

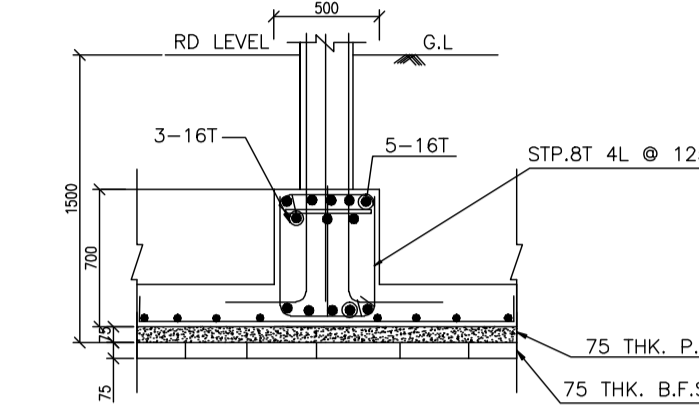
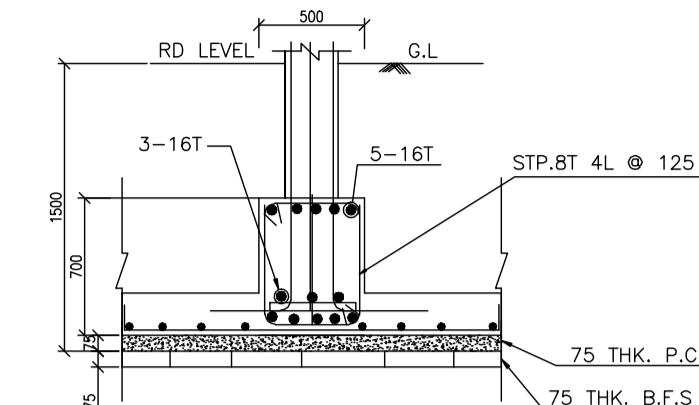
**TITLE:-**  
**PLAN FOR PROPOSED G+III STORED RESIDENTIAL BUILDING**  
**AT MOUZA-GOPALPUR, J. L. NO.-02, L.R DAG NO.-317.P.S.-AIRPORT,**  
**L.R KHATIAN NO.-26856 & 26857, WARD NO-04,BOROUGH NO-01,**  
**DIST-24 PARGANAS(N), WITHIN BIDHANNAGAR MUNICIPAL**  
**CORPORATION"**  
**NAME OF OWNER:- 1) SUBROTA BORAL**  
**2) SUPRIYO BORAL**

**SCHEDULE OF R.C.C. TIE BEAM & BEAM**

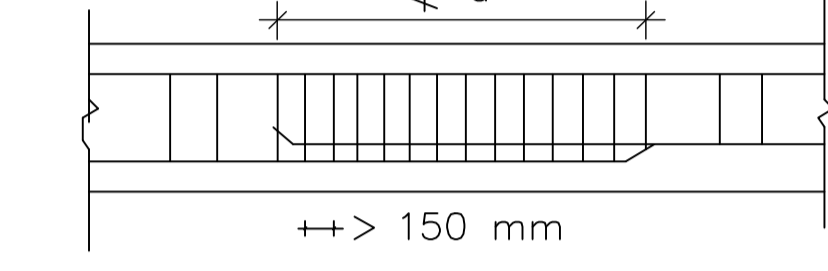
| M K D. | SIZE (B X D) | LONGITUDINAL REINFORCEMENT |         |      |        | STIRRUPS        |
|--------|--------------|----------------------------|---------|------|--------|-----------------|
|        |              | AT SUPPORT                 | AT SPAN |      |        |                 |
|        |              | TOP                        | BOTTOM  | TOP  | BOTTOM |                 |
| T.B    | 250 x 400    | 3-16                       | 3-16    | 3-16 | 3-16   | 8 dia @ 125 c/c |
| B1     | 250 x 250    | 3-16                       | 3-16    | 3-16 | 3-16   | 8 dia @ 150 c/c |

**SCHEDULE OF SLAB**

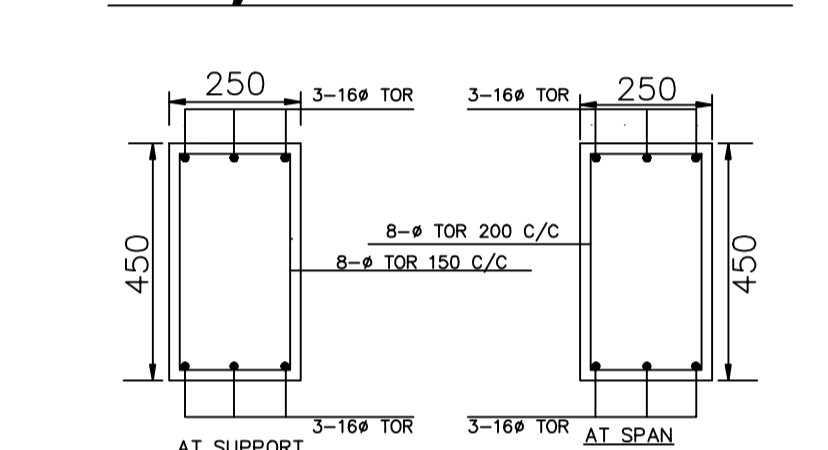
| SLAB M.K.D. | SLAB THICKNESS | REINFORCEMENT AT SHORTER DIRECTION | REINFORCEMENT AT LONGER DIRECTION |
|-------------|----------------|------------------------------------|-----------------------------------|
| B1          | 115            | 10 dia @ 150 c/c                   | 8 dia @ 125 c/c                   |



**Ld — DEVELOPMENT LENGTH IN TENSION**



**LAP, SPLICE IN BEAM**



**COLUMN SCHEDULE**

| COLUMN MARKED         | REINFORCEMENT                                     |
|-----------------------|---|
| C1-C21<br>(250 X 450) | M25 F40D, COVER = 40MM<br>CONFINING ZONE = 800 MM |
|                       | LINER   |
|                       | T8 @ 150 MM                                       |
|                       | 10-180 TOR  |

SIG. OF OWNERS

DECLARATION OF ARCHITECT/ L.B.S

SIG. OF ARCHITECT/ ENGINEER

DECLARATION OF ENGINEER

SIG. OF STRUCTURAL ENGINEER

NOTES :-

- A. GENERAL:**
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRE.
  - DRAWINGS SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
  - ALL FOUNDATIONS SHALL BE REST ON VIRGIN SOIL OR ON THOROUGHLY COMPACTED SOIL AS PER SPECIFICATION. WHENEVER THE SOIL CONTAIN THE LOOSE SOIL POCKETS, THE SAME SHALL BE REMOVED AND REFILLED WITH THE P.C.C.
- B. CONCRETE WORK:**  
**CONCRETE/CONCRETING:**
- ALL CONCRETE WORK SHALL BE AS PER IS:456 (LATEST REVISION)
  - ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN MIX CONCRETE OF GRADE AS FOLLOWS UNLESS NOTED OTHERWISE.
    - a). THE GRADE CONC. FOR SUB & SUPER STRUCTURES ARE M-25
  - PLAIN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
    - a). 1:5:10 PLUM CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM.) AND AS , PIT, TRENCHES ETC.
    - b). M-15 FOR LEAN CONCRETE BELOW FOUNDATIONS & PLINTH PROTECTION
  - THE MINIMUM CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT SHALL BE AS FOLLOWS

| STRUCTURAL ELEMENT | COVER |        |       |
|--------------------|-------|--------|-------|
|                    | TOP   | BOTTOM | SIDES |
| a). TIE BEAM       | 25    | 25     | 25    |
| b). COLUMNS        | 40    | 40     | 40    |
| c). FLOOR BEAM     | 25    | 25     | 25    |
| d). SLAB           | 20    | 20     | 20    |
| e). FOUNDATION     | 50    | 50     | 50    |

- C. REINFORCEMENTS:**
- ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY.
  - (a). HIGH YIELD STRENGTH DEFORMED BAR REINFORCEMENT (YIELD STRESS  $F_y = 500 \text{ N/MM}^2$ ) SHALL CONFORM TO IS:1786. (LATEST REVISION)
  - LAPS AND SPLICES OF REINFORCEMENT TO SUIT AVAILABLE LENGTH OF BARS SHALL BE MADE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER AT SITE.
  - ALL HOOKS, BENDS, LAPS AND SPLICES SHALL BE AS PER IS:2502.
  - THE LAP/ANCHORAGE LENGTH OF BARS OF DIAMETER 'D' SHALL BE AS FOLLOWS:-

| CONCRETE GRADE | DEFORMED BARS |             |
|----------------|---------------|-------------|
|                | TENSION       | COMPRESSION |
| 41XD           | 40D           | 33XD        |

- LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
- LAPPING OF BARS FOR BEAM AND SLAB SHALL BE AVOIDED IN THE MAXIMUM TENSION ZONES.
- DEVELOPMENT LENGTH ( $L_d$ ) = 50XDIA OF THE BAR.

DRAWING SHEET CONTAINS

|                                   |            |
|-----------------------------------|------------|
| 1. COLUMN LAYOUT PLAN.            | 5. DETAILS |
| 2. FOUNDATION LAYOUT PLAN.        | 6. DETAILS |
| 3. FLOOR BEAM & SLAB LAYOUT PLAN. | 7. DETAILS |
| 4. TIE BEAM LAYOUT.               | 8. DETAILS |

CHECKED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_

