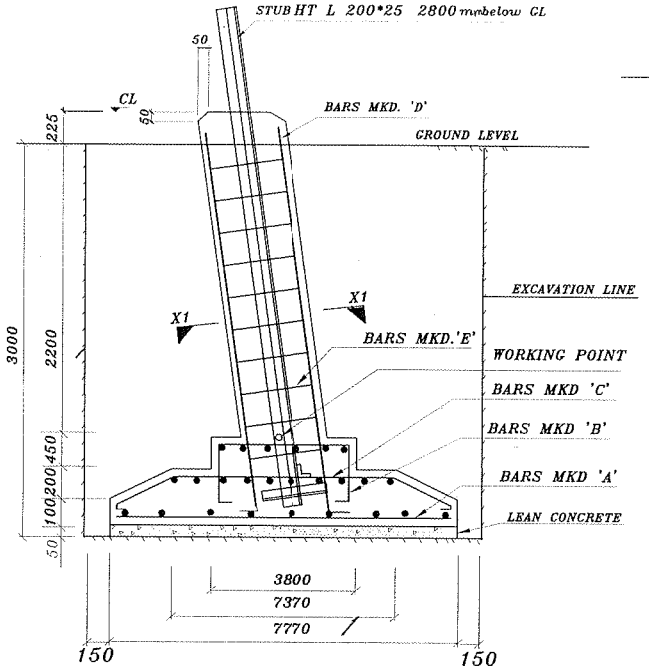
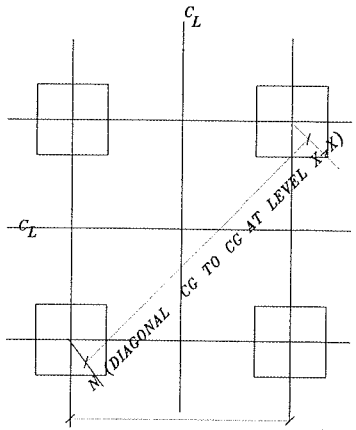


SECTION X1 – X1





M (CG TO CG AT LEVEL X–X)

EXCAVATION PLAN AT X–X

BAR BENDING SCHEDULE FOR FOUNDATION

BAR TYPE	SKETCH	BAR DIA. (mm)	LENGTH (mm)	NOS./ LEC	UNIT WEIGHT (KG/m)	WEIGHT PER LEC (KG.)	WEIGHT PER TOWER (KG.)
A	7670	12	7670	210	0.888	1430.302	5721.208
B	632, 3700, 100	12	5164	58	0.888	265.967	1063.868
C	212, 100, 7270	12	7894	100	0.888	700.987	2803.948
D	3000, 350	32	3350	12	6.313	253.783	1015.132
E	850, 850	8	3550	11	0.395	15.424	61.696
F	304, 850	8	2458	22	0.395	21.360	85.440

TOTAL WEIGHT (kgs) = 10751.292

TOWER SLOPE TAN ALPHA = 0.3344451

EXCAVATION PLAN DETAILS

LEVEL	STUB	CG OF STUB	P	M	N	CLEAT DETAILS
-6m	HT L 200*25	58.8	19114	20612	29150	MS 130*12 NO. OF PAIRS 3 BOLTS / PAIR: 3 BOLTS dia: 24mm
-4.5m	HT L 200*25	58.8	20117	21615	30569	
-3m	HT L 200*25	58.8	21121	22619	31988	
-1.5m	HT L 200*25	58.8	22124	23622	33407	
+0m	HT L 200*25	58.8	23127	24625	34826	
+1.5m	HT L 200*25	58.8	24131	25629	36244	
+3m	HT L 200*25	58.8	25134	26632	37663	
+4.5m	HT L 200*25	58.8	26137	27635	39082	
+6m	HT L 200*25	58.8	27141	28639	40501	
+7.5m	HT L 200*25	58.8	28144	29642	41920	
+9m	HT L 200*25	58.8	29147	30645	43339	

QUANTITIES / TOWER

EXCAVATION	=	781.50 m3
CONCRETE(1:1.5:3)	=	104.75 m3
CONCRETE(1:3:6)	=	12.07 m3
REINFORCEMENT	=	10751.29 kgs

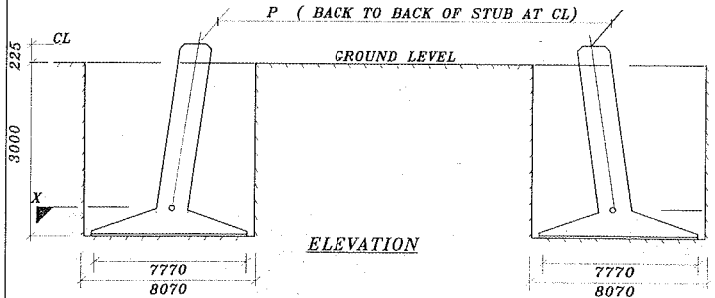
NOTES:

1. DRAWING NOT TO SCALE
2. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
3. REINFORCED BAR USED Fe 500 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. WHENEVER 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. NO. CC:ENGG–TL:85114011WZ4
9. THIS DRAWING IS NOT SUITABLE FOR UNEQUAL LEG EXTENSIONS. WO A48/A49

THE FOUNDATION HAS BEEN DESIGNED FOR THE FOLLOWING PARAMETERS:

TYPE OF SOIL : FS
UNIT WEIGHT: 1440 / 940 Kg/Cu.M
BEARING CAPACITY: 13675 kg/m2
ANGLE OF REPOSE 30 / 15 Degrees
WATER TABLE : 0 TO 0.75 M FROM CL

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WZ: 4 (47m/s)
RULING SPAN: 450m

WO A48 / A49

THIS DRAWING IS ALSO TO BE USED FOR TOWER PACKAGE–A8 FOR GOMTI RIVER–NIDHAURA VILLAGE PORTION OF ±800KV HVDC BIPOLE BISWANATH CHARIYALI–AGRA TRANSMISSION LINE ASSOCIATED WITH NORTH–EAST/NORTHERN–WESTERN INTERCONNECTOR–I PROJECT AGAINST SPECN. NO. C–61915–L095A–7

REV. No	DESCRIPTION	ISSUED BY	DCDE	CDE	CLEARED BY

CLEARED BY

DGM (ENGG–TL)	AGM (ENGG–TL)	GM (ENGG–TL)
02/07/09	05/07/09	2/7/09

DATE	DESIGN	CDE (ENGG–TL)	CDE (ENGG–TL)
19/6/09	21/6/09		

POWER GRID CORPORATION OF INDIA LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)

PROJECT: LOWER SUBANSIRI TRANSMISSION SYSTEM
BARABISA (ASSAM BORDER) TO AGRA T/L
800 kV HVDC W.Z.–4 (47m/s)

TITLE: CONSTRUCTION DRG. OF FOUNDATION
TOWER TYPE : D–6.0 to +9m B.E.
FOUNDATION TYPE : FS 450m SPAN

SCALE N.T.S.

DRAWING NO:CC:ENGG:TL: 8414411

REV. 0