		@	6.71	=	1073.60							
8mm th. Plate	2	5		0.25	x	0.25	@	62.8	=	39.25						
6mm plate	5	x	2	x	8.00	x	0.15	x	0.1	@	47.1	=	56.52			
	6	x	2	x	10.00	x	0.15	x	0.09	@	47.1	=	76.30			
													2376.16	Kg	₹ 154.90	₹ 3,68,066.48
DSR 2021 CL. : 12.65 : Roofing																
12.65 .Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. allinclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).																
12.65.1 0.56 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width1092 mm, cover width 1000mm																
		2	x	19.8	x	5.70						=	225.72	Sqm	₹ 1,058.60	₹ 2,38,947.19
12.66 . Providing and fixing of Pre-coated colour or mill finish Aluminium Roofing Accessories in 0.71 mm thickness ,Alloy 31500 (IS designation) [Aluminium Alloy (AA) 3004 (ISO designation)] For color, coating shall be 5-7 microns epoxy primer on both sides of the sheet and polyester top coat 15-18 microns, using self drilling/ tapping SS screws of size 6 x 50mm with 3mm thick EPDM seal and SS plain washer complete :																
12.66.1 Precoated/mill finish aluminium Ridges plain (500- 600mm)																

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
						= 21.20	Rm	₹ 969.50	₹ 20,553.40
DSR 2021 CL. : 12.66 : Barge Board									
12.66 Providing and fixing of Pre-coated colour or mill finish Aluminium Roofing Accessories in 0.71 mm thickness ,Alloy 31500 (IS designation) [Aluminium Alloy (AA) 3004 (ISO designation)] For color, coating shall be 5-7 microns epoxy primer on both sides of the sheet and polyester top coat 15-18 microns, using self drilling/ tapping SS screws of size 6 x 50mm with 3mm thick EPDM seal and SS plain washer complete :									
12.66.4 Precoated/mill finish aluminium Barge board (Upto 200 mm)									
= 56.00 Rm ₹ 748.20 ₹ 41,899.20									
DSR 2021 CL. : 13.41 : Painting									
13.41 Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :									
13.41.1 New work (two or more coats) over and including water thinnable priming coat with cement primer									
Qty same as 12mm cement plaster+ 6mm cement plaster+ ceiling									
= 900.59 sqm ₹ 162.55 ₹ 1,46,390.90									
13.44 Finishing walls with water proofing cement paint of required shade :									
13.44.1 New work (Two or more coats applied @ 3.84 kg/10 sqm)									
Qty same as 15mm cement plaster									
= 276.53 sqm ₹ 97.60 ₹ 26,989.33									
13.50.3 With ready mixed red oxide zinc chromate primer of									
= 60.00 sqm ₹ 55.50 ₹ 3,330.00									
13.50.4 With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)									
= 60.00 sqm ₹ 29.75 ₹ 1,785.00									
13.57 Painting with oil type wood preservative of approved brand and manufacture :									
13.57.1 New work (two or more coats)									
= 142.00 sqm ₹ 47.10 ₹ 6,688.20									
4.17 :Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation,levelling & dressing & finishing the top smooth.									
= 30.00 sqm									
= 15.00 sqm									
TOTAL									
45.00 sqm ₹ 681.65 ₹ 30,674.25									

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
9.96 Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :									
9.96.2 250x16 mm						= 14.00	nos.	₹ 234.90	₹ 3,288.60
9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :									
9.97.3 200 x 10 mm						= 156.00	nos.	₹ 90.80	₹ 14,164.80
9.100 Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :									
9.100.2 100 mm						= 92.00	nos	₹ 53.25	₹ 4,899.00
<u>STAINLESS STEEL</u>									
DSR 2021, CL. 10.28: STAINLESS STEEL									
10.28 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/c 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-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).									
Railing (stainless steel)	4	x	3.50	x	1.00	x	5.50		
						= 77.00	Kg.		
G. TOTAL						= 77.00	kg	₹ 612.25	₹ 47,143.25
10.3. Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers,handles, including applying a priming coat of approved steel primer.									
	1	x	4	x	2.1				
						= 8.40	sqm	₹ 9,397.35	₹ 78,937.74
(A) GRAND TOTAL IN CIVIL WORKS									₹ 77,47,346.71
Say									₹ 77,47,347.00
(B) SANITARY AND WATER SUPPLY WORK									

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
17.2. Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :									
17.2.1 W.C. pan with ISI marked white solid plastic seat and lid					=	7.00	nos.	₹ 5,540.55	₹ 38,783.85
17.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:									
17.7.4 White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap					=	5.00	nos	₹ 2,731.45	₹ 13,657.25
17.10. Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :									
17.10.1 Kitchen sink with drain board									
17.10.1.1 510x1040 mm bowl depth 250 mm					=	1.00	no	₹ 6,008.45	₹ 6,008.45
17.18. Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.									
17.18.2 10 litre capacity - coloured					=	7.00	nos	₹ 989.60	₹ 6,927.20
17.28 Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.									
17.28.2. Flexible pipe									
17.28.2.1 32 mm dia					=	5.00	nos	₹ 104.35	₹ 521.75
17.32 Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :									
17.32.2 Rectangular shape 453x357 mm					=	5.00	nos	₹ 1,158.95	₹ 5,794.75
C.P.V.C. PIPES									

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
18.8 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work , including cutting chases and making good the walls .(Internal work)									
18.8.1 15 mm nominal dia Pipes					=	37.00	Metre	₹ 441.15	₹ 16,322.55
18.9 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. (External work)									
18.9.3 25 mm nominal dia Pipes					=	48.00	Metre	₹ 370.65	₹ 17,791.20
18.42 Boring with 100 mm diameter casing pipe for hand pump / tubewell, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump / tube well is lowered and tested :									
18.42.1 Up to 6 metres depth					=	6.00	Rm	₹ 618.00	₹ 3,708.00
18.42.2 Beyond 6 m and up to 12 m depth					=	6.00	Rm	₹ 730.95	₹ 4,385.70
18.42.3 Beyond 12 m and up to 18 m depth					=	6.00	Rm	₹ 847.35	₹ 5,084.10
18.43 Providing and placing in position filters of 40 mm diameter G.I. pipe with brass strainer of approved quality.					=	3.00	Rm	₹ 813.25	₹ 2,439.75
18.45 Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.					=	1.00	nos	₹ 1,178.65	₹ 1,178.65
18.48. Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.					=	1000.00	ltr.	₹ 9.70	₹ 9,700.00
18.50. Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.									
18.50.1 15 mm nominal bore					=	8.00	nos	₹ 715.05	₹ 5,720.40
18.52. Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.									
18.52.1 15 mm nominal bore					=	10.00	nos	₹ 594.75	₹ 5,947.50

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
17.73 Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 17.73.2 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms. each 600.35						= 5.00	nos	₹ 600.35	₹ 3,001.75
7509 PTMT Soap Dish/Holder 138x102x75 mm						= 5.00	each	₹ 58.00	₹ 290.00
1878 Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia						= 1.00	each	₹ 110.00	₹ 110.00
TOTAL FOR SANITARY & WATERSUPPLY									₹ 1,47,372.85
(C) INTERNAL ELECTRIFICATION									
1.GROUND FLOOR									
Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC						15	each	₹ 1,290.00	₹ 19,350.00
1.3.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductorsingle core cable etc. as required.						15	each	₹ 1,213.00	₹ 18,195.00
1.14.11 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.4 X 16 sq. mm + 2 X 6 sq. mm earth wire						41.396	metre	₹ 752.00	₹ 31,129.79

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
1.42 Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc., including supplying and fixing ball and socket arrangement, 2 Nos. down rods of 20 mm dia X 1.6 mm thick steel conduit upto 30 cm length, painting and wiring the down rods and connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core						15	each	₹ 358.00	₹ 5,370.00
1.45 Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable including providing and fixing phenolic laminated sheet cover						10	each	₹ 203.00	₹ 2,030.00
1.53.3 Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.3 run of cable						20.7	metre	₹ 114.00	₹ 2,359.80
2.2.4 Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.200 A, 16 KA,TPMCCB						2	each	₹ 7628.00	₹ 15,256.00

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
2.4.2 Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 6 way (4 + 18), Double door						4	each	₹ 3693.00	₹ 14,772.00
2.10.3 Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Double pole						16	each	₹ 556.00	₹ 8,896.00
2.13 Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 100 A						16	each	₹ 1,047.00	₹ 16,752.00
1.27.6 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required. 12 Module (200mmX150mm)						25	each	₹ 434.00	₹ 10,850.00

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including						6	each	₹ 342.00	₹ 2,052.00
NS- Linear LED Tube 6W						4	each	₹ 1,000.00	₹ 4,000.00
NS- Linear LED Tube 12W						5	each	₹ 1200.00	₹ 6,000.00
NS- Premium model 1200 mm Sweep CROMPTON make), Premium model 1050 mm Sweep CROMPTON make)						8	each	₹ 2063.00	₹ 16,504.00
NS- Supplying including fitting fixing of following A.C. Exhaust fan in the existing hole on the wall of following sweeps with making necessary connection as approved by the Deptt.)as required complete and as directed by the Department.									₹ 0.00
Trans Air 300 mm sweep (Crompton make)						4	each	₹ 1,887.00	₹ 7,548.00
NS - HP single Phase Centrifugal monoblock pump set (Crompton Greaves/ Aquatic/ CRI/ V-Guard make) with DOL Starter (Crompton Greaves/ Control & Switch Gear/ BCH/ L& T / Siemens make) .						1	each	14096.00	₹ 14,096.00
TOTAL GROUND FLOOR ELECTRICITY WORK-									₹ 1,95,160.59
SAY, TOTAL AMOUNT -									₹ 1,95,161.00
2. 1st FLOOR (ELECTRICITY WORK)									
1.4 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC						15	each	₹ 1,290.00	₹ 19,350.00

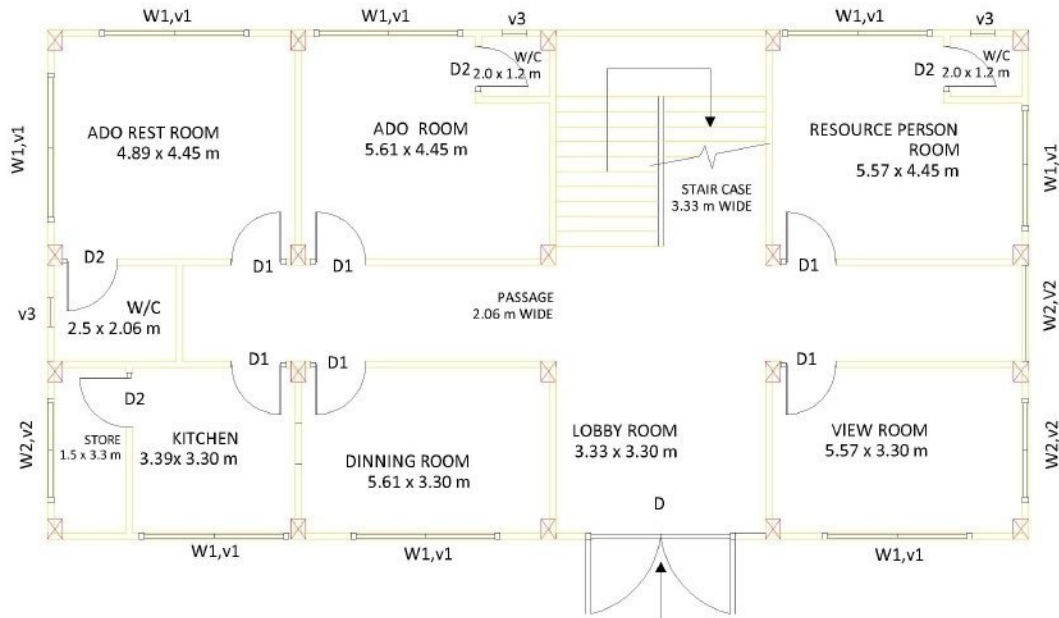
Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
1.3.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing t+B4:B14he point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.						15	each	₹ 1,213.00	₹ 18,195.00
1.14.11 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.4 X 16 sq. mm + 2 X 6 sq. mm earth wire						41.396	metre	₹ 752.00	₹ 31,129.79
1.42 Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc., including supplying and fixing ball and socket arrangement, 2 Nos. down rods of 20 mm dia X 1.6 mm thick steel conduit upto 30 cm length, painting and wiring the down rods and connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core						15	each	₹ 358.00	₹ 5,370.00
1.45 Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover						10	each	₹ 203.00	₹ 2,030.00

Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
1.53.3 Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.3 run of cable						20.70	metre	₹ 114.00	₹ 2,359.80
2.2 Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.200 A, 16 KA,TPMCCB						2.00	each	₹ 7,628.00	₹ 15,256.00
2.4.2 Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 6 way (4 + 18), Double door						4	each	₹ 3,693.00	₹ 14,772.00
2.10.3 Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Double pole						16	each	₹ 556.00	₹ 8,896.00
2.13 Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.100 A						16	each	₹ 1,047.00	₹ 16,752.00

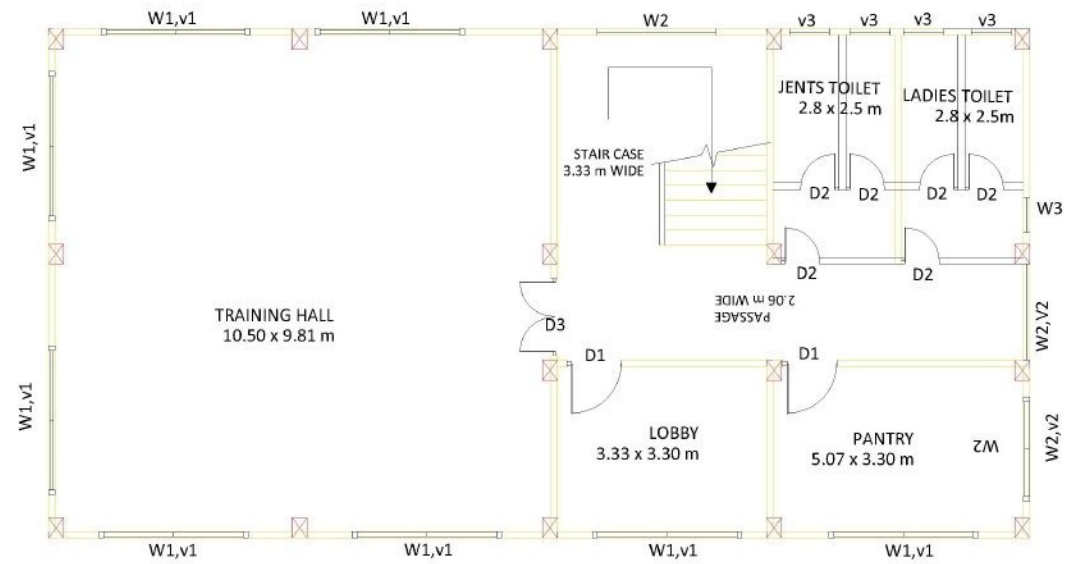
Description of item	No	L	B	D	AREA	QTY	Unit	RATE	AMOUNT
1.27.6 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.12 Module (200mmX150mm)						25	each	₹ 434.00	₹ 10,850.00
1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including						10	each	₹ 342.00	₹ 3,420.00
NS- Carrier 2 Ton 5 Star Split (Ester Neo-i CAI24ES5R30F0) AC						2	each	₹ 59000.00	₹ 1,18,000.00
NS- Linear LED Tube 6W						5	each	₹ 1,000.00	₹ 5,000.00
NS- Linear LED Tube 12W						5	each	₹ 1,200.00	₹ 6,000.00
NS- Premium model 1200 mm Sweep CROMPTON make), Premium model 1050 mm Sweep CROMPTON make)						10	each	₹ 2,063.00	₹ 20,630.00
NS-Supplying and fitting fixing of Hi-Path 1150M Digital Communication System equipped with the following: 2 P&T Ports - 10 Extension Ports (upgradeable up to 34 extensions) Auto Call Back, Built-in FAX/DID						1	each	₹ 45,000.00	₹ 45,000.00
NS- Supplying installation, testing, programming and commissioning of Audio equipment, 4-Channel Power Amplifier, 75 W per channel @ 8 ohms						1	each	₹ 85,581.00	₹ 85,581.00
NS- Supplying including fitting fixing of following A.C. Exhaust fan in the existing hole on the wall of following sweeps with making necessary connection as approved by the Deptt.)as required complete and as directed by the Department.							each		₹ 0.00
Trans Air 300 mm sweep (Crompton make)						4	each	₹ 1,887.00	₹ 7,548.00
TOTAL AMOUNT-									₹ 4,36,139.59

Say, **₹ 4,36,140.00**

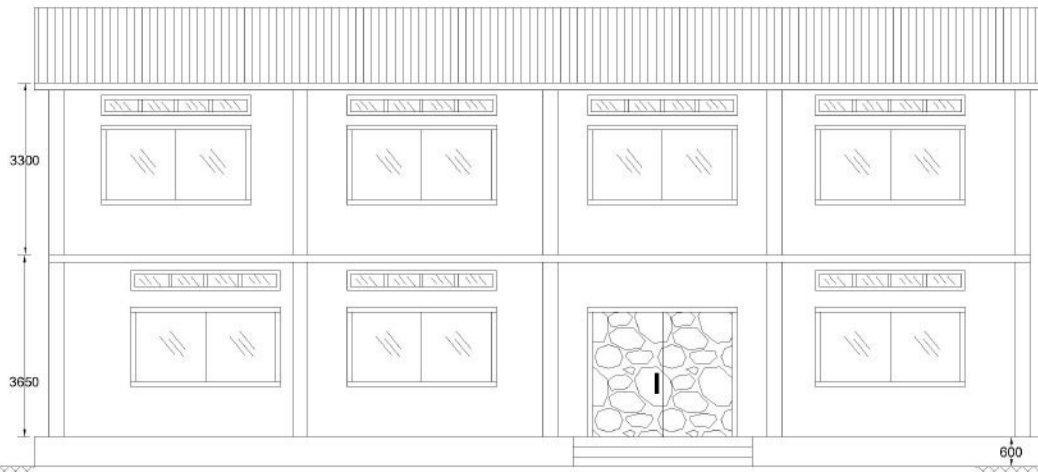
CONSTRUCTION OF KNOWLEDGE CENTRE (G+1) & TRAINING HALL UNDER RIDF- XXV



GROUND FLOOR PLAN



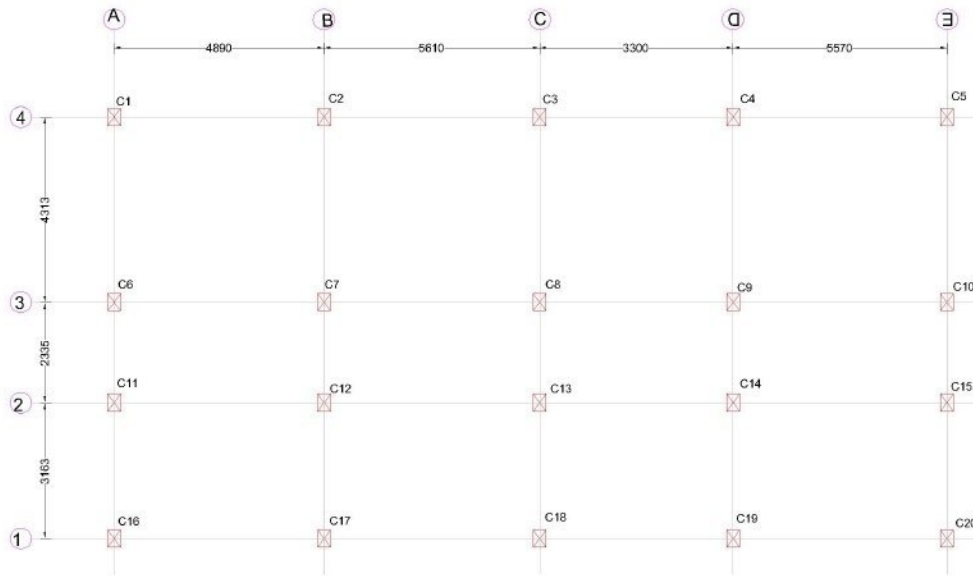
FIRST FLOOR PLAN



FRONT ELEVATION

D	1	DOOR: 3.0 X 2.5 m
D1	9	DOOR: 1.2 X 2.1 m
D2	4	DOOR: 0.9 X 2.1 m
D3	1	DOOR: 1.5 X 2.1
W1	16	WINDOW: 2.5 X 1.5 m
W2	6	WINDOW: 2.0 X 1.5 m
V1	16	VENTILATOR: 2.5 X .45 m
V2	5	VENTILATOR: 2.0 X .45 m
V3	7	VENTILATOR: .75 X .45 m

CONSTRUCTION OF KNOWLEDGE CENTRE (G+1) & TRAINING HALL UNDER RIDF- XXV



COLUMN LAYOUT PLAN

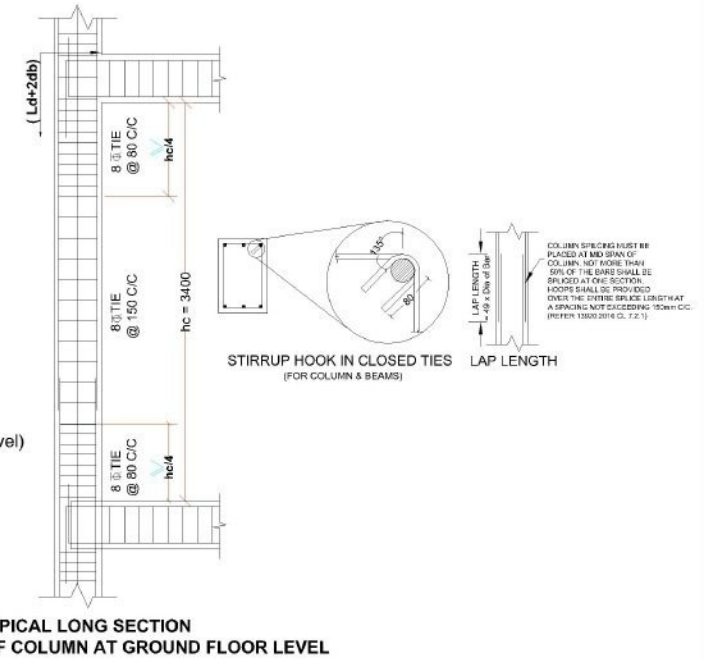
COLUMN SCHEDULE

COLUMN NUMBER	TYP. SECTION	SIZE	STIRRUPS/TIES
C1, C5, C6, C10, C11, C15, C16, C17, C18, C19, C20		300X400	
		REINF. BAR • 8 - 16 #	
C2, C3, C4, C7, C8, C9, C12, C13, C14		300X400	
		REINF. BAR • 10 - 16 #	

▼ 4.250 m
(First floor level)

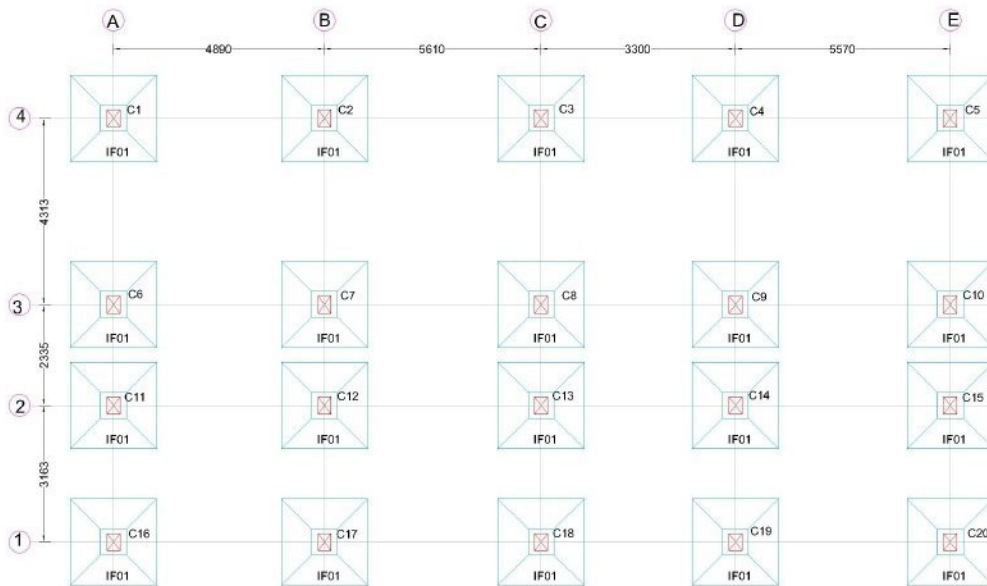
▼ 0.600 m
(Ground floor finish level)

▼ 0.400 m
(Tie beam level)



TYPICAL LONG SECTION OF COLUMN AT GROUND FLOOR LEVEL

CONSTRUCTION OF KNOWLEDGE CENTRE (G+1) & TRAINING HALL UNDER RIDF- XXV



Development length of bar

Dia of bar(mm)	Grade fo concrete M25	
	Fe500	Grade fo concrete M25
8	Ldt(mm)	Ldc(mm)
10	388	311
12	485	388
16	583	466
20	777	621
25	971	777
32	1214	971
	1554	1243

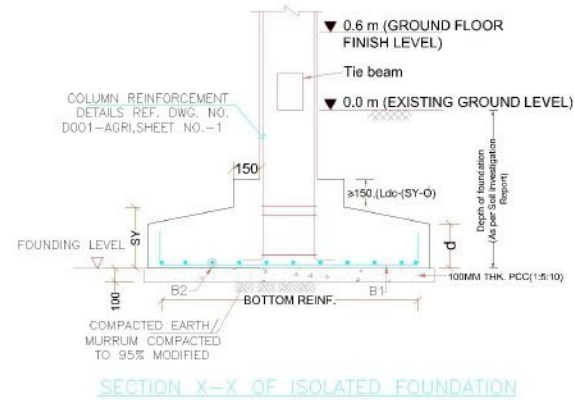
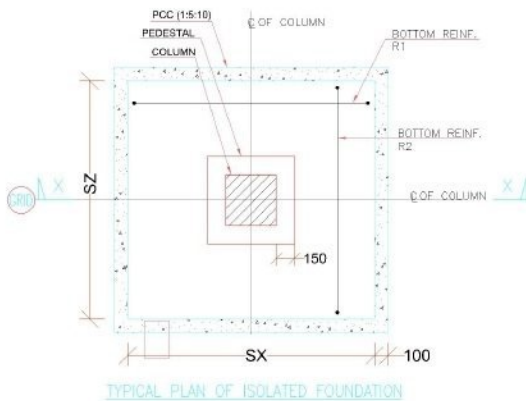
Grade of Steel: Fe-500D
(As per IS:1786-2008)

Grade of Concrete: M25
(Design Mix) as per
CPWD Specifications

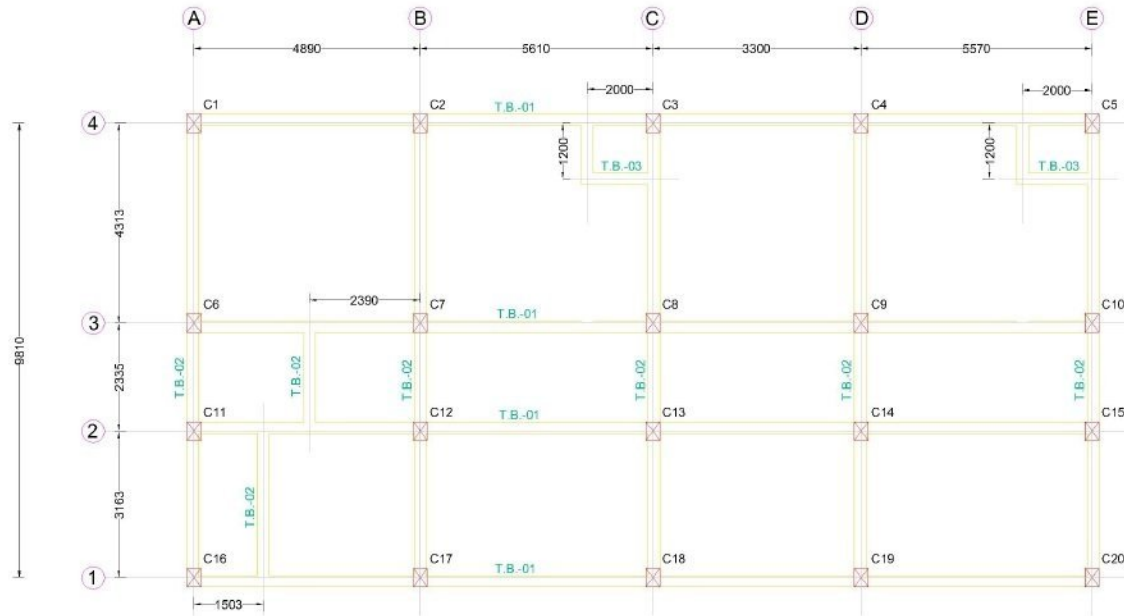
ISOLATED FOOTING SCHEDULE

TYPE	SX	SZ	SY	d	R1	R2
IF01	2000	2000	500	200	12 $\bar{\Phi}$ @ 100 C/C	12 $\bar{\Phi}$ @ 100 C/C

FOUNDATION LAYOUT PLAN



CONSTRUCTION OF KNOWLEDGE CENTRE (G+1) & TRAINING HALL UNDER RIDF- XXV



Grade of Steel: Fe-500D
(As per IS:1786-2008)

Grade of Concrete: M25
(Design Mix) as per
CPWD Specifications

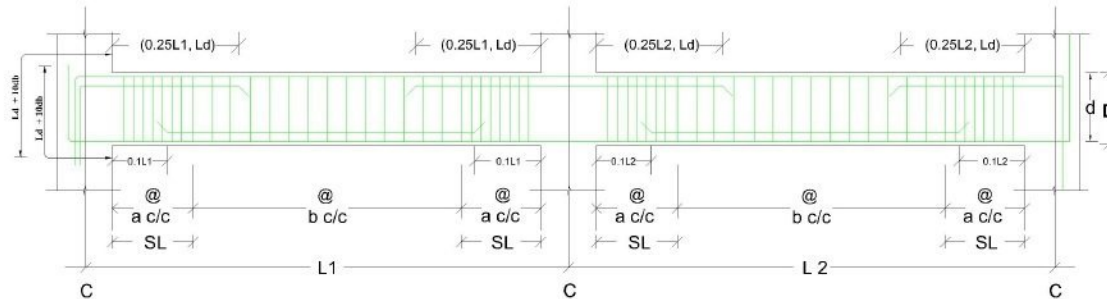
2Legged 8 mm Φ stirrups at supports
and mid-span in all beams

D	SL	a	b
400	750	80	150
350	650	80	150

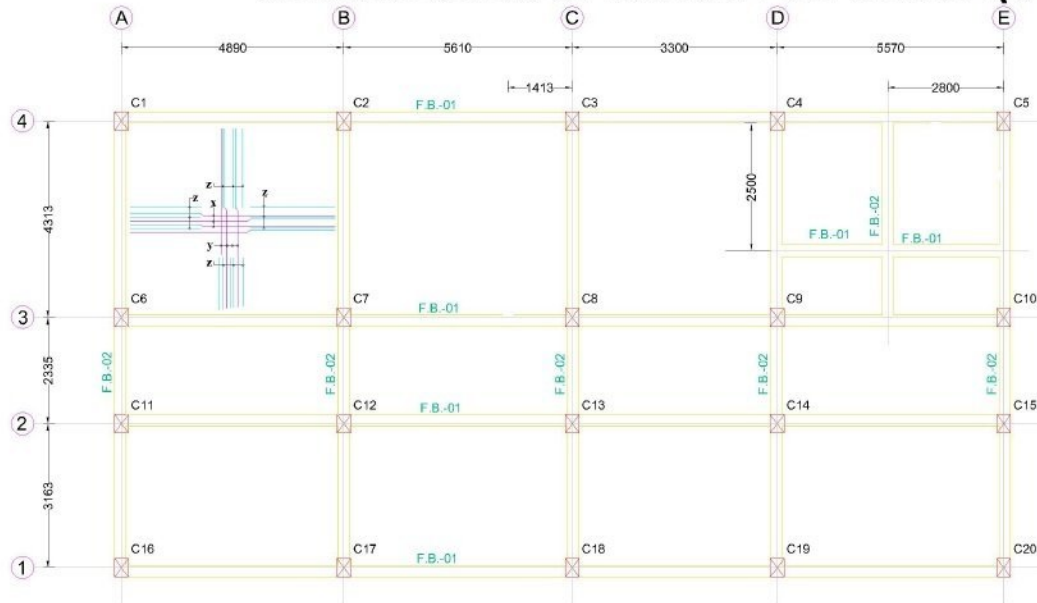
TIE BEAM LAYOUT PLAN

SCHEDULE OF RCC BEAMS

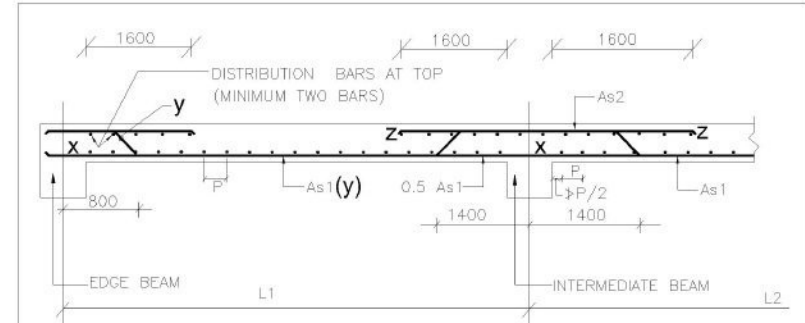
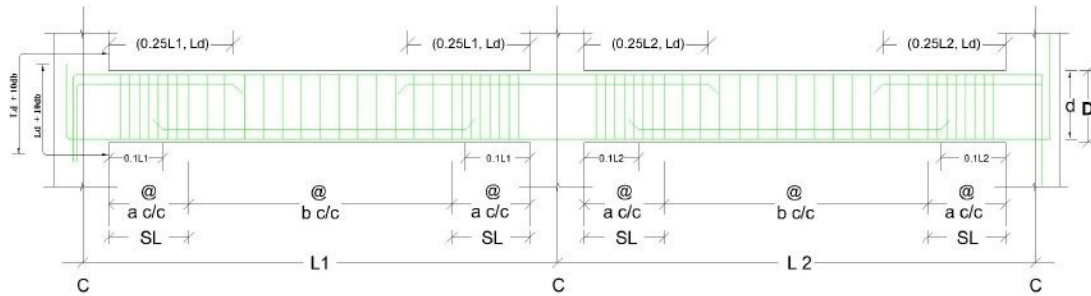
Sl No.	BEAM No.	SIZE		REINFORCEMENT							
				THROUGH BARS		EXTRA BARS		STIRRUPS			
		B	D	TOP BARS	BOTTOM BARS	AT TOP SUPPORT	AT BOTTOM MID	a		b	
						DIA	SPACING	DIA	SPACING		
1	T.B.-01	300	400	2-16 #	2-16 #	2-16 #	1-16 #	8 #	@ 80 C/C	8 #	@ 150 C/C
2	T.B.-02	300	400	2-16 #	2-16 #	2-16 #	1-16 #	8 #	@ 80 C/C	8 #	@ 150 C/C
3	T.B.-03	250	350	2-16 #	2-16 #	--	--	8 #	@ 80 C/C	8 #	@ 150 C/C



CONSTRUCTION OF KNOWLEDGE CENTRE (G+1) & TRAINING HALL UNDER RIDF- XXV



FIRST FLOOR BEAM LAYOUT PLAN



TYPICAL SECTION OF SLAB

SLAB PANEL THICKNESS : 150 mm
 P=100 mm
 P/2= 50 mm
 REINFORCEMENT 10 ϕ @ 100 C/C
 As1: Quantity of bottom reinforcement
 As2: Quantity of top reinforcement

LEGEND
 Slab thickness: 150 mm
 x - 10 ϕ @ 80 c/c
 y - 10 ϕ @ 80 c/c
 z - 10 ϕ @ 180 c/c
 ——— Top bars
 ——— Bottom Bars

2Legged 8 mm ϕ stirrups at supports and mid-span in all beams

D	SL	a	b
450	800	80	150

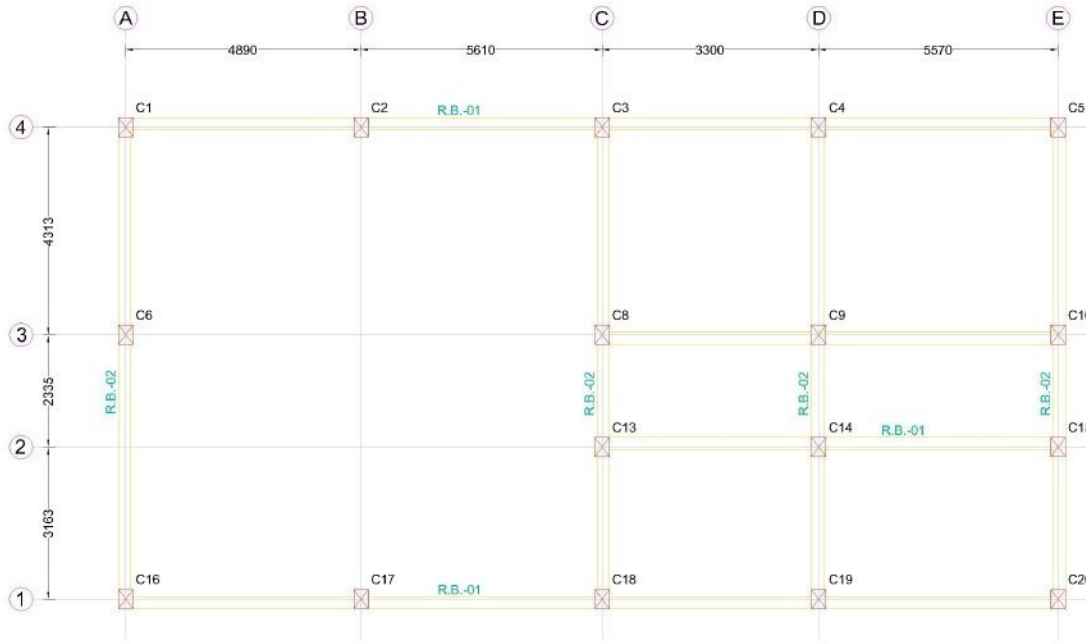
SCHEDULE OF RCC BEAMS

SI No.	BEAM No.	SIZE		REINFORCEMENT							
				THROUGH BARS		EXTRA BARS		STIRRUPS			
		B	D	TOP BARS	BOTTOM BARS	AT TOP SUPPORT	AT BOTTOM MID	a		b	
						DIA	SPACING	DIA	SPACING		
1	F.B.-01	300	450	2-16 #	2-16 #	3-16 #	1-16 #	8 #	@ 80 C/C	8 #	@ 150 C/C
2	F.B.-02	300	450	2-16 #	2-16 #	3-16 #	1-16 #	8 #	@ 80 C/C	8 #	@ 150 C/C
3	F.B.-03	250	350	2-16 #	2-16 #	---	---	8 #	@ 80 C/C	8 #	@ 150 C/C

Grade of Steel: Fe-500D
 (As per IS:1786-2008)

Grade of Concrete: M25
 (Design Mix) as per CPWD Specifications

CONSTRUCTION OF KNOWLEDGE CENTRE (G+1) & TRAINING HALL UNDER RIDF- XXV



SCHEDULE OF RCC BEAMS

Sl No.	BEAM No.	SIZE		REINFORCEMENT							
				THROUGH BARS		EXTRA BARS		STIRRUPS			
		B	D	TOP BARS	BOTTOM BARS	AT TOP SUPPORT	AT BOTTOM MID	a		b	
								DIA	SPACING	DIA	SPACING
1	R.B.-01	250	350	2-16 #	2-16 #	2-16 #	1-16 #	8 #	@ 80 C/C	8 #	@ 150 C/C
2	R.B.-02	250	350	2-16 #	2-16 #	2-16 #	1-16 #	8 #	@ 80 C/C	8 #	@ 150 C/C

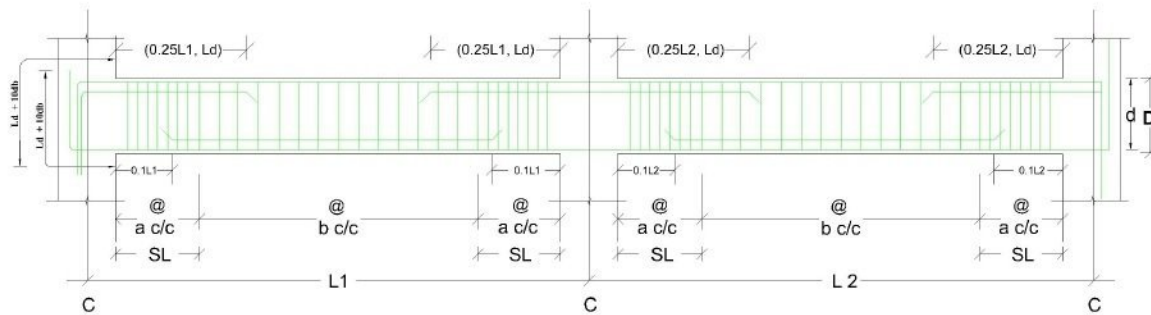
Grade of Steel: Fe-500D
(As per IS:1786-2008)

Grade of Concrete: M25
(Design Mix) as per
CPWD Specifications

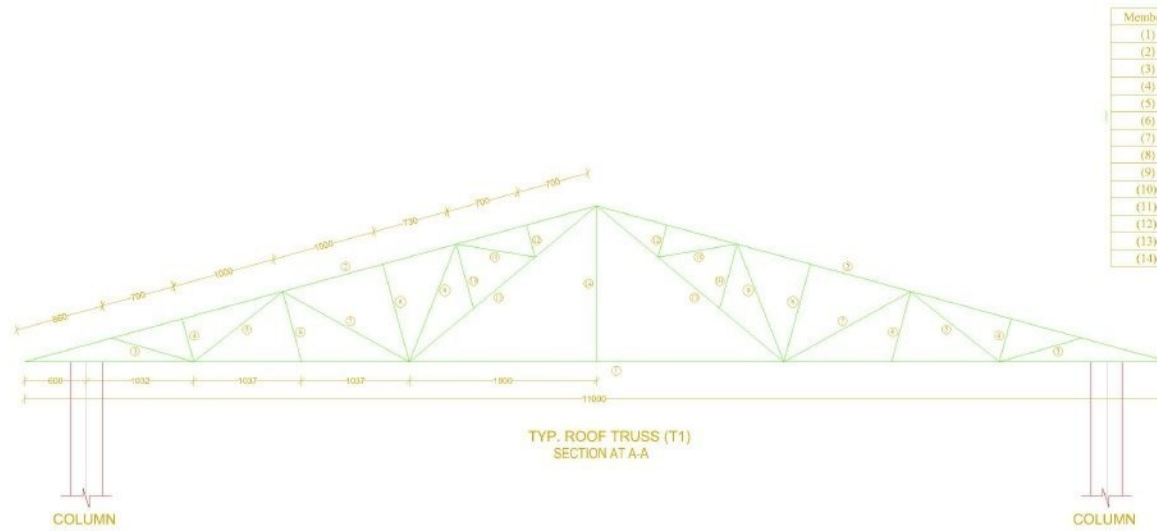
2 Legged 8 mm \varnothing stirrups at supports
and mid-span in all beams

D	SL	a	b
500	800	80	150

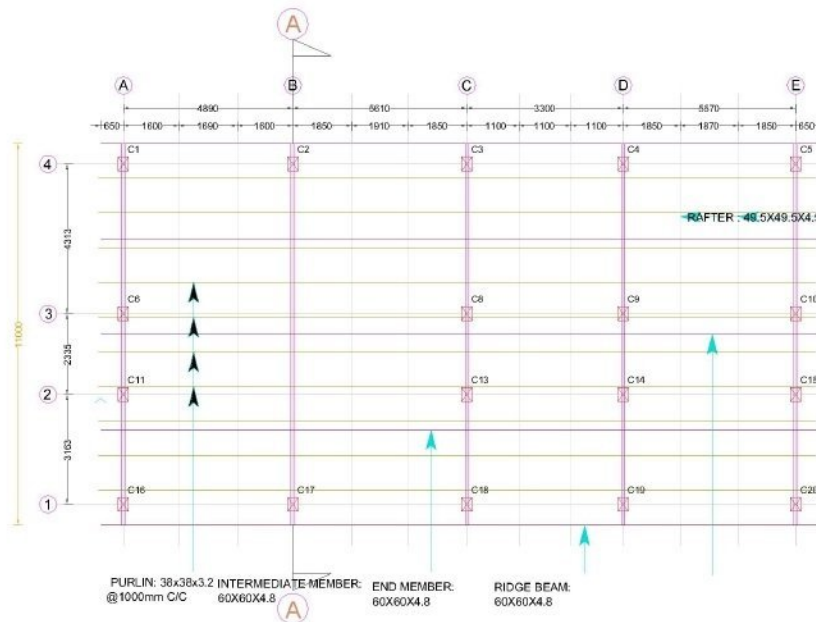
ROOF FLOOR BEAM LAYOUT PLAN



CONSTRUCTION OF KNOWLEDGE CENTRE (G+1) & TRAINING HALL UNDER RIDF- XXV



Member No	Member Length	Member Size
(1)	11000 mm	122x61x3.6
(2)	5690 mm	72x72x3.2
(3)	827 mm	49.5x49.5x2.9
(4)	426 mm	25x25x2.6
(5)	1087 mm	49.5x49.5x2.9
(6)	700 mm	25x25x2.6
(7)	1395 mm	49.5x49.5x2.9
(8)	974 mm	25x25x2.6
(9)	1217 mm	49.5x49.5x2.9
(10)	638 mm	25x25x2.6
(11)	769 mm	49.5x49.5x2.9
(12)	319 mm	25x25x2.6
(13)	2343 mm	72x72x3.2
(14)	1500mm	49.5x49.5x2.9



RIDGE BEAM, RAFTER, INTERMEDIATE MEMBER & END MEMBER AND TRUSS LAYOUT PLAN