



GROUND FLOOR BEAM & SLAB PLAN

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| 1. BASIC REFERENCE CODE-IS 456-2000 | | | |
| 2. DESHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW | | | |
| a) VERTICAL FACES FOR COLUMN, BEAM AND WALL -24 HOURS | | | |
| b) SLAB 1-SPANNING UP TO 4.5 M -7 DAYS | | | |
| 2-SPANNING OVER TO 4.5 M -14 DAYS | | | |
| c) BEAMS 1-SPANNING UP TO 6.0 M -14 DAYS | | | |
| BEAMS 2-SPANNING OVER TO 6.0 M -21 DAYS | | | |
| 3. DUE CARE SHOULD BE TAKEN TO ASCERTAIN THAT REQUISITE STRENGTH OF CONCRETE IS GAINED BEFORE COMMENCEMENT OF DESHUTTERING. | | | |
| 4. BEAMS HAVING DEPTH MORE THAN 750 MM, PROVIDE SIDEFACE ON BOTH SIDE FOR BEAM ABOVE 850 MM DEPTH-PROVIDE #12 @ 1/3 RD AND 2/3 RD BEAM DEPTH | | | |
| 5. ALL LAPS SHALL BE STAGGERED AND NOT MORE THAN 50% BARS TO BE LAPPED AT ANY GIVEN SECTION | | | |
| COLUMN, BEAMS AND SLABS -M-20- 48 X D | | | |
| 6. MAXIMUM ALLOWABLE HEIGHT OF COLUMN WITHOUT ANY BRACER OR TIE | | | |
| i) 230 WIDE- 4000M | | | |
| ii) 200 WIDE- 3400M | | | |
| iii) 150 WIDE- 2600M | | | |
| 7. NOT WITHSTANDING THESE PROVISIONS, ALL BUILDING SHALL HAVE BEAM / PLINTH BEAMS AT G.L./PLINTH LVL. | | | |
| 8. IF FOOTINGS OVERLAP EACH OTHER, NECESSARY REVISION SHOULD BE OBTAINED FROM OFFICE | | | |
| 9. DESIGN IS VALID FOR NO. OF FLOORS AS INDICATED IN NOTE ONLY. | | | |
| 10. MINIMUM SPACING BETWEEN ANY TWO LONGITUDINAL BARS IN BEAM-50 MM | | | |
| 11. AT ANY LEVEL WHERE COLUMN GETS REDUCED IN EITHER DIMENSION TIE BEAM / PLINTH BEAMS ARE ABSOLUTELY ESSENTIAL. | | | |
| 12. FOR CANTILEVERS ,TOP BARS TO BE ANCHORED BEHINDS FOR-70 X DIA OF BAR OR SPAN OF CANTILEVERS WHICH EVER IS GREATER | | | |
| 13. ALL TIE BEAM ARE NOT DESIGNED FOR WALL LOAD | | | |
| 14. ENVIRONMENTAL EXPOSURE CONDITION-MILD IS ASSUMED. | | | |
| USE OF THIS DRAWING FOR CONSTRUCTION SHALL EXPLICITLY CONFIRM ACCEPTANCE OF FOLLOWING CONDITIONS BY OWNER / BUILDER / CONTRACTOR. OUR RESPONSIBILITY SHALL REMAIN LIMITED TO SAFE AND SOUND STRUCTURAL DESIGN. | | | |
| WE SHALL NOT REMAIN RESPONSIBLE FOR | | | |
| a) SAFETY OF OLD STRUCTURE DURING DEMOLITION. | | | |
| b) SAFETY OF ANY ADJOINING BUILDING / PERSONS STAYING IN ADJOINING. | | | |
| c) SAFETY OF CONSTRUCTION WORKER / ANY PERSONNEL AT WORK SITE DURING CONSTRUCTION | | | |
| d) CORRECTNESS / SAFETY OF ANY TEMPORARY STRUCTURE. | | | |
| e) ACCIDENTS OCCURRING DUE TO CENTRING ERECTED AT SITE AND INJURY TO ANY PERSONNEL ARISING OUT OF ANY ACCIDENT | | | |
| f) ACCIDENTS OCCURRING DUE TO PREMATURE DESHUTTERING, FAULTY/SUBSTANDARD CONSTRUCTION MATERIAL OR WORKMANSHIP / FAULTY CONSTRUCTION PROCEDURE. | | | |
| NOTES : | | | |
| 1) DO NOT SCALE THE DRAWING, REFER FIGURED DIMENSIONS | | | |
| 2) ANY DISCREPANCIES OR OMISSION OR CHANGES SHALL BE BROUGHT TO NOTICE PRIOR TO EXECUTION | | | |
| 3) CONCRETE GRADE USED IS M 20 UNLESS OTHERWISE MENTIONED.P.C.C.:1:3:6 M20 = 1:1.5:3 | | | |
| 4) ALL STEEL EXCEPT 6mm IS TOR STEEL(') OF GRADE Fe 415 N/mm ² . | | | |
| 5) LAPPING OR ANCHORAGE LENGTH | | | |
| For a) BEAM AND SLAB = 60 x DIA OF BAR | | | |
| b) COLUMN = 50 x DIA OF BAR | | | |
| 6) CLEAR COVER TO REINFORCEMENT | | | |
| a) FOOTING = 50m.m. | | | |
| b) COLUMN = 25m.m. | | | |
| c) SLAB = 15m.m. | | | |
| d) BEAM = 25m.m. | | | |
| 7) S.B.C. OF SOIL ASSUMED IS 300KN/SQM | | | |
| 8) COLUMNS AND FOOTINGS ARE DESIGNED FOR BASEMENT+G +3, PARKING+3 | | | |
| 9) ALL WALLS-0.15 BBM EXCEPT TOILET WALLS-0.1 BBM HT-3.0 M | | | |
| 10) DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY ENGINEER | | | |
| 11) DESIGN OF CENTRING, SHUTTERING, AND CONCRETE MIX IS CONTRACTOR RESPONSIBILITY | | | |
| 12) ALL DIMENSIONS ARE ASSUMED IN MM IF NOT MENTIONED | | | |
| 13) DO NOT SCALE THE DRAWING | | | |
| 14) TOP OF THE BEAMS SHOULD BE AT SAME LEVEL | | | |
| 15) ALL DIMENSIONS ARE IN MM IF NOT MENTIONED. | | | |
| CLIENT :- MR. UMESH THORAT | | | |
| ARCHITECT :- SHREE ASSOCIATES | | | |
| PROJECT :- PROPOSED BUILDING CONSTRUCTION | | | |
| TITLE :- RCC.DETAILS OF F.F BEAM PLAN | | | |
| CHECKED BY | DRAWN BY | SCALE | REV. |
| SANDIP | ROHIT | N.T.S | 00 |
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