



**PILE CAP REINFORCEMENT DETAILS**

SRL NO	PILE MARK	NO. OF PILE	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		SHEAR REINF.
						LONGER DIRECTION	SHORTER DIRECTION	LONGER DIRECTION	SHORTER DIRECTION	
1.	PC1	2	2700	800	900	12mm @ 150 C/C	12mm @ 150 C/C	16mm @ 150 C/C	16mm @ 150 C/C	
2.	PC2	3	2100	1920	1000	12mm @ 125 C/C	12mm @ 125 C/C	16mm @ 125 C/C	16mm @ 125 C/C	12mm @ 250 C/C
3.	PC3	6	3450	2300	1100	12mm @ 150 C/C	12mm @ 150 C/C	16mm @ 150 C/C	16mm @ 150 C/C	10mm @ 250 C/C

**PILE DETAIL & REINFORCEMENT SCHEDULE**

PILE DETAILS				
SIZE (mm)	CAPACITY (TON)	CUT-OFF LEV.(m)	TERMINATION LEV.(m)	PILE REINF.
450DIA	45	(-)1.500	(-)20.00	10 NOS. 12mm

**NOTE :-**

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWING.
- ALL DIMENSIONS ARE IN MM. AND LEVELS ARE IN METER UNLESS MENTIONED OTHERWISE.
- NO DIMENSIONS SHALL BE SCALED OUT, ONLY FIGURED DIMENSIONS ARE TO BE TAKEN.
- GRADE OF CONCRETE IS M25 AS PER IS 456:2000
- GRADE OF REINFORCEMENT IS F550 (TMT BAR) CONFORMING TO IS 1786-2008
- CLEAR COVER TO REINFORCEMENT FOR  
(i) PILE-50MM.  
(ii) PILE CAP  
TOP-50MM.  
BOTTOM-75MM.
- THE SAFE LOAD CAPACITY OF BORED AND CAST-IN-SITU CONCRETE PILE FOR 450MM DIA-  
(i) VERTICAL COMPRESSION-45TON
- LAP/DEVELOPMENT LENGTH 50D (WHERE D = DIA OF THE BAR) LAP ARE TO BE PLACED IN STAGGERED MANNER AND NOT MORE THAN 50% OF BARS SHALL BE LAPPED/SPLICED AT ANY SECTION.
- ANY AMBIGUITY IN THE DRAWING SHOULD BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.
- ALL MATERIALS SHALL CONFORM TO RELEVANT I.S. CODES.

**CERTIFICATE OF THE ARCHITECT**

I CERTIFY THAT ALL THE ARCHITECTURAL DRAWING OF THE PROJECT AT DAG NO:699/700/701/LR KHATHAN NOS: 1305,1306,1307,144 & 544 OF MOUZA KALIKAPUR, JL NO: 40 HAVE BEEN PREPARED BY ME COMPLYING WITH THE NEW TOWN KOLKATA PLANNING AREA (BUILDING) RULES, 2014. I ALSO CERTIFY THAT THE PLANS AND DRAWINGS PREPARED BY ME COMPLYING WITH ALL THE PROVISIONS REGARDING THE FIRE PROTECTION AS PER THE PREVAILING NATIONAL BUILDING CODE OF INDIA. I SHALL BE HELD RESPONSIBLE IF ANY INCORRECT INFORMATION IF FURNISHED BY ME OR ANY VIOLATION OF PROVISIONS OF THESE RULES OR THE PREVAILING NATIONAL BUILDING CODE IS FOUND IN ANY OF THE DRAWING AND DOCUMENTS, SIGNED BY ME AND SUBMITTED TO THE SANCTIONING AUTHORITY FOR OBTAINING SANCTION.

AR. ANURAG CHATTERJEE  
 (ACR/NKDA/10/19/2022)  
 (CA/2013/6066)  
 NAME/SIGNATURE OF ARCHITECT

**CERTIFICATE OF THE STRUCTURAL ENGINEER/CIVIL ENGINEER**

CERTIFIED THAT THE STRUCTURAL DRAWING AND DESIGN OF BOTH THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE CONSIDERING THE SOIL TEST REPORT, AS PER THE RULES AND REGULATIONS MADE UNDER THE ACT AND ALSO CONSIDERING ALL POSSIBLE LOADS, SEISMIC LOAD AND THE MOMENTS GENERATED BY THE PROPOSED STRUCTURE AS PER THE BUREAU OF INDIAN STANDARD AND NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN RESPECT AND THESE PROVISIONS SHALL BE ADHERED TO DURING THE CONSTRUCTION.

Abhinav Dhar  
 Abhinav Dhar  
 Structural Engineer  
 M. Tech (Struct), B. Tech (Civil)  
 Reg. Under NKDA  
 (ACR/NKDA/10/19/2021)  
 (SVERNKDA/10/19/17)  
 NAME/SIGN OF CIVIL ENGINEER

**CERTIFICATE OF THE STRUCTURAL ENGINEER/CIVIL ENGINEER**

CERTIFIED THAT THE STRUCTURAL DRAWING AND DESIGN OF BOTH THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE CONSIDERING THE SOIL TEST REPORT, AS PER THE RULES AND REGULATIONS MADE UNDER THE ACT AND ALSO CONSIDERING ALL POSSIBLE LOADS, SEISMIC LOAD AND THE MOMENTS GENERATED BY THE PROPOSED STRUCTURE AS PER THE BUREAU OF INDIAN STANDARD AND NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN RESPECT AND THESE PROVISIONS SHALL BE ADHERED TO DURING THE CONSTRUCTION.

NAME/SIGN OF CIVIL ENGINEER

**CERTIFICATE OF GEO-TECHNICAL ENGINEER**

THIS IS TO CERTIFY THAT THE SOIL TEST HAS BEEN PERFORMED BY ME TO THIS PROJECT.

Shyam Sundar Kundu  
 B.C.E. (U.V.), M.T.E.S.  
 Empowered Geotechnical Engineer  
 Kolkata Municipal Corporation  
 Class-II, Reg. No. 11/19  
 NAME/SIGN OF GEO-TECHNICAL ENGINEER

**CERTIFICATE OF OWNER**

CERTIFIED THAT I HAVE GONE THROUGH THE NATIONAL BUILDING CODE OF INDIA AND ALSO ABIDE BY THOSE RULES DURING AND AFTER CONSTRUCTION OF THE BUILDING.

VINAYAK REALTECH PRIVATE LIMITED  
 Partner  
 SIGNATURE OF OWNERS

DATE	REV. NO.	REVISIONS	CHK. BY.	APPR. BY.

**PROJECT :**  
 PROPOSED G+4 STORIED RESIDENTIAL BUILDING PLAN OF VINAYAK REALTECH PROPERTIES LLP, SITUATED AT MOUZA: KALIKAPUR, JL NO: 40, RSLR DAG NOS: 699,700,701,702, LR KHATHAN NOS: 1305,1306,1307,158,544, POLICE STATION: RAJBARHAT, DISTRICT: NORTH 24 PGS. UNDER PATHARGHATA GRAM PANCHAYET.

NAME	DATE	TITLE :	SCALE
DSGN. D.MAJUMDAR		GENERAL ARRANGEMENT & R.C. DETAILS OF PILE & PILE CAP	AS SHOWN
			DATE
			21.06.2023
DRG. NO.	[2][0][2][3][R][E][A][T][I][O][N][G][I][N][G][S][T][R][U][C][T][U][R][E]		SIZE
			A1
			REV.
			0
RELEASED FOR	<input type="checkbox"/> PRELIMINARY <input type="checkbox"/> TENDER <input type="checkbox"/> INFORMATION <input checked="" type="checkbox"/> APPROVAL <input type="checkbox"/> CONSTRUCTION		
DRAWING STATUS	<input type="checkbox"/> ARCHITECTURAL <input checked="" type="checkbox"/> STRUCTURAL <input type="checkbox"/> ELECTRICAL <input type="checkbox"/> PLUMBING		

**VETTED**  
 Dr. Dipesh Majumdar  
 BE, ME (Structure), PhD  
 Assistant Professor  
 Department of Construction Engineering  
 Jadavpur University