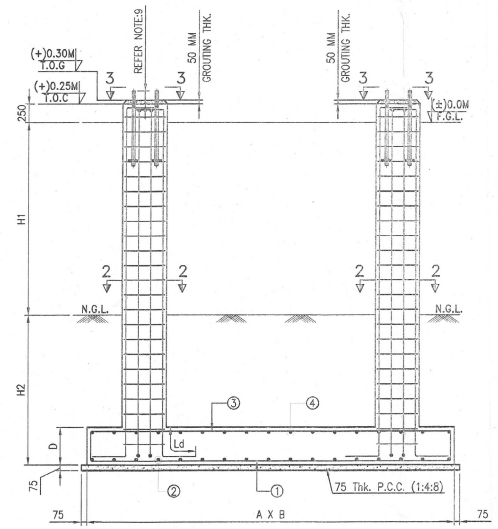
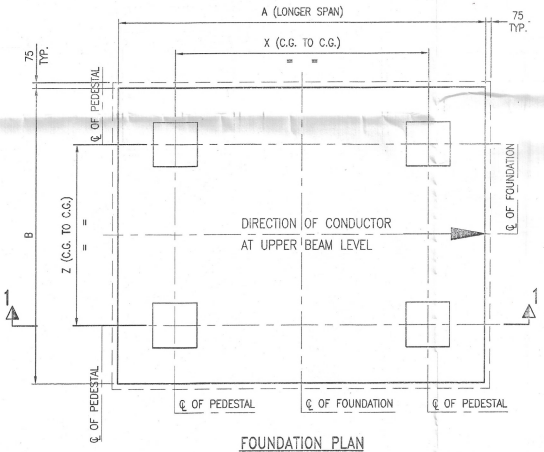
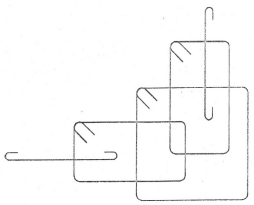


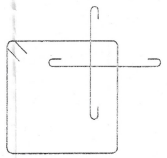
SECTION 1-1



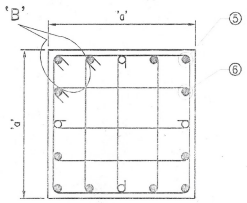
FOUNDATION PLAN
(FOR ORIENTATION AND LOCATION OF FOUNDATION REFER STRUCTURAL LAYOUT/FOUNDATION LAYOUT)



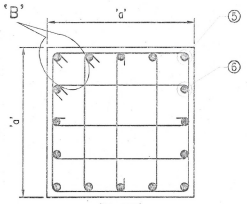
FOR SECTION 2-2 (16-BAR)
RING ARRANGEMENT
(ST. 8 ϕ @190 C/C TYP.)



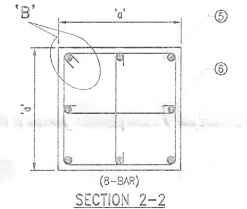
FOR SECTION 2-2 (08-BAR)
RING ARRANGEMENT
(ST. 8 ϕ @190 C/C TYP.)



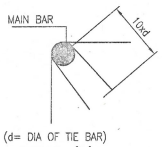
(16-BAR)
SECTION 2-2
● HEAVIER BAR
○ LIGHTER BAR



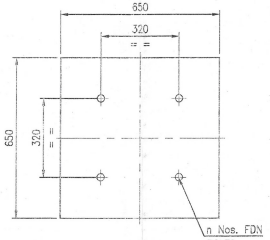
(16-BAR)
SECTION 2-2
● HEAVIER BAR



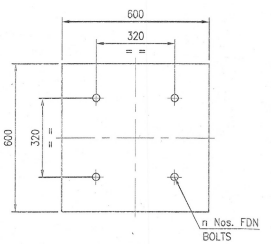
(8-BAR)
SECTION 2-2
● HEAVIER BAR



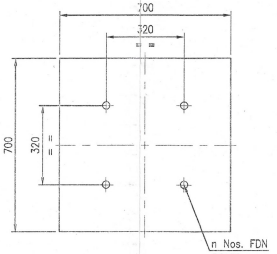
DETAIL-'B'



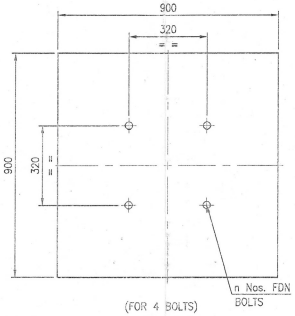
(FOR 4 BOLTS)
VIEW 3-3
(FOR TOWER 'CTB')
(SCALE 1:15)



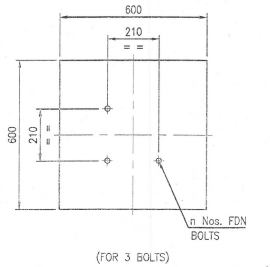
(FOR 4 BOLTS)
VIEW 3-3
(FOR TOWER 'CTB1')
(SCALE 1:15)



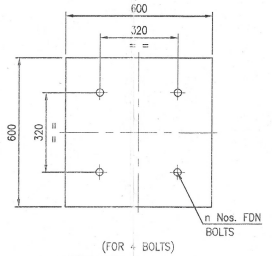
(FOR 4 BOLTS)
VIEW 3-3
(FOR TOWER 'CTC')
(SCALE 1:15)



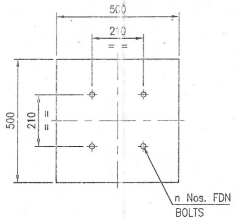
(FOR 4 BOLTS)
VIEW 3-3
(FOR TOWER 'CTC1')
(SCALE 1:15)



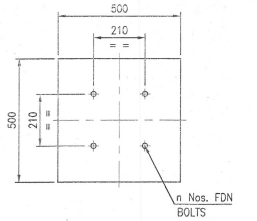
(FOR 3 BOLTS)
VIEW 3-3
(FOR TOWER 'CTD')
(SCALE 1:15)



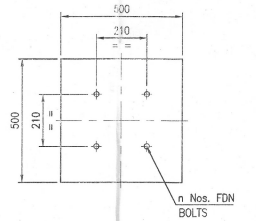
(FOR 4 BOLTS)
VIEW 3-3
(FOR TOWER 'CTE')
(SCALE 1:15)



(FOR 4 BOLTS)
VIEW 3-3
(FOR TOWER 'CTG')
(SCALE 1:15)



(FOR 4 BOLTS)
VIEW 3-3
(FOR TOWER 'CTH')
(SCALE 1:15)



(FOR 4 BOLTS)
VIEW 3-3
(FOR TOWER 'CC')
(SCALE 1:15)

NOTE

1. ALL DIMENSIONS ARE IN M.M. AND ALL LEVELS ARE IN METERS.
2. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED AND DRAWING NOT TO BE SCALED.
3. ELEVATION (±)0.00 CORRESPONDS TO FINISHED GROUND LEVEL AND THAT REFERS TO RL 98.470M.
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS BELOW:
   a) FOR FOUNDATION = 50mm.
   b) FOR COLUMN = 50mm.
5. ALL STRUCTURAL CONCRETE SHALL BE OF M20 GRADE.
6. ALL STRUCTURAL STEEL SHALL BE OF Fe 500 GRADE.
7. LAP LENGTH SHALL BE 55 TIMES THE DIAMETER OF BAR.
8. FOR BOLT SETTING OUT PLAN REFER FABRICATION DRAWING OF RESPECTIVE TOWER.
9. FOR BOLT PROJECTION REFER STANDARD FOUNDATION BOLT DRAWING.

Note:- This drawing stands approved for RCC and reinforcement details only; not for foundation bolt details & specification.

Drawing is approved subject to overall responsibility of the contractor in terms of contract agreement or, turn key for the work

Assistant Engineer (Civil) BSPTCL 04.09.19
Executive Engineer (Civil) B.S.P.T.C.L 25.9.19
Superintending Engineer (Civil) BSPTCL 25/9/2019
Chief Engineer (Civil) B.S.P.T.C.L 25.9.19

LEGEND

NGL – NATURAL GROUND LEVEL.
FGL – FINISHED GROUND LEVEL.
TOG – TOP OF GROUT.
TOC – TOP OF CONCRETE.

REFERENCE DRAWINGS

1. KEC-SB938-RXL-01-1001 – OVERALL GENERAL ARRANGEMENT LAYOUT PLAN.
2. KEC-SB938-RXL-90-0001 – STRUCTURE LAYOUT PLAN AND SECTION.
3. KEC-SB938-RXL-90-0002 – OVERALL FOUNDATION LAYOUT.
4. KEC-SB938-RXL-94-1309 – FOUNDATION BOLT DETAIL FOR TOWERS.

SCHEDULE OF 220kV TOWER FOUNDATION

S.NO.	TOWER TYPE	A mm	B mm	X mm	Z mm	'a' mm	H2 mm	H1 mm	D mm	FOOTING REINFORCEMENT ① (BOTTOM)	② (BOTTOM)	③ (TOP)	④ (TOP)	COLUMN REINFORCEMENT ⑤	⑥	FDN BOLT DIA	FDN BOLT n
1	CTB	7550	6550	3411	2411	650	1500	2600	500	16ϕ@190 C/C	16ϕ@190 C/C	12ϕ@190 C/C	12ϕ@190 C/C	8-25ϕ	8-25ϕ	56ø	04
2	CTB1	7550	6550	3411	2411	650	1500	2600	500	16ϕ@150 C/C	16ϕ@150 C/C	12ϕ@190 C/C	12ϕ@190 C/C	12-25ϕ	4-20ϕ	56ø	04
3	CTC	7400	7400	3411	3411	700	1500	2600	600	16ϕ@190 C/C	16ϕ@190 C/C	12ϕ@150 C/C	12ϕ@150 C/C	8-25ϕ	8-25ϕ	56ø	04
4	CTC1	8300	8300	3411	3411	900	1500	2600	650	16ϕ@160 C/C	16ϕ@160 C/C	12ϕ@150 C/C	12ϕ@150 C/C	8-25ϕ	8-25ϕ	56ø	04
5	CTE	7100	7100	3417	3417	600	1500	2750	550	12ϕ@150 C/C	12ϕ@150 C/C	12ϕ@150 C/C	12ϕ@150 C/C	12-25ϕ	4-20ϕ	56ø	04
6	CTD	6150	5150	3438	2438	600	1500	2600	400	12ϕ@150 C/C	12ϕ@150 C/C	12ϕ@130 C/C	12ϕ@150 C/C	4-25ϕ	4-25ϕ	40ø	03
7	CTG	5650	4650	3440	2440	500	1500	2600	400	12ϕ@190 C/C	12ϕ@190 C/C	16ϕ@190 C/C	12ϕ@190 C/C	4-25ϕ	4-25ϕ	28ø	04
8	CTH	6950	5950	3427	2427	500	1500	2600	500	16ϕ@160 C/C	16ϕ@160 C/C	12ϕ@190 C/C	12ϕ@190 C/C	8-25ϕ	8-25ϕ	40ø	04
9	CC	5200	4200	3445	2445	500	1500	2600	400	12ϕ@190 C/C	12ϕ@190 C/C	16ϕ@190 C/C	12ϕ@150 C/C	4-25ϕ	4-25ϕ	28ø	04

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED(BSPTCL)

Title: RCC DETAILS OF FOUNDATION FOR 220KV TOWER

Drg. No.:- CD_220KVTOWER_14

Scale : 1:50

Sheet : 01 OF 01

SIZE - A2