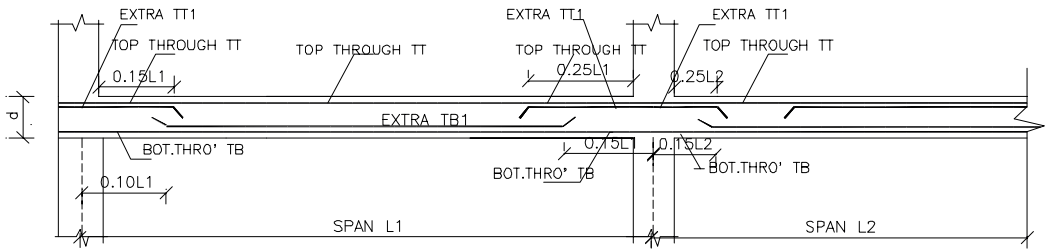

FLOOR BEAM	BEAM SIZE (bxd)	BOTTOM STEEL		TOP STEEL		8TOR RINGS
		THROUGH TB	EXTRA TB1	THROUGH TT	EXTRA TT1	
B1,B2,B3,B4	230X350	3–16 TOR	2––16 TOR	2––16 TOR	3––16 TOR	150 C/C
B5,B6	230X350	3–16 TOR	3––16 TOR	2––16 TOR	4––16 TOR	150 C/C
B7,B13	300X600	4–––20TOR	–––––	2––20 TOR	3––20 TOR	150 C/C
B8,B14	300X900	3–20 TOR	2––20 TOR	2––20TOR	3––20 TOR	150 C/C
B9,B10,B11,B12	230X350	2–16 TOR	2––16 TOR	2––16 TOR	2––16 TOR	150 C/C
B15A,B15,B16 ,B17,B18	230X350	2–16 TOR	2––16 TOR	2––16 TOR	2––16 TOR	150 C/C
B19	300X600	4––20TOR	––	2––20 TOR	3–20TOR	150 C/C
B20	300X900	3––20TOR	2––20 TOR	2––20 TOR	3–20TOR	150 C/C
B21 TO B25	230X350	2–16 TOR	2––16 TOR	2––16 TOR	2––16 TOR	150 C/C
B26TO B27	230X350	3–16 TOR	2––16 TOR	2––16 TOR	3––16 TOR	150 C/C
B28TO B29	230X350	3–16 TOR	2––16 TOR	2––16 TOR	3––16 TOR	150 C/C
B30	300X750	3–20 TOR	2––20 TOR	2––20TOR	3––20 TOR	150 C/C
B32	230X350	3–16 TOR	2––16 TOR	2––16 TOR	3––16 TOR	150 C/C
B33,B35	300X750	3–20 TOR	2––20 TOR	2––20TOR	4––20 TOR	150 C/C
B34	230X350	2––20TOR	––	2––20 TOR	3–20TOR	150 C/C
B36,B38	300X750	3–20 TOR	2––20 TOR	2––20TOR	3––20 TOR	150 C/C
B37	230X350	2––20TOR	––	2––20 TOR	3–20TOR	150 C/C
B39A,B39B, ,B40 TO B47	230X350	3–16 TOR	2––16 TOR	2––16 TOR	3––16 TOR	150 C/C
B48 TO B52	230X350	2–16 TOR	3––16 TOR	2––16 TOR	2––16 TOR	150 C/C
B53	300X750	3–20 TOR	2––20 TOR	2––20TOR	3––20 TOR	150 C/C
B54,B55,B56	230X350	3–16 TOR	2––16 TOR	2––16 TOR	3––16 TOR	150 C/C

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

KARNATAKA POWER TRANSMISSION CORORATION LTD

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

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

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