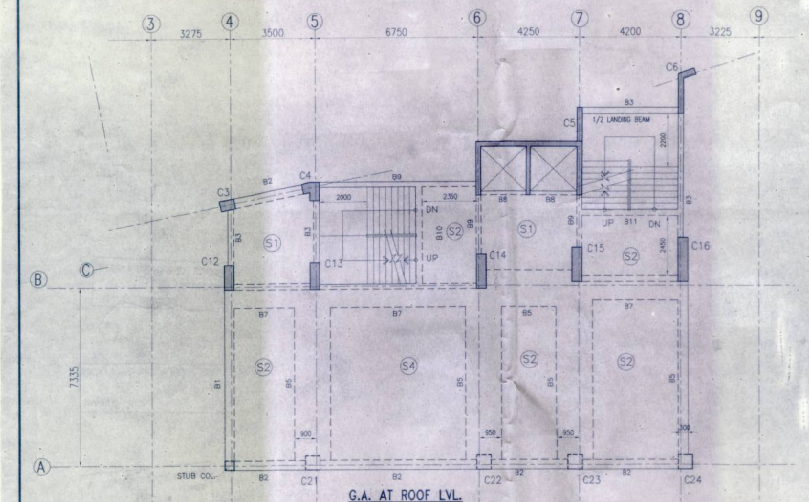


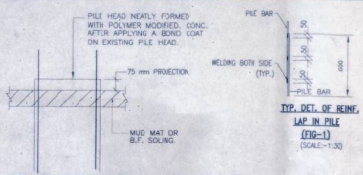
G.A. AT ROOF LVL.
SCALE 1:100

PILE DESCRIPTION & CAPACITY SHALL BE AS FOLLOWS:-

PILE MKD.	DIA	SHAFT LENGTH	VT CAPACITY	CUT OFF LEV.
P	450 m.m.	25 M	55 T.	(-) 925

PILE INSTALLATION (BORED CAST-IN-SITU PILE)

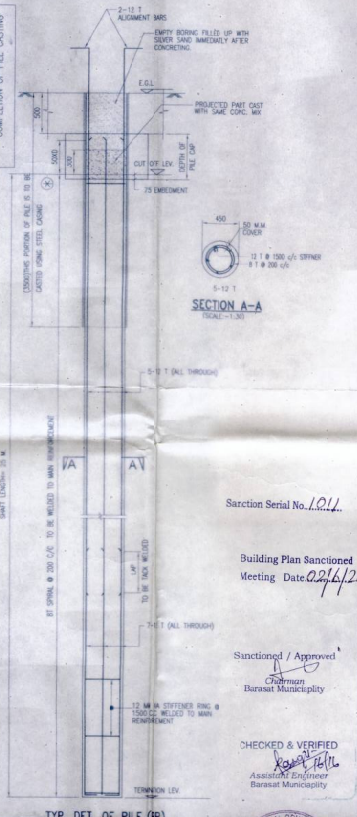
1. ALL REINFORCEMENT IN PILE SHAFTS SHALL BE TMT BARS OF GRADE Fe 500 CONFORMING TO I.S. 1786-2008.
2. CONC MIX IN PILE SHALL BE M-25 WITH MINIMUM CEMENT CONTENT OF 400 Kg/CuM OF CONC. AND SLUMP OF CONC BETWEEN 150m.m.TO 180m.m.
3. CLEAR COVER TO REINF. PILE 50 m.m. (ROLLER TYPE COVER BLOCK TO BE USED).
4. POSITIONAL ECCENTRICITY OF ANY PILE MORE THAN 50mm FOR SINGLE PILE AND 75 m.m. FOR GROUP OF PILES SHALL NOT BE PERMITTED.
5. ALL LAP JOINTS SHALL BE 50 X D AND TACK WELDED. AS SHOWN IN FIG-1.
6. THE PILE HEADS SHALL PROJECT INTO PILE CAP FOR 75 mm THE HEADS TO BE NEATLY FORMED TO THE REQUIRED DIA AS PER FIG-2
7. CONTRACTOR SHALL NOTE THAT THE PILE CAPACITY, CUT-OFF LEV., AND TERMINATION LEVELS SHOWN ARE TENTATIVE AND INDICATIVE ONLY. THIS MAY VARY AS PER-SITE CONDITIONS.
8. DMC METHOD OF PILE BORING SHALL BE ADOPTED BY CIRCULATING BENTONITE SLURRY OF SP. GR. 1.1 TO 1.2 gm/cucm
9. FIELD CONSISTENCY TEST WITH S.P.T SHALL BE CONDUCTED TO ENSURE THE DESIRED S.P.T VALUE AT TERMINATION LEV. AS PER FOLLOWING FREQUENCY
   a). FROM 2.0M ABOVE THE TERM. LEV. FOR 1st PILE &
   b). FROM 1.0M ABOVE THE TERM. LEV. FOR EVERY 10th. PILE THERE AFTER



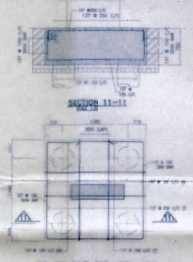
TYP. DET. OF PILE HEAD (FIG-2)
SCALE- 1:30

TYP. DET. OF REINF. LAP IN PILE (FIG-1)
(SCALE-1:30)

THIS IS OPTIONAL DEPENDING UPON SOIL CONDITION AND SHOULD BE REMOVED AFTER COMPLETION OF PILE CASTING



TYP. DET. OF PILE (P)
PILE CAPACITY= 55 TON
SCALE-1:30



SECTION A-A
SCALE-1:30

SCHEDULE OF TYPICAL FLOOR BEAMS

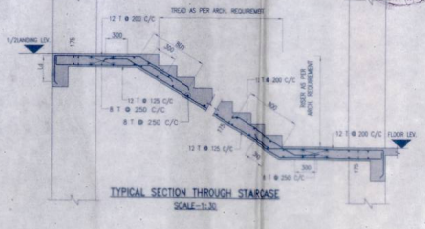
BEAM MKD.	BEAM SIZE	BEAM REINF. END SUPPT. (T)	END SUPPT. (B)	MID SPAN (T)	MID SPAN (B)	CONT. SUPPT. (T)	CONT. SUPPT. (B)	CANT. END (T)	CANT. END (B)	UPTO L/3 FROM SUPPT OR Ld.	MID SPAN	REMARKS
B-1	400X600	4-20T(I) +4-20T(II)	4-20T(I) +4-16T(II)	4-20T(I)	4-20T( ) +4-16T(I)	4-20T(I) +4-20T(II)	4-20T(I) +4-16T(I)			BT 4L @ 100 C/C	BT 4L @ 150 C/C	
B-2	400X600	4-20T(I) +4-20T(II)	4-20T	4-20T(I)	4-20T	4-20T(I) +2-20T(II)	4-20T			BT 4L @ 100 C/C	BT 4L @ 150 C/C	
B-3	250X600	3-20T(I) +2-20T(II)	3-20T(I) +3-16T(II)	2-20T(I)	2-20T(I) +1-16T(II)					10T 2L @ 100 C/C	10T 2L @ 100 C/C	
B-4	600X450	3-16T(I) +2-12T(II)	5-20T(I)	3-16T(I) +2-12T(II)	5-20T(I) +3-20T(II)					BT 4L @ 150 C/C	BT 4L @ 250 C/C	
B-5	1500X450	13-20T(I) +7-20T(II)	13-20T(I)	7-20T(I)	13-20T(I)	13-20T(I) +7-20T(II)	13-20T(I)			BT 8L @ 100 C/C	BT 8L @ 200 C/C	
B-6	600X450	5-20T(I)	3-20T(I) +2-12T(II)	5-20T(I)	3-20T(I) +2-12T(II)					BT 4L @ 100 C/C	BT 4L @ 100 C/C	
B-7	950/2004 450/600	2-20T(I) +6-20T(II)	6-20T(I)	2-20T(I) +6-20T(II)	6-20T(I)	2-20T(I) +6-20T(II)	6-20T(I)			BT 2L @ 100 C/C BT 4L @ 100 C/C	BT 2L @ 200 C/C BT 4L @ 200 C/C	
B-7A	750X450	7-20T(I) +4-20T(II)	4-20T(I) +3-16T(II)	7-20T(I)	4-20T(I) +3-16T(II)					BT 6L @ 100 C/C	BT 6L @ 100 C/C	
B-8	150X600	2-12T(I) +2-16T(II)	2-16T(I)	2-12T(I) +2-16T(II)	2-16T(I)					BT 2L @ 100 C/C	BT 2L @ 100 C/C	
B-9	200X600	2-25T(I) +2-25T(II)	2-25T(I) +2-20T(II)	2-25T(I) +2-25T(II)	2-25T(I) +2-20T(II)					10T 2L @ 100 C/C	10T 2L @ 100 C/C	
B-10	200X600	2-16T(I)	2-16T(I)	2-16T(I)	2-16T(I)					BT 2L @ 150 C/C	BT 2L @ 200 C/C	
B-11	250X600	2-16T(I)	3-16T(I)	2-16T(I)	3-16T(I)					BT 2L @ 150 C/C	BT 2L @ 200 C/C	
B-12	400X600	4-25T(I) +4-25T(II)	4-25T(I)	4-25T(I)	4-25T(I) +2-20T(I)	4-25T(I) +4-25T(II)	4-25T(I)			10T 4L @ 100 C/C	10T 4L @ 200 C/C	
B-13	250X600	3-16T	3-16T	3-16T(I)	3-16T					BT 2L @ 100 C/C	BT 2L @ 200 C/C	
B-14	400X450	4-20T(I)	2-20T(I) +1-16T(II)	4-20T(I)	2-20T(I) +1-16T(II)					BT 4L @ 100 C/C	BT 4L @ 300 C/C	
B-15	400X1325	4-25T(I)	4-25T(I)	4-25T(I)	4-25T(I)					12T 2L @ 150 C/C	12T 2L @ 300 C/C	
B-16	800X450	4-20T(I) +3-16T(II)	7-16T(I)	4-20T(I)	7-16T(I)					BT 6L @ 125 C/C	BT 6L @ 250 C/C	
B-17	400X1425	4-25T(I) +4-25T(II)	4-25T(I)	4-25T(I)	4-25T(I) +2-25T(II)	4-25T(I) +4-25T(II)	4-25T(I)			10T 4L @ 125 C/C	10T 4L @ 250 C/C	
B-18	700X450	7-25T(I)	4-25T(I) +3-20T(II)	4-25T(I)	4-23T+3-20T(I) +4-20T(II)					BT 6L @ 125 C/C	BT 6L @ 250 C/C	
B-19	600X450	5-20T(I) +3-20T(II)	5-20T(I)	5-20T(I)	5-20T(I) +3-16T(II)					BT 4L @ 100 C/C	BT 4L @ 250 C/C	

SCHEDULE OF SLABS

SLAB MKD.	SLAB THK.	SLAB REINF. SHORTER DIR. SUPPORT	SHORTER DIR. MID SPAN	LONGER DIR. SUPPORT	LONGER DIR. MID SPAN	DISTRIBUTION
S1	135 THK.	10T @ 100 C/C	10T @ 125 C/C	10T @ 150 C/C	10T @ 175 C/C	8T @ 250 C/C
S2	125 THK.	10T @ 150 C/C	10T @ 175 C/C	10T @ 175 C/C	10T @ 200 C/C	8T @ 250 C/C
S3	150 THK.	12T @ 100 C/C	12T @ 125 C/C	12T @ 200 C/C	12T @ 250 C/C	8T @ 250 C/C
S4	175 THK.	12T @ 175 C/C	12T @ 200 C/C	12T @ 200 C/C	12T @ 250 C/C	8T @ 250 C/C
S5	150 THK.	12T @ 150 C/C	12T @ 175 C/C	12T @ 200 C/C	12T @ 250 C/C	8T @ 250 C/C
S6	225 THK.	12T @ 100 C/C	12T @ 125 C/C	12T @ 150 C/C	12T @ 200 C/C	8T @ 200 C/C
S7	225 THK.	10T @ 150 C/C	10T @ 125 C/C	10T @ 100 C/C	10T @ 125 C/C	8T @ 200 C/C
S8	250 THK.	12T @ 200 C/C	16T @ 150 C/C	16T @ 150 C/C	12T @ 150 C/C	8T @ 200 C/C

SCHEDULE OF COLUMN

ROOF TO 3RD FLOOR	M-25 8-20T + 12-16T	M-25 8-20T + 12-15T	M-25 14-16T	M-25 18-20T	M-25	M-25 20-16T	M-25 24-20T	M-25 22-20T	M-25 10-16T + 8-12T	M-25 18-16T	M-25 20-16T	M-25 8-16T + 16-12T	M-25 18-20T	M-25 24-20T	M-25 8-20T + 12-16T	M-25 8-20T + 12-16T	M-25 12-20T + 4-16T	M-25 20-20T	M-25 20-16T + 40-12T + 34-10T	M-25
3RD FLOOR TO FOUNDATION	M-30 8-20T + 12-16T	M-30 8-20T + 12-15T	M-30 14-16T	M-30 18-20T	M-30	M-30 20-16T	M-30 24-20T	M-30 22-20T	M-30 10-16T + 8-12T	M-30 18-16T	M-30 20-16T	M-30 8-16T + 16-12T	M-30 18-20T	M-30 24-20T	M-30 8-20T + 12-16T	M-30 8-20T + 12-16T	M-30 12-20T + 4-16T	M-30 20-20T	M-30 94-16T	M-30
COL. SIZE	400x750/750	600x750/870	400x600	400 x 6 SHOWN		AS SHOWN	400x750/1200	400x750/750	400 x1000	400 x1100	400 x1400	400 x 800	400 x 1200	400x750/750	600x750	600x750	AS SHOWN			
LEVEL / COL. MKD.	C1	C2	C3,C7,C10, C11	C4		C6	C8	C9	C12	C13	C14,C15	C16	C17	C18	C19	C20,C25	C21,C22,C23, C24,C26	C27		LIFT



TYPICAL SECTION THROUGH STAIRCASE
SCALE-1:30

CERTIFICATE OF STRUCTURAL ENGINEER

I DO HEREBY CERTIFY THAT THE BUILDING SITE PROPOSED FOR CONSTRUCTION AT 49/39, JESSORE ROAD (EAST), WARD NO-1 UNDER JURISDICTION OF BARASAT MUNICIPALITY HAVE BEEN TESTED BY ME AND ALL THE DESIGNS, DRAWING(SPECIFY THE DRAWING NO SERIALLY),SOIL TEST REPORT AND LOAD TEST RESULTS FOR FOUNDATION AND SUPER STRUCTURE HAVE BEEN DULY REVIEWED CONFIRMING TO STIPULATIONS OF ALL LATEST RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE AND IT I FOUND THAT EVERYTHING IS COMPLETELY IN ORDER AND THE PROPOSED FOUNDATION AND SUPERSTRUCTURE ARE SAFE IN ALL RESPECT

Mrigank Kumar Roy
B.E.( ) M.S.(C.TECH, Birkenstein, U.K.)
A.M. C.E. (I) M.E.(INDIA) M.I.STRUCT.E. (London)
Membership No. 20100802
KMC Empanelled Structural Engineer,
Class-1, E.S.E. 1/6

SIGNATURE OF STRUCTURAL REVIEWER

MRIGANKA KUMAR ROY
E.S.E.-I/06

I HEREBY CERTIFY THAT THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION ON 49/39, JESSORE ROAD (EAST), WARD NO-1 UNDER JURISDICTION OF BARASAT MUNICIPALITY HAVE BEEN PERSONALLY INSPECTED AND SO DESIGNED BY ME WILL MAKE SUCH FOUNDATION AND SUPER STRUCTURE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL AND OTHER CONDITIONS, IF ANY CONFORMING TO ALL STIPULATIONS OF ALL RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE.

Utpal Santra
UTPAL SANTRA
B.C.E., M.C.E. [STRUCT.]
M.I.E.-M/122184
KMC Empanelled Structural Engineer
Class-I, E.S.E. No. 1/58

SIGNATURE OF STRUCTURAL ENGINEER

UTPAL SANTRA
E.S.E.-I/58

I HEREBY CERTIFY THAT THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION ON 49/39, JESSORE ROAD (EAST), WARD NO-1 UNDER JURISDICTION OF BARASAT MUNICIPALITY HAVE BEEN PERSONALLY INSPECTED AND SO DESIGNED BY ME WILL MAKE SUCH FOUNDATION AND SUPER STRUCTURE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL AND OTHER CONDITIONS, IF ANY CONFORMING TO ALL STIPULATIONS OF ALL RELEVANT IS CODE O' PRACTICE AND NATIONAL BUILDING CODE.

Alok Roy
ALOK ROY
Enlisted Geotechnical Engineer
Rajpur - Sonarpur Municipality

SIGNATURE OF GEO-TECHNICAL ENGINEER

ALOK ROY
9A MIAN PARK KOLKATA700004.
REGD. NO: 028/G.E.ENG

CERTIFICATE OF ARCHITECT :-

I DO HEREBY CERTIFY THAT PLANS,ELEVATIONS AND SECTIONS AND OTHER STRUCTURAL DETAILS OF THE PROPOSED BUILDING ON 49/39, JESSORE ROAD (EAST), WARD NO-1 UNDER JURISDICTION OF BARASAT MUNICIPALITY HAVE BEEN PREPARED IN CONFORMITY WITH ALL RELEVANT PROVISIONS UNDER THE WEST BENGAL MUNICIPAL(BUILDING) RULES,2007.THIS ALSO TO CERTIFY THAT ALL RELEVANT NO OBJECTION CERTIFICATES FROM THE RESPECTIVE AUTHORITIES SUCH AS FIRE AND EMERGENCY SERVICES DEPARTMENT, AIRPORT AUTHORITY, POLLUTION CONTROL BOARD, TELECOMMUNICATION DEPARTMENT ETC AS APPLICABLE IN THIS REGARD,ARE ALSO ENCLOSED WITH THE APPLICATION FOR SEEKING APPROVAL OF THE PLAN TO CONSTRUCT/RECONSTRUCT/ ADDITION TO/ALTERATION OF THE BUILDING ON THE SAID PLOT.

Subir Kumar Basu
SUBIR KUMAR BASU
Registered Architect
Regid No.- CA/78/4375

SIGNATURE OF ARCHITECT

SUBIR KUMAR BASU
4,BROAD STREET,KOLKATA-700019
REGD. NO: CA/78/4375

CANDICE TOWERS PVT. LTD. & OTHERS
Constituted Attorney/Authorised Signatory

SIGNATURE OF OWNER

Sanction Serial No. 1014

Building Plan Sanctioned Meeting Date 22/4/2016

Sanctioned / Approved
Chairman
Barasat Municipality

CHECKED & VERIFIED
Assistant Engineer
Barasat Municipality

NOTE:-
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT SHALL BE TMT. BARS OF GRADE FE-500 (FOR DIA 12 & ABOVE) & FE-415 (FOR DIA 8 & 10) CONFORMING TO IS-1786-1985 AND ELONGATION SHALL BE MINIMUM 14.5 PERCENT.
3. CLEAR COVER FOR ALL MAIN REINF SHALL BE
   a)PILE CAP = 50 b) COLUMN = 40
   c)FLOOR BEAM = 25 d)FLOOR SLAB = 20 e)STAIR = 20
4. GRADE OF CONCRETE M25/M30
5. GRADE OF P.C.C.
   a)UNDER FOUNDATION = 1:4:8 b)UNDER FLOOR = 1:3:6
6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH DRAWING.
7. ANY DISCREPANCY IN THE STRUCTURAL DRAWINGS WITH ANY OTHER DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT.

Project:
PROPOSED (G+7) RESIDENTIAL BUILDING AT BARASAT,
49/39, JESSORE ROAD (EAST), KOLKATA-700124, DISTRICT 24 PARGANS(NORTH), BLOCK BARASAT I, MOUZA-SITI, J.L. NO. 101, P.S. & P.O. BARASAT UNDER WARD NO. 01 OF BARASAT MUNICIPALITY, LR DAG NOS. 539, 539/1430,540,544,553 & 554, RS DAG NOS 543,545 TO 548,550 621 TO 632,632/1346,633 TO 635,635/1347,636,637,644 TO 647,649, 659 TO 661 671 & 672.

Architect:
Subir Kumar Basu
CONSULTING ARCHITECTS & ENGINEERS 4, BROAD STREET KOLKATA-700019

Civil & Structural Consultants:
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1516, RAJDANGA MAIN ROAD
KOLKATA - 700 107
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FAX NO. 913324418083
E-MAIL:mncnpl2008@gmail.com

Title:
G.A. AT ROOF LVL & BEAM,SLAB SCHEDULE & PILE DET. (COMMERCIAL)

Drawn	Scale:-	Date
A.M.	AS SHOWN	09.05.16

☐ Design Development ■ Corporation Dwg ☐ As Built Dwg.
☐ Contract Document ☐ Construction Dwg ☐ Tender Dwg.

Job No.	Drawing No.
1545	C-S50-00-01