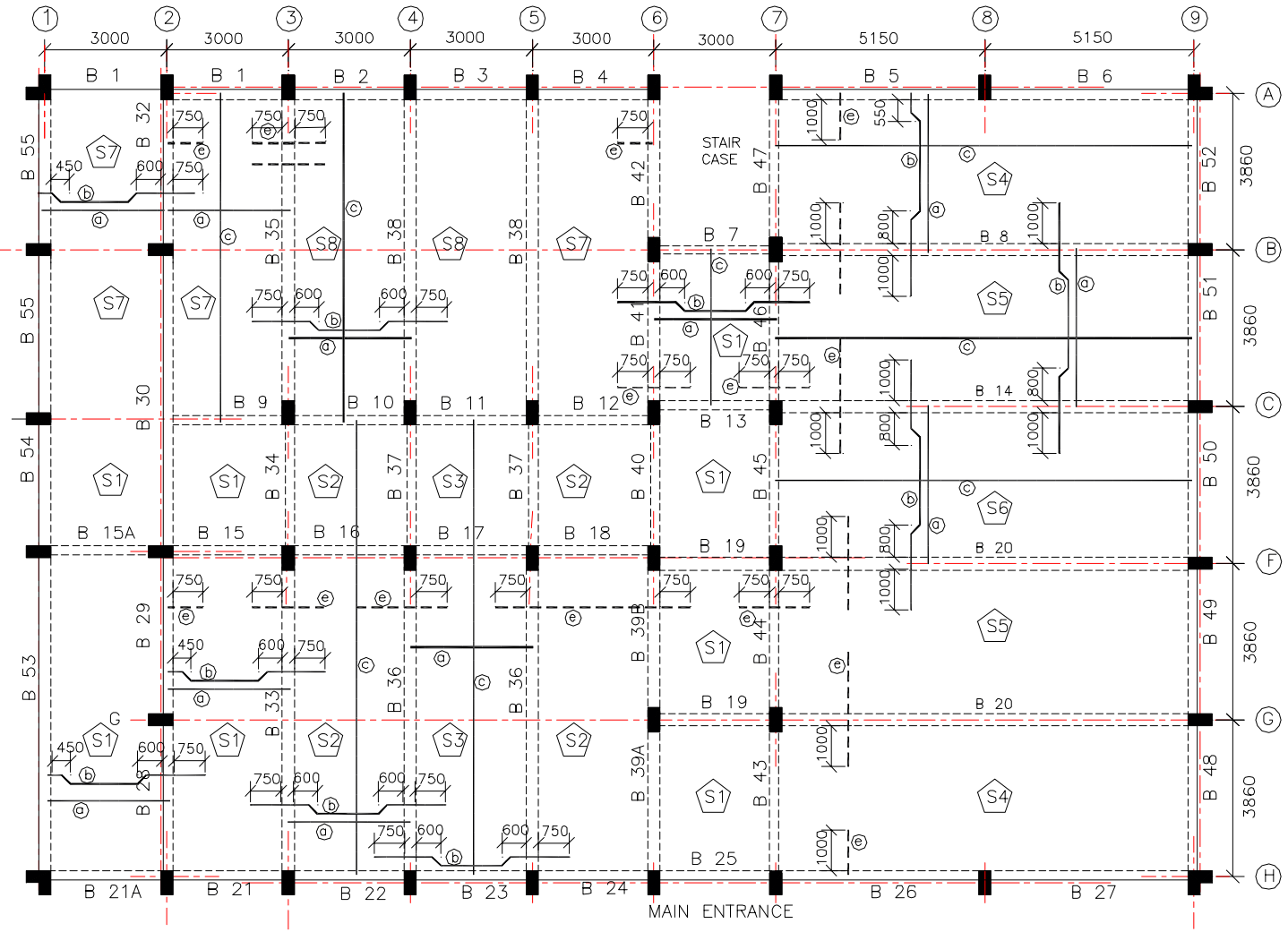
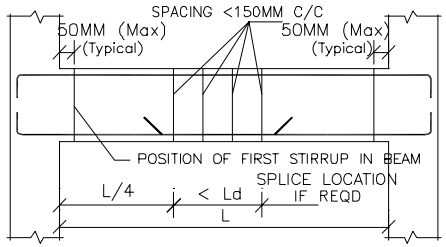
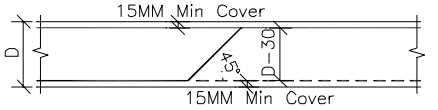



NOTES:

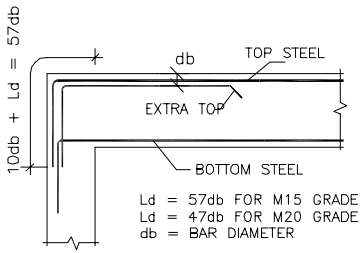
1. ALL DIMENSIONS ARE IN MMS,UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE OUT THIS DRG, FOLLOW ONLY THE WRITTEN DIMENSIONS.
3. ANY DISCRIPENCY FOUND MAY PLEASE BE BROUGHT TO THE NOTICE OF THIS OFFICE BEFORE EXECUTION.
4. LAP LENGTHS SHALL BE:
   FOR FOUNDATION, BEAMS, LINTELS, SLABS ETC
   * 47 TIMES THE DIA OF THE BAR FOR M20 GRADE
   * 37 TIMES THE DIA OF THE BAR FOR M15 GRADE
   FOR COLUMNS
   * 38 TIMES THE DIA OF THE BAR FOR M20 GRADE
   * 45 TIMES THE DIA OF THE BAR FOR M15 GRADE
5. SPACER BAR/PIN 25 TOR @ 1000 C/C TO BE PROVIDED TO KEEP A CLEAR GAP OF 25MM BETWEEN TWO VERTICL/HORIZONTAL LAYERS OF REINFORCEMENT
6. ALL STRUCTURAL CONCRETE SHALL BE M20 GRADE.
7. STEEL REINFORCEMENT SHALL CONFORM TO IS 1786/1979 OF GRADE Fe 415
8. CLEAR COVER TO REINFORCEMENT SHALL BE AS UNDER:
   BOTTOM OF FOUNDATION – 50MM
   SIDE OF FOUNDATION – 50MM
   FOR COLUMNS BELOW PLINTH LVL – 65MM
   FOR COLUMNS ABOVE PLINTH LVL – 40MM
   FOR BEAMS – 25MM
   LINTELS, CHAJJAS & SLABS – 15MM
10. GRADATION OF AGGREGATES (WITHOUT MIX DESIGN)
    20MM TO 10MM – 67%,
    10MM TO 5MM – 33%
11. THIS DRG SHALL BE READ IN CONJUCTION WITH ARCHITECTURAL DRG




TYPICAL DETAILS FOR STIRRUPS ARRANGEMENT AND SPLICE JOINT IN BEAM.(WHERE EVER REQD)




TYPICAL DETAILS OF BENT BAR IN A SLAB




ANCHORAGE OF BEAM BARS IN AN EXTERNAL COLUMN (Typical)

FIRST SLAB LEVEL DETAILS

| SLAB MARK | SLAB THICK IN MM | REINFORCEMENT C/C // TO SHORT SPAN STRAIGHT – a | // TO SHORT SPAN BENT UP – b | // TO LONG SPAN STRAIGHT – c | EXTRA AT TOP // TO SHORT SPAN STRAIGHT – e | REMARKS |
|---|---|---|---|---|---|---|
| S1 | 150 | 10 TOR AT 400 C/C | 10 TOR AT 400 C/C | 8 TOR AT 200 C/C | 10 TOR AT 400 C/C | ONE WAY SLAB |
| S2 | 150 | 10 TOR AT 400 C/C | 10 TOR AT 400 C/C | 8 TOR AT 200 C/C | 10 TOR AT 400 C/C | |
| S3 | 150 | 10 TOR AT 400 C/C | 10 TOR AT 400 C/C | 8 TOR AT 200 C/C | 10 TOR AT 400 C/C | |
| S4 | 150 | 10 TOR AT 360 C/C | 10 TOR AT 360 C/C | 8 TOR AT 200 C/C | 10 TOR AT 360 C/C | |
| S5 | 150 | 10 TOR AT 360 C/C | 10 TOR AT 360 C/C | 8 TOR AT 200 C/C | 10 TOR AT 360 C/C | |
| S6 | 150 | 10 TOR AT 360 C/C | 10 TOR AT 360 C/C | 8 TOR AT 200 C/C | 10 TOR AT 360 C/C | |
| S7 | 150 | 10 TOR AT 400 C/C | 10 TOR AT 400 C/C | 8 TOR AT 200 C/C | 10 TOR AT 400 C/C | |
| S8 | 150 | 10 TOR AT 400 C/C | 10 TOR AT 400 C/C | 8 TOR AT 200 C/C | 10 TOR AT 400 C/C | |

KARNATAKA POWER TRANSMISSION CORORATION LTD

220KV SUB STATION CONTROL ROOM | LAYOUT AT FIRST SLAB & DETAILS GROUND FLOOR | SHEET 1 OF 2

DRG NO: CEE(P & C)/SE(C)/06–07/220/006

| HDM | AEE(C) | | SE(CIVIL) | CHIEF ENGINEER ELE PLANING & CO ORDINATION | PLANING AND CO ORDINATION |
|---|---|---|---|---|---|
| DRN | DGN | CHD | REC | APPROVED | |

FNAME REVDATE USER