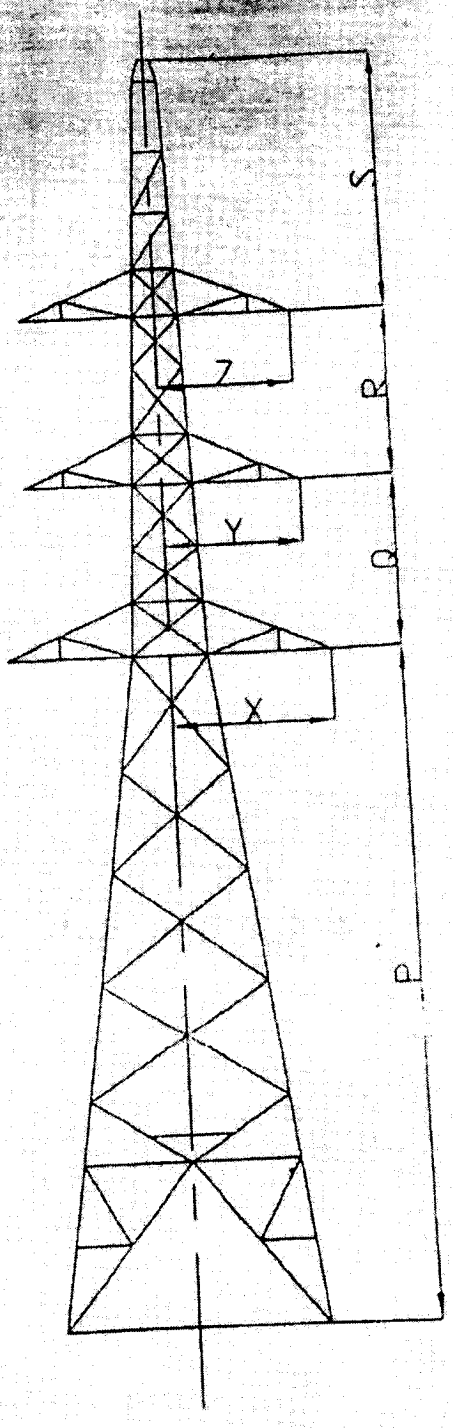
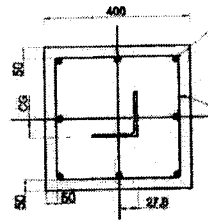
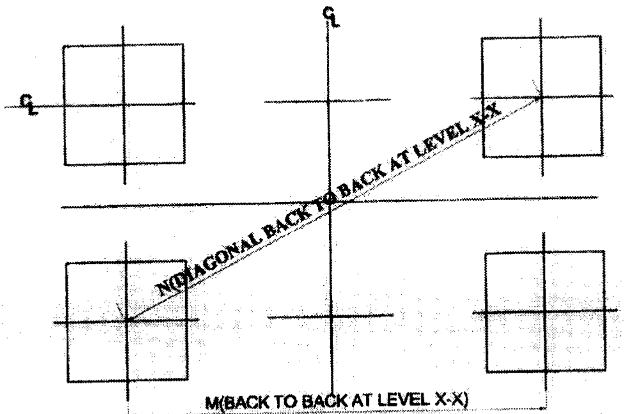
220KV DOUBLE CIRCUIT TOWER TYPE - A,B,C,D



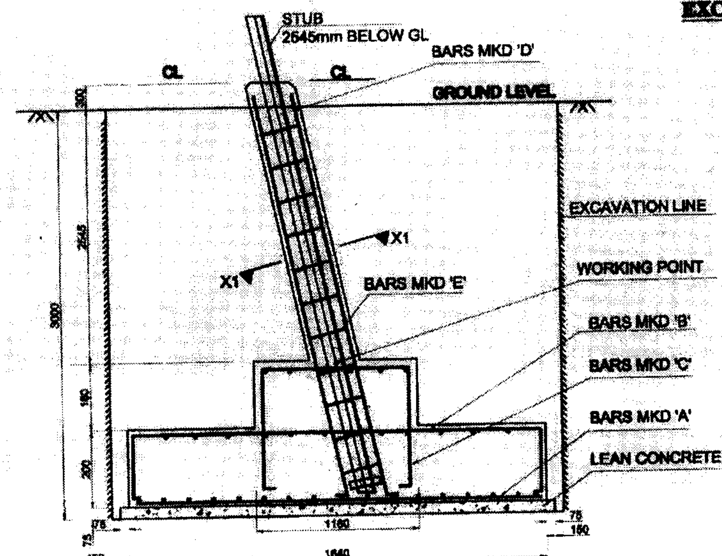
TYPES OF TOWER	P	Q	R	S	X	Y	Z	TOTAL HEIGHT OF TOWER (P+Q+R+S)
A	18.955	4.90	4.90	4.805	4.34	4.20	4.20	33.56 Mtr.
B	16.415	4.90	4.90	7.338	4.327	4.327	4.327	33.533 Mtr.
C	16.415	4.90	4.90	7.521	4.750	4.348	4.348	33.736 Mtr.
D	16.420	4.90	4.90	8.41	5.45	5.20	4.850	34.63 Mtr.



SECTION X1-X1



EXCAVATIONPLAN AT X-X



BAR BENDING SCHEDULE FOR FOUNDATION

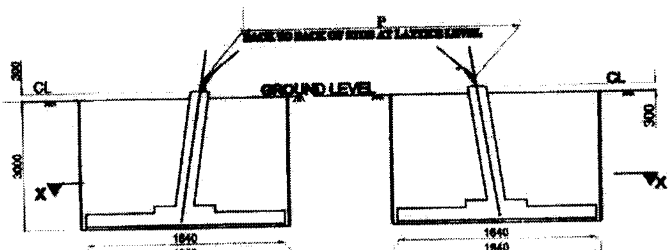
Project:	DESIGN OF RCC FOUNDATION							CLIENT :
B759	220 KV D/C DA+NT/3M/6M BE TOWER			DRY SOIL				RRVPN
BAR BENDING SCHEDULE								
BAR BENDING SKETCH	BAR DETAILS	Diameter (mm)	No. of bar per FDN (Nos.)	Length (mm)	Unit Weight (Kg/m)	Weight per Fdn (Kgs)	Weight Per Tower (Kgs)	
1640	PAD REINFORCEMENT. (A)	12	12	~~1640~~ 1640	0.89	~~16.45~~ 17.51	~~65.70~~ 70.65	
1640	PAD REINFORCEMENT. (B)	12	8	~~1792~~ 1592	0.89	~~12.76~~ 11.35	~~51.04~~ 45.39	
1060	PAD REINF. (C)	12	12	~~1570~~ 1672	0.89	~~16.75~~ 17.85	~~67.40~~ 71.42	
3125	CHIMNEY MAIN BAR(D)	16	8	3475	1.58	43.92	175.70	
300 × 300	CHIMNEY SQUARE SPACERS (E)	8	16	1350	0.39	8.42	33.70	
						Reinforcement / Tower =	~~393.6~~ 396.42	
						SAY	~~394.00~~ 397	

GENERALLY APPROVED
Subject to Observations vide letter No. 570 Date 23/5/18
SE (Proc.-I) XEn. AEn.
Rajasthan Rajya Vidyut Prasan Nigam
JAIPUR

TOWER TYPE DA							
TOWER SLOPE TAN ALPHA = 0.09577							
LEVEL	ALTITUDE	STUB	CG OF STUB	P	M	N	CLEAT DETAILS
NT	0	HT L 100X8	27.8	5600	5845	6649	HT 65x6 NO OF PAIRS 2, BOLTS/PAIR 4 16 Dia
+3.0m BE	3000	HT L 100X8	27.8	6075	6620	9362	
+6.0m BE	6000	HT L 100X8	27.8	6649	7194	10174	

QUANTITIES / TOWER		
EXCAVATION (MAX)	=	45.16 m³
CONCRETE M-20	=	4.94 m3
CONCRETE (1:3:6)	=	~~0.61 m³~~ 0.96
REINFORCEMENT	=	~~394 Kgs~~ 397

THE FOUNDATION HAS BEEN DESIGNED FOR		
TYPE OF SOIL	:	NDS
UNIT WEIGHT	:	1440 Kg/Cu. M
BEARING CAPACITY	:	25000 Kg/m²
ANGLE OF REPOSE	:	30 Deg
WATER TABLE	:	——



ELEVATION

ALL DIMENSIONS ARE IN mm

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 M20.
   Lean concrete Mix Grade (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 50mm unless otherwise specified.
8. This foundation is not suitable for unequal leg extensions.
9. Chairs are to be provided wherever required to hold top reinforcement in proper position.

REVISION NO	DESCRIPTION	DATE
3.	Revised as per client comments dated 01.11.2017 No. RVPN /SE/PROC-I/XEN-1/A-II/BN-3655/KEC/D.2506	
2.	Revised as per client comments dated 01.11.2017 No. RVPN /SE/PROC-I/XEN-1/A-II/BN-3655/KEC/D.2006	10.11.2017
1.	Revised as per client comments dated 22.08.2017 No. RVPN /SE/PROC-I/XEN-1/A-II/BN-3655/KEC/D.796	31.08.2017

KEC
KEC INTERNATIONAL LIMITED
TARDEO, MUMBAI 400036

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM Ltd.
JAIPUR, RAJASTHAN

TITLE:- FOUNDATION DETAILS FOR TOWER TYPE 'DA'+NT/3/6M BE EXT. EXT. IN NORMAL DRY SOIL

PROJECT:- DESIGN FABRICATION,GALVANIZING,TESTING & SUPPLY FOR 220kV & 132kV D/C & S/C TRANSMISSION LINE TOWERS.
220kV D/C DRY SOIL

	NAME	SIGN	DATE	SCALE : NTS	TT-DA
DRAWN	VSJ		16.06.2018	DRAWING NUMBER	SHEET NO. 10 OF 10
CHECKED	CMJ		16.06.2018	B759/DA+NT/3/6/FDN-01	REV. 02
APPROVED	CMJ		16.06.2018		