

KEC INTERNATIONAL LTD.
KURLA, BOMBAY-400-070

SHEET NO. 1 OF 3
DRG. NO. 402/GEN - 1

PURCHASER : NORTH EASTERN ELECTRIC POWER CORPN. LTD.
PROJECT : DOYANG TRANSMISSION PROJECT -
132 KV D.C. DOYANG-DIMAPUR LINE.
132 KV a/c Dimapur - Imphal Line
WORKS ORDER : 402 (SPECN. NO. ACE/ELECT/DT-3/85/3830-34)
SUBJECT : TOWER SPOTTING DATA.

Tower Type	AA Mkd. A.	BB Mkd. B	CC Mkd. C
1. Max. angle of Dev.	2°	30° / 0°	60° / D.E.
2. Vertical load limitations on weight span.	Max. (Min)	Max. (Min)	Max. (Min)
2.1 <u>Ground wire effect:</u>			
✓(a) Both spans	1000 (182)	1000(-1000)	1000 (-1000)
✓(b) One span	600 (109)	600 (-600)	600 (-600)
2.2 <u>Conductor effect:</u>			
✓(a) Both spans	1000 (182)	1000(-1000)	1000 (-1000)
✓(b) One span	600 (109)	600 (-600)	600 (-600)
3. <u>Weights.</u>			
3.1 <u>Ground wire effect:</u>			
✓(a) Both spans	428 (78)	428 (-428)	428 (-428)
✓(b) One span	257 (47)	257 (-257)	257 (-257)
3.2 <u>Conductor effect:</u>			
✓(a) Both spans	976 (178)	976 (-976)	976 (-976)
✓(b) One span	586 (107)	586 (-586)	586 (-586)

NORMAL SPAN = 304 M.
ALL SPANS IN METERS.
ALL LOADS IN KGS.

V. Khawly

20/01/70

DEEPAK KUMAR

Tower Type	AA Mtd. A 20°	BB Mtd. B 30°	CC Mtd. C 60°
4. Permissible sum of adjacent span for various deviation angle.	⁶⁰³ 20° - 849 10° - 844 0° - 835	300° - 800 290° - 881 280° - 962	600° - 800 590° - 878 580° - 952 570° - 1026
* 5. Individual span not greater than (from vertical separation consideration).	480 m.	511 m.	514 m.
6. Design Tension:	20°	30° / 0°	60° / D.E.
(a) Ground wire:			
1) 32° Full wind	1397	1350/1397	1210/1397
ii) ^{2.5°} 0° x 2/3 Full wind.	1483	1434/1484	1284/1484
(b) Conductor:			
1) 32° Full wind	1378	2662/2756	2387/2756
ii) ^{2.5°} 0° x 2/3 full wind.	1527	2950/3054	2645/3054
✓ 7. Way Leave Clearance.	13.50 Metres either side from the centre of line of tower. (As per IS-5613 (Part-II/Sec-2) 1976).		
✓ 8. Electrical clearances for Railway Crossing.	Inside Station (mm)	Outside Station Limits (mm).	
(a) For unelectrified track and tracks electrified on 1500 V/DC			
1) For Metre Narrow Gauge.	9800	7,300	
ii) For Broad Gauge	10,900	8,500	
(b) Tracks electrified on 25 KV. AC for Metre, narrow and broad gauge.	14,000	12,000	
9. Minimum clearance for power line to power line crossing.	3050 mm.		

The above values are indicated as specified in IS-5613 (PART-II- Sec.1) 1976.

10. Minimum ground clearance 6.1m

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28/07/2014

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DEEPAK KUMAR