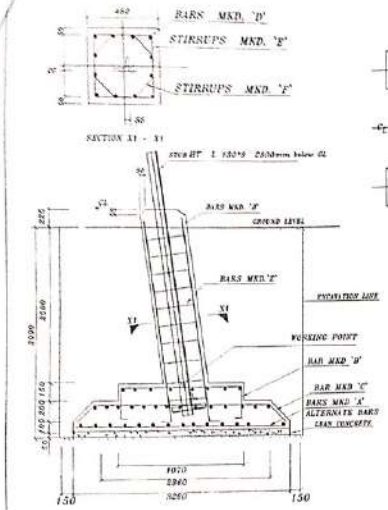
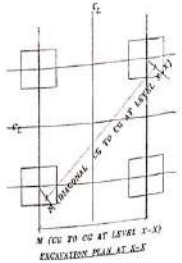




BAR BENDING SCHEDULE FOR FOUNDATION 00C0/2

BAR TYPE	SHAPE	BAR DIA (mm)	LENGTH (mm)	NOS / LEG	UNIT WEIGHT (Kg/m)	WEIGHT PER LEG (Kg.)	WEIGHT PER TOWER (Kg.)
A	3160	10	3160	44	0.617	85.79	343.15
B	970	10	1830	16	0.617	18.07	72.26
C	2760	10	3034	24	0.617	50.11	200.44
D		20	3550	12	2.466	99.13	396.53
E		8	1550	11	0.395	6.74	26.94
F		8	1326	11	0.395	5.76	23.04
TOTAL REINFORCEMENT(Kg)						265.59	1062.37

QUANTITIES / TOWER

EXCAVATION	=	152.09	m3
CONCRETE(1:5:10)=		14.65	m3
CONCRETE(1:3:6) =		2.13	m3
REINFORCEMENT =		1062.37	kgs

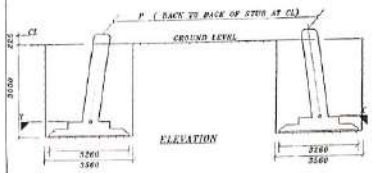
NOTES:
1. DRAWING NOT TO SCALE
2. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
3. REINFORCED BAR USED FOR NOT CONFORMING TO IS 1786-1985
4. MIX PROPERTIES CONFORMING TO IS 456-2000
5. CONCRETE MIX USED GRADE M 20 (NOMINAL MIX 1:1.5:3), LEAN CONCRETE MIX GRADE M10 (NOMINAL MIX 1:3:6).
6. EXCAVATION NECESSARY TO CLEAR STUB AND CLEAT STIRRUPS AND BARS ARE TO BE ADJUSTED AT SITE.
7. CLEAR COVER TO THE MAIN REINFORCEMENT BARS SHALL BE 50 MM UNLESS OTHERWISE SPECIFIED
8. FOR CLEAT AND STUB TEMPLATE DETAILS PLEASE REFER STUB DRG.
9. STUB SETTING/ROOF SETTING TEMPLATE HAS TO BE USED IN EACH LOCATION OF TOWER.
10. AT SITE PROPER COMPACTION OF BACK FILLED EARTH MUST BE DONE.

TOWER SLOPE TAN ALPHA = 0.18949

EXCAVATION PLAN DETAILS

LEVEL	STUB	CG OF STUB	P	W	X
0	NT L 150*9	38.4	13225	14196	20076
3	NT L 150*9	38.4	14372	15352	21684
6	NT L 150*9	38.4	15508	16470	23291
9	NT L 150*9	38.4	16646	17606	24899

SOIL PARAMETERS:
TYPE OF SOIL : PS
UNIT WEIGHT: 1440 / 940 Kg/CuM
BEARING CAPACITY: 12500 kg/m2
ANGLE OF REPOSE : 30 / 15 Degrees
WATER TABLE : 0.52 TO 1.5 M FROM GL



Date: 30/01/22
Approved / Approved With Correction
Checked by / Approved by
Design & Consultancy Cell
Tower Testing Station
Mechanical Engineering Division
Central Power Research Institute
Bangalore-560 080

BIHAR STATE POWER TRANSMISSION COMPANY LTD. (BSPTCL)

TITLE :- 400 KV D/C TWIN MOOSE "DA" MKD "4D (0°-2°)" TOWER FOUNDATION DRAWING OF TT DA (NT+0/+3/+6/+9) EQUAL LEG & SOIL TYPE - PS

DWG. NO. CD_DA(NT+0/+3/+6/+9)_PSSOIL 22(iii)(a)

SCALE : NTS SHEET 01 OF 01

28.03.22 (Vijay Kumar) AE(C),BSPTCL

ANJANI KUMAR CE (CIVIL) BSPTCL

DEEPAK KUMAR SE (CIVIL) BSPTCL

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