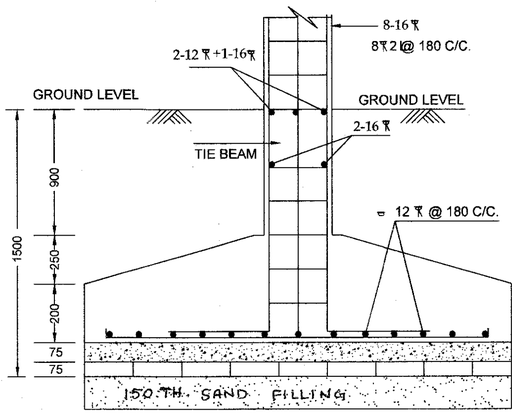
# STRUCTURAL PLAN OF PROPOSED THREE STORIED RESIDENTIAL BUILDING AT MOUZA -TENTUL BERIA , J.L.NO - 44, L.R. DAG NO. - 76, L.R. KHATIAN NO.-1588. HOLDING NO.- 1810, SRINAGAR, WARD NO - 01, P.S - SONARPUR, DIST.- 24PGS (SOUTH), UNDER : RAJPUR-SONARPUR-MUNICIPALITY, OWNER'S NAME : SMT. MIRA RANI SAHA

## SCHEDULE OF SLAB

| SLAB MKD. | SLAB THICK | LONGER REINFORCEMENT | SHORTER REINFORCEMENT |
|---|---|---|---|
| $S_1$ | 110 | 8 ϕ @ 150 C/C | 8 ϕ @ 150C/C |
| $S_2$ | 110 | 8 ϕ @ 150 C/C | 8 ϕ @ 125 C/C |
| $S_3$ WAIST SLAB | 125 | 12 ϕ @ 150 C/C | 10 ϕ @ 150 C/C |

## SCHEDULE OF ISOLATED FOOTING

| FOOTING MKD. | BASE SIZE | THICKNESS OF BASE SLAB AT | | PEDESTAL SIZE AND REINFORCEMENT | BASE SLAB REINFORCEMENT | REMARKS |
|---|---|---|---|---|---|---|
| | | PEDESTAL FACE | EDGE | | | |
| F1 | 1800 X 1800 | 450 | 200 | 500X550 4 NOS. 12 ϕ L/B/W FOR PEDESTAL MAIN REINFORCEMENT AND 8 ϕ 2 L @ 150 C/C AS LATERAL TIES | 12 ϕ @ 175 C/C B/W | |
| F2 | 2000 X 2000 | 450 | 200 | | 12 ϕ @ 150 C/C B/W | |
| F3 | 2200 X 2200 | 450 | 200 | | 12 ϕ @ 150 C/C B/W | |



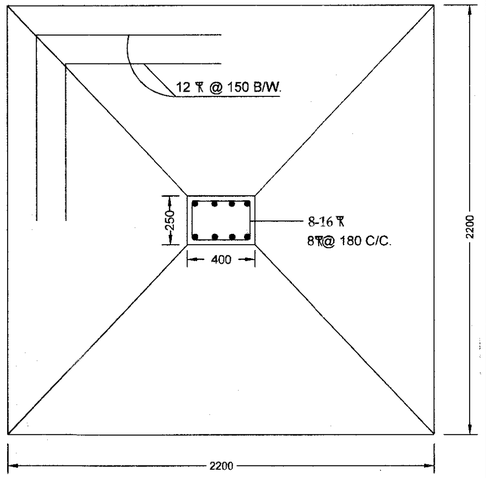

SECTION

## SCHEDULE OF BEAM

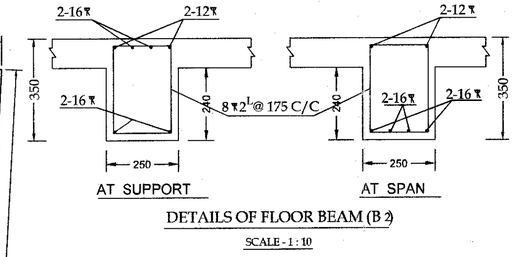
| BEAM MKD. | BEAM SIZE | REINF. AT SUPPORT | | REINF. AT SPAN | | STIRRUPS |
|---|---|---|---|---|---|---|
| | | TOP | BOTTOM | TOP | BOTTOM | |
| $B_1$ | 250 X 300 | 2-12 ϕ + 1-16 ϕ | 2-16 ϕ | 2-12 ϕ | 2-16 ϕ + 1-16 ϕ | 8 ϕ 2 L @ 175 C/C |
| $B_2$ | 250 X 350 | 2-12 ϕ + 2-16 ϕ | 2-16 ϕ | 2-12 ϕ | 2-16 ϕ + 2 -16 ϕ | 8 ϕ 2 L @ 175C/C |
| $B_3$ CANTILEVER BEAM | 250 X 350-300 | 2 -16 ϕ + 2 -16 ϕ | 3 -16 ϕ | 2 -16 ϕ + 2 -16 ϕ | 3 -16 ϕ | 8 ϕ 2 L @ 175 C/C |
| $B_4$ | 250 X 350 | 2-16 ϕ + 2-16 ϕ | 2-16 ϕ | 2-16 ϕ | 2-16 ϕ + 2 -16 ϕ | 8 ϕ 2 L @ 175C/C |
| TB | 250 X 350 | 2-12 ϕ + 1 -16 ϕ | 2-16 ϕ | 2-12 ϕ | 2-16 ϕ + 1-16 ϕ | 8 ϕ 2 L @ 175 C/C |

## SCHEDULE OF COLUMN

| COLUMN MKD. | SIZE OF COLUMN | REINF. OF COLUMN | TIES |
|---|---|---|---|
| C1 | 250 X 350 | 6-16 ϕ | 8 ϕ @ 180 C/C |
| C2 | 250 X 350 | 6-16 ϕ + 2-12 ϕ | 8 ϕ @ 180 C/C |
| C3 | 250 X 400 | 8 -16 ϕ | 8 ϕ @ 180 C/C |

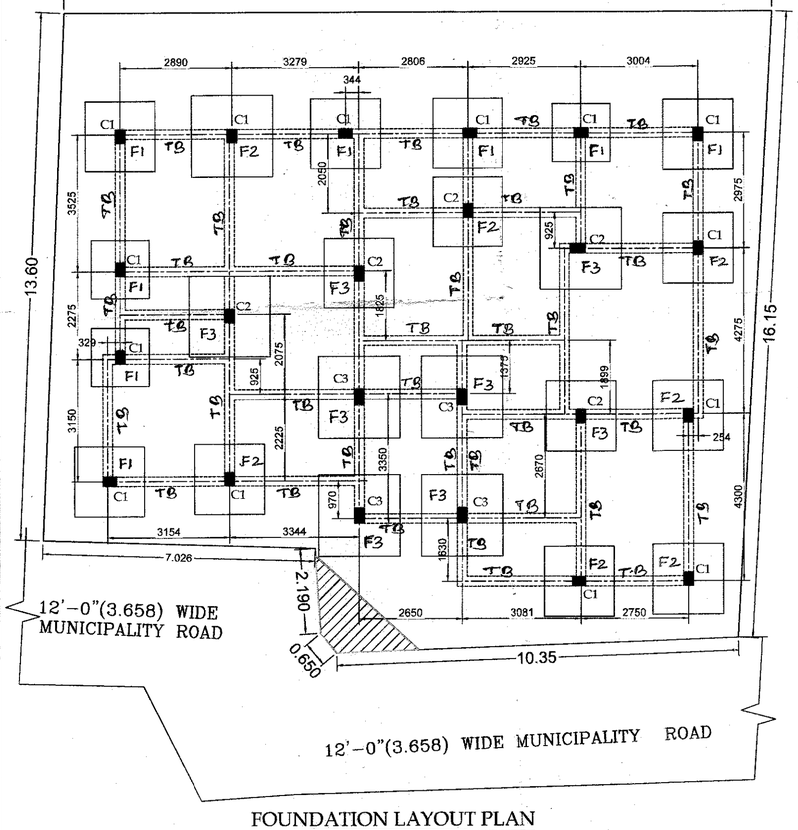



DETAILS OF COLUMN FOUNDATION

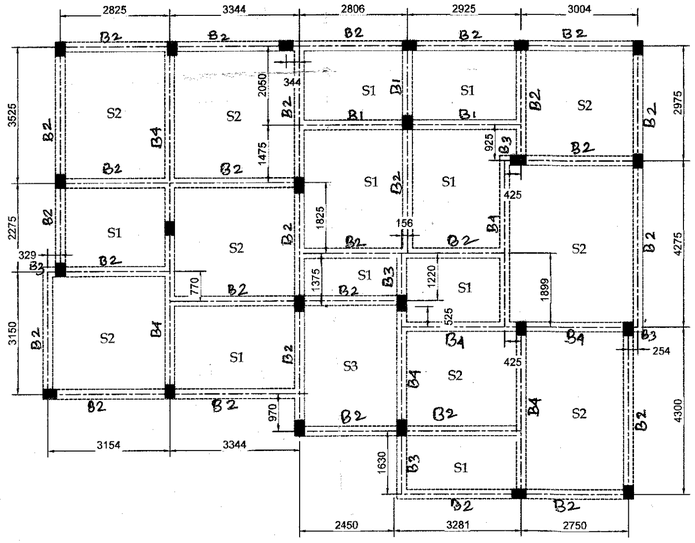



DETAILS OF FLOOR BEAM (B 2)

SCALE - 1 : 10




FOUNDATION LAYOUT PLAN




STRUCTURAL BEAM LAY OUT PLAN

**CERTIFICATE OF GEO-TECHNICAL ENGINEER :**

Undersigned has inspected the site and carried out soil investigation thereon. It is certified that the existing soil of the site is able to carry the load coming from the proposed construction and the foundation system proposed herein is safe & stable in all respect from geo-technical point of view.

**KALLOL KUMAR GHOSHAL**
G.T. NO. 033/RJPSON/G.T/2019-20
NAME OF GEO-TECHNICAL ENGINEER

**1) KISHORE KUMAR GHOSH**
**2) SUMAN KUMAR GHOSH**
**(PARTNERS OF M/S TIRUPATI ENTERPRISE)**
**C.A OF SMT.MIRA RANI SAHA alias MIRA SAHA**
NAME OF OWNERS

**KALLOL KUMAR GHOSHAL**
E.B.S. NO. 898/RJPSON/E.B.S.-I/97-98/2018-19
NAME OF E.B.S.

SPECIFICATIONS:
GRADE OF STEEL USED - Fe 415
GRADE OF CONCRETE USED - M-20
COVER TO CONCRETE USE: FOR FOUNDATION = 50MM
FOR COLUMN = 35MM; FOR BEAM = 25MM;
FOR SLAB = 20MM

**STRUCTURAL ENGINEER CERTIFICATE:**

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

**KALLOL KUMAR GHOSHAL**
E.S.E. NO. 019/RJPSON/E.S.E.-II/2002-03/2018-19
NAME OF E.S.E.

NOTE ON BUILDING FOUNDATION:

NATURE OF FOUNDATION OF COLUMNS FOR PROPOSED III STORIED BUILDING HAVE ADOPT AS PER RECOMMENDATION OF GEOTECHNICAL REPORET SUBMITTED BY "CONSULTANTS & ASSOCIATES" , KOLKATA - 700 027, AS WELL AS THEIR REPORT GIVING RECOMMENDATION ON TYPE OF FOUNDATION FOR DIFFERENT PARTS OF SITE COVERD UNDER B.H. NO. 1,2.

IN ACCORDACNE WITH THE RECOMMENDATION BEARING CAPACITY OF ISOLATED FOOTING VARIES AS PER SOIL REPORT.

CONSTRUCTION IN STAGE IS ALSO ADVISED.