



BAR BENDING SCHEDULE FOR FOUNDATION

BAR TYPE	SKETCH	BAR DIA. (mm)	LENGTH (mm)	NOS./LEG	UNIT WEIGHT (kg/m)	WEIGHT PER LEG (kg)	WEIGHT PER TOWER (kg)
A		10	3640	68	0.617	152.720	610.880
B		10	1660	12	0.617	12.291	49.164
C		10	3240	32	0.617	76.291	305.164
D		25	3350	8	3.853	103.260	413.040
E		8	1550	11	0.395	6.734	26.936
F		8	1138	11	0.395	4.944	19.776
TOTAL WEIGHT (kgs) = 1424.960							

QUANTITIES / TOWER

EXCAVATION	=	136.68 m ³
CONCRETE (1:1.5:3)	=	18.27 m ³
CONCRETE (1:3:6)	=	2.80 m ³
REINFORCEMENT	=	1424.96 kgs

TOWER SLOPE TAN ALPHA = 0.200461

EXCAVATION PLAN DETAILS

LEVEL	STUB	CC OF STUB	P	M	N	CLEAT DETAILS
+0m	HT L 110°8	30.0	10296	11347	16047	NS 140°4 NO. OF PAIRS X BOLTS / PAIR X
+3m	HT L 110°8	30.0	11517	12568	17774	
+6m	HT L 110°8	30.0	12720	13771	19475	

- NOTES:**
- DRAWING NOT TO SCALE
 - ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED
 - REINFORCED BAR USED Fe 500 CONFORMING TO IS 1786-1985
 - MIX PROPERTIES CONFORMING TO IS 456-2000
 - CONCRETE MIX USED GRADE M 20 (NOMINAL MIX 1:1.5:3), LEAN CONCRETE MIX GRADE M10 (NOMINAL MIX 1:3:6)
 - STIRRUPS AND BARS ARE TO BE ADJUSTED AT SITE WHENEVER NECESSARY TO CLEAR STUB AND CLEAT
 - CLEAR COVER TO THE MAIN REINFORCEMENT BARS SHALL BE 50 MM UNLESS OTHERWISE SPECIFIED
 - ALL 6mm BARS ARE NS BARS.

THE FOUNDATION HAS BEEN DESIGNED FOR THE FOLLOWING PARAMETERS:
 TYPE OF SOIL : SFR
 UNIT WEIGHT : 1440 / 940 Kg/Cu.M
 BEARING CAPACITY : 62500 kg/m²
 ANGLE OF REPOSE 20 / 10 Degree
 WATER TABLE : 0 TO 15M FROM CL

FOR **BIHAR STATE POWER TRANSMISSION COMPANY LTD.**

DRAWN BY	DESCRIPTION
	220KV D/C "DD+036" TOWER FOUNDATION DRAWING OF TYPE SFR
CHECKED BY	
APPROVED BY	220KV-D/C-+0/3/6-Fdn-SFR-28