PILE CAP SCHEDULE — GRADE OF CONCRETE - M25, FE-500

TYPE	SIZE	DEPTH	REINFORCEMENT IN SHORTER DIRECTION		REINFORCEMENT IN LONGER DIRECTION		SKIN. REINF.
			TOP REINF.	BOTT. REINF	TOP REINF.	BOTT. REINF.	
3P	AS SHOWN	1200	12 TOR @150 C/C	20 TOR @125 C/C	12 TOR @150 C/C	20 TOR @125 C/C	12 TOR @150 C/C
3PA	AS SHOWN	1200	12 TOR @150 C/C	20 TOR @125 C/C	12 TOR @150 C/C	20 TOR @125 C/C	12 TOR @150 C/C
4P	AS SHOWN	1200	12 TOR @150 C/C	20 TOR @150 C/C	12 TOR @150 C/C	20 TOR @125 C/C	12 TOR @150 C/C
6P	AS SHOWN	1400	12 TOR @150 C/C	20 TOR @150 C/C	12 TOR @125/C	20 TOR @125 C/C	12 TOR @150 C/C
12P	AS SHOWN	1600	16 TOR @100 C/C	20 TOR @100/C	16 TOR @100 C/C	20 TOR @100/C	12 TOR @150 C/C

SCHEDULE OF TIE BEAM (M25 AND FE 500)

BEAM MKD.	SIZE (MMxMM)	TOP		BOTT.		STIRRUPS (2 LEGGED)	
		ALTH	EXT(AT SUPT.)	ALTH	EXT(MID SPAN)	AT SUPPORT	AT SPAN.
FB1	250x450	2-20ØT+2-16ØT	-	2-20ØT+2-16ØT	-	8-8ØT@100mmC/C	

TYPE	DIA OF PILE	REINFORCEMENT	CAPACITY
	500Ø	UPTO 8.0m. FROM CUT OFF 4-16ØT + 4-12ØT BELLOW 8.0m. 8-12ØT	85 T

SL. NO.	PILE CAP MKD.	PILE DIA	PILE CAP DEPTH	CUT OFF LVL.
01.	3P	500	1200	+1150 LVL.
02.	3PA	500	1200	+1150 LVL.
03.	4P	500	1400	+1350 LVL.
04.	6P	500	1400	+1450 LVL.
05.	12P	500	1600	+3150 LVL.

SL. NO.	PILE CAP MKD.	PILE DIA	PILE CAP DEPTH	CUT OFF LVL.
01.	*3P	500	1200	-3800 LVL.
02.	*3PA	500	1200	-3800 LVL.
03.	*6P	500	1400	-4100 LVL.

NOTES :-

1. ALL DIMENSIONS ARE IN MM
2. ALL CONCRETE SHOULD BE OF GRADE M25 UNLESS SPECIFIED
3. COVER TO REINFORCEMENT
   COLUMN = 40mm , BEAM = 30mm
   SLAB = 15mm , FOUNDATION = 50mm
4. DEPTH OF EXCAVATION OF UNDER GROUND SUMP SHOULD BE ABOVE THAT OF FOUNDATION.
5. DO NOT SCALE THE DRAWING . FOLLOW WITH DIMENSION.
6. ALL WALLS ARE AS PER ARCHITECTURAL DRAWINGS
7. LEAN CONCRETE (1:3:6) NOMINAL MIX 75 THK. SHALL BE PROVIDED UNDER FOUNDATION.
8. THE DRAWINGS SHOULD BE STUDIED CAREFULLY AND ALL DIMENSIONS SHOWN HERE SHOULD BE CHECKED AT SITE. CLARIFICATION REGARDING DISCREPANCY IF ANY, SHOULD BE OBTAINED BEFORE COMMENCEMENT OF WORK.
9. SPACER BAR USED SHALL BE OF 20mm. OR DIAMETER OF THE BAR USED N THE JOB WHICH IS LARGER.
10. STEEL TO BE USE SHOULD BE OF Fe-500 GRADE. REINFORCEMENT SHOULD BE WITH COLD TWISTED DEFORMED BARS CONFIRMING TO IS : - 1786 AND HAVE BEEN SHOWN AS ꝺ
11. DEPTH OF EXCAVATION OF UNDER GROUND SUMP/RESERVOIR SHOULD BE ABOVE THE DEPTH OF FOUNDATION OF THE ADJACENT BUILDING / STRUCTURE.
12. LAP LENGTH OF STEEL BAR SHALL BE 50xDIA OF BAR

PILE NOTES:-

1. CAPACITY OF EACH PILE IS ASSUMED AS/SCHEDULE WT AS PER THE SOIL INVESTIGATION REPORT. THIS IS TO BE CHECKED BY CONDUCTING 'ROUTINE LOAD TEST' ON WORKING PILES AS PER IS:2911 (PART-4) 1985. THE RESULTS OF THESE TESTS ARE TO BE PLOTTED AND SUBMITTED TO ARCHITECTS OR CONSULTANTS FOR FURTHER ACTION.
2. AFTER APPROVAL OF BEARING STRATA BY THE ENGINEER-IN-CHARGE SIDES OF BORES SHALL BE STABILIZED WITH BENTONITE CIRCULATION CONFORMING TO SPECIFICATION.
3. CARE SHOULD BE TAKEN WHILE LOWERING REINFORCEMENT CAGE IN TO THE BORE SUCH THAT PROPER ALIGNMENT OF BARS ARE MAIN-TAINED. AVOID LAP IN REINFORING BARS. IN SPECIAL CIRCUMSTANCES WITH THE CONSENT OF ENGINEER-IN-CHARGE WELDED LAPPING CAN BE PERMITTED. IN THAT CASE, WELDED LAP LENGTH SHALL NOT BE LESS THAN 50 TIMES OF THE DIA OF BAR AND SPECIAL APPROVED ELECTRODES SHALL BE USED FOR WELDING OF Fe-500 GRADE BARS.
4. CONCRETING BELLOW WATER TO BE DONE BY USING TREMIE. CEMENT CONTENT FOR AS/SCHEDULE OF CONCRETE SHALL NOT BE LESS THAN 400 KG PER CUBIC METRE. SLUMP OF CONCRETE SHALL BE 150 MM TO 180 MM AND ALSO CONCRETE MAKING SHALL CONFORM TO TENDER SPECIFICATIONS.
5. TOLERANCES PERMISSIBLE SHALL BE AS PER TENDER SPECIFICATIONS/ I.S SPECIFICATION
6. THE CONTRACTOR SHALL MAINTAIN ALL THE PILLING DATA ON DAY TO DAY BASIS AS PER THE PROFORMA GIVEN IN IS:2911 (PART 1/SEC-2) AND SUBMIT THESE DATA TO ARCHITECTS AT REGULAR INTERVALS.
7. THE CONTRACTOR SHOULD TAKE ADEQUATE CARE NOT TO DAMAGE ADJACENT STRUCTURES, IF ANY, WHILE PILING.
8. ALL BORES TO BE WASHED PROPERLY BEFORE CONCRETING BY MINIMUM 20 H.P PUMP.
9. MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:

MEMBER	TOP	BOTTOM	SIDE
A. FOUNDATION BEAM & SLAB	50	50	50
B. COLUMN			40
C. FLOOR BEAM.	30	30	30
D. FLOOR SLAB.	20	20	20
E. PILE			50
F. PILECAP	75	75	75

DWG. TITLE:-
BLOCK-1

SCHEDULE OF COLUMN :- (FE 500)

COLUMN NOS.	COLUMN SIZE	GR. OF CONCRETE M-40 BASE TO 4TH FLOOR	M-30 4TH TO 8TH FLOOR	M-30 8TH TO ROOF	STIRRUPS
C1	300x800	4-20ØT+10-16ØT	4-20ØT+10-16ØT	14-16ØT	
C2	300x800	6-20ØT+8-16ØT	4-20ØT+10-16ØT	14-16ØT	
C3	300x800	6-20ØT+8-16ØT	4-20ØT+10-16ØT	14-16ØT	
C4	300x800	4-20ØT+10-16ØT	4-20ØT+10-16ØT	14-16ØT	
C5	300x800	8-20ØT+8-16ØT	4-20ØT+12-16ØT	16-16ØT	
C6	250x3500	16-20ØT + 20-16ØT + 16-20ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	
C7	300x800	8-20ØT+8-16ØT	4-20ØT+12-16ØT	16-16ØT	
C8	250x1350	8-20ØT + 8-16ØT + 8-20ØT	4-20ØT+4-16ØT + 8-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 8-12ØT + 4-20ØT+4-16ØT	
C9	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+8-16ØT	
C10	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+8-16ØT	
C11	250x1500	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C12	300x900	8-20ØT+8-16ØT	4-20ØT+12-16ØT	16-16ØT	
C13	250x1700	16-20ØT + 20-16ØT + 16-20ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	
C14	300x800	6-20ØT+8-16ØT	4-20ØT+10-16ØT	14-16ØT	
C15	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+8-16ØT	
C16	250x1500	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C17	250x1500	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C18	300x850	6-20ØT+8-16ØT	4-20ØT+10-16ØT	14-16ØT	
C19	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+8-16ØT	
C20	300x900	8-20ØT+8-16ØT	4-20ØT+12-16ØT	16-16ØT	
C21	250x1700	16-20ØT + 20-16ØT + 16-20ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	
C22	250x1350	8-20ØT + 8-16ØT + 8-20ØT	4-20ØT+4-16ØT + 8-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 8-12ØT + 4-20ØT+4-16ØT	
C23	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+8-16ØT	
C24	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+8-16ØT	
C25	250x1200	8-20ØT + 8-16ØT + 8-20ØT	4-20ØT+4-16ØT + 8-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 8-12ØT + 4-20ØT+4-16ØT	
C26	300x800	8-20ØT+8-16ØT	4-20ØT+12-16ØT	16-16ØT	
C27	250x3500	16-20ØT + 20-16ØT + 16-20ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	
C28	300x800	8-20ØT+8-16ØT	4-20ØT+12-16ØT	16-16ØT	
C29	300x800	4-20ØT+10-16ØT	4-20ØT+10-16ØT	14-16ØT	
C30	300x800	6-20ØT+8-16ØT	4-20ØT+10-16ØT	14-16ØT	
C31	300x800	6-20ØT+8-16ØT	4-20ØT+10-16ØT	14-16ØT	
C32	300x800	4-20ØT+10-16ØT	4-20ØT+10-16ØT	14-16ØT	
C33	400x400	4-20ØT	–	–	
C34	400x400	4-20ØT	–	–	
C35	400x400	4-20ØT	–	–	
C36	400x400	4-20ØT	–	–	
C37	300x800	6-20ØT+8-16ØT	4-20ØT+10-16ØT	14-16ØT	
C38	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+10-16ØT	
C39	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+10-16ØT	
C40	AS/DWG	16-20ØT	8-20ØT+8-16ØT	16-16ØT	
C41	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+10-16ØT	
C42	250x3500	16-20ØT + 20-16ØT + 16-20ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	
C43	300x800	6-20ØT+8-16ØT	4-20ØT+10-16ØT	14-16ØT	
C44	250x1350	8-20ØT + 8-16ØT + 8-20ØT	4-20ØT+4-16ØT + 8-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 8-12ØT + 4-20ØT+4-16ØT	
C45	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+10-16ØT	
C46	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+10-16ØT	
C47	250x1500	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C48	300x900	8-20ØT+8-16ØT	4-20ØT+12-16ØT	16-16ØT	
C49	250x1700	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C50	250x1700	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C51	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+10-16ØT	
C52	250x1500	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C53	250x1500	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C54	250x1700	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C55	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+10-16ØT	
C56	300x900	8-20ØT+8-16ØT	4-20ØT+12-16ØT	16-16ØT	
C57	250x1750	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C58	250x1700	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C59	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+10-16ØT	
C60	300x800	14-20ØT	6-20ØT+8-16ØT	4-20ØT+10-16ØT	
C61	250x1500	8-20ØT + 10-16ØT + 8-20ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	4-20ØT+4-16ØT + 10-12ØT + 4-20ØT+4-16ØT	
C62	250x900	8-20ØT+8-16ØT	4-20ØT+12-16ØT	16-16ØT	
C63	250x3500	16-20ØT + 20-16ØT + 16-20ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	8-20ØT+8-16ØT + 20-12ØT + 8-20ØT+8-16ØT	
C64	250x900	8-20ØT+8-16ØT	4-20ØT+12-16ØT	16-16ØT	
C65	300x800	4-20ØT+10-16ØT	4-20ØT+10-16ØT	14-16ØT	
C66	300x800	6-20ØT+8-16ØT	4-20ØT+10-16ØT	14-16ØT	
C67	300x800	6-20ØT+8-16ØT	4-20ØT+10-16ØT	14-16ØT	
C68	300x800	4-20ØT+10-16ØT	4-20ØT+10-16ØT	14-16ØT	

8mm @200mm C/C spaced @ 150 mm c/c near

DECLARATION OF E.B.A.

CERTIFIED WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN H… PROVISION OF KMC BUILDING RULES 2009 AS AMMENDED FROM TIM… CONDITION INCLUDING THE ABUTTING ROAD CONFORMS WITH THE … MEASURED AND VERIFIED BY ME. IT IS A BUILDABLE SITE AND NOT … TANK. THE LAND IS DEMARCATED BY BOUNDARY WALL. THE CONST… TANK AND SEPTIC TANK WILL BE COMPLETED BEFORE STARTING O… WORK.

SARBANI MAZUMDER
COA. REG.NO. 92/15458
E.B.A. NO - 055
UNDER RAJPUR SONARPUR MUNICIPALITY
NAME OF ARCHITECT

STRUCTURAL CERTIFICATE

I /WE DO HEREBY CERTIFY THAT THE FOUNDATION AND SUPER STRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION AT HOLDING 278 K.M.R.C ROAD ; WARD NO. 25, UNDER THE JURISDICTION OF RAJPUR SONARPUR HAVE BEEN PERSONALLY INSPECTED AND SO DESIGN BY ME/US WILL MAKE SUCH FOUNDATION AND SUPERSTRUCTURE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL AND OTHER CONDITIONS. IF ANY, CONFIRMING TO ALL STIPULATIONS OF ALL RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE.

DIPANKAR BHOWMIK
B.E, M.I.E, F.I.V.
ENLISTMENT NO-ESE 91/RJPSON/ESE/2014-15
RAJPUR SONARPUR MUNICIPALITY
NAME OF STRUCTURAL ENGINEER

I /WE DO HEREBY CERTIFY THAT THE FOUNDATION AND SUPER STRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION AT HOLDING 278 K.M.R.C ROAD ; WARD NO. 25, UNDER THE JURISDICTION OF RAJPUR SONARPUR HAVE BEEN PERSONALLY INSPECTED AND SO DESIGN BY ME/US WILL MAKE SUCH FOUNDATION AND SUPERSTRUCTURE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL AND OTHER CONDITIONS. IF ANY, CONFIRMING TO ALL STIPULATIONS OF ALL RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE.

JISNU PAL
22/RJPSON/ G.T / I /32
NAME OF GEO-TECHNICAL ENGINEER

I /WE DO HEREBY CERTIFY THAT THE BUILDING SITE PROPOSED FOR CONSTRUCTION AT HOLDING 278 K.M.R.C ROAD ; WARD NO. 25, UNDER THE JURISDICTION OF RAJPUR SONARPUR HAS BEEN VISITED BY ME/US AND ALL THE DESIGNS ,DRAWING,SOIL TEST REPORT AND LOAD TEST RESULTS FOR FOUNDATION AND SUPERSTRUCTURE HAVE BEEN DULY REVIEWED CONFORMING TO STIPULATIONS OF ALL LATEST RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE AND IT IS FOUND THAT EVERYTHING IS COMPLETELY IN ORDER AND THE PROPOSED FOUNDATION AND SUPER STRUCTURE ARE SAFE IN ALL RESPECT.

SANJEEV PAREKH
NAME OF STRUCTURAL REVIEWER

PRASANTA NASKAR & OTHERS
NAME OF OWNER

PROJECT

PROPOSED SANC. PLAN OF G+XI (43.4 m.) RESIDENTIAL BUILDING PLAN AT HOLDINGSANC. PLAN OF G+XI (43.4 m.) RESIDENTIAL BUILDING PLAN AT HOLDING NO. 278 K.M.R.C ROAD ; L.R. DAG NO. 3365, R.S. DAG .NO. 3293,L. R. KHATIANNO.1247,894, 278 K.M.R.C ROAD ; L.R. DAG NO. 3365, R.S. DAG .NO. 3293,L. R. KHATIANNO.1247,894,4126 R.S, KHATIAN NO. 480 ; MOUZA - JAGADDAL; WARD NO. 25; J.L. NO. 71 UNDERR.S, KHATIAN NO. 480 ; MOUZA - JAGADDAL; WARD NO. 25; J.L. NO. 71 UNDER RAJPUR SONARPUR MUNICIPALITY, DIST. - 24,PARGANAS SOUTHSONARPUR MUNICIPALITY, DIST. - 24,PARGANAS SOUTH

NAME OF OWNER PRASANTA NASKAR & OTHERS

DRAWN - Shampa	SCALE - 1:100
DESIGNED -	DATE - 15.12.2022
CHECKED -	JOB NO
APPROVED	

Sanyalson Associates Consultant Pvt. Ltd.
CONSULTANT PLANNER & STRUCTURAL ENGINEERS
· P-157 · KANUNGO PARK · KOLKATA-84

SHEET NO:- 2 of 4

OFFICE USE ONLY

PILE LAYOUT PLAN
SCALE 1:100

COLUMN LAYOUT PLAN
SCALE 1:100

FOURTH FLOOR TO ROOF
M25 : Fe500 : COVER = 40MM

FOURTH FLOOR TO ROOF
M25 : Fe500 : COVER = 40MM

TYPICAL DETAIL OF BEAM COLUMN JUNCTION

DETAIL OF PILE CAP (3P) (500Ø)

TYP.DET.OF SECOND FLIGHT SECTION (STAIR)

SECTION - A-A
UPTO 8m. FROM CUT OFF

SECTION - B-B
BELOW 8m. FROM CUT OFF

SECTION ON :- A-A
SHOWING R.C.C WALL AND SLAB REINFORCEMENT

TYP.DET.OF FIRST FLIGHT SECTION(STAIR)

TYP. SECTION OF FB1.
SCALE 1:25

DETAIL OF LIFT CAP

SECTION 4-4

LONG SECTION OF COLUMN SHOWING LINK DETAILS

TYPICAL DETAIL OF 500 DIA PILE