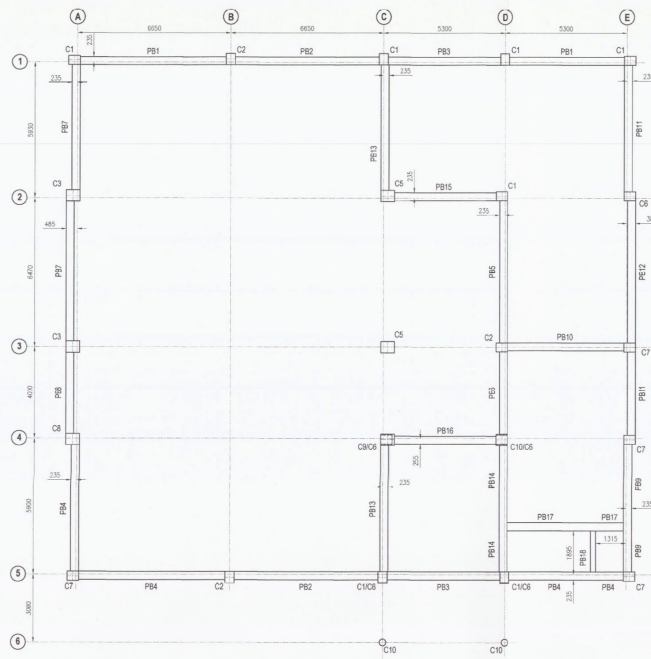
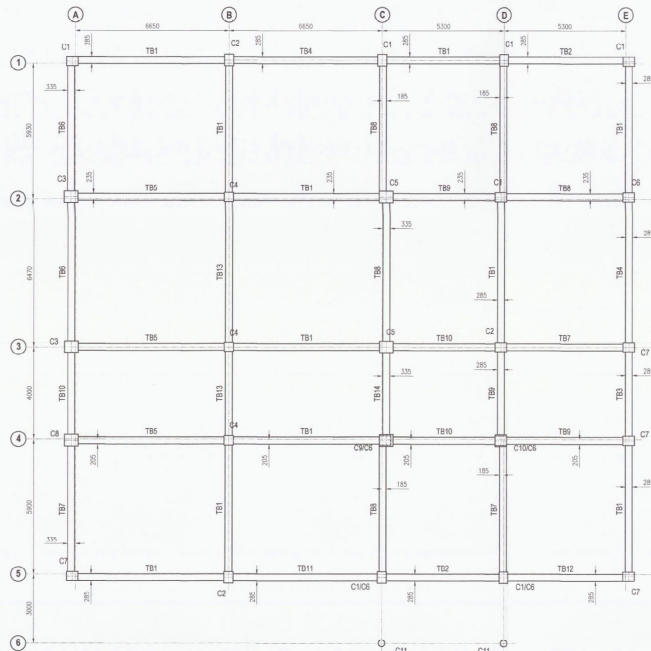
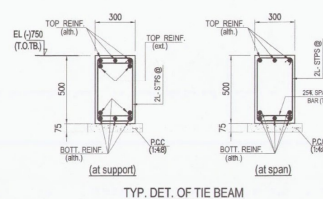
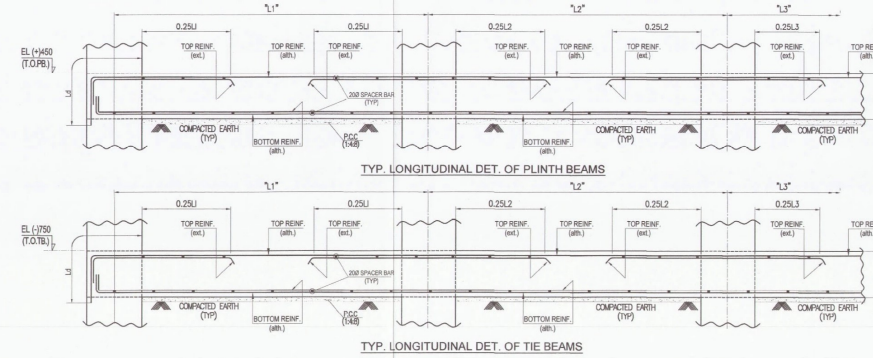
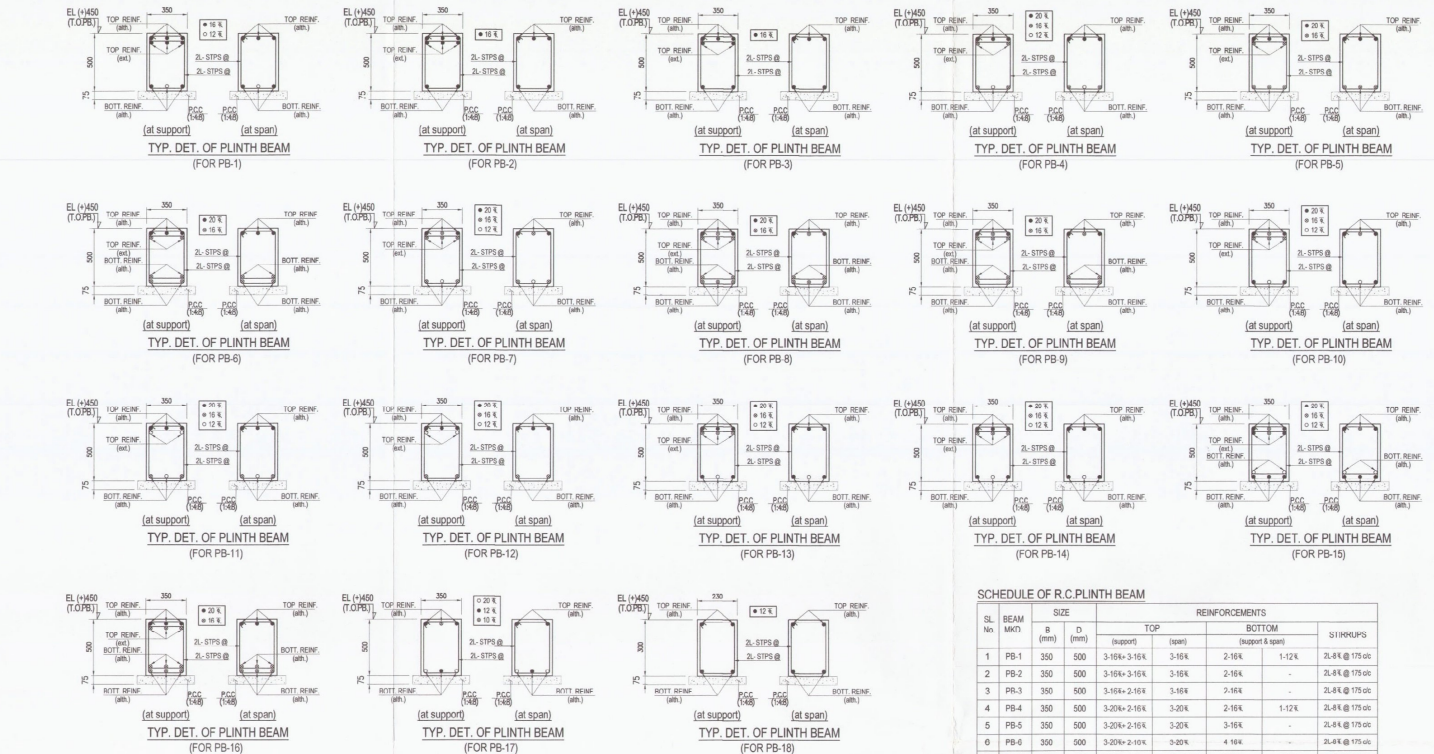




PLINTH BEAM LAYOUT PLAN
EL (+450 (T.O.PB)) UNLESS NOTED



TIE BEAM LAYOUT PLAN
EL (+750 (T.O.TB)) UNLESS NOTED



SCHEDULE OF R.C.TIE BEAM									
SL. NO.	BEAM NO.	SIZE		REINFORCEMENTS				STIRRUPS	
		B (mm)	D (mm)	TOP		BOTTOM			
				(support)	(span)	(support & span)			
1	TB-1	300	500	2-16K+1-12K	2-16K	3-12K	-	2L-8K @ 180 c/c	
2	TB-2	300	500	2-16K+1-12K	2-16K	2-16K	-	2L-8K @ 180 c/c	
3	TB-3	300	500	2-16K+1-12K	2-16K	2-16K	1-12K	2L-8K @ 180 c/c	
4	TB-4	300	500	2-16K	3-16K	3-12K	-	2L-8K @ 180 c/c	
5	TB-5	300	500	3-16K	2-16K	3-12K	-	2L-8K @ 180 c/c	
6	TB-6	300	500	3-16K	2-16K	2-16K	-	2L-8K @ 180 c/c	
7	TB-7	300	500	3-16K	2-16K	2-16K	1-12K	2L-8K @ 180 c/c	
8	TB-8	300	500	2-20K+1-12K	2-20K	2-16K	1-12K	2L-8K @ 180 c/c	
9	TB-9	300	500	2-20K+1-12K	2-20K	3-16K	-	2L-8K @ 180 c/c	
10	TB-10	300	500	2-20K+1-12K	2-20K	2-20K	1-12K	2L-8K @ 180 c/c	
11	TB-11	300	500	2-16K+1-10K	2-16K	3-12K	-	2L-8K @ 180 c/c	
12	TB-12	300	500	2-16K+2-10K	2-16K	2-16K	-	2L-8K @ 180 c/c	
13	TB-13	300	500	3-12K	2-12K	3-12K	-	2L-8K @ 180 c/c	
14	TB-14	300	500	2-16K+2-16K	2-16K	2-16K	2-16K	2L-8K @ 180 c/c	

SCHEDULE OF R.C.PLINTH BEAM									
SL. NO.	BEAM M.K.D	SIZE		REINFORCEMENTS				STIRRUPS	
		B (mm)	D (mm)	TOP		BOTTOM			
				(support)	(span)	(support & span)			
1	PB-1	350	500	3-16K+3-16K	3-16K	2-16K	1-12K	2L-8K @ 175 c/c	
2	PB-2	350	500	3-16K+3-16K	3-16K	2-16K	-	2L-8K @ 175 c/c	
3	PB-3	350	500	3-16K+3-16K	3-16K	2-16K	-	2L-8K @ 175 c/c	
4	PB-4	350	500	3-20K+2-16K	3-20K	2-16K	1-12K	2L-8K @ 175 c/c	
5	PB-5	350	500	3-20K+2-16K	3-20K	3-16K	-	2L-8K @ 175 c/c	
6	PB-6	350	500	3-20K+2-16K	3-20K	4-16K	-	2L-8K @ 175 c/c	
7	PB-7	350	500	2-20K+4-16K	2-20K+1-16K	2-16K	1-12K	2L-8K @ 175 c/c	
8	PB-8	350	500	2-20K+4-16K	2-20K+1-16K	3-16K	2-16K	2L-8K @ 175 c/c	
9	PB-9	350	500	2-20K+4-16K	2-20K+1-16K	4-16K	-	2L-8K @ 175 c/c	
10	PB-10	350	500	2-20K+4-16K	3-20K+1-16K	2-20K	1-12K	2L-8K @ 175 c/c	
11	PB-11	350	500	3-20K+2-12K	3-20K	2-16K	1-12K	2L-8K @ 175 c/c	
12	PB-12	350	500	3-20K+2-12K	3-20K	2-16K	-	2L-8K @ 175 c/c	
13	PB-13	350	500	3-20K+3-16K	3-20K	2-20K	1-12K	2L-8K @ 175 c/c	
14	PB-14	350	500	3-20K+3-16K	3-20K	2-20K	1-12K	2L-8K @ 175 c/c	
15	PB-15	350	500	4-20K+2-16K	2-20K+1-16K	3-20K	2-12K	2L-8K @ 175 c/c	
16	PB-16	350	500	3-20K+3-16K	3-20K	3-16K	3-16K	2L-8K @ 175 c/c	
17	PB-17	350	500	2-12K+1-10K	2-12K	2-20K	1-12K	2L-8K @ 175 c/c	
18	PB-18	300	500	2-12K	2-12K	2-12K	-	2L-8K @ 90 c/c	

NOTES:-
 1. ALL DIMENSIONS & LEVELS ARE IN MM. UNLESS NOTED OTHERWISE.
 2. CONCRETE GRADE SHALL BE AS FOLLOWS:-
 a). BINDING CONCRETE MIX PROPORTION (1:4:8)
 b). R.C.C. WORK MIX PROPORTION (M-20)
 3. CLEAR COVER TO MAIN RE-INFORCEMENTS SHALL BE AS FOLLOWS:-
 a) BOTTOM RAFT - TOP, BOTTOM & SIDE - 50 mm.
 b) DOL - 40 mm. c) BEAM - 40 mm. (BELOW F.C.L.)
 4. REINFORCEMENTS SHALL BE HIGH YIELD STRENGTH DEFORMED TMT BARS OF CHARACTERISTICS STRENGTH $f_y = 500 \text{ N/mm}^2$
 5. MINIMUM ANCHORAGE LENGTH AND LAP OF BARS SHALL BE 50DIA OF BARS.
 6. RAFT TO BE LOCALLY ADJUSTED TO AVOID CUT OUTS, POCKETS ETC.
 7. LAPS IN REINFORCEMENT TO BE PROVIDED IN STAGGERED LOCATION.

BIHAR STATE POWER TRANSMISSION COMPANY LTD. (BSPTCL)

TITLE : CONTROL ROOM BUILDING TIE BEAM AND PLINTH BEAM LAYOUT & DETAILS

DWG. NO. CD_220KVCRB_04-07

SCALE : 1: 100 SHEET : 02 OF 05

Dr. J. P. Singh
Chief Engineer (Civil)
BSPTCL
25.01.2024
Assistant Engineer (Civil)
BSPTCL