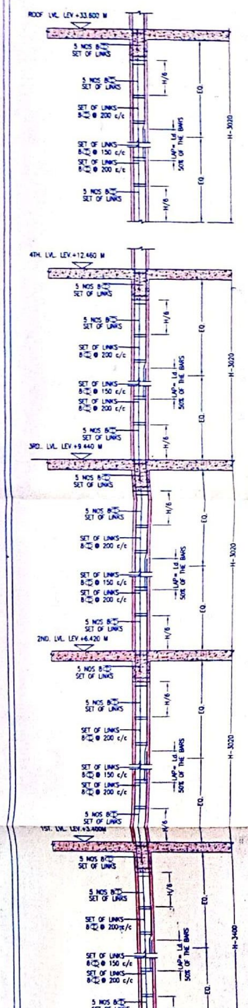
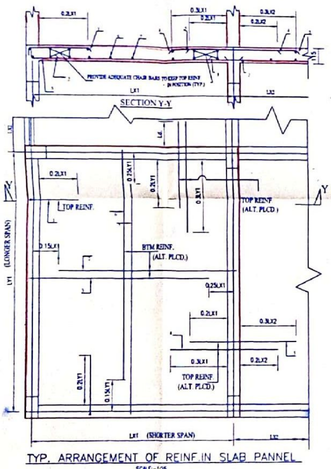


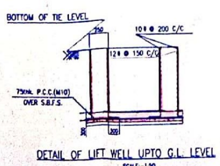
DET.OF TYPICAL COLUMN SECTION
SCALE-1:25



TYP. ARRANGEMENT OF REINF.IN SLAB PANNEL
SCALE-1:25

FLOOR SLAB REINFORCEMENT SCHEDULE					
Panel Mkd	Thick (mm)	Bottom Reinforcement		Top Reinforcement over Contn. Suppt	
		Short Span	Long Span	Short Span	Long Span
S1	120	8#@150 c/c	8#@200 c/c	8#@150 c/c	8#@200 c/c

3.Provide greater of the Two (i.e. Reinfoecement lesser spacing) unless specified.
4.Provide support reinforcement at adistance 0.02L / 0.30L from the face of support.
5.No curtailment of bottom reinforcement shall be done for bars having spacing 200c/c or more



DETAIL OF LIFT WELL UPTO G.L. LEVEL
SCALE-1:50

SCHEDULE OF PILE & PILE CAP / TECHNICAL DETAIL OF PILE & PILE CAP

PILE MKD.	NO. OF PILE	COL. MKD.	DIA OF PILE	RE.	LAT. TIES	PILE CAP MKD.	SIZE	DEP	MAIN RE.	SEC. RE.	SHEAR RE.	REMARKS	PILE CAP SIZE (L X B X D) (FIGURE)	TENTATIVE CUT-OFF LEVEL OF PILE	TOT NO OF SIMILAR CAP	TOT NO OF PILES	LENGTH OF PILE
P3	3	C1,C4,C5,C7,C8,C13,C18,C20, C21,C22,C25,C26,C28,C29,C30, C31,C32,C35,C58,C62	500	8-16# AT TOP 13M & 8-16# AT BO. 13M	10#@ 100C/C & 12#@ 100C/C From1500 TOP & BOTTOM	PC3	AS PER DRAW.	1200	7-20# ALONG 2PILE & 8-20# ACRO. BEAM	6-16# AT TOP OF BEAM &5-12# USED AS PERIPH ERAL-REIN.	1L-12# @ 150C/C	12# @ 150 C/C USED FOR BOTH DIRECTION AT BOTTOM	AREA= 4.3 SQ.M. DEPTH= 1200mm	-2500	20	60	MINIMUM LENGTH OF PILE BELOW ITS CUT OFF LEVEL =26075
P4	4	C2,C3,C10,C11,C12,C15,C16,C17 C23,C24,C27,C34,C36,C37, C38,C39,C40,C43,C44,C49, C50,C51,C52,C53,C54,C55, C56,C57,C59	500	8-16# AT TOP 13M & 8-16# AT BO. 13M	10#@ 100C/C & 12#@ 100C/C From1500 TOP & BOTTOM	PC4	2400 X 2400	1200	20#@ 150 C/C BOTH WAY	5-12 USED AS PERIPH ERAL-REIN.	2L-12# @ 100C/C	16# @ 200 C/C USED FOR BOTH DIRECTION AT TOP	AREA= 5.76 SQ.M. DEPTH= 1200mm	-2500	29	116	
P5	5	C33, C41, C42, C47, C48	500	8-16# AT TOP 13M & 8-16# AT BO. 13M	10#@ 100C/C & 12#@ 100C/C From1500 TOP & BOTTOM	PC5	3500 X 2400	1200	20#@ 150 C/C ALONG SHORTER DIRECTION & 16#@ 150 C/C ALONG LONGER DIRECTION	5-12 USED AS PERIPH ERAL-REIN.	2L-12# @ 100C/C	16# @ 200 C/C USED FOR BOTH DIRECTION AT TOP	AREA= 8.4 SQ.M. DEPTH= 1200mm	-2500	5	25	
P7	7	C6+C9, C14+C19, C60+C61	500	8-16# AT TOP 13M & 8-16# AT BO. 13M	10#@ 100C/C & 12#@ 100C/C From1500 TOP & BOTTOM	PC7	AS PER DRAW	1200	20#@ 150 C/C BOTHWAY	5-12# USED AS PERIPH ERAL-REIN.	1L-12# @ 200C/C	16# @ 200 C/C USED FOR BOTH DIRECTION AT TOP	AREA= 10.92 SQ.M. DEPTH= 1200mm	-2500	3	21	
P8	8	C45 + C46	500	8-16# AT TOP 13M & 8-16# AT BO. 13M	10#@ 100C/C & 12#@ 100C/C From1500 TOP & BOTTOM	PC8	4100 X 3550	1200	20#@ 150 C/C ALONG SHORTER DIRECTION & 16#@ 150 C/C ALONG LONGER DIRECTION	5-12# USED AS PERIPH ERAL-REIN.	2L-12# @ 200C/C	16# @ 200 C/C USED FOR BOTH DIRECTION AT TOP	AREA= 14.56 SQ.M. DEPTH= 1200mm	-2500	1	8	

(CUT OFF LEVEL SHOULD BE DONE AS PER REQUIREMENT OF LIFT WELL)

TYPICAL FLOOR BEAM SCHDULE								
Beam Mkd.	Beam Size		Reinf. Alth.		Reinforcement Extra		Vt. Stirrups - 2L	
	B	D	Top	Bottom	Top at Supp.	Bottom Span	Supp.	Span
TY-BX-1	250	400	3-20	3-16	3-20	2-16	8 # @125c/c	8 # @150c/c
TY-BX-2	250	400	3-16	3-16	3-16	2-16	8 # @150c/c	8 # @200c/c
TY-BX-3	250	350	3-20	3-16	2-16	2-16	8 # @150c/c	8 # @200c/c
TY-BX-4	250	400	5-20	5-16	——	——	8 # @100c/c	8 # @100c/c
TY-BX-5	250	300	3-16	3-16	2-16	2-16	8 # @150c/c	8 # @200c/c
TY-BY-1	250	400	3-20	3-16	3-20	2-16	8 # @125c/c	8 # @150c/c
TY-BY-2	250	350	3-20	3-16	2-16	2-16	8 # @150c/c	8 # @200c/c
TY-BY-3	250	350	3-16	3-16	2-16	2-16	8 # @150c/c	8 # @200c/c
TY-BY-4	250	350	3-16	3-16	——	——	8 # @200c/c	8 # @200c/c
TB1	250	400	3-16	3-16	2-16	2-16	8 # @150c/c	8 # @200c/c

1.For Supports having Two Different Extra Top Reinf. at Two Sides, the Higher Top Reinf. Shall be Provided at a distance.
2.Stirrups for supports should be extended upto distance of 2 x d(d=Effective depth of beam)from of support & for span should be placed edge to edge distance -4 x d

NOTES :

1. ALL DIMENSIONS ARE IN MM
2. ALL STRUCTURAL CONCRETE SHALL BE OF GRADE M [illegible] CONFORMING TO IS 456-2000 & REINFORCEMENT DETAIL FOLLOWED AS PER SP 34
3. ALL LEAN CONCRETE SHALL BE GRADE OF [illegible]
4. ALL REINFORCEMENT STEEL BARS SHALL CONFORM TO IS 1786-1985 OF GRADE FE 500
5. UNLESS NOTED, OTHERWISE LAP/ ANCHOR (Ld) LENGTH SHALL BE [illegible] TIMES THE DIAMETER OF THE BAR OR CLAUSE [illegible] OF I.S.456-2000
6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:

ITEMS	TOP	BOTTOM	SIDE
a) PILE CAP		50 MM	50 MM
b) COLUMN			40 MM
c) TIE BEAM		25 MM	25 MM
d) FOUNDATION BEAM		[illegible]	50 MM

STRUCTURL DECLARATION

1. CERTIFIED THAT THE FOUNDATION AND THE SUPER STRUTURE OF THE BUILDING HAVE BEEN SO DESIGNED BY ME TO BE SAFE IN ALL RESPECT INCLUDING IN THE CONSIDERATION OF THE BEARING CAPACITY & SETTLEMENT OF SOIL.

2. THE STRUCTURAL DESIGN & DRAWING OF BOTH FOUNDATION AND SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS (HORIZONTAL & VERTICAL) AS PER THE NATIONAL BUILDING CODE OF INDIA.

TITLE SLAB ,BEAM,G/A PLAN & DETAIL OF WATER RESERVOIR TANK

STRUCTURAL DETAIL	SHEET NO - 9 OF 9
ALL DIMENSIONS ARE IN M.M.	SCALE - 1:25,1:50,1:100

PROPOSED PLAN OF
(G +X) STORIED RESIDENTIAL BUILDING
AT HOLDING NO -100, MAHENDRA BHATTACHARYA ROAD,
L.R. DAG NO -191,348,363,366,367,368,369
KHATIAN NO - 668,669,71,671,672,
673,674,675,676,677,678,679,680,681,682,683,684,
SHEET NO - 48, J.L. NO - 1,MOUZA- BANTRA,
P.S. - CHATTERJEE HAT,WARD - 43 ,BOROUGH - VII ,
DIST - HOWRAH, UNDER H.M.C. PIN-711104

Tanusri Datta
TANUSRI DATTA
Empanelled Structural Engineer of
H.M.C. Class-I, Regd. No.-21
20+20/2, Shalimar Road, Howrah-3
SIGN.OF STR. ENG.

Mintu Paul
Ar. Mintu Paul (B. Arch)
L.B.A. No.- 49, of H. M. C
S. Dullya, Andul, Howrah 711302
SIGN.OF L. B. S./L.B.A.

Bijay Kumar Singh

1) Debasis Kundu
2) Minu Das
3) Bithi Mondal
4) Binay Kumar Samanta
5) Bijan Kumar Samanta
6) Biman Kumar Samanta
7) Pushpanjali Kundu
8) Koka Pal
9) Malavika Dey
10) Surama Kundu
11) Amitava Kundu
12) Anupama Kundu
13) Pulak Kundu
14) Rita Kundu
15) Sourav Kundu
16) Amyanath Kundu
17) Chandra Kundu
18) Tnoib Kundu
19) Mithu Konal
20) Pabitra Kumar Kundu
21) Pranab Kumar Kundu
22) Biplab Kundu
23) Pratima Kundu
24) Anirban Kundu
25) Amaresh Kundu
26) Aparesh Kundu
Constituted Attorney Bijay Kumar Singh

SIGN.OF APPLICANT/S

THE HOWRAH MUNICIPAL CORPORATION
BUILDING DEPARTMENT

H.M.C. SEAL

PARTY'S COPY

Structural plan and design calculation as submitted by the structural engineer have been kept with B.P. No. [illegible] Date [illegible] for record of the Howrah Municipal Corporation without verification No deviation from the submitted structural plan should be made at the time of erection [illegible] submitting fresh structural plan along with [illegible] and stability [illegible] necessary steps should be taken for the safety of the adjoining premises public and private properties and safety of Human Life during construction.

Assistant Engineer (In-Charge)
Building Department
Howrah Municipal Corporation

Sanctioned as per
MIC Meeting 08/01/18
Decision Dt.
Sl. 15

PLACED IN MUNICIPAL
BUILDING COMMITTEE
DATED 12.12.16