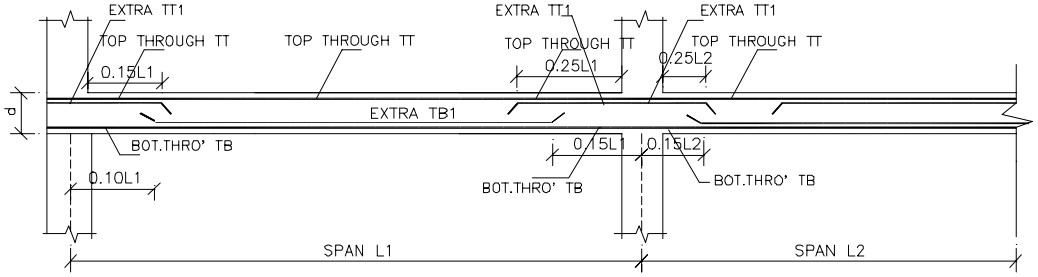
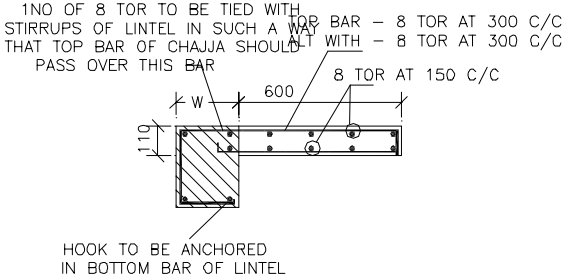


TYPICAL ARRANGEMENT OF REINFORCEMENT FOR A CONTINUOUS BEAM/LINTEL.

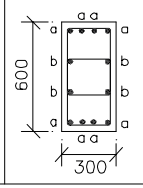
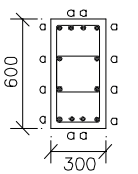
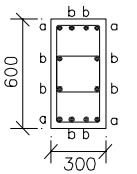


TYPICAL CROSS THROUGH CHEJJA

ROOF BEAM	BEAM SIZE (bxd)	BOTTOM STEEL		TOP STEEL		8TOR RINGS
		THROUGH TB	EXTRA TB1	THROUGH TT	EXTRA TT1	
RB1	230X350	2--16 TOR	2--16 TOR	2--16 TOR	2--16 TOR	150 C/C
RB2	300X750	3–20 TOR	2--20 TOR	2--16 TOR	2--16 TOR	150 C/C
LINTEL BEAM DETAILS						
LB1	230X300	2–16 TOR	2--16 TOR	2--12 TOR	2--16 TOR	150 C/C

ROOF SLAB DETAILS					
SLAB MARK	SLAB THICK IN MM	REINFORCEMENT C/C // TO SHORT SPAN STRAIGHT – a	BENT UP – b	// TO LONG SPAN STRAIGHT – c	EXTRA AT TOP // TO SHORT SPAN STRAIGHT – e
S1	130	10 TOR AT 400 C/C	10 TOR AT 400 C/C	8 TOR AT 200 C/C	10 TOR AT 400 C/C
REMARKS		← ONE WAY SLAB →			

COLUMN SCHEDULE

COLUMN MARKS		C1	C7	C10
COLUMN SIZE – l		X b 300X600	300X600	300 X 600
GROUND FLOOR SLAB LEVEL TO FIRST ROOF SLAB LEVEL	VERTICAL REINFORCEMENT	12NOS OF 16 TOR – 12(a)	12NOS OF 12 TOR – (a)	4NOS OF 20 TOR – (a) +8NOS OF16 TOR – (b)
	STIRRUPS	8DIA TOR @ 150C/C	8DIA TOR @ 150C/C	8DIA TOR @ 150C/C
	CONCRETE MIX	M 20	M 20	M 20
SECTION				

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
FIRST FLOOR LINTEL,ROOF BEAM , ROOF SLAB,COLUMN LAYOUT

SHEET 2 OF 2

DRG NO: CEE(P & C)/SE(C)/06-07/220/007

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