B.B.S REPORT

OF

POLICE SCHOOL STAFF QUARTERS

CivilGuruji

Guided by

Er. Vishwajeet Singh

(Corporate Trainer)

Satendra

Engineer's Name

Er. SATENDRA BHARTI

TABLE OF CONTENTS

DECLARATION BY CANDIDATE

I undersigned declare that the report of the project entitled **BBS Report of Civil Guruji Police School Staff Quarters** is based on my own work carried out during the training under the supervision of

Er. Vishwajeet Singh (Corporate Trainer). I assured that the statement made and conclusion drawn are on outcome of my study of research work.

I further certify that the work contained in the report is original and has been done by me under the supervision of my trainer. We have followed the guidelines provided by **Civil Guruji** in writing the project, we have used materials, data, theoretical analysis and text from Civil Guruji, we have given credit to them for giving the detail for references.

Satendra

Er. SATENDRA BHARTI
Branch - Bhopal

Cost Summary

NAME OF WORK: - POLICE SCHOOL STAFF QUATER

DEPARTMENT: - CENTRAL PUBLIC WORK DEPARTMENT

TOTAL BBS (BAR BENDING SCHEDULE)				
S NO	**ITEM**	**TOTAL QUANTITY (KG)**	**RATE**	**AMOUNT**
1	FOOTING	935	107.85	100888.79
2	COLUMN	3295.39	107.85	355407.41
3	GROUND BEAM	1366	107.85	355407.41
4	SLAB BEAM + ROOF BEAM	4424	107.85	477226.54
5	GF & FF SLAB	2786	107.85	300486.88
6	GF& FF STAIRCASE	192	107.85	20656.93
7	GF &FF CHAJJA	206	107.85	22246.45
	TOTAL AMOUNT OF STEEL			**₹ 14,24,186.01**

S No	ITEM	TOTAL STEEL QUANTITY(KG)
	8#	5282.33
	12#	3216.8
	16#	4897.65
	TOTAL	**13396.78**

ACKNOWLEDGEMENT

CERTIFICATE

This is to certify that the report of project entitled **"B.B.S Report of Civil Guruji Police School Staff Quarters"** is record of project work carried out by **Er. SATENDRA BHARTI** under my guidance and supervision for the certificate from

Civil Guruji – Civil Engineer's Training Institute.
To the best of my knowledge and belief the report.

1. Embodies the work of candidate himself,
2. Has duly been completed,
3. Fulfills the requirements of the ordinance relating to certificate and

Is up to the desired standard both in respect of contents and language for being referred to the civil Guruji.

Civil Guruji * Institute Bhopal Civil Engineers

Er. Vishwajeet Singh
(Corporate Trainer)

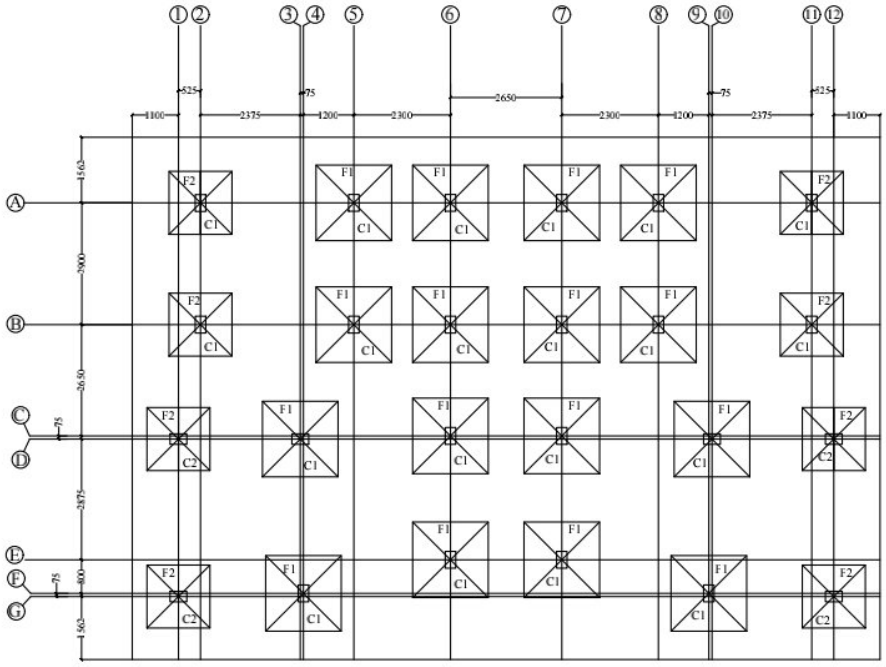
Er. Fazal Ur Rahman
(B.B.S Engineer)

CivilGuruji

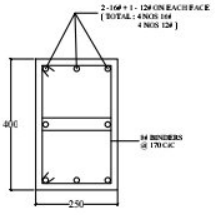
Civil Guruji
Civil Engineer's Training Institute

Rates & Specification	Rates adopted in the Estimate are as per DSR 2023 The work will be carried out as per standard specification of Central Public Work Department, and as directed by Engineer-in charge from time to time.

Engineer-In Charge **Chief Engineer** **Director General**



LAYOUT PLAN OF FOOTING & COLUMN



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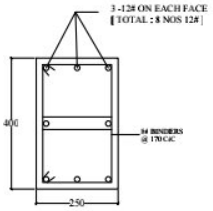

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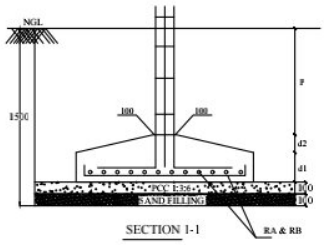
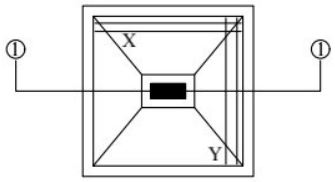


SECTION 1-1



TRAPEZOIDAL FOOTING PLAN

ISOLATED FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE				REINFORCEMENT	
	A	B	d1	d2	RA	RB
F1	1800	1800	250	150	12Φ @150 c/c	12Φ @150 c/c
F2	1500	1500	200	100	12Φ @170 c/c	12Φ @170 c/c

1. THE DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. DRAWINGS AND SPECIFICATIONS.
2. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE STATED.
3. ONLY WRTTEN DIMENSIONS ARE TO BE FOLLOWED & THE DRAWIHGS ARE NOT TO BE SCALLED
4. DEVIATIONS IF ANY TO THE STRUCTURAL DRA'WINGS SHALL BE BROUGHT TO THE NOTICE OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION.
5. GRADE OF R.C.C SHALL BE M-25
6. REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED BAR OF GRADE Fe:415/500 CONFORMING TO IS:1786-1985.
7. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS .
   FOOTING = 50mm
   COLUMNS = 40mm
   FLOOR/ROOF BEAMS = 25mm
   SLABS = 20mm
8. FINISHED GROUND LEVEL HAS BEEN CONSIDERED ± 0 MM/ FEET.
9. IT IS DESIGNED FOR G + 1 STRUCTURE.
10. UNLESS NOTED OTHERWISE THE MIN. LAP/ DEVELOPMENT LENGTH OF BARS OF DIAMETER 'D' SHALL BE AS FOLLOWS.
11. Plot Size 17800 x 12500

CONCRETE GRADE	DEFORMED BARS	
	TENSION	COMPRESSION
M-25	50 D	38 D

Education Purpose Only

signature | signature

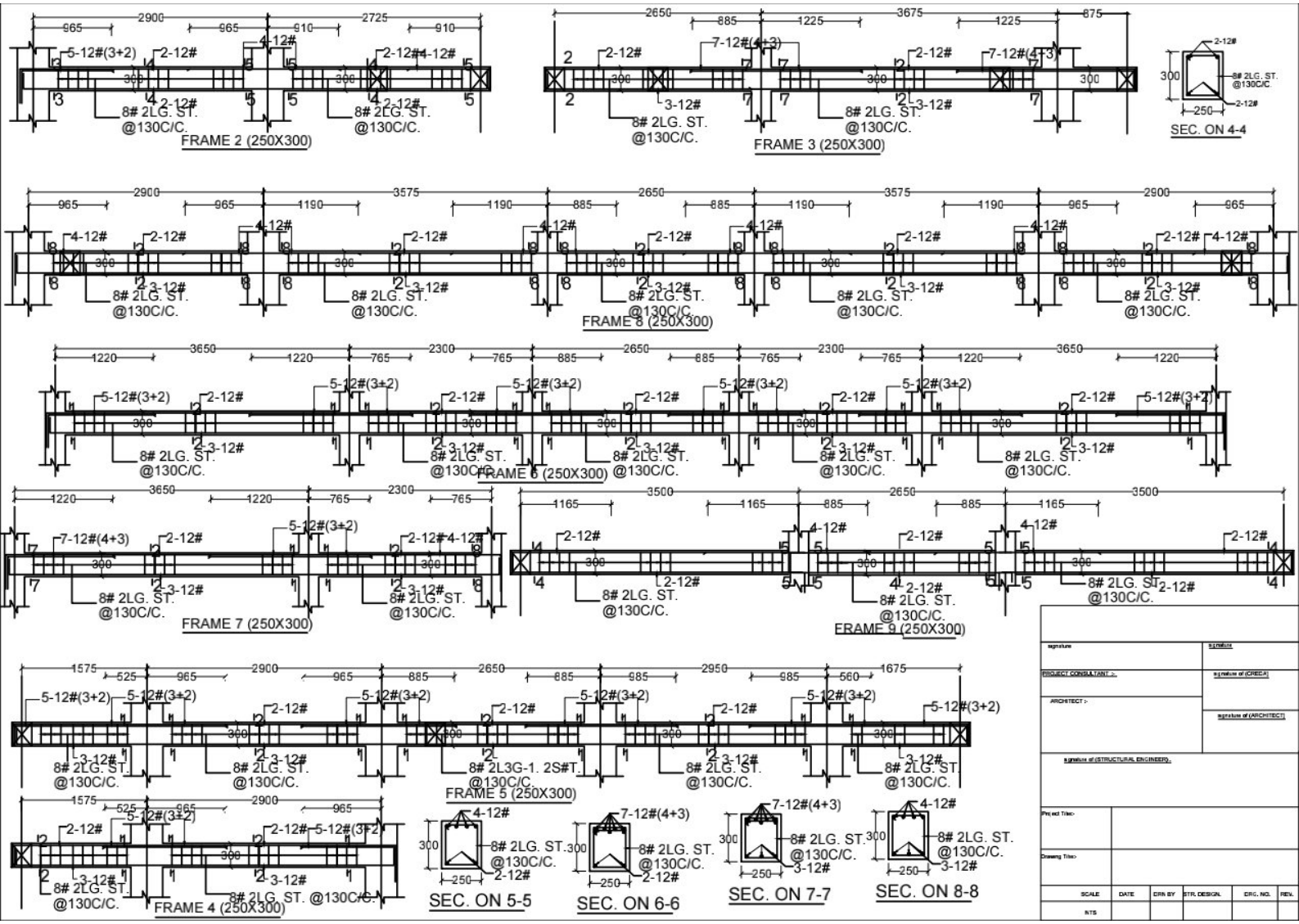
PROJECT CONSULTANT :-

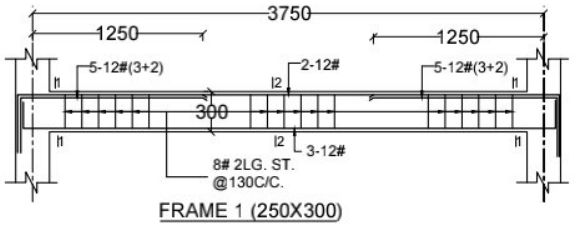
ARCHITECT :-

Education Purpose Only | signature of (ARCHITECT)

signature of (STRUCTURAL ENGINEER) .

Project Title:-	CIVIL GURUJI TECHNOTOWNSHIP SECTOR 23				
Drawing Title:-	LAYOUT PLAN OF COLUMNS & FOOTINGS FOR 2BHK				
SCALE	DATE	DRN BY	STR. DESIGN.	DRG. NO. SSCBHKSTI01	REV. 0





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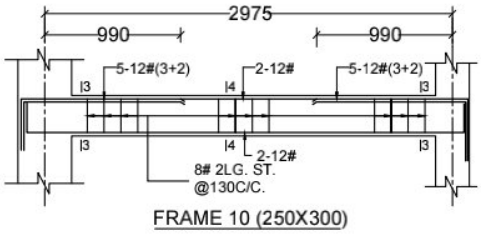

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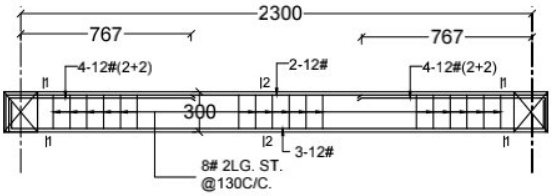

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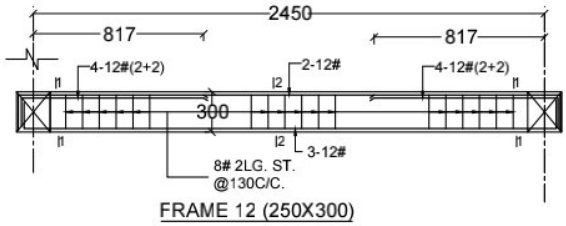

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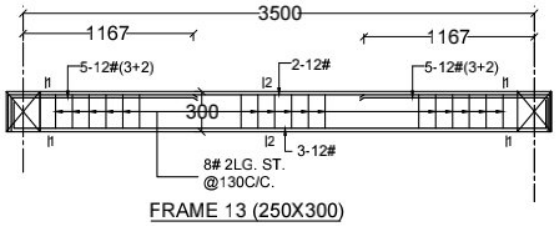

FRAME 13 (250X300)

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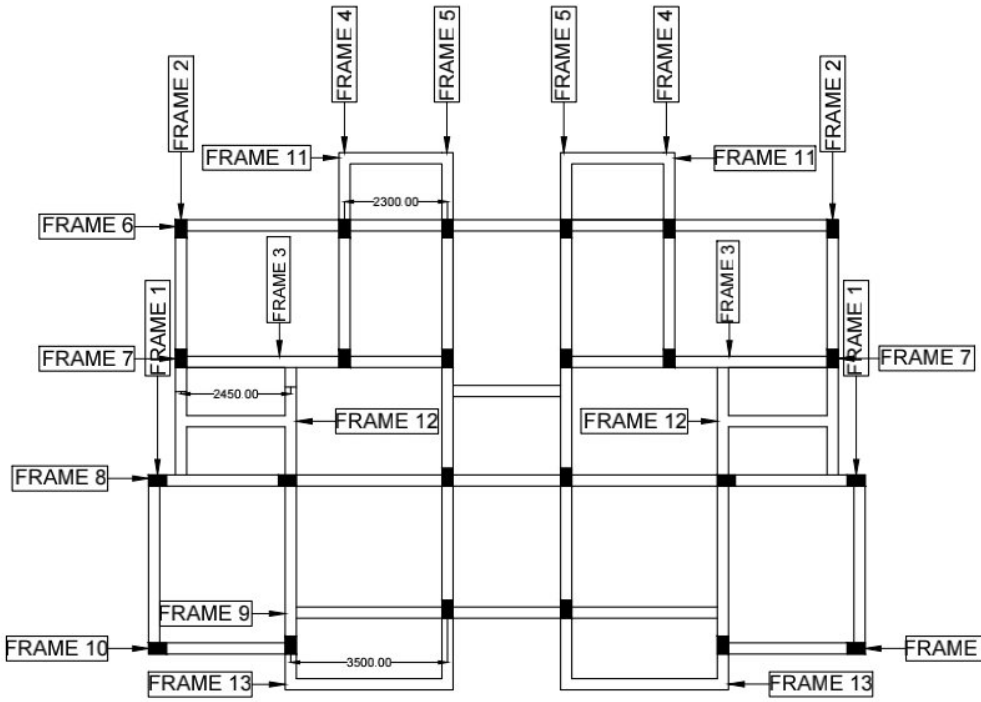
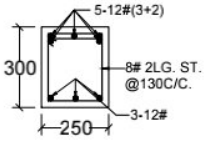
CONCRETE GRADE	DEFORMED BARS	
	TENSION	COMPRESSION
M-25	50 D	38 D

signature	signature
PROJECT CONSULTANT :-	signature of (CREDA)
ARCHITECT :-	signature of (ARCHITECT)
signature of (STRUCTURAL ENGINEER) .	

Project Title:-					
Drawing Title:-					
SCALE	DATE	DRN BY	STR. DESIGN. BY	DWG. NO.	REV.
NTS					



LAYOUT PLAN OF GROUND BEAM.



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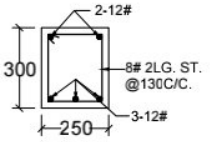

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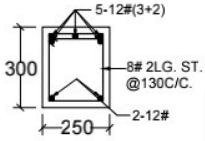

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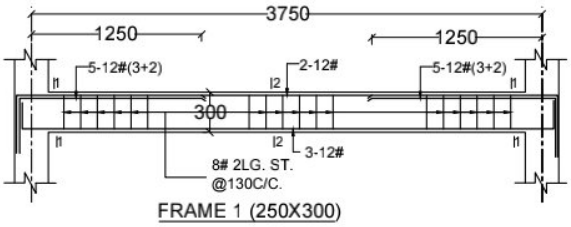

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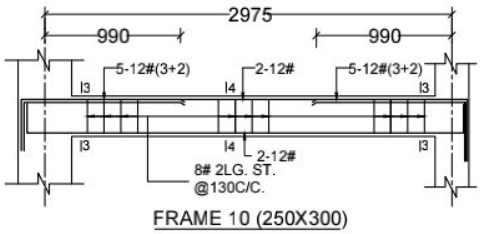

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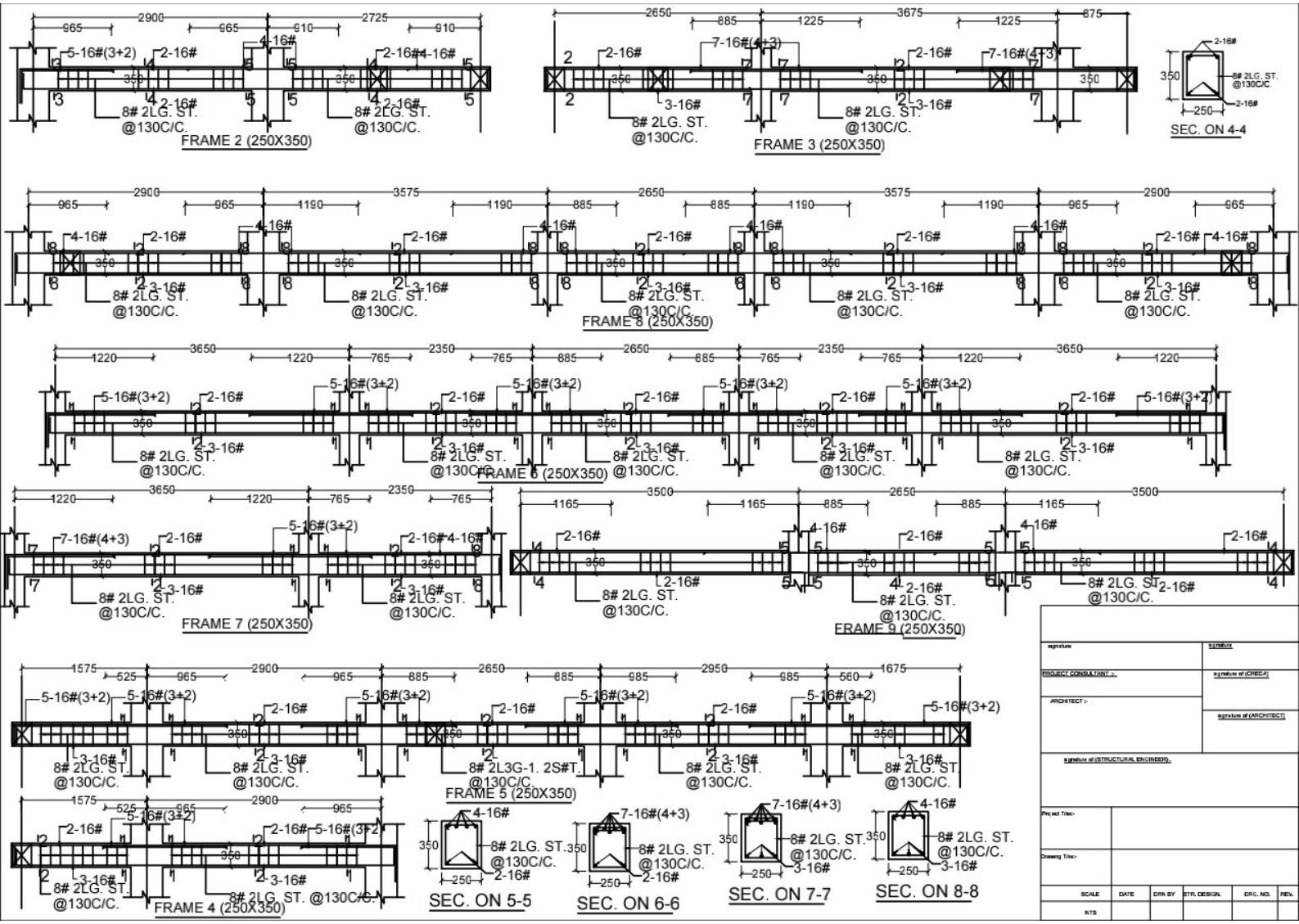

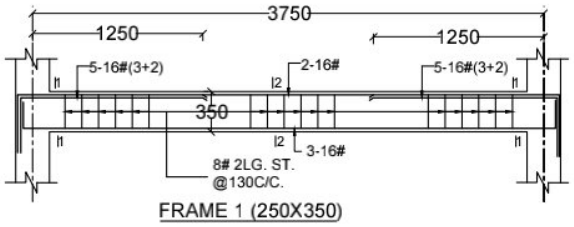

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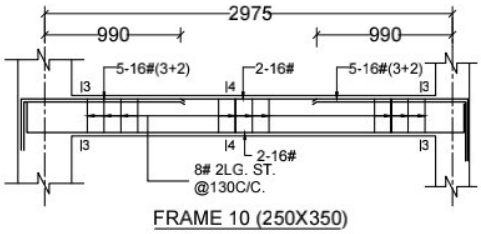

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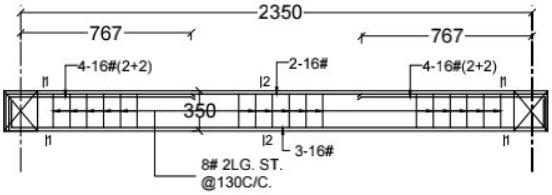

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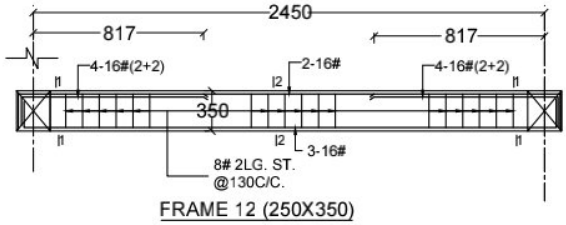

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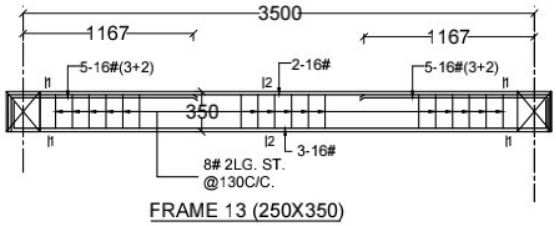

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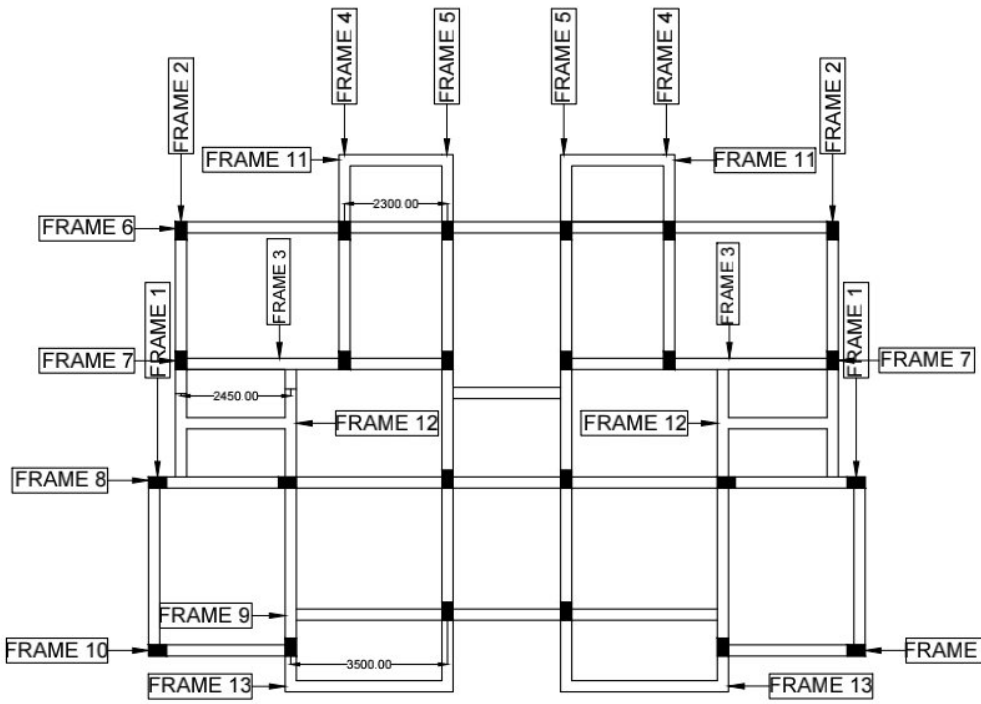
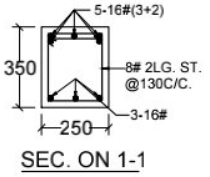
	TENSION	COMPRESSION
M-25	50 D	38 D

signature	signature
PROJECT CONSULTANT :-	signature of (CREDA)
ARCHITECT :-	signature of (ARCHITECT)
signature of (STRUCTURAL ENGINEER) .	

Project Title:-					
Drawing Title:-					
SCALE	DATE	DRN BY	STR. DESIGN.	DRG. NO.	REV.
NTS					



LAYOUT PLAN OF GROUND BEAM.



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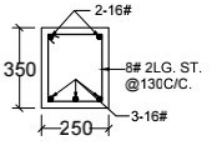

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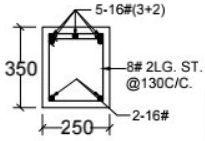

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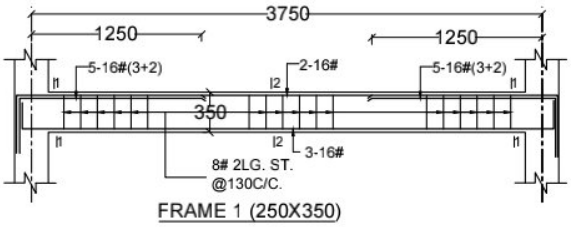

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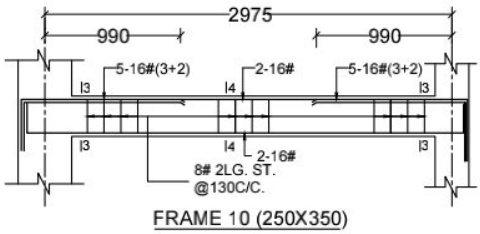

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M-25	50 D	38 D

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ARCHITECT :-	signature of (ARCHITECT)
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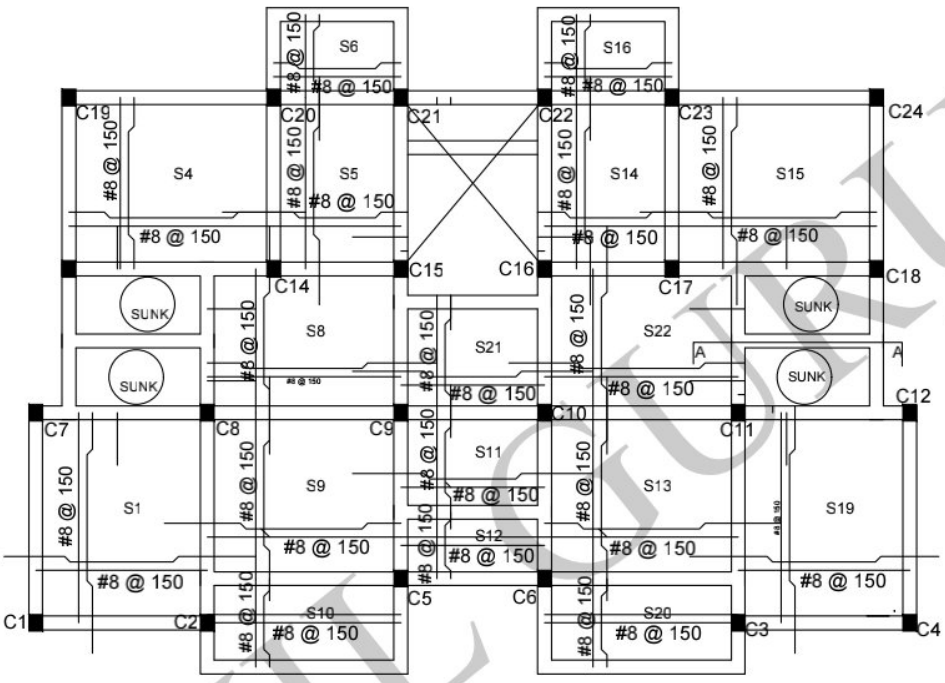
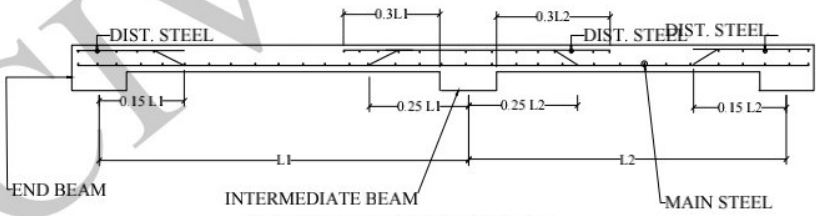


STRUCTURAL DETAILS OF TYPICAL FLOOR SLAB

8 mm BARS @ 150mm C/C IN BOTH WAY
THICKNESS OF SLAB= 125 mm



CURTAILMENT RULE FOR SLAB

signature	signature
	signature of (CREDAI)
ARCHITECT :-	signature of (ARCHITECT)
signature of (STRUCTURAL ENGINEER) :-	
Project Title:	
Drawing Title:	

SCALE	DATE	DRN BY	STR. DESIGN	DRG. NO.	REV.
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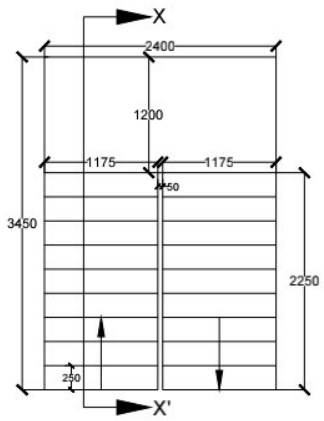
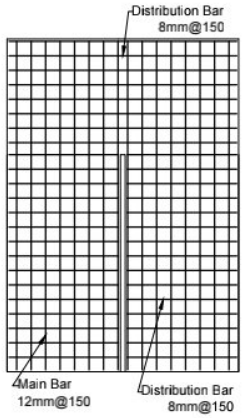
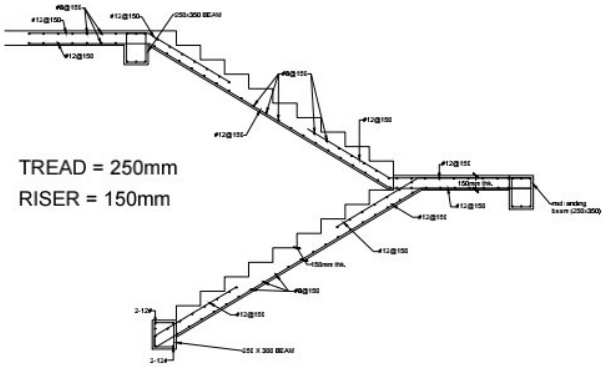


PLAN



R/F PLAN



Section X-X'

Staircase Plan & Section

IMPORTANT NOTES

1. THE DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. DRAWINGS AND SPECIFICATIONS.
2. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE STATED.
3. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED & THE DRAWINGS ARE NOT TO BE SCALLED
4. DEVIATIONS IF ANY TO THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF THE STRUCTURAL CONSULTANT BEFORE EXECUTION.
5. GRADE OF R.C.C SHALL BE M-25
6. REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED BAR OF GRADE Fe:415 / 500 CONFORMING TO IS:1786-1985.
7. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS .
   COLUMNS = 40mm
   FLOOR/ROOF BEAMS = 25mm
   SLABS = 20mm
   STAIRCASE = 20mm
8. FINISHED GROUND LEVEL HAS BEEN CONSIDERED ± 0 MM/ FEET.
9. IT IS DESIGNED FOR S+1 STRUCTURE.
10. UNLESS NOTED OTHERWISE THE MIN. LAP/ DEVELOPMENT LENGTH OF BARS OF DIAMETER 'D' SHALL BE AS FOLLOWS.

Development Length (Ld) & Lapping Length

CONCRETE GRADE	DEFORMED BARS	
	TENSION	COMPRESSION
M-25	50 D	38 D

signature	signature
PROJECT CONSULTANT :-	signature of (CREDAI
ARCHITECT :-	signature of (ARCHITECT)
signature of (STRUCTURAL ENGINEER) .	
Project Title:-	
Drawing Title:-	

SCALE	DATE	DRN BY	STR. DESIGN	DRG. NO.	REV.
NTS					

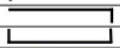
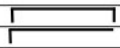
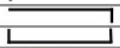
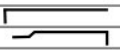
BBS (BAR BENDING SCHEDULE) OF FOOTING

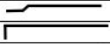
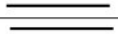
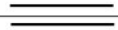
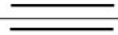
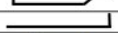
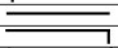
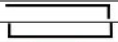
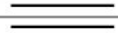
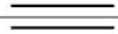
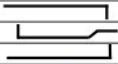
S.NO	DESCRIPTION	SHAPE OF BAR	NO. OF ITEMS	DIA. OF BAR	NO. OF BAR	CUTTING LENGTH (M)	TOTAL LENGTH (M)	UNIT WT. (KG/M)	TOTAL WT. (KG)	8MM (KG)	12MM (KG)	16MM (KG)
1	F1											
	Main Bar		16	12#	13	1.952	406.016	0.888	360.542		360.542	
	Dist. Bar		16	12#	13	1.928	401.024	0.888	356.109		356.109	
		TOTAL QUNTITY OF STEEL FOOTING 1							**716.652**			
2	F2											
	Main Bar		8	12#	10	1.552	124.16	0.888	110.254		110.254	
	Dist. Bar		8	12#	10	1.528	122.24	0.888	108.549		108.549	
		TOTAL QUNTITY OF STEEL FOOTING 2							**218.803**			
		TOTAL QUNTITY OF STEEL FOOTING							**935**			
											935.455	

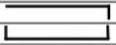
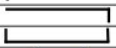
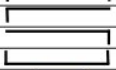
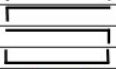
BBS (BAR BENDING SCHEDULE) OF COLUMN

S.NO	DESCRIPTION	SHAPE OF BAR	NO. OF ITEMS	DIA. OF BAR	NO. OF BAR	CUTTING LENGTH (M)	TOTAL LENGTH (M)	UNIT WT. (KG/M)	TOTAL WT. (KG)	8MM (KG)	12MM (KG)	16MM (KG)
	COLUMN- C1		10									
1	**PARAPET WALL**											
	C1		10	16#	4	4.2565	170.260	1.580	269.011			269.011
	C1'		10	12#	4	3.2645	130.580	0.888	115.955		115.955	
	C2		10	16#	4	3.925	157.000	1.580	248.060			248.060
	C2'		10	12#	4	3.725	149.000	0.888	132.312		132.312	
	C3		10	16#	4	2.7725	110.900	1.580	175.222			175.222
	C3'		10	12#	4	3.5725	142.900	0.888	126.895		126.895	
	STIRRUPS		10	8#	110	0.848	932.800	0.395	368.456	368.456		
		TOTAL LENGTH OF COLUMN- C1							**1435.911**			
	COLUMN- C1		6									
2	**ROOF TOP**											
	C1		6	16#	4	4.2565	102.156	1.580	161.406			161.406
	C1'		6	12#	4	3.2645	78.348	0.888	69.573		69.573	
	C2		6	16#	4	3.925	94.200	1.580	148.836			148.836
	C2'		6	12#	4	3.725	89.400	0.888	79.387		79.387	
	C3		6	16#	4	1.7725	42.540	1.580	67.213			67.213
	C3'		6	12#	4	2.5725	61.740	0.888	54.825		54.825	
	STIRRUPS		6	8#	98	0.848	498.624	0.395	196.956	196.956		
		TOTAL LENGTH OF COLUMN- C1							**778.198**			
	COLUMN- C1											
3	**STAIRCASE TOWER**											
	C1		4	16#	4	4.2565	68.104	1.580	107.604			107.604
	C1'		4	12#	4	3.2645	52.232	0.888	46.382		46.382	
	C2		4	16#	4	3.925	62.800	1.580	99.224			99.224
	C2'		4	12#	4	3.725	59.600	0.888	52.925		52.925	
	C3		4	16#	4	3.8725	61.960	1.580	97.897			97.897
	C3'		4	12#	4	4.6725	74.760	0.888	66.387		66.387	
	STIRRUPS		4	8#	122	0.848	413.824	0.395	163.460	163.460		
		TOTAL LENGTH OF COLUMN- C1							**633.879**			
	COLUMN- C2											
4	**PARAPET WALL**											
	C1		4	12#	4	4.2565	68.104	0.888	60.476		60.476	
	C1'		4	12#	4	3.2645	52.232	0.888	46.382		46.382	
	C2		4	12#	4	3.7250	59.600	0.888	52.925		52.925	
	C2'		4	12#	4	3.7250	59.600	0.888	52.925		52.925	
	C3		4	12#	4	2.5725	41.160	0.888	36.550		36.550	
	C3'		4	12#	4	3.5725	57.160	0.888	50.758		50.758	
	STIRRUPS		4	8#	110	0.8480	373.120	0.395	147.382	147.382		
		TOTAL LENGTH OF COLUMN- C1							**447.399**			
		TOTAL LENGTH OF STEEL COLUMN							**3295.386**	**876.255**	**1044.657**	**1374.474**

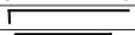
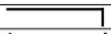
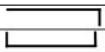
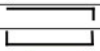
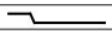
BBS (BAR BENDING SCHEDULE) OF GROUND BEAM

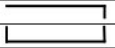
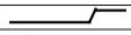
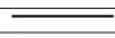
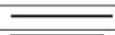
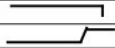
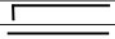
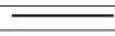
	DESCRIPTION	SHAPE OF BAR	NO. OF ITEMS	DIA. OF BAR	NO. OF BAR	CUTTING LENGTH (M)	TOTAL LENGTH (M)	UNIT WT. (KG/M)	TOTAL WT. (KG)	8MM (KG)	12MM (KG)	16MM (KG)
	Frame 1											
	Top Main Bar		2	12#	2	4.652	18.608	0.888	16.524		16.524	
	Top Left Extra Bar		2	12#	3	1.701	10.206	0.888	9.063		9.063	
1	Top Right Extra Bar		2	12#	3	1.701	10.206	0.888	9.063		9.063	
	Bottom Main Bar		2	12#	3	4.652	27.912	0.888	24.786		24.786	
	Stirrups		2	8#	28	1.06	59.360	0.395	23.447	23.447		
		TOTAL QUANTITY OF STEEL IN FRAME 1							**82.883**			
	Frame 2											
	Top Main Bar		2	12#	2	6.327	25.308	0.888	22.474		22.474	
	Top Left Extra Bar		2	12#	3	1.341	8.046	0.888	7.145		7.145	
2	Top Center Extra Bar		2	12#	2	1.875	7.500	0.888	6.660		6.660	
	Top Right Extra Bar		2	12#	2	1.236	4.944	0.888	4.390		4.390	
	Bottom Main Bar		2	12#	2	6.327	25.308	0.888	22.474		22.474	
	Stirrups		2	8#	39	1.06	82.680	0.395	32.659	32.659		
		TOTAL QUANTITY OF STEEL IN FRAME 2							**95.801**			
	Frame 3											
	Top Main Bar		2	12#	2	7.852	31.408	0.888	27.890		27.890	
	Top Center Extra Bar		2	12#	5	2.110	21.100	0.888	18.737		18.737	
3	Top Right Extra Bar		2	12#	5	2.426	24.260	0.888	21.543		21.543	
	Bottom Main Bar		2	12#	3	7.852	47.112	0.888	41.835		41.835	
	Stirrups		2	8#	50	1.06	106.000	0.395	41.870	41.870		
		TOTAL QUANTITY OF STEEL IN FRAME 3							**151.875**			
	Frame 4											
	Top Main Bar		2	12#	2	5.177	20.708	0.888	18.389		18.389	
	Top Center Extra Bar		2	12#	3	1.490	8.94	0.888	7.939		7.939	
4	Top Right Extra Bar		2	12#	3	1.341	8.046	0.888	7.145		7.145	
	Bottom Main Bar		2	12#	3	5.177	31.062	0.888	27.583		27.583	
	Stirrups		2	8#	30	1.06	63.60	0.395	25.122	25.122		
		TOTAL QUANTITY OF STEEL IN FRAME 4							**86.177**			
	Frame 5											
	Top Main Bar 1		2	12#	2	6.566	26.264	0.888	23.322		23.322	
	Top Main Bar 2		2	12#	2	6.436	25.744	0.888	22.861		22.861	
	Top Left Extra Bar		2	12#	3	2.866	17.196	0.888	15.270		15.270	
	Top Center Extra Bar 1		2	12#	3	1.850	11.100	0.888	9.857		9.857	
5	Top Center Extra Bar 2		2	12#	3	1.870	11.220	0.888	9.963		9.963	
	Top Right Extra Bar		2	12#	3	2.986	17.916	0.888	15.909		15.909	
	Bottom Main Bar 1		2	12#	3	6.123	36.738	0.888	32.623		32.623	

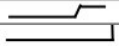
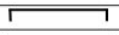
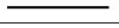
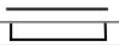
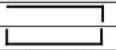
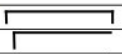
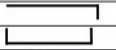
	Bottom Main Bar 2		2	12#	3	6.879	41.274	0.888	36.651		36.651	
	Stirrups		2	8#	78	1.06	165.360	0.395	65.317	65.317		
		TOTAL QUANTITY OF STEEL IN FRAME 5							**231.775**			
	Frame 6											
	Top Main Bar 1		1	12#	2	8.166	16.332	0.888	14.503		14.503	
	Top Main Bar 2		1	12#	2	7.886	15.772	0.888	14.006		14.006	
	Top Left Extra Bar		1	12#	3	1.671	5.013	0.888	4.452		4.452	
	Top Center Extra Bar 1		1	12#	3	1.985	5.955	0.888	5.288		5.288	
	Top Center Extra Bar 2		1	12#	3	1.650	4.950	0.888	4.396		4.396	
6	Top Center Extra Bar 3		1	12#	3	1.650	4.950	0.888	4.396		4.396	
	Top Center Extra Bar 4		1	12#	3	1.985	5.955	0.888	5.288		5.288	
	Top Right Extra Bar		1	12#	3	1.671	5.013	0.888	4.452		4.452	
	Bottom Main Bar 1		1	12#	3	7.648	22.944	0.888	20.374		20.374	
	Bottom Main Bar 2		1	12#	3	8.404	25.212	0.888	22.388		22.388	
	Stirrups		1	8#	104	1.06	110.240	0.395	43.545	43.545		
		TOTAL QUANTITY OF STEEL IN FRAME 6							**143.086**			
	Frame 7											
	Top Main Bar		2	12#	2	6.852	27.408	0.888	24.338		24.338	
	Top Left Extra Bar		2	12#	5	1.671	16.710	0.888	14.838		14.838	
	Top Center Extra Bar		2	12#	3	1.985	11.910	0.888	10.576		10.576	
7	Top Right Extra Bar		2	12#	2	1.216	4.864	0.888	4.319		4.319	
	Bottom Main Bar		2	12#	3	6.852	41.112	0.888	36.507		36.507	
	Stirrups		2	8#	43	1.06	91.160	0.395	36.008	36.008		
		TOTAL QUANTITY OF STEEL IN FRAME 7							**126.588**			
	Frame 8											
	Top Main Bar 1		1	12#	2	8.616	17.232	0.888	15.302		15.302	
	Top Main Bar 2		1	12#	2	8.336	16.672	0.888	14.805		14.805	
	Top Left Extra Bar		1	12#	2	1.341	2.682	0.888	2.382		2.382	
	Top Center Extra Bar 1		1	12#	2	2.155	4.310	0.888	3.827		3.827	
	Top Center Extra Bar 2		1	12#	2	2.075	4.150	0.888	3.685		3.685	
8	Top Center Extra Bar 3		1	12#	2	2.075	4.150	0.888	3.685		3.685	
	Top Center Extra Bar 4		1	12#	2	2.155	4.310	0.888	3.827		3.827	
	Top Right Extra Bar		1	12#	2	1.341	2.682	0.888	2.382		2.382	
	Bottom Main Bar 1		1	12#	3	8.098	24.294	0.888	21.573		21.573	
	Bottom Main Bar 2		1	12#	3	8.854	26.562	0.888	23.587		23.587	
	Stirrups		1	8#	108	1.06	114.480	0.395	45.220	45.220		
		TOTAL QUANTITY OF STEEL IN FRAME 8							**140.275**			
	Frame 9											
	Top Main Bar		1	12#	2	10.302	20.604	0.888	18.296		18.296	
	Top Center Extra Bar 1		1	12#	2	2.050	4.100	0.888	3.641		3.641	
9	Top Center Extra Bar 2		1	12#	2	2.050	4.100	0.888	3.641		3.641	

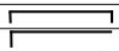
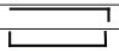
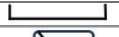
	Bottom Main Bar		1	12#	2	10.302	20.604	0.888	18.296		18.296	
	Stirrups		1	8#	70	1.06	74.200	0.395	29.309	29.309		
		TOTAL QUANTITY OF STEEL IN FRAME 9							**73.183**			
	Frame 10											
	Top Main Bar		2	12#	2	3.802	15.208	0.888	13.505		13.505	
	Top Left Extra Bar		2	12#	3	1.366	8.196	0.888	7.278		7.278	
10	Top Right Extra Bar		2	12#	3	1.441	8.646	0.888	7.678		7.678	
	Bottom Main Bar		2	12#	2	3.802	15.208	0.888	13.505		13.505	
	Stirrups		2	8#	22	1.06	46.640	0.395	18.423	18.423		
		TOTAL QUANTITY OF STEEL IN FRAME 10							**60.388**			
	Frame 11											
	Top Main Bar		2	12#	2	2.952	11.808	0.888	10.486		10.486	
	Top Left Extra Bar		2	12#	2	1.093	4.372	0.888	3.882		3.882	
11	Top Right Extra Bar		2	12#	2	1.093	4.372	0.888	3.882		3.882	
	Bottom Main Bar		2	12#	3	2.952	17.712	0.888	15.728		15.728	
	Stirrups		2	8#	17	1.06	36.040	0.395	14.236	14.236		
		TOTAL QUANTITY OF STEEL IN FRAME 11							**48.214**			
	Frame 12											
	Top Main Bar		2	12#	2	3.102	12.408	0.888	11.018		11.018	
	Top Left Extra Bar		2	12#	2	1.143	4.572	0.888	4.060		4.060	
12	Top Right Extra Bar		2	12#	2	1.143	4.572	0.888	4.060		4.060	
	Bottom Main Bar		2	12#	3	3.102	18.612	0.888	16.527		16.527	
	Stirrups		2	8#	18	1.06	38.160	0.395	15.073	15.073		
		TOTAL QUANTITY OF STEEL IN FRAME 12							**50.739**			
	Frame 13											
	Top Main Bar		2	12#	2	4.152	16.608	0.888	14.748		14.748	
	Top Left Extra Bar		2	12#	3	1.493	8.958	0.888	7.955		7.955	
13	Top Right Extra Bar		2	12#	3	1.493	8.958	0.888	7.955		7.955	
	Bottom Main Bar		2	12#	3	4.152	24.912	0.888	22.122		22.122	
	Stirrups		2	8#	26	1.06	55.120	0.395	21.772	21.772		
		TOTAL QUANTITY OF STEEL IN FRAME 13							**74.552**			
		TOTAL QUANTITY OF STEEL GROUND BEAM							**1366**	**412.001**	**953.534**	

BBS (BAR BENDING SCHEDULE) OF SLAB BEAM

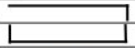
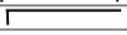
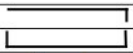
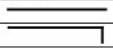
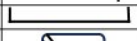
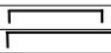
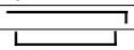
	DESCRIPTION	SHAPE OF BAR	NO. OF ITEMS	DIA. OF BAR	NO. OF BAR	CUTTING LENGTH (M)	TOTAL LENGTH (M)	UNIT WT. (KG/M)	TOTAL WT. (KG)	8MM (KG)	12MM (KG)	16MM (KG)
1	**Frame 1**											
	Top Main Bar		2	16#	2	5.036	20.144	1.580	31.828			31.828
	Top Left Extra Bar		2	16#	3	1.893	11.358	1.580	17.946			17.946
	Top Right Extra Bar		2	16#	3	1.893	11.358	1.580	17.946			17.946
	Bottom Main Bar		2	16#	3	5.036	30.216	1.580	47.741			47.741
	Stirrups		2	8#	28	1.16	64.960	0.395	25.659	25.659		
		TOTAL QUANTITY OF STEEL IN FRAME 1							**141.119**			
2	**Frame 2**											
	Top Main Bar		2	16#	2	6.561	26.244	1.580	41.466			41.466
	Top Left Extra Bar		2	16#	3	1.533	9.198	1.580	14.533			14.533
	Top Center Extra Bar		2	16#	2	1.875	7.500	1.580	11.850			11.850
	Top Right Extra Bar		2	16#	2	1.278	5.112	1.580	8.077			8.077
	Bottom Main Bar		2	16#	2	6.561	26.244	1.580	41.466			41.466
	Stirrups		2	8#	39	1.16	90.480	0.395	35.740	35.740		
		TOTAL QUANTITY OF STEEL IN FRAME 2							**153.130**			
3	**Frame 3**											
	Top Main Bar		2	16#	2	7.936	31.744	1.580	50.156			50.156
	Top Center Extra Bar		2	16#	5	2.110	21.100	1.580	33.338			33.338
	Top Right Extra Bar		2	16#	5	2.468	24.680	1.580	38.994			38.994
	Bottom Main Bar		2	16#	3	7.936	47.616	1.580	75.233			75.233
	Stirrups		2	8#	50	1.16	116.000	0.395	45.820	45.820		
		TOTAL QUANTITY OF STEEL IN FRAME 3							**243.541**			
4	**Frame 4**											
	Top Main Bar		2	16#	2	5.411	21.644	1.580	34.198			34.198
	Top Center Extra Bar		2	16#	3	1.490	8.94	1.580	14.125			14.125
	Top Right Extra Bar		2	16#	3	1.533	9.198	1.580	14.533			14.533
	Bottom Main Bar		2	16#	3	5.411	32.466	1.580	51.296			51.296
	Stirrups		2	8#	30	1.16	69.60	0.395	27.492	27.492		
		TOTAL QUANTITY OF STEEL IN FRAME 4							**141.644**			
	Frame 5											
	Top Main Bar 1		2	16#	2	6.608	26.432	1.580	41.763			41.763
	Top Main Bar 2		2	16#	2	6.678	26.712	1.580	42.205			42.205

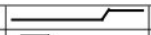
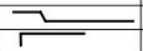
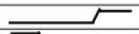
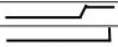
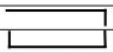
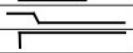
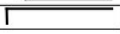
5	Top Left Extra Bar		2	16#	3	2.908	17.448	1.580	27.568			27.568
	Top Center Extra Bar 1		2	16#	3	1.850	11.100	1.580	17.538			17.538
	Top Center Extra Bar 2		2	16#	3	1.870	11.220	1.580	17.728			17.728
	Top Right Extra Bar		2	16#	3	3.028	18.168	1.580	28.705			28.705
	Bottom Main Bar 1		2	16#	3	6.461	38.766	1.580	61.250			61.250
	Bottom Main Bar 2		2	16#	3	6.825	40.950	1.580	64.701			64.701
	Stirrups		2	8#	78	1.16	180.960	0.395	71.479	71.479		
		TOTAL QUANTITY OF STEEL IN FRAME 5							**372.937**			
6	**Frame 6**											
	Top Main Bar 1		1	16#	2	8.358	16.716	1.580	26.411			26.411
	Top Main Bar 2		1	16#	2	8.278	16.556	1.580	26.158			26.158
	Top Left Extra Bar		1	16#	3	1.863	5.589	1.580	8.831			8.831
	Top Center Extra Bar 1		1	16#	3	1.985	5.955	1.580	9.409			9.409
	Top Center Extra Bar 2		1	16#	3	1.650	4.950	1.580	7.821			7.821
	Top Center Extra Bar 3		1	16#	3	1.650	4.950	1.580	7.821			7.821
	Top Center Extra Bar 4		1	16#	3	1.985	5.955	1.580	9.409			9.409
	Top Right Extra Bar		1	16#	3	1.863	5.589	1.580	8.831			8.831
	Bottom Main Bar 1		1	16#	3	8.136	24.408	1.580	38.565			38.565
	Bottom Main Bar 2		1	16#	3	8.5	25.500	1.580	40.290			40.290
	Stirrups		1	8#	104	1.16	120.640	0.395	47.653	47.653		
		TOTAL QUANTITY OF STEEL IN FRAME 6							**231.198**			
7	**Frame 7**											
	Top Main Bar		2	16#	2	7.236	28.944	1.580	45.732			45.732
	Top Left Extra Bar		2	16#	5	1.863	18.630	1.580	29.435			29.435
	Top Center Extra Bar		2	16#	3	1.985	11.910	1.580	18.818			18.818
	Top Right Extra Bar		2	16#	2	1.408	5.632	1.580	8.899			8.899
	Bottom Main Bar		2	16#	3	7.236	43.416	1.580	68.597			68.597
	Stirrups		2	8#	43	1.16	99.760	0.395	39.405	39.405		
		TOTAL QUANTITY OF STEEL IN FRAME 7							**210.886**			
8	**Frame 8**											
	Top Main Bar 1		1	16#	2	8.808	17.616	1.580	27.833			27.833
	Top Main Bar 2		1	16#	2	8.728	17.456	1.580	27.580			27.580
	Top Left Extra Bar		1	16#	2	1.533	3.066	1.580	4.844			4.844
	Top Center Extra Bar 1		1	16#	2	2.155	4.310	1.580	6.810			6.810
	Top Center Extra Bar 2		1	16#	2	2.075	4.150	1.580	6.557			6.557
	Top Center Extra Bar 3		1	16#	2	2.075	4.150	1.580	6.557			6.557

	Top Center Extra Bar 4		1	16#	2	2.155	4.310	1.580	6.810			6.810
	Top Right Extra Bar		1	16#	2	1.533	3.066	1.580	4.844			4.844
	Bottom Main Bar 1		1	16#	3	8.586	25.758	1.580	40.698			40.698
	Bottom Main Bar 2		1	16#	3	8.95	26.850	1.580	42.423			42.423
	Stirrups		1	8#	108	1.16	125.280	0.395	49.486	49.486		
		TOTAL QUANTITY OF STEEL IN FRAME 8							**224.442**			
	Frame 9											
	Top Main Bar		1	16#	2	10.386	20.772	1.580	32.820			32.820
	Top Center Extra Bar 1		1	16#	2	2.050	4.100	1.580	6.478			6.478
9	Top Center Extra Bar 2		1	16#	2	2.050	4.100	1.580	6.478			6.478
	Bottom Main Bar		1	16#	2	10.386	20.772	1.580	32.820			32.820
	Stirrups		1	8#	70	1.16	81.200	0.395	32.074	32.074		
		TOTAL QUANTITY OF STEEL IN FRAME 9							**110.670**			
	Frame 10											
	Top Main Bar		2	16#	2	4.186	16.744	1.580	26.456			26.456
	Top Left Extra Bar		2	16#	3	1.558	9.348	1.580	14.770			14.770
10	Top Right Extra Bar		2	16#	3	1.633	9.798	1.580	15.481			15.481
	Bottom Main Bar		2	16#	2	4.186	16.744	1.580	26.456			26.456
	Stirrups		2	8#	22	1.16	51.040	0.395	20.161	20.161		
		TOTAL QUANTITY OF STEEL IN FRAME 10							**103.323**			
	Frame 11											
	Top Main Bar		2	16#	2	3.036	12.144	1.580	19.188			19.188
	Top Left Extra Bar		2	16#	2	1.135	4.540	1.580	7.173			7.173
11	Top Right Extra Bar		2	16#	2	1.135	4.540	1.580	7.173			7.173
	Bottom Main Bar		2	16#	3	3.036	18.216	1.580	28.781			28.781
	Stirrups		2	8#	17	1.16	39.440	0.395	15.579	15.579		
		TOTAL QUANTITY OF STEEL IN FRAME 11							**77.894**			
	Frame 12											
	Top Main Bar		2	16#	2	3.186	12.744	1.580	20.136			20.136
	Top Left Extra Bar		2	16#	2	1.185	4.740	1.580	7.489			7.489
12	Top Right Extra Bar		2	16#	2	1.185	4.740	1.580	7.489			7.489
	Bottom Main Bar		2	16#	3	3.186	19.116	1.580	30.203			30.203
	Stirrups		2	8#	18	1.16	41.760	0.395	16.495	16.495		
		TOTAL QUANTITY OF STEEL IN FRAME 12							**81.812**			

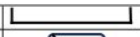
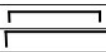
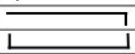
	Frame 13											
	Top Main Bar		2	16#	2	4.236	16.944	1.580	26.772			26.772
	Top Left Extra Bar		2	16#	3	1.535	9.210	1.580	14.552			14.552
13	Top Right Extra Bar		2	16#	3	1.535	9.210	1.580	14.552			14.552
	Bottom Main Bar		2	16#	3	4.236	25.416	1.580	40.157			40.157
	Stirrups		2	8#	26	1.16	60.320	0.395	23.826	23.826		
		TOTAL QUANTITY OF STEEL IN FRAME 13							**119.859**			
		TOTAL QUANTITY OF STEEL SLAB BEAM							**2212**	**450.869**		**1761.586**

BBS (BAR BENDING SCHEDULE) OF ROOF BEAM

	DESCRIPTION	SHAPE OF BAR	NO. OF ITEMS	DIA. OF BAR	NO. OF BAR	CUTTING LENGTH (M)	TOTAL LENGTH (M)	UNIT WT. (KG/M)	TOTAL WT. (KG)	8MM (KG)	12MM (KG)	16MM (KG)
1	**Frame 1**											
	Top Main Bar		2	16#	2	5.036	20.144	1.580	31.828			31.828
	Top Left Extra Bar		2	16#	3	1.893	11.358	1.580	17.946			17.946
	Top Right Extra Bar		2	16#	3	1.893	11.358	1.580	17.946			17.946
	Bottom Main Bar		2	16#	3	5.036	30.216	1.580	47.741			47.741
	Stirrups		2	8#	28	1.16	64.960	0.395	25.659	25.659		
		TOTAL QUANTITY OF STEEL IN FRAME 1							**141.119**			
2	**Frame 2**											
	Top Main Bar		2	16#	2	6.561	26.244	1.580	41.466			41.466
	Top Left Extra Bar		2	16#	3	1.533	9.198	1.580	14.533			14.533
	Top Center Extra Bar		2	16#	2	1.875	7.500	1.580	11.850			11.850
	Top Right Extra Bar		2	16#	2	1.278	5.112	1.580	8.077			8.077
	Bottom Main Bar		2	16#	2	6.561	26.244	1.580	41.466			41.466
	Stirrups		2	8#	39	1.16	90.480	0.395	35.740	35.740		
		TOTAL QUANTITY OF STEEL IN FRAME 2							**153.130**			
3	**Frame 3**											
	Top Main Bar		2	16#	2	7.936	31.744	1.580	50.156			50.156
	Top Center Extra Bar		2	16#	5	2.110	21.100	1.580	33.338			33.338
	Top Right Extra Bar		2	16#	5	2.468	24.680	1.580	38.994			38.994
	Bottom Main Bar		2	16#	3	7.936	47.616	1.580	75.233			75.233
	Stirrups		2	8#	50	1.16	116.000	0.395	45.820	45.820		
		TOTAL QUANTITY OF STEEL IN FRAME 3							**243.541**			
4	**Frame 4**											
	Top Main Bar		2	16#	2	5.411	21.644	1.580	34.198			34.198
	Top Center Extra Bar		2	16#	3	1.490	8.94	1.580	14.125			14.125
	Top Right Extra Bar		2	16#	3	1.533	9.198	1.580	14.533			14.533
	Bottom Main Bar		2	16#	3	5.411	32.466	1.580	51.296			51.296
	Stirrups		2	8#	30	1.16	69.60	0.395	27.492	27.492		
		TOTAL QUANTITY OF STEEL IN FRAME 4							**141.644**			
	Frame 5											

5	Top Main Bar 1		2	16#	2	6.608	26.432	1.580	41.763			41.763
	Top Main Bar 2		2	16#	2	6.678	26.712	1.580	42.205			42.205
	Top Left Extra Bar		2	16#	3	2.908	17.448	1.580	27.568			27.568
	Top Center Extra Bar 1		2	16#	3	1.850	11.100	1.580	17.538			17.538
	Top Center Extra Bar 2		2	16#	3	1.870	11.220	1.580	17.728			17.728
	Top Right Extra Bar		2	16#	3	3.028	18.168	1.580	28.705			28.705
	Bottom Main Bar 1		2	16#	3	6.461	38.766	1.580	61.250			61.250
	Bottom Main Bar 2		2	16#	3	6.825	40.950	1.580	64.701			64.701
	Stirrups		2	8#	78	1.16	180.960	0.395	71.479	71.479		
		TOTAL QUANTITY OF STEEL IN FRAME 5							**372.937**			
6	**Frame 6**											
	Top Main Bar 1		1	16#	2	8.358	16.716	1.580	26.411			26.411
	Top Main Bar 2		1	16#	2	8.278	16.556	1.580	26.158			26.158
	Top Left Extra Bar		1	16#	3	1.863	5.589	1.580	8.831			8.831
	Top Center Extra Bar 1		1	16#	3	1.985	5.955	1.580	9.409			9.409
	Top Center Extra Bar 2		1	16#	3	1.650	4.950	1.580	7.821			7.821
	Top Center Extra Bar 3		1	16#	3	1.650	4.950	1.580	7.821			7.821
	Top Center Extra Bar 4		1	16#	3	1.985	5.955	1.580	9.409			9.409
	Top Right Extra Bar		1	16#	3	1.863	5.589	1.580	8.831			8.831
	Bottom Main Bar 1		1	16#	3	8.136	24.408	1.580	38.565			38.565
	Bottom Main Bar 2		1	16#	3	8.5	25.500	1.580	40.290			40.290
	Stirrups		1	8#	104	1.16	120.640	0.395	47.653	47.653		
		TOTAL QUANTITY OF STEEL IN FRAME 6							**231.198**			
7	**Frame 7**											
	Top Main Bar		2	16#	2	7.236	28.944	1.580	45.732			45.732
	Top Left Extra Bar		2	16#	5	1.863	18.630	1.580	29.435			29.435
	Top Center Extra Bar		2	16#	3	1.985	11.910	1.580	18.818			18.818
	Top Right Extra Bar		2	16#	2	1.408	5.632	1.580	8.899			8.899
	Bottom Main Bar		2	16#	3	7.236	43.416	1.580	68.597			68.597
	Stirrups		2	8#	43	1.16	99.760	0.395	39.405	39.405		
		TOTAL QUANTITY OF STEEL IN FRAME 7							**210.886**			
	Frame 8											
	Top Main Bar 1		1	16#	2	8.808	17.616	1.580	27.833			27.833
	Top Main Bar 2		1	16#	2	8.728	17.456	1.580	27.580			27.580
	Top Left Extra Bar		1	16#	2	1.533	3.066	1.580	4.844			4.844

8	Top Center Extra Bar 1		1	16#	2	2.155	4.310	1.580	6.810			6.810
	Top Center Extra Bar 2		1	16#	2	2.075	4.150	1.580	6.557			6.557
	Top Center Extra Bar 3		1	16#	2	2.075	4.150	1.580	6.557			6.557
	Top Center Extra Bar 4		1	16#	2	2.155	4.310	1.580	6.810			6.810
	Top Right Extra Bar		1	16#	2	1.533	3.066	1.580	4.844			4.844
	Bottom Main Bar 1		1	16#	3	8.586	25.758	1.580	40.698			40.698
	Bottom Main Bar 2		1	16#	3	8.95	26.850	1.580	42.423			42.423
	Stirrups		1	8#	108	1.16	125.280	0.395	49.486	49.486		
		TOTAL QUANTITY OF STEEL IN FRAME 8							**224.442**			
9	**Frame 9**											
	Top Main Bar		1	16#	2	10.386	20.772	1.580	32.820			32.820
	Top Center Extra Bar 1		1	16#	2	2.050	4.100	1.580	6.478			6.478
	Top Center Extra Bar 2		1	16#	2	2.050	4.100	1.580	6.478			6.478
	Bottom Main Bar		1	16#	2	10.386	20.772	1.580	32.820			32.820
	Stirrups		1	8#	70	1.16	81.200	0.395	32.074	32.074		
		TOTAL QUANTITY OF STEEL IN FRAME 9							**110.670**			
10	**Frame 10**											
	Top Main Bar		2	16#	2	4.186	16.744	1.580	26.456			26.456
	Top Left Extra Bar		2	16#	3	1.558	9.348	1.580	14.770			14.770
	Top Right Extra Bar		2	16#	3	1.633	9.798	1.580	15.481			15.481
	Bottom Main Bar		2	16#	2	4.186	16.744	1.580	26.456			26.456
	Stirrups		2	8#	22	1.16	51.040	0.395	20.161	20.161		
		TOTAL QUANTITY OF STEEL IN FRAME 10							**103.323**			
11	**Frame 11**											
	Top Main Bar		2	16#	2	3.036	12.144	1.580	19.188			19.188
	Top Left Extra Bar		2	16#	2	1.135	4.540	1.580	7.173			7.173
	Top Right Extra Bar		2	16#	2	1.135	4.540	1.580	7.173			7.173
	Bottom Main Bar		2	16#	3	3.036	18.216	1.580	28.781			28.781
	Stirrups		2	8#	17	1.16	39.440	0.395	15.579	15.579		
		TOTAL QUANTITY OF STEEL IN FRAME 11							**77.894**			
12	**Frame 12**											
	Top Main Bar		2	16#	2	3.186	12.744	1.580	20.136			20.136
	Top Left Extra Bar		2	16#	2	1.185	4.740	1.580	7.489			7.489
	Top Right Extra Bar		2	16#	2	1.185	4.740	1.580	7.489			7.489

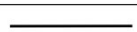
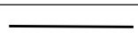
	Bottom Main Bar		2	16#	3	3.186	19.116	1.580	30.203			30.203
	Stirrups		2	8#	18	1.16	41.760	0.395	16.495	16.495		
		TOTAL QUANTITY OF STEEL IN FRAME 12							**81.812**			
13	**Frame 13**											
	Top Main Bar		2	16#	2	4.236	16.944	1.580	26.772			26.772
	Top Left Extra Bar		2	16#	3	1.535	9.210	1.580	14.552			14.552
	Top Right Extra Bar		2	16#	3	1.535	9.210	1.580	14.552			14.552
	Bottom Main Bar		2	16#	3	4.236	25.416	1.580	40.157			40.157
	Stirrups		2	8#	26	1.16	60.320	0.395	23.826	23.826		
		TOTAL QUANTITY OF STEEL IN FRAME 13							**119.859**			
		TOTAL QUANTITY OF STEEL ROOF BEAM							**2212**	**450.869**		**1761.586**

BBS (BAR BENDING SCHEDULE) OF GROUND FLOOR SLAB

S.NO	DESCRIPTION	SHAPE OF BAR	NO. OF ITEMS	DIA. OF BAR	NO. OF BAR	CUTTING LENGTH (M)	TOTAL LENGTH (M)	UNIT WT. (KG/M)	TOTAL WT. (KG)	8MM (KG)	12MM (KG)	16MM (KG)
1	**SLAB 1 & SLAB 19**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	25	3.266	163.317	0.395	64.510	64.510		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	20	3.963	158.519	0.395	62.615	62.615		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	14	3.250	91.000	0.395	35.945	35.945		
4	C.L Top Distribution Bar Along Longer Span		2	8#	12	3.950	94.800	0.395	37.446	37.446		
5	C.L Top Extra Bar Along Shorter Span		2	8#	12	0.925	22.200	0.395	8.769	8.769		
6	C.L Top Extra Bar Along Longer Span		2	8#	10	1.100	22.000	0.395	8.690	8.690		
		TOTAL QUANTITY OF STEEL IN SLAB 1							**217.975**			
2	**SLAB 4 & SLAB 15**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	24	3.266	156.784	0.395	61.930	61.930		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	20	3.863	154.519	0.395	61.035	61.035		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	14	3.250	91.000	0.395	35.945	35.945		
4	C.L Top Distribution Bar Along Longer Span		2	8#	12	3.850	92.400	0.395	36.498	36.498		
5	C.L Top Extra Bar Along Shorter Span		2	8#	12	0.925	22.200	0.395	8.769	8.769		
6	C.L Top Extra Bar Along Longer Span		2	8#	10	1.075	21.500	0.395	8.493	8.493		
		TOTAL QUANTITY OF STEEL IN SLAB 4							**212.669**			
3	**SLAB 5 & SLAB 14**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	20	2.516	100.654	0.395	39.758	39.758		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	15	3.263	97.889	0.395	38.666	38.666		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	12	2.500	60.000	0.395	23.700	23.700		
4	C.L Top Distribution Bar Along Longer Span		2	8#	10	3.250	65.000	0.395	25.675	25.675		
5	C.L Top Extra Bar Along Shorter Span		2	8#	10	0.738	14.750	0.395	5.826	5.826		

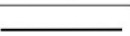
6	C.L Top Extra Bar Along Longer Span		2	8#	7	0.925	12.950	0.395	5.115	5.115		
		TOTAL QUANTITY OF STEEL IN SLAB 5							**138.741**			
4	**SLAB 6 & SLAB 16**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	15	1.716	51.490	0.395	20.339	20.339		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	10	2.513	50.260	0.395	19.853	19.853		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	10	1.700	34.000	0.395	13.430	13.430		
4	C.L Top Distribution Bar Along Longer Span		2	8#	8	2.500	40.000	0.395	15.800	15.800		
5	C.L Top Extra Bar Along Shorter Span		2	8#	7	0.538	7.525	0.395	2.972	2.972		
6	C.L Top Extra Bar Along Longer Span		2	8#	5	0.738	7.375	0.395	2.913	2.913		
		TOTAL QUANTITY OF STEEL IN SLAB 6							**75.307**			
5	**SLAB 8 & SLAB 22**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	23	2.866	131.852	0.395	52.081	52.081		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	17	3.713	126.241	0.395	49.865	49.865		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	14	2.850	79.800	0.395	31.521	31.521		
4	C.L Top Distribution Bar Along Longer Span		2	8#	10	3.700	74.000	0.395	29.230	29.230		
5	C.L Top Extra Bar Along Shorter Span		2	8#	11	0.825	18.150	0.395	7.169	7.169		
6	C.L Top Extra Bar Along Longer Span		2	8#	8	1.038	16.600	0.395	6.557	6.557		
		TOTAL QUANTITY OF STEEL IN SLAB 8							**176.424**			
6	**SLAB 9 & SLAB 13**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	23	3.166	145.652	0.395	57.532	57.532		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	19	3.713	141.093	0.395	55.732	55.732		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	14	3.150	88.200	0.395	34.839	34.839		
4	C.L Top Distribution Bar Along Longer Span		2	8#	12	3.700	88.800	0.395	35.076	35.076		
5	C.L Top Extra Bar Along Shorter Span		2	8#	11	0.900	19.800	0.395	7.821	7.821		

6	C.L Top Extra Bar Along Longer Span		2	8#	9	1.038	18.675	0.395	7.377	7.377		
		TOTAL QUANTITY OF STEEL IN SLAB 9							**198.377**			
7	**SLAB 10 & SLAB 20**											
	TWO WAY SLAB											
1	C.L Top Main Crank Bar		2	8#	23	1.816	83.552	0.395	33.003	33.003		
2	C.L Bottom Distribution Bar		2	8#	10	3.700	74.000	0.395	29.230	29.230		
3	C.L Top Distribution Bar		2	8#	8	3.700	59.200	0.395	23.384	23.384		
4	C.L Top Extra Bar		2	8#	23	0.563	25.875	0.395	10.221	10.221		
		TOTAL QUANTITY OF STEEL IN SLAB 10							**95.838**			
8	**SLAB 11**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		1	8#	17	1.866	31.728	0.395	12.532	12.532		
2	C.L 2nd Crank Bar Along Longer Span		1	8#	11	2.863	31.493	0.395	12.440	12.440		
3	C.L Top Distribution Bar Along Shorter Span		1	8#	10	1.850	18.500	0.395	7.308	7.308		
4	C.L Top Distribution Bar Along Longer Span		1	8#	8	2.850	22.800	0.395	9.006	9.006		
5	C.L Top Extra Bar Along Shorter Span		1	8#	8	0.575	4.600	0.395	1.817	1.817		
6	C.L Top Extra Bar Along Longer Span		1	8#	5	0.825	4.125	0.395	1.629	1.629		
		TOTAL QUANTITY OF STEEL IN SLAB 11							**44.732**			
9	**SLAB 12**											
	ONE WAY SLAB											
1	C.L Top Main Crank Bar		1	8#	17	1.516	25.778	0.395	10.182	10.182		
2	C.L Bottom Distribution Bar		1	8#	8	2.850	22.800	0.395	9.006	9.006		
3	C.L Top Distribution Bar		1	8#	6	2.850	17.100	0.395	6.755	6.755		
4	C.L Top Extra Bar		1	8#	17	0.488	8.288	0.395	3.274	3.274		
		TOTAL QUANTITY OF STEEL IN SLAB 12							**29.216**			
10	**SLAB 21**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		1	8#	17	2.216	37.678	0.395	14.883	14.883		
2	C.L 2nd Crank Bar Along Longer Span		1	8#	13	2.863	37.219	0.395	14.701	14.701		
3	C.L Top Distribution Bar Along Shorter Span		1	8#	10	2.200	22.000	0.395	8.690	8.690		

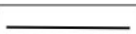
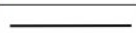
4	C.L Top Distribution Bar Along Longer Span		1	8#	8	2.850	22.800	0.395	9.006	9.006		
5	C.L Top Extra Bar Along Shorter Span		1	8#	8	0.663	5.300	0.395	2.094	2.094		
6	C.L Top Extra Bar Along Longer Span		1	8#	6	0.825	4.950	0.395	1.955	1.955		
		TOTAL QUANTITY OF STEEL IN SLAB 11							**51.329**			
11	**SUNKEN SLAB**											
	C.L Top & Bottom Mesh Main Bar		4	8#	32	1.525	195.200	0.395	77.104	77.104		
	C.L Top & Bottom Mesh Distribution Bar		4	8#	18	2.650	190.800	0.395	75.366	75.366		
		TOTAL QUANTITY OF STEEL IN SUNKEN SLAB							**152.470**			
		TOTAL QUANTITY OF STEEL SLAB							**1393**	**1393.078**		

BBS (BAR BENDING SCHEDULE) OF FIRST FLOOR SLAB

S.NO	DESCRIPTION	SHAPE OF BAR	NO. OF ITEMS	DIA. OF BAR	NO. OF BAR	CUTTING LENGTH (M)	TOTAL LENGTH (M)	UNIT WT. (KG/M)	TOTAL WT. (KG)	8MM (KG)	12MM (KG)	16MM (KG)
1	**SLAB 1 & SLAB 19**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	25	3.266	163.317	0.395	64.510	64.510		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	20	3.963	158.519	0.395	62.615	62.615		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	14	3.250	91.000	0.395	35.945	35.945		
4	C.L Top Distribution Bar Along Longer Span		2	8#	12	3.950	94.800	0.395	37.446	37.446		
5	C.L Top Extra Bar Along Shorter Span		2	8#	12	0.925	22.200	0.395	8.769	8.769		
6	C.L Top Extra Bar Along Longer Span		2	8#	10	1.100	22.000	0.395	8.690	8.690		
		TOTAL QUANTITY OF STEEL IN SLAB 1							**217.975**			
2	**SLAB 4 & SLAB 15**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	24	3.266	156.784	0.395	61.930	61.930		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	20	3.863	154.519	0.395	61.035	61.035		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	14	3.250	91.000	0.395	35.945	35.945		
4	C.L Top Distribution Bar Along Longer Span		2	8#	12	3.850	92.400	0.395	36.498	36.498		
5	C.L Top Extra Bar Along Shorter Span		2	8#	12	0.925	22.200	0.395	8.769	8.769		
6	C.L Top Extra Bar Along Longer Span		2	8#	10	1.075	21.500	0.395	8.493	8.493		
		TOTAL QUANTITY OF STEEL IN SLAB 4							**212.669**			
3	**SLAB 5 & SLAB 14**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	20	2.516	100.654	0.395	39.758	39.758		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	15	3.263	97.889	0.395	38.666	38.666		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	12	2.500	60.000	0.395	23.700	23.700		
4	C.L Top Distribution Bar Along Longer Span		2	8#	10	3.250	65.000	0.395	25.675	25.675		
5	C.L Top Extra Bar Along Shorter Span		2	8#	10	0.738	14.750	0.395	5.826	5.826		

6	C.L Top Extra Bar Along Longer Span		2	8#	7	0.925	12.950	0.395	5.115	5.115		
		TOTAL QUANTITY OF STEEL IN SLAB 5							**138.741**			
4	**SLAB 6 & SLAB 16**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	15	1.716	51.490	0.395	20.339	20.339		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	10	2.513	50.260	0.395	19.853	19.853		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	10	1.700	34.000	0.395	13.430	13.430		
4	C.L Top Distribution Bar Along Longer Span		2	8#	8	2.500	40.000	0.395	15.800	15.800		
5	C.L Top Extra Bar Along Shorter Span		2	8#	7	0.538	7.525	0.395	2.972	2.972		
6	C.L Top Extra Bar Along Longer Span		2	8#	5	0.738	7.375	0.395	2.913	2.913		
		TOTAL QUANTITY OF STEEL IN SLAB 6							**75.307**			
5	**SLAB 8 & SLAB 22**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	23	2.866	131.852	0.395	52.081	52.081		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	17	3.713	126.241	0.395	49.865	49.865		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	14	2.850	79.800	0.395	31.521	31.521		
4	C.L Top Distribution Bar Along Longer Span		2	8#	10	3.700	74.000	0.395	29.230	29.230		
5	C.L Top Extra Bar Along Shorter Span		2	8#	11	0.825	18.150	0.395	7.169	7.169		
6	C.L Top Extra Bar Along Longer Span		2	8#	8	1.038	16.600	0.395	6.557	6.557		
		TOTAL QUANTITY OF STEEL IN SLAB 8							**176.424**			
6	**SLAB 9 & SLAB 13**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		2	8#	23	3.166	145.652	0.395	57.532	57.532		
2	C.L 2nd Crank Bar Along Longer Span		2	8#	19	3.713	141.093	0.395	55.732	55.732		
3	C.L Top Distribution Bar Along Shorter Span		2	8#	14	3.150	88.200	0.395	34.839	34.839		
4	C.L Top Distribution Bar Along Longer Span		2	8#	12	3.700	88.800	0.395	35.076	35.076		
5	C.L Top Extra Bar Along Shorter Span		2	8#	11	0.900	19.800	0.395	7.821	7.821		

6	C.L Top Extra Bar Along Longer Span		2	8#	9	1.038	18.675	0.395	7.377	7.377		
		TOTAL QUANTITY OF STEEL IN SLAB 9							**198.377**			
7	**SLAB 10 & SLAB 20**											
	TWO WAY SLAB											
1	C.L Top Main Crank Bar		2	8#	23	1.816	83.552	0.395	33.003	33.003		
2	C.L Bottom Distribution Bar		2	8#	10	3.700	74.000	0.395	29.230	29.230		
3	C.L Top Distribution Bar		2	8#	8	3.700	59.200	0.395	23.384	23.384		
4	C.L Top Extra Bar		2	8#	23	0.563	25.875	0.395	10.221	10.221		
		TOTAL QUANTITY OF STEEL IN SLAB 10							**95.838**			
8	**SLAB 11**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		1	8#	17	1.866	31.728	0.395	12.532	12.532		
2	C.L 2nd Crank Bar Along Longer Span		1	8#	11	2.863	31.493	0.395	12.440	12.440		
3	C.L Top Distribution Bar Along Shorter Span		1	8#	10	1.850	18.500	0.395	7.308	7.308		
4	C.L Top Distribution Bar Along Longer Span		1	8#	8	2.850	22.800	0.395	9.006	9.006		
5	C.L Top Extra Bar Along Shorter Span		1	8#	8	0.575	4.600	0.395	1.817	1.817		
6	C.L Top Extra Bar Along Longer Span		1	8#	5	0.825	4.125	0.395	1.629	1.629		
		TOTAL QUANTITY OF STEEL IN SLAB 11							**44.732**			
9	**SLAB 12**											
	ONE WAY SLAB											
1	C.L Top Main Crank Bar		1	8#	17	1.516	25.778	0.395	10.182	10.182		
2	C.L Bottom Distribution Bar		1	8#	8	2.850	22.800	0.395	9.006	9.006		
3	C.L Top Distribution Bar		1	8#	6	2.850	17.100	0.395	6.755	6.755		
4	C.L Top Extra Bar		1	8#	17	0.488	8.288	0.395	3.274	3.274		
		TOTAL QUANTITY OF STEEL IN SLAB 12							**29.216**			
10	**SLAB 21**											
	TWO WAY SLAB											
1	C.L 1st Crank Bar Along Shorter Span		1	8#	17	2.216	37.678	0.395	14.883	14.883		
2	C.L 2nd Crank Bar Along Longer Span		1	8#	13	2.863	37.219	0.395	14.701	14.701		
3	C.L Top Distribution Bar Along Shorter Span		1	8#	10	2.200	22.000	0.395	8.690	8.690		

4	C.L Top Distribution Bar Along Longer Span		1	8#	8	2.850	22.800	0.395	9.006	9.006		
5	C.L Top Extra Bar Along Shorter Span		1	8#	8	0.663	5.300	0.395	2.094	2.094		
6	C.L Top Extra Bar Along Longer Span		1	8#	6	0.825	4.950	0.395	1.955	1.955		
		TOTAL QUANTITY OF STEEL IN SLAB 11							**51.329**			
11	**SUNKEN SLAB**											
	C.L Top & Bottom Mesh Main Bar		4	8#	32	1.525	195.200	0.395	77.104	77.104		
	C.L Top & Bottom Mesh Distribution Bar		4	8#	18	2.650	190.800	0.395	75.366	75.366		
		TOTAL QUANTITY OF STEEL IN SUNKEN SLAB							**152.470**			
		TOTAL QUANTITY OF STEEL SLAB							**1393**	**1393.078**		

BBS (BAR BENDING SCHEDULE) OF STAIRCASE

S.NO	DESCRIPTION	SHAPE OF BAR	NO. OF ITEMS	DIA. OF BAR	NO. OF BAR	CUTTING LENGTH (M)	TOTAL LENGTH (M)	UNIT WT. (KG/M)	TOTAL WT. (KG)	8MM (KG)	12MM (KG)	16MM (KG)
	Flight 1											
1	C.L Main Bar Waist Slab		1	12#	9	4.298	38.682	0.888	34.350		34.350	
	C.L Top Extra Bar (Part A)		1	12#	9	1.160	10.440	0.888	9.271		9.271	
	C.L Top Extra Bar (Part B)		1	12#	9	2.135	19.215	0.888	17.063		17.063	
	C.L Distribution Bar Bottom Waist Slab		1	8#	21	1.135	23.835	0.395	9.415	9.415		
	C.L Distribution Bar Mid Landing Top & Bottom		1	8#	18	2.360	42.480	0.395	16.780	16.780		
	C.L Distribution Bar Part A & B (Top Extra)		1	8#	16	1.135	18.160	0.395	7.173	7.173		
		TOTAL QUANTITY OF STEEL IN FLIGHT 1							**94.051**			
	Flight 2											
2	C.L Main Bar Waist Slab		1	12#	9	5.547	49.923	0.888	44.332		44.332	
	C.L Top Extra Bar (Part A)		1	12#	9	2.365	21.285	0.888	18.901		18.901	
	C.L Top Extra Bar (Part B)		1	12#	9	2.210	19.890	0.888	17.662		17.662	
	C.L Distribution Bar Bottom Waist Slab		1	8#	21	1.135	23.835	0.395	9.415	9.415		
	C.L Distribution Bar Part A & B (Top Extra)		1	8#	16	1.135	18.160	0.395	7.173	7.173		
		TOTAL QUANTITY OF STEEL IN FLIGHT 2							**97.483**	49.956	141.578	
		TOTAL QUANTITY OF STEEL STAIRCASE							**192**			

BBS (BAR BENDING SCHEDULE) OF FIRST FLOOR STAIRCASE

S.NO	DESCRIPTION	SHAPE OF BAR	NO. OF ITEMS	DIA. OF BAR	NO. OF BAR	CUTTING LENGTH (M)	TOTAL LENGTH (M)	UNIT WT. (KG/M)	TOTAL WT. (KG)	8MM (KG)	12MM (KG)	16MM (KG)
	Flight 1											
1	C.L Main Bar Waist Slab		1	12#	9	4.298	38.682	0.888	34.350		34.350	
	C.L Top Extra Bar (Part A)		1	12#	9	1.160	10.440	0.888	9.271		9.271	
	C.L Top Extra Bar (Part B)		1	12#	9	2.135	19.215	0.888	17.063		17.063	
	C.L Distribution Bar Bottom Waist Slab		1	8#	21	1.135	23.835	0.395	9.415	9.415		
	C.L Distribution Bar Mid Landing Top & Bottom		1	8#	18	2.360	42.480	0.395	16.780	16.780		
	C.L Distribution Bar Part A & B (Top Extra)		1	8#	16	1.135	18.160	0.395	7.173	7.173		
		TOTAL QUANTITY OF STEEL IN FLIGHT 1							**94.051**			
	Flight 2											
2	C.L Main Bar Waist Slab		1	12#	9	5.547	49.923	0.888	44.332		44.332	
	C.L Top Extra Bar (Part A)		1	12#	9	2.365	21.285	0.888	18.901		18.901	
	C.L Top Extra Bar (Part B)		1	12#	9	2.210	19.890	0.888	17.662		17.662	
	C.L Distribution Bar Bottom Waist Slab		1	8#	21	1.135	23.835	0.395	9.415	9.415		
	C.L Distribution Bar Part A & B (Top Extra)		1	8#	16	1.135	18.160	0.395	7.173	7.173		
		TOTAL QUANTITY OF STEEL IN FLIGHT 2							**97.483**	49.956	141.578	
		TOTAL QUANTITY OF STEEL FIRST FLOOR STAIRCASE							**192**			

B.B.S (BAR BENDING SCHEDULE) OF CHHAJJA												
S.NO.	DESCRIPTION	SHAPE OF BAR	NO. OF ITEMS	DIA. OF BAR	NO. OF BARS	CUTTING LENGTH (M)	TOTAL LENGTH (M)	UNIT WEIGHT (KG/M)	TOTAL WEIGHT (KG)	8mm (KG)	12mm (KG)	16mm (KG)
	CHHAJJA		**12**									
	C1 (1700X600)											
1	Gun Bar		8	8#	13	1.50	155.58	0.395	61.46	30.73		
	Distribution Bar		8	8#	5	1.66	66.40	0.395	26.23	13.11		
	C2 (1100X600)								0.00			
2	Gun Bar		16	8#	9	1.50	215.42	0.395	85.09	42.55		
	Distribution Bar		16	8#	5	1.06	84.80	0.395	33.50	16.75		
	TOTAL QUANTITY OF STEEL IN CHHAJJA								**206**	**103.14**		

TOTAL BBS (BAR BENDING SCHEDULE)				
S NO	ITEM	TOTAL QUANTITY (KG)	RATE	AMOUNT
1	FOOTING	935	107.85	100888.7916
2	COLUMN	3295.39	107.85	355407.4198
3	GROUND BEAM	1366	107.85	147272.9713
4	SLAB BEAM	2212	107.85	238613.2761
5	ROOF BEAM	2212	107.85	238613.2761
6	GROUND FLOOR SLAB	1393	107.85	150243.4458
7	FIRST FLOOR SLAB	1393	107.85	150243.4458
8	STAIRCASE	192	107.85	20656.93435
9	CHAJJA	206	107.85	22246.45246
TOTAL AMOUNT OF STEEL				₹ 14,24,186.01

S No	ITEM	TOTAL STEEL QUANTITY(KG)
1	8#	5282.33
2	12#	3216.80
3	16#	4897.65
TOTAL		13396.78

Civil Guruji Bhopal Training Institute

Guided by
Er. Vishwajeet Singh
(Corporate Trainer)

Satendra

Submitted by
Er. Satendra Bharti