## SCHEDULE OF R.C.C. COLUMNS

| COLUMN MKD. | SIZE & REIN. FROM BASE TO 2ND. FL. LVL | SIZE & REIN. FROM 2ND. FL. LVL. TO 3RD. FL. LVL | SIZE & REIN. FROM 3RD. FL. LVL. TO ABOVE FL. LVL | STIRRUP |
|---|---|---|---|---|
| C2,C6,C18 | 250 X 600 — 8 - 20 ⌀ — 8 - 20 ⌀ | 250 X 600 — 4 - 20 ⌀ — 4 - 16 ⌀ — 4 - 20 ⌀ — 4 - 16 ⌀ | 250 X 600 — 4 - 16 ⌀ — 4 - 12 ⌀ — 4 - 16 ⌀ — 4 - 12 ⌀ | REFER COLUMN SECTION |
| C3,C4,C5,C7, C8,C9 | 250 X 600 — 6 - 20 ⌀ — 6 - 20 ⌀ | 250 X 600 — 4 - 20 ⌀ — 2 - 16 ⌀ — 4 - 20 ⌀ — 2 - 16 ⌀ | 250 X 600 — 4 - 16 ⌀ — 2 - 12 ⌀ — 4 - 16 ⌀ — 2 - 12 ⌀ | REFER COLUMN SECTION |
| C1,C10,C13, C16,C17,C19 | 250 X 600 — 7 - 16 ⌀ — 7 - 16 ⌀ | 250 X 600 — 4 - 16 ⌀ — 3 - 12 ⌀ — 4 - 16 ⌀ — 3 - 12 ⌀ | 250 X 600 — 7 - 12 ⌀ — 7 - 12 ⌀ | REFER COLUMN SECTION |
| C11,C12,C14, C15 | 250 X 500 — 6 - 16 ⌀ — 6 - 16 ⌀ | 250 X 500 — 4 - 16 ⌀ — 2 - 12 ⌀ — 4 - 16 ⌀ — 2 - 12 ⌀ | 250 X 500 — 6 - 12 ⌀ — 6 - 12 ⌀ | REFER COLUMN SECTION |

## SCHEDULE OF R.C.C. BEAMS

| BEAM MKD. | BEAM SECTION | SIZE & REIN. AT SUPPORT — TOP | SIZE & REIN. AT SUPPORT — BOTTOM | STIRRUP AT SUPPORT | SIZE & REIN. AT SPAN — TOP | SIZE & REIN. AT SPAN — BOTTOM | STIRRUP AT SPAN |
|---|---|---|---|---|---|---|---|
| B1 | 250X450 | 3 - 16⌀ + 3 - 16⌀ | 3 - 16⌀ | 8 TOR 2L @ 125 C/C | 3 - 16⌀ | 3 - 16⌀ + 2 - 16⌀ | 8 TOR 2L @ 125 C/C |
| B2 | 250X450 | 2 - 16⌀ + 3 - 16⌀ | 3 - 12⌀ | 8 TOR 2L @ 125 C/C | 2 - 16⌀ | 3 - 12⌀ + 2 - 16⌀ | 8 TOR 2L @ 125 C/C |
| B3 | 250X450 | 2 - 16⌀ + 2 - 16⌀ | 3 - 12⌀ | 8 TOR 2L @ 175 C/C | 2 - 16⌀ | 3 - 12⌀ | 8 TOR 2L @ 175 C/C |
| B4 | 250X450 | 2 - 16⌀ | 3 - 16⌀ | 8 TOR 2L @ 125 C/C | 2 - 16⌀ | 3 - 16⌀ + 2 - 16⌀ | 8 TOR 2L @ 175 C/C |
| B5 | 250X450 | 2 - 16⌀ | 2 - 16⌀ | 8 TOR 2L @ 175 C/C | 2 - 16⌀ | 2 - 16⌀ | 8 TOR 2L @ 175 C/C |
| B6 | 250X450 | 8 - 16⌀ | 3 - 12⌀ | 8 TOR 2L @ 125 C/C | 6 - 16⌀ | 3 - 12⌀ | 8 TOR 2L @ 125 C/C |
| B7 | 250X450 | 6 - 16⌀ | 3 - 12⌀ | 8 TOR 2L @ 125 C/C | 6 - 16⌀ | 3 - 12⌀ | 8 TOR 2L @ 125 C/C |
| B3' | 200X450 | 2 - 16⌀ + 2 - 16⌀ | 3 - 12⌀ | 8 TOR 2L @ 175 C/C | 2 - 16⌀ | 3 - 12⌀ | 8 TOR 2L @ 175 C/C |
| TB1 | 250X450 | 2 - 16⌀ + 2 - 16⌀ | 2 - 16⌀ | 8 TOR 2L @ 150 C/C | 2 - 16⌀ | 2 - 16⌀ + 2 - 16⌀ | 8 TOR 2L @ 150 C/C |
| TB2 | 250X450 | 2 - 16⌀ + 2 - 16⌀ | 2 - 16⌀ | 8 TOR 2L @ 175 C/C | 2 - 16⌀ | 2 - 16⌀ | 8 TOR 2L @ 175 C/C |
| TB3 | 250X450 | 2 - 12⌀ | 2 - 16⌀ | 8 TOR 2L @ 175 C/C | 2 - 12⌀ | 2 - 16⌀ | 8 TOR 2L @ 175 C/C |
| TB4 | 250X450 | 4 - 16⌀ | 2 - 16⌀ | 8 TOR 2L @ 125 C/C | 4 - 16⌀ | 2 - 16⌀ | 8 TOR 2L @ 125 C/C |
| TB5 | 250X450 | 2 - 16⌀ | 3 - 16⌀ | 8 TOR 2L @ 125 C/C | 2 - 16⌀ | 3 - 16⌀ | 8 TOR 2L @ 175 C/C |

## SCHEDULE OF COMBINED FOUNDATIONS

| FDN. MKD. | UNDER COLUMN | SIZE OF FDN. | SLAB DIMENSIONS (a) M | (b) M | (E) M | (D) M | INVERTED RIB BEAM SIZE | LONG REIN. AT SUPP. SPAN TOP | LONG REIN. AT SUPP. SPAN BOTTOM | LONG REIN. AT MID. SPAN TOP | LONG REIN. AT MID. SPAN BOTTOM | STIRRUP | FOOTING TERANSVERSE REINFORCEMENT | FOOTING LONG REINFORCEMENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F1 | C4 + C5 + C7 + C8 | 6100 X 7400 | SHOWN AS PER DRAWING | | 5.1 | 500 TO 300 | 900 X 1200 | 6- 20 ⌀ | 6 - 20 ⌀+ 5 - 20 ⌀ | 6 - 20 ⌀+ 5 - 20 ⌀ | 6 - 20 ⌀ | 10 ⌀ 4L@ 125 c / c | 12 ⌀ @ 75 c/c | 8 ⌀ @ 200 c/c |
| F2 | C9 + C16 + C19 | 2700 X 12500 | 2 525 AT C9 | 2 450 AT C19 | 2.4 | 500 TO 300 | 750 X 1200 | 7 -20 ⌀ | 7 - 20 ⌀+ 6 - 20 ⌀ | 7 - 20 ⌀ | 7 - 20 ⌀ | 10 ⌀ 4L@ 125 c / c | 12 ⌀ @ 125 c/c | 8 ⌀ @ 200 c/c |
| F3 | C3 + C6 | 3100 X 7600 | 1 532 AT C3 | 2 100 AT C6 | 3.1 | 500 TO 300 | 700 X 1200 | 6 - 20 ⌀ | 6 - 20 ⌀+ 5 - 20 ⌀ | 6 - 20 ⌀ | 6 - 20 ⌀ | 10 ⌀ 4L@ 125 c / c | 12 ⌀ @ 75 c/c | 8 ⌀ @ 200 c/c |
| F4 | C10 + C13 | 3350 X 5550 | 1 219 AT C10 | 1 525 AT C13 | 3.35 | 600 TO 300 | 850 X 1200 | 5 - 20 ⌀ | 5 - 20 ⌀+ 4 - 20 ⌀ | 5 - 20 ⌀ | 5 - 20 ⌀ | 10 ⌀ 4L@ 125 c / c | 12 ⌀ @ 75 c/c | 8 ⌀ @ 200 c/c |
| F5 | C11 + C12 | 2600 X 5000 | 1 595 AT C11 | 1 595 AT C12 | 2.55 | 600 TO 300 | 600 X 1200 | 5 - 20 ⌀ | 5 - 20 ⌀+ 4 - 20 ⌀ | 5 - 20 ⌀ | 5 - 20 ⌀ | 10 ⌀ 4L@ 125 c / c | 12 ⌀ @ 125 c/c | 8 ⌀ @ 200 c/c |
| F6 | C14 + C15 | 2800 X 5000 | 1 595 AT C14 | 1 595 AT C15 | 2.55 | 600 TO 300 | 600 X 1200 | 5 - 20 ⌀ | 5 - 20 ⌀+ 4 - 20 ⌀ | 5 - 20 ⌀ | 5 - 20 ⌀ | 10 ⌀ 4L@ 125 c / c | 12 ⌀ @ 125 c/c | 8 ⌀ @ 200 c/c |

## SCHEDULE OF R.C.C. SLABS

| SLAB MKD | THICKNESS (mm) | REINFORCEMENT PARALLEL TO SHORTER DIRECTION — AT MIDDLE SPAN | AT END SPAN | REINFORCEMENT PARALLEL TO LONGER DIRECTION — AT MIDDLE SPAN | AT END SPAN |
|---|---|---|---|---|---|
| S1 | 150 | 8⌀ @ 150 c/c (bott.) | 8⌀ @ 150 c c (top) 8⌀ @ 300 c c (bott.) | 8⌀ @ 150 c c(bott.) | 8⌀ @ 150 c c (top & bott.) |
| S2 | 125 | 8⌀ @ 200 c/c (bott.) | 8⌀ @ 200 c c (top) 8⌀ @ 400 c c (bott.) | 8⌀ @ 200 c c(bott.) | 8⌀ @ 200 c c (top & bott.) |
| S3 | 200 | 8⌀ @ 100 c / c (top & bott.) | 8⌀ @ 100 c c (top & bott.) | 8⌀ @ 200 c c (top & bott.) | 8⌀ @ 200 c c (top & bott.) |
| S4 | 200 | 8⌀ @ 150 c / c(binder.) | 8⌀ @ 150 c c(binder.) | 12⌀ @ 150 c c(bott.) | 12⌀ @ 150 c c (top) 12⌀ @ 300 c c (bott.) |

## SCHEDULE OF ISOLATED FOUNDATIONS

| FDN. MKD. | UNDER COLUMN | SIZE OF FDN. | THICKNESS MM. AT HEEL | THICKNESS MM. AT TOE | REIN. BOTHWAYS AT BOTTOM |
|---|---|---|---|---|---|
| F7 | C18 | 3600X3600 | 750 | 300 | 12 TOR @ 75 C/C |
| F8 | C2 | 3150X3600 | 750 | 300 | 12 TOR @ 75 C/C |
| F9 | C17 | 3200X3200 | 750 | 300 | 12 TOR @ 125 C/C |
| F10 | C1 | 2900X3000 | 750 | 300 | 12 TOR @ 125 C/C |

APPROVED

PLAN No.:CE/199/18
RB/CB/IB/PB/KUT/
APN.....
20.19.....20
Date. 21.11.2019

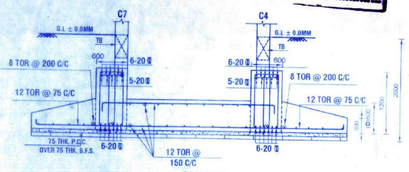
Structural Safety should be ensured by the Party.

Commissioner
Durgapur Municipal Corporation

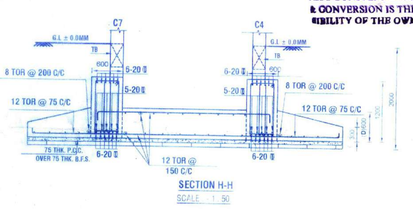
Mohan Lal Majee,
Planner in-Charge, Building Plan,
Durgapur Municipal Corporation

PERMISSION ACCORDED UNDER ACT AND BUILDING PLAN REGULATIONS ( WEST BENGAL ) 2006.

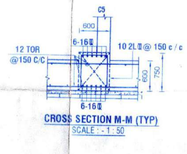
BUILDING PLAN APPROVED ON THE BASIS OF THE INDEMNITY BOND. LAND MUTATION & CONVERSION IS THE RESPONSIBILITY OF THE OWNER.



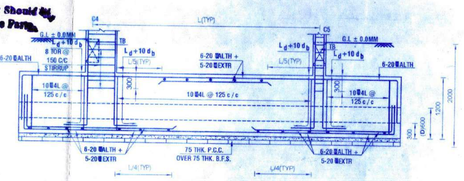

SECTION I-I
SCALE :- 1 : 50



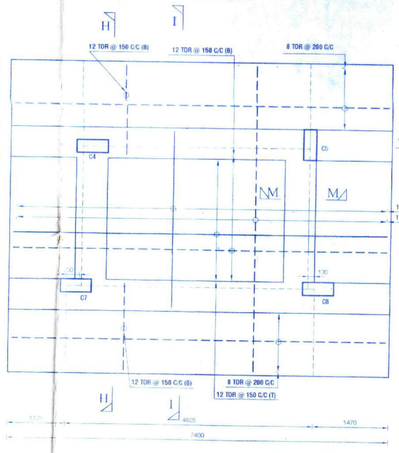

SECTION H-H
SCALE :- 1 : 50



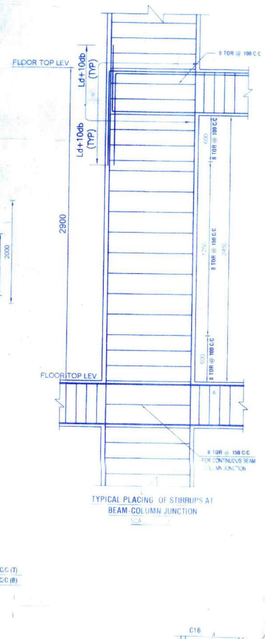

CROSS SECTION M-M (TYP)
SCALE :- 1 : 50



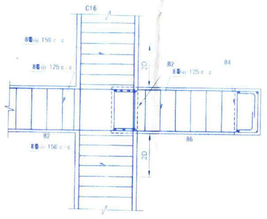

LONG SECTION DETAILS AT G-G
SCALE :- 1 : 50



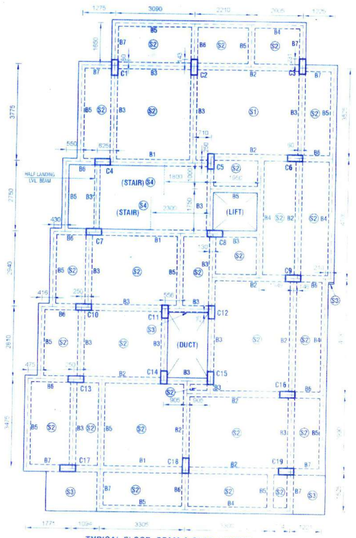

DETAILS OF RAFT FOUNDATION MKD.- F1
SCALE :- 1 : 50



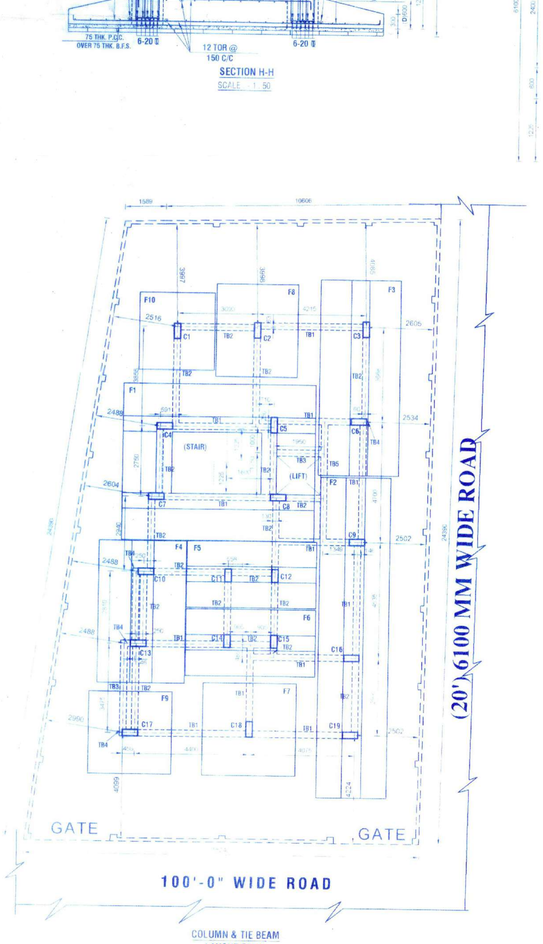

TYPICAL PLACING OF STIRRUPS AT BEAM-COLUMN JUNCTION
SCALE :- 1 : 50



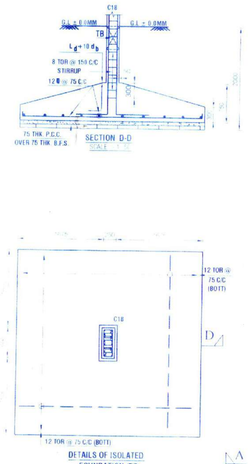

BEAM-COLUMN JUNCTION DETAIL
SCALE :- 1 : 50




TYPICAL FLOOR BEAM & SLAB LAYOUT PLAN AT 1ST TO ROOF FLOOR LEVEL
SCALE :- 1 : 100




COLUMN & TIE BEAM LAYOUT PLAN.
SCALE :- 1 : 100




SECTION D-D
SCALE

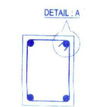



DETAILS OF ISOLATED FOUNDATION (F7)
SCALE :- 1 : 50

DETAILS OF SLAB MKD.- S1
SCALE :- 1 : 25

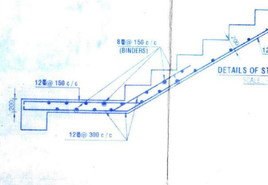
DETAILS OF SLAB MKD.- S2
SCALE :- 1 : 25

DETAIL :- A
(TYPICAL DETAIL OF 135° HOOK)



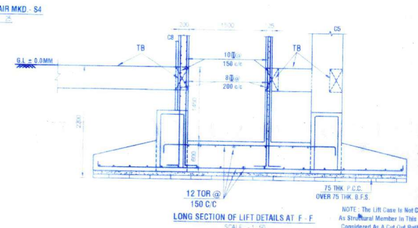

DETAILS OF COLUMN HOOP REINFORCEMENT

TYPICAL PLACING OF STIRRUPS AT LAPPING JUNCTION
SCALE :- 1 : 25



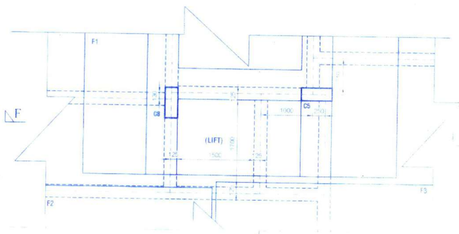

DETAILS OF STAIR MKD.- S4
SCALE :- 1 : 25

DETAILS OF SLAB MKD.- S3
SCALE :- 1 : 25




LONG SECTION OF LIFT DETAILS AT F - F
SCALE :- 1 : 50

NOTE :- The Lift Case is Not Considered As Structural Member in This Design.It is Considered As A Cut Out Rather The lift pit is only meant for resting of the lift car below ground level.



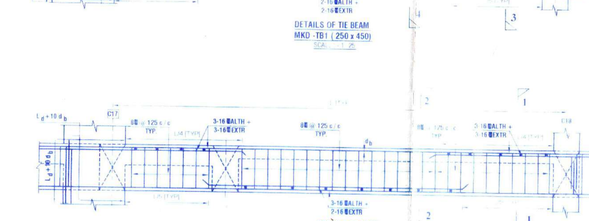

DETAILS OF LIFT SHAFT

SECTION AT 1-1 AT SUPPORT
SCALE :- 1 : 25

SECTION AT 2-2 AT SPAN
SCALE :- 1 : 25

SECTION AT 3-3 AT SUPPORT
SCALE :- 1 : 25

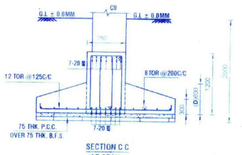
SECTION AT 4-4 AT SPAN
SCALE :- 1 : 25



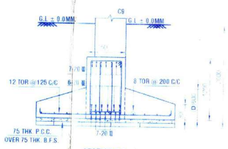

DETAILS OF TIE BEAM MKD.-TB1 ( 250 x 450)
SCALE :- 1 : 25



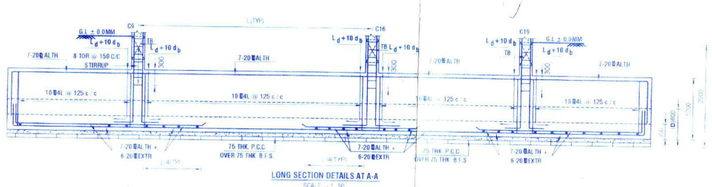

DETAILS OF BEAM MKD.-B1 ( 250 x 450)
SCALE :- 1 : 25



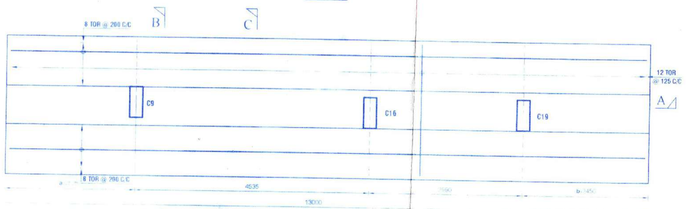

SECTION C-C AT SPAN
SCALE :- 1 : 10




SECTION B-B AT SUPPORT
SCALE :- 1 : 10




LONG SECTION DETAILS AT A-A
SCALE :- 1 : 50




DETAILS OF COMBINED FOUNDATION MKD.- F2
SCALE :- 1 : 50

## SPECIFICATIONS

1. DEPTH OF FOUNDATION : 2.4 / 2.6 m W.R.T. EXISTING G.L.
2. SAFE BEARING CAPACITY OF SOIL IS AS PER SOIL TEST REPORT.
3. FOUNDATIONS MUST BE PLACED IN HORIZONTAL POSITION.
4. GRADE OF CONCRETE IS M 20 AND GRADE OF STEEL IS Fe 500.
5. CLEAR COVER TO MAIN REINFORCEMENT IS AS PER BELOW.
   a) FOUNDATION : 75 MM
   b) COLUMN : 40 MM
   c) BEAM : 25 MM
   d) SLAB : 20 MM
6. ALL SLABS MUST BE MONOLYTHIC WITH SUPPORTING BEAM.
7. ALL OTHER SPECIFICATIONS AS PER NATIONAL BUILDING CODE OF INDIA.

THE STRUCTURAL DESIGN & DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER N.B.C. OF INDIA & CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECT.

TUSHAR BARAN PAHARI
M.E. (STRUCTURE) MSCE
E.S.E. NO. :- 146
LIC.NO. :- TMC/BPD/143
SIG. OF STRUCTURAL ENGINEER

ANIRBAN BHATTACHARJEE
LIC. :- CAP-144/16
JUI CHATTERJEE
LIC. :- CAP-208/20
SIGNATURE OF L.B.S. ARCHITECT

ASIM SARKAR
B.C.E. ME (SOIL) MIGS
KMC NO. :- CLASS-1/7
SIGNATURE OF GEOTECHNICAL ENGINEER

SIGNATURE OF OWNER

STRUCTURAL DRAWING OF A PROPOSED FIVE (G+5) STORIED RESIDENTIAL APARTMENT, PLOT DETAILS/ADDRESS- PLOT NO.- 299 (R.S.) 634 (L.R.), KHATIAN NO.- 684 (R.S.), 2691 (L.R.), J.L. NO.- 82, MOUZA- FUIJHORE, P.S.- N.I.T.P.S. DIST.- PASCHIM BURDWAN.


CREATIVE STATICAL CONCERN
CIVIL ENGG. CONSULTANT & CONTRACTOR
P-22, PURBASHA PALLY, BEHALA,
KOLKATA-700 034, (M) :- 93310 9284
CROCCORB@JMAIL.COM


DATE :-