## SCHEDULE OF SLAB

| MKD. | THICK | REINFORCEMENT | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | SHORTER SPAN | | | | LONGER SPAN | | | |
| | | SUPPORT | | SPAN | | SUPPORT | | SPAN | |
| | | TOP | BOT. | TOP | BOT. | TOP | BOT. | TOP | BOT. |
| S1 | 110 | 8T @ 150 C/C | 8T @ 300 C/C | -- | 8T @ 150 C/C | 8T @ 150 C/C | 8T @ 300 C/C | -- | 8T @ 150 C/C |
| S2 | 120 | 8T @ 150 C/C | 8T @ 300 C/C | -- | 8T @ 150 C/C | 8T @ 150 C/C | 8T @ 300 C/C | -- | 8T @ 150 C/C |
| S3 | 150-110 | 8T @ 150 C/C | 8T @ 300 C/C | -- | 8T @ 150 C/C | 8T @ 150 C/C | 8T @ 300 C/C | -- | 8T @ 150 C/C |
| S4 | 150 | 10T @ 150 C/C | 10T @ 300 C/C | -- | 10T @ 150 C/C | 10T @ 150 C/C | 10T @ 300 C/C | -- | 10T @ 150 C/C |
| S5 | 140 | LONGITUDINAL REINFORCEMENT- 12T @ 150 C/C<br>DISTRIBUTION STEEL - 8T @ 200 C/C | | | | | | | STAIR WAIST SLAB |

## SCHEDULE OF TIE- BEAM

| MKD. | SIZE | | REINFORCEMENT | | | | STIRRUP ( 2L-8T) | |
|---|---|---|---|---|---|---|---|---|
| | | | SUPPORT | | SPAN | | | |
| | WIDTH | DEPTH | TOP | BOTT. | TOP | BOTT. | SUPPORT( s1) | SPAN (s2) |
| TB1 | 250 | 350 | 2-12 T + 1-16T | 2-12 T + 1-16T | 2-12 T + 1-16T | 2-12 T + 1-16T | 100 C/C | 150 C/C |
| TB2 | 250 | 350 | 2-16 T + 1-12T | 2-16 T + 1-12T | 2-16 T + 1-12T | 2-16 T + 1-12T | 100 C/C | 150 C/C |
| TB3 | 250 | 350 | 5-16T | 3-16T | 5-16T | 3-16T | 100 C/C | 150 C/C |

## SCHEDULE OF FLOOR BEAM

| MKD. | SIZE | | REINFORCEMENT | | | | STIRRUP (2L-8T) | |
|---|---|---|---|---|---|---|---|---|
| | | | SUPPORT | | SPAN | | | |
| | WIDTH | DEPTH | TOP | BOTT. | TOP | BOT. | SUPP ( s1) | SPAN (s2) |
| B1 | 250 | 350 | 3- 16T | 2-16T | 2-16T | 2-16T+1-12T | 100 C/C | 150 C/C |
| B2 | 250 | 350 | 3- 16T +2-12T | 2-16T | 2-16T | 3-16T | 100 C/C | 150 C/C |
| B3 | 250 | 350 | 4- 16T | 2-16T | 2-16T | 3-16T | 100 C/C | 150 C/C |
| B4 | 250 | 350 | 5-16T | 2-16T | 2-16T | 2-16T+3-12T | 100 C/C | 150 C/C |
| B5 | 250 | 350 | 3-12T | 2-12T+1-16T | 3-12T | 2-12T+1-16T | 100 C/C | 150 C/C |
| B6 | 250 | 400 | 5-16T | 2-16T | 2-16T | 2-16T+3-12T | 100 C/C | 150 C/C |
| B7 | 250 | 400 | 2-16T+3-12T | 2-16T | 2-16T | 3-16T | 100 C/C | 150 C/C |
| B8 | 250 | 350 | 2-16T | 2-16T | 2-16T | 2-16T+3-12T | 100 C/C | 150 C/C |
| B9 | 250 | 400 | 6-16T | 3-16T | 2-16T | 5-16T | 100 C/C | 150 C/C |

## SCHEDULE OF FOUNDATION

| FOOTING MARK | COLUMN MARK | LENGTH(L) (mm) | WIDTH(W) (mm) | THICKNESS(mm) | | PEDESTAL | | REINFORCEMENT | | NO. OF FOOTING |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | EDGE( E ) | CENTER( C ) | LENGTH(a) | WIDTH(b) | SHORTER SPAN(q) | LONGER SPAN(p) | |
| F1 | C1,C9,C30 | 1800 | 1800 | 250 | 350 | 350 | 550 | 12T @ 150 C/C | 12T @ 150 C/C | 3 |
| F2 | C2,C3,C12,C28,C34,C35 | 2000 | 2000 | 250 | 350 | 350 | 550 | 12T @ 150 C/C | 12T @ 150 C/C | 6 |
| F3 | C4,C11,C20,C23,C31 | 2200 | 2200 | 250 | 350 | 350 | 550 | 12T @ 150 C/C | 12T @ 150 C/C | 5 |
| F4 | C8,C10,C13,C27,C29,C32,C33 | 2400 | 2400 | 250 | 400 | 350 | 550 | 12T @ 150 C/C | 12T @ 150 C/C | 7 |
| F4a | C16 | 2100 | 2800 | 250 | 450 | 350 | 550 | 12T @ 150 C/C | 12T @ 150 C/C | 1 |
| F5 | C5,C21,C24,C26 | 2600 | 2600 | 250 | 450 | 350 | 550 | 12T @ 150 C/C | 12T @ 150 C/C | 4 |
| F6 | C22 | 2800 | 2800 | 250 | 450 | 350 | 550 | 12T @ 150 C/C | 12T @ 150 C/C | 1 |
| F7 | C14 | 3000 | 3000 | 250 | 500 | 350 | 550 | 12T @ 125 C/C | 12T @ 125 C/C | 1 |
| CF1 | C6-C7 | 4135 | 3000 | 200 | 350 | | | 12T @ 125 C/C | 10T @ 200 C/C | 1 |
| CF2 | C17-C25 | 4850 | 3200 | 200 | 350 | | | 12T @ 125 C/C | 10T @ 200 C/C | 1 |
| CF3 | C15-C18-C19-SC1-SC2 | 5000 | 5200 | 300 | 300 | | | 12T @ 175 C/C | 12T @ 175 C/C | 1 |

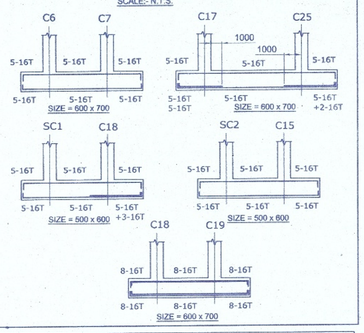
## SCHEDULE OF COLUMN

| COLUMN MKD. | REINFORCEMENT AT ROOF LEVEL | SHAPE OF BAR | NO. OF COL. |
|---|---|---|---|
| C1,C2 | 4-12T+4-16T WITH 2 C.L. PER SET | 8T @150 C/C | 2 |
| C3,C4,C7,C8, C9,C10,C11, C12,C15,C16, C19,C20,C21, C23,C29,C33, C34,C35 | 4-12T+6-16T WITH 2 C.L. PER SET | 8T @150 C/C | 18 |
| C13,C24,C25, C26,C32 | 2-12T+8-16T WITH 2 C.L. PER SET | 8T @150 C/C | 5 |
| C14,C22 | 10-16T WITH 2 C.L. PER SET | 8T @150 C/C | 2 |
| C17 | 4-16T+6-20T WITH 2 C.L. PER SET | 8T @150 C/C | 1 |
| C18 | 6-16T+4-20T WITH 2 C.L. PER SET | 8T @150 C/C | 1 |
| C27,C28, C30,C31 | 6-12T+6-16T WITH 2 C.L. PER SET | 8T @150 C/C | 4 |
| C5,C6 | 8-12T+6-16T WITH 2 C.L. PER SET | 8T @150 C/C | 2 |

## REINFORCEMENT DETAILS OF FOOTING BEAMS

STIRRUP= 4L 8T @ 125 C/C (AT SUPPORT) & 200 C/C (AT SPAN)

SCALE:- N.T.S.




## NOTES & SPECIFICATIONS

1.ALL DIMENSIONS ARE IN M.M. UNLESS OTHERWISE MENTIONED.
2.WRITTEN DIMENSIONS TO BE FOLLOWED.
3.ALL P.C.C. WORK WILL BE IN (1:3:6)
4.ALL BUILDING MATERIALS TO BE USED AS PER N.B.C. OF INDIA.
5.MINIMUM COVER FOR R.C.C. STRUCTURES :
- FOR SLAB- 20 M.M.
- FOR BEAM-25 M.M.
- FOR COLUMN-40 M.M.

6.GRADE OF CONCRETE- M 20 (1:1.5:3).
7.GRADE OF STEEL - Fe 500
8.FOUNDATION DESIGNED CONSIDERING SOIL BEARING CAPACITY TO BE 9.2 T/SQM. AS PER SOIL REPORT.
9. CONSIDERING UNIT WEIGHT OF BRICK 20Kn/m$^3$
10. THE STRUCTURAL DESIGN IS MADE CONSIDERING G+III STORIED STRUCTURE .

## STRUCTURAL CERTIFICATE

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

PARTHA GHOSH, B.E. (CIVIL)
E.S.E. No.- 85
Rajpur-Sonarpur Municipality
SIGNATURE OF E.S.E

JAYANTA MAJUMDAR
B.E., M.E., M.I.G.S.
Geotechnical Engineer
G.T./1/13
SIGNATURE OF GEO-TECHNICAL ENGINEER

BUDDHISWAR NASKAR
Civil Engineer
E.B.E. Class - I
L.C. No. 519
Rajpur-Sonarpur Municipality
SIGNATURE OF E.B.A.

For SURAKHA CONSTRUCTION
Partner Partner
AS CONSTITUTED ATTORNEY OF
SUNIL NASKAR
SIGNATURE OF OWNERS

STRUCTURAL DRAWING OF PROPOSED G+III (BLOCK - A) STORIED RESIDENTIAL BUILDINGS AT HOLDING NO. -518 , MOUZA- GARAGACHA, R.S. DAG. NO.-246(P), L.R. DAG. NO.- 270 ,R.S KHATIAN NO.- 39, L.R.KHATIAN NO.-567, J.L. NO.- 45, WARD NO.- 1,P.S. - SONARPUR,DIST.- 24 PGS. (S), UNDER RAJPUR SONARPUR MUNICIPALITY.

TITLE
DETAILS OF:-
FOUNDATION,FOUNDATION BEAM,STOOL COLUMN, LIFT,COLUMN,TIE-BEAM,BEAM & SLAB.

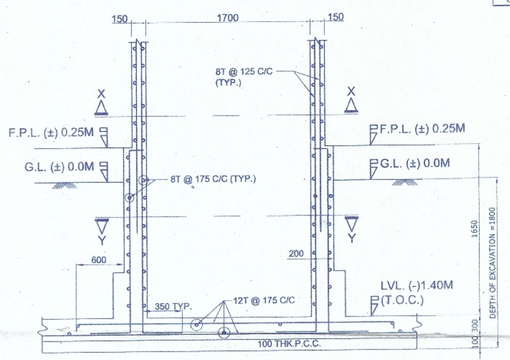
SCALE - 1:100 & AS NOTED

NORTH

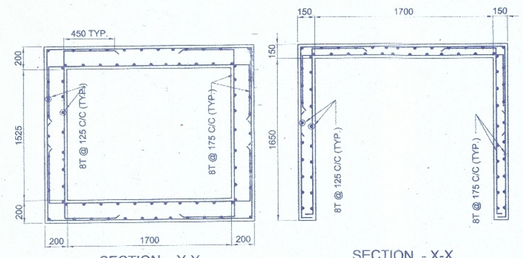
CONSULTANTS:
**N.B. CONSTRUCTOR**
ARCHITECTS & ENGINEERS.
C/2 , SREENAGAR MAIN ROAD
GARIA STATION, KOL-94. PH-9830229750(M).

Structural plan as submitted by the structural Engineer have been kept with Building Plan No.- 83/RS/01/65 Dated On:- 14/08/2018 for record of the Rajpur-Sonarpur Municipality without Verification No deviation from the submitting structural plan should be made at the time of erection without submitting fresh structural plan along with design calculation and stability certificate in the prescribed form necessary steps should be taken for the safety of the adjoining premises public private properties and safety of human life during Construction

14/8/18
Sig. of Assistant Engineer.
Incharge P.W.D
RAJPUR-SONARPUR MUNICIPALITY

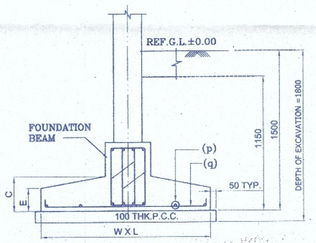



DETAILS OF LIFT WELL SECTION
SCALE - N.T.S.

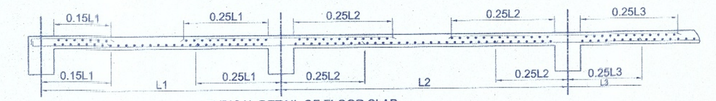



SECTION - Y-Y
SCALE:- N.T.S.

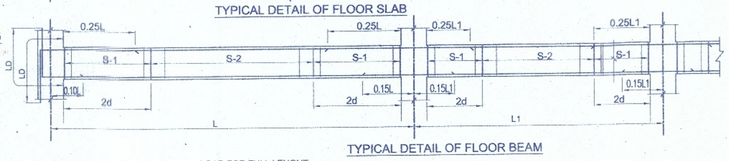
SECTION - X-X
SCALE:- N.T.S.



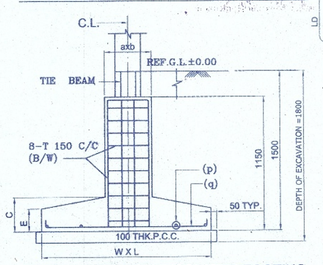

TYPICAL DETAILS OF COMBINED FOOTING



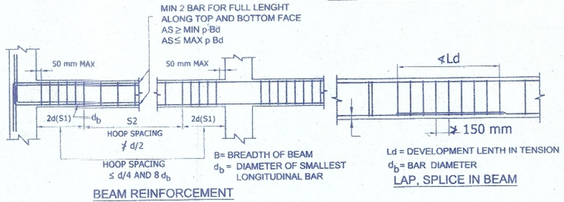

TYPICAL DETAIL OF FLOOR SLAB




TYPICAL DETAIL OF FLOOR BEAM

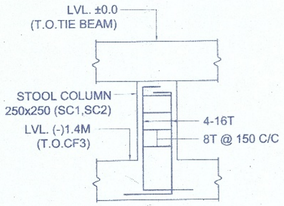



TYPICAL DETAILS OF ISOLATED FOOTING

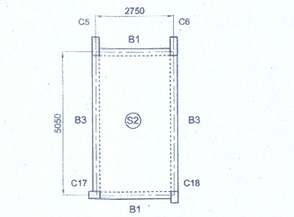



BEAM REINFORCEMENT

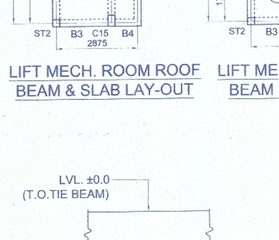
LAP, SPLICE IN BEAM



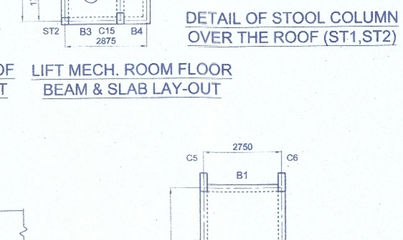

DETAIL OF STOOL COLUMN (SC1,SC2)



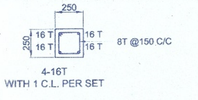

STAIR HEAD ROOM ROOF BEAM & SLAB LAY-OUT ( BLOCK -A )



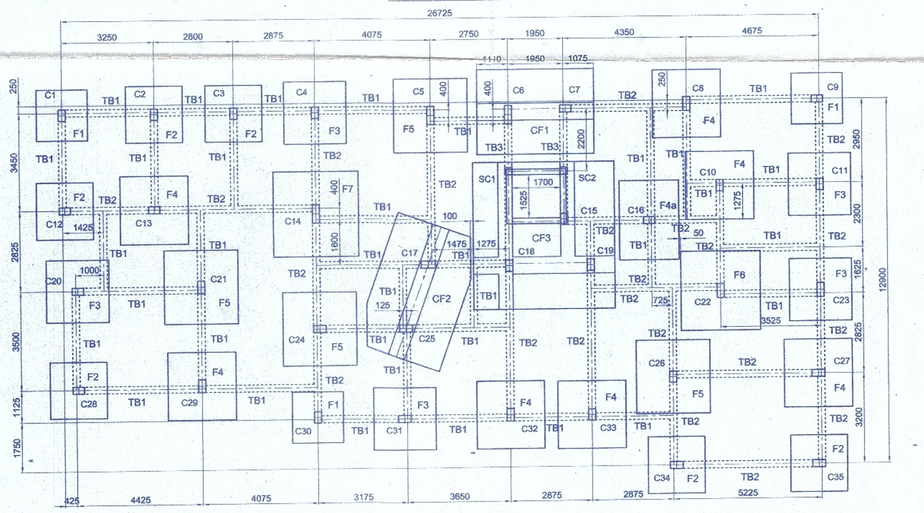

LIFT MECH. ROOM ROOF BEAM & SLAB LAY-OUT



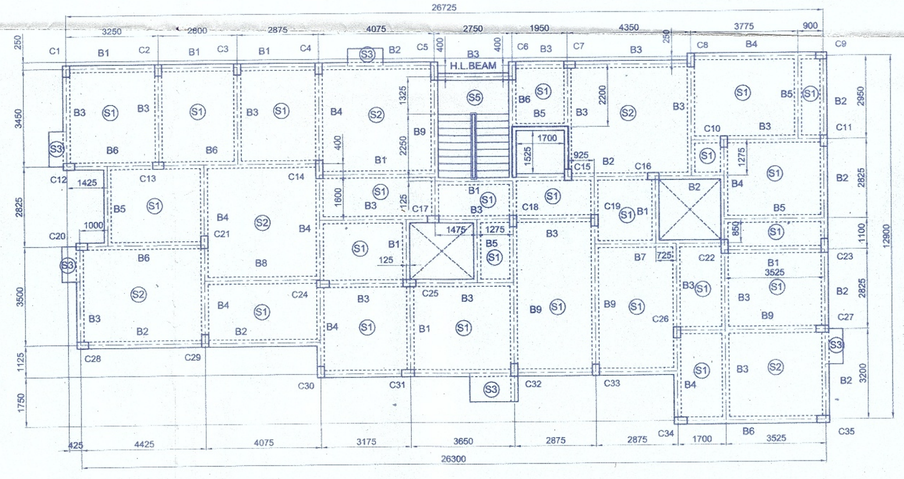

LIFT MECH. ROOM FLOOR BEAM & SLAB LAY-OUT




DETAIL OF STOOL COLUMN OVER THE ROOF (ST1,ST2)




FOUNDATION & TIE BEAM LAY-OUT ( BLOCK -A )
SCALE:- 1:100




TYPICAL FLOOR BEAM & SLAB LAY-OUT ( BLOCK -A )
SCALE:- 1:100