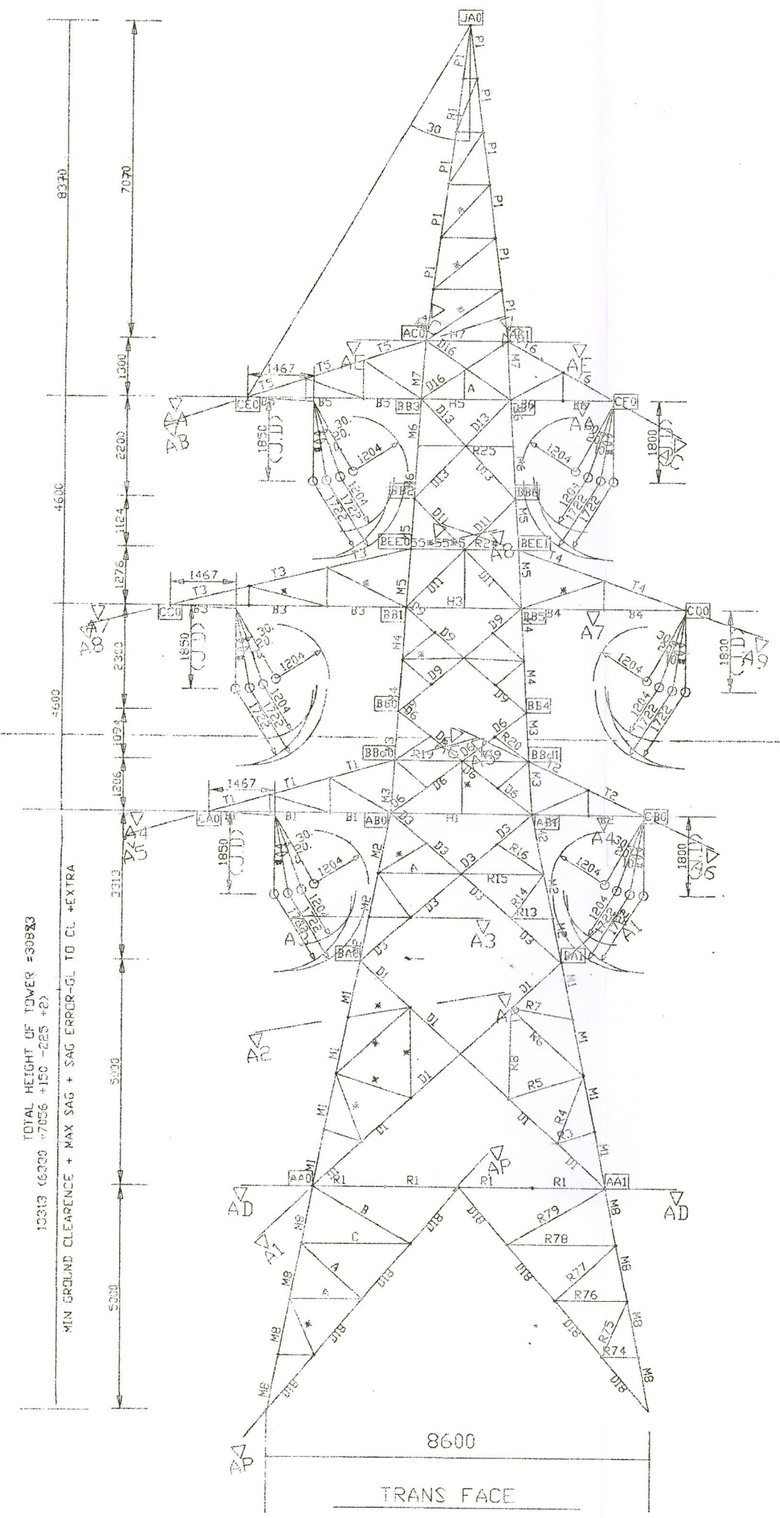

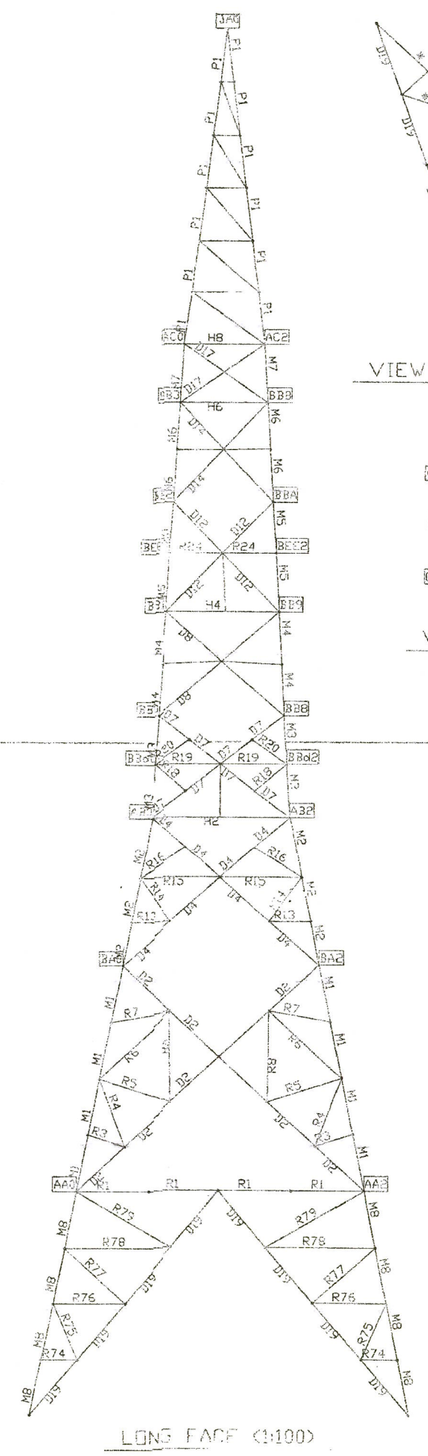

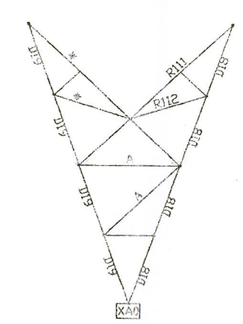

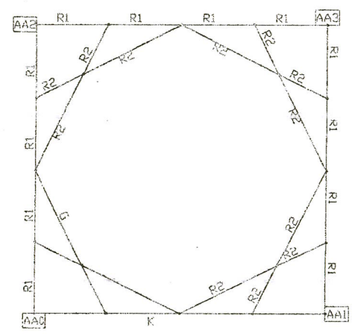

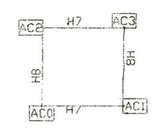

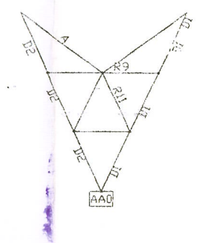

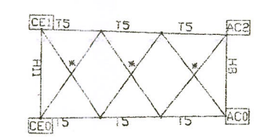

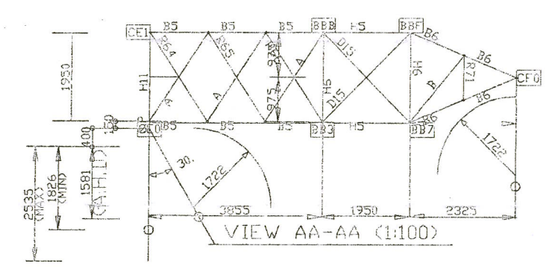

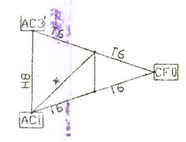

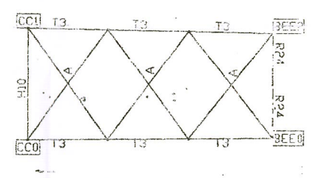

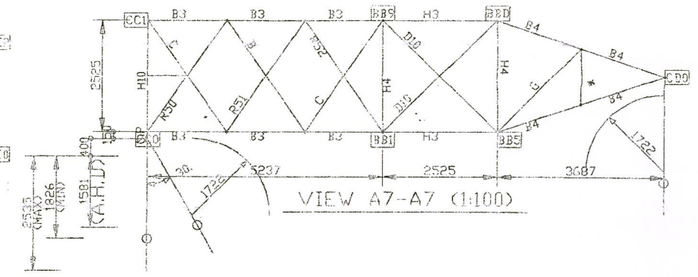

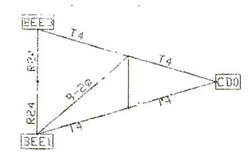

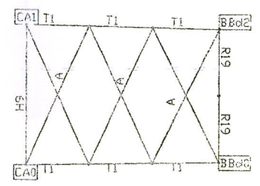

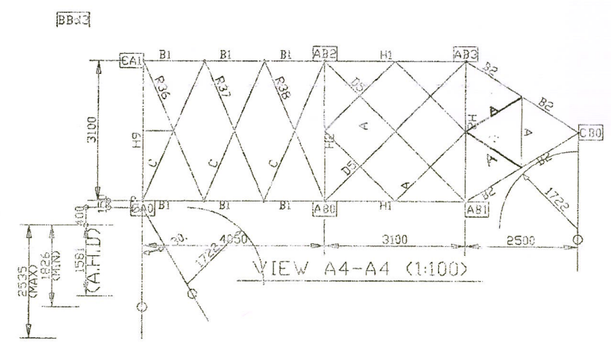

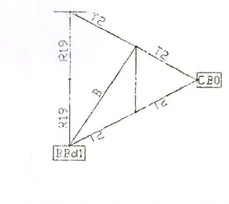

GROUP NO.	SECTION	BOLTS NO	BOLT DIA
A. LEG MEMBERS:			
M1	HT L 120 X 120 X 10	8	0/S
M2	HT L 120 X 120 X 10	8	S/S
M3	MS L 120 X 120 X 10	8	0/S
M4	MS L 120 X 120 X 10	6	0/S
M5	HT L 80 X 80 X 9	6	S/S
M6	HT L 90 X 90 X 7	4	S/S
M7	HT L 90 X 90 X 7	4	S/S
M8	HT L 130 X 130 X 10	8	0/S
LATTICES/BRACINGS			
D18/D19	MS L 75 X 75 X 5	3	S/S
D1	MS L 70 X 70 X 5	3	S/S
D2	MS L 75 X 75 X 5	3	S/S
D3	MS L 75 X 75 X 6	3	S/S
D4	MS L 75 X 75 X 6	2	S/S
D5	MS L 65 X 65 X 5	2	S/S
D6	MS L 75 X 75 X 5	3	S/S
D7	HT L 65 X 65 X 5	3	S/S
D8	HT L 80 X 80 X 6	3	S/S
D9	HT L 80 X 80 X 6	3	S/S
D10	MS L 55 X 55 X 5	2	S/S
D11	MS L 75 X 75 X 5	3	S/S
D12	MS L 70 X 70 X 5	3	S/S
D13	MS L 70 X 70 X 5	3	S/S
D14	MS L 70 X 70 X 5	3	S/S
D15	MS L 60 X 60 X 5	2	S/S
D16	MS L 50 X 50 X 4	2	S/S
D17	MS L 45 X 45 X 4	2	S/S
HORIZONTALS			
H1	MS L 70 X 70 X 5	2	S/S
H2	MS L 75 X 75 X 5	3	S/S
H3	MS L 75 X 75 X 6	4	S/S
H4	MS L 65 X 65 X 5	3	S/S
H5	MS L 75 X 75 X 5	3	S/S
H6	MS L 55 X 55 X 5	2	S/S
H7	MS L 55 X 55 X 4	2	S/S
H8	MS L 45 X 45 X 4	2	S/S
H9	MS L 75 X 75 X 6	2	S/S
H10	MS L 75 X 75 X 6	2	S/S
H11	MS L 75 X 75 X 6	2	S/S
MAIN ARM			
B1	HT L 75 X 75 X 5	3	S/S
B2	MS L 90 X 90 X 6	2	S/S
B3	MS L 90 X 90 X 6	2	S/S
B4	MS L 90 X 90 X 6	3	S/S
B5	HT L 75 X 75 X 5	4	S/S
B6	MS L 60 X 60 X 5	3	S/S
ARM TOPS			
L1	HT L 60 X 60 X 5	3	S/S
L2	MS L 65 X 65 X 4	3	S/S
L3	HT L 65 X 65 X 5	3	S/S
L4	MS L 65 X 65 X 5	3	S/S
L5	HT L 55 X 55 X 5	3	S/S
L6	MS L 60 X 60 X 4	3	S/S
PEAK MEMBERS			
P1	HT L 65 X 65 X 5	4	S/S

LEGEND

L -SINGLE ANGLE

SS -SINGLE SHEAR

REDUNDANTS

SEC. MKD.	SECTION	REMARKS
*	MS L 45 X 45 X 4	
A	MS L 50 X 50 X 4	
B	MS L 55 X 55 X 4	
C	MS L 60 X 60 X 4	
D	HT L 60 X 60 X 4	
E	MS L 65 X 65 X 4	
F	HT L 65 X 65 X 4	
G	MS L 60 X 60 X 5	
H	HT L 60 X 60 X 5	
I	MS L 65 X 65 X 5	
J	HT L 65 X 65 X 5	
K	MS L 70 X 70 X 5	
L	HT L 70 X 70 X 5	
M	MS L 75 X 75 X 5	
N	HT L 75 X 75 X 5	
O	MS L 80 X 80 X 6	
P	HT L 80 X 80 X 6	
Q	MS L 90 X 90 X 6	
R	HT L 90 X 90 X 6	
S	MS L 100 X 100 X 6	
T	MS L 100 X 100 X 6	
UNNOTED SEC	MS L 45 X 30 X 4	

TOWER COMBINATIONS

TOWER TYPE	TOWER COMBINATION
NT -3.0 M	BASIC BODY + 4X(-)3.0M LEG EXTENSIONS
NT -1.5 M	BASIC BODY + 4X(-)1.5M LEG EXTENSIONS
NT +/-0 M	BASIC BODY + 4X(+/-)0M LEG EXTENSIONS
NT +1.5 M	BASIC BODY + 4X(+)1.5M LEG EXTENSIONS
NT +3.0 M	BASIC BODY+0BE+4X(+)3.0M LEG EXTENSIONS
NT +4.5 M	BASIC BODY+0BE+4X(+)4.5M LEG EXTENSIONS
NT +6.0 M	BASIC BODY+0BE+4X(+)6.0M LEG EXTENSIONS
NT +7.5 M	BASIC BODY+0BE+4X(+)7.5M LEG EXTENSIONS
NT +9.0 M	BASIC BODY+0BE+4X(+)9.0M LEG EXTENSIONS

NOTES:
1. ALL DIMENSIONS ARE IN MM.
2. HT INDICATES HIGH TENSILE STEEL AS PER IS 2062 GR E350
3. MS INDICATES MILD STEEL AS PER IS 2062 GR E-250
4. ALL BOLTS ARE 16 MM DIAMETER OF GRADE 5.6 , UNLESS OTHER WISE SPECIFIED
5. CONNECTED DRAWINGS. (DENGG-TL-CDENGG-TL-152411PP001 SHEET 2 OF 2.
6. CONNECTION OF SINGLE REDUNDANT TO LEG MEMBER UPTO CROSS ARM LEVEL SHALL BE DONE WITH MIN. TWO BOLTS.
7. WHEREEVER SECTION SIZE/TYPE OF STEEL(MS/HT) ARE DIFFERENT FOR TRANS & LONG LATTICES,INTERCHANGEIBILITY SHALL BE AVOIDED BY ADOPTING DIFERENT DETAILINGS .

DESCRIPTION	CHKD	REVD.	DATE

POWER GRID CORPORATION OF INDIA LTD. - New Delhi.

SPECN. NO.

DESCRIPTION: 132 KV D/C LINE TOWER TYPE : DD WIND ZONE : 5 (50 m/s) WITH ACSR PANTHER CONDUCTOR

SCALE: N.T.S

DESIGN | CHECKED | REVIEWED

DRG. NO: ENGG/TL/152411PM001

SHEET NO. 1/2

REV. SYM.

Bikin Sagar

कृष्ण सागर बी/B. Krishna Sagar
उप महाप्रबंधक स्कीम/Dy. GM. (Comp. Scheme)
पावरग्रिड पालीन/POWERGRID, Palin
अरुणाचल प्रदेश/Arunachal Pradesh

Executive Engineer (E)
Transmission Division No -II
Department of Power
Itanagar-Arunachal Pradesh