



REDUNDANT TABLE				
REDUNDANT ITEM NO.	SECTION	MAX. LENGTH FOR L/R min=250	MAX. LENGTH FOR L/R med=250	MAX. LENGTH FOR L/R Kg. BENDING
1	M 40X40X4	1925	3025	1166
2	M 45X45X4	2175	3425	1495
3	H 45X45X4	2175	3425	1930
4	M 50X50X4	2425	3825	1869
5	H 50X50X4	2425	3825	2413
6	M 55X55X4	2650	4175	2213
7	H 55X55X4	2650	4175	2857
8	M 60X60X4	2950	4625	2737
9	H 60X60X4	2950	4625	3533
10	M 65X65X4	3150	4975	3110
11	H 65X65X4	3150	4975	4016
12	M 65X65X5	3150	4975	3888
13	H 65X65X5	3150	4975	5019
14	M 70X70X5	3400	5375	5019
15	H 70X70X5	3400	5375	5888
16	M 75X75X5	3650	5775	5293
17	H 75X75X5	3650	5775	6853
18	M 75X75X6	3650	5750	6280
19	H 75X75X6	3650	5750	8108
20	M 80X80X6	3900	6150	7178
21	H 80X80X6	3900	6150	9267
22	M 90X90X6	4375	6925	9122
23	H 90X90X6	4375	6925	11777
24	M 100X100X8	4875	7725	11365

MEMBER NO.	SECTION DESCRIPTION	BOLTS
M1	H L 150X150X15	12 DS
M2	H L 150X150X15	10 DS
M3	H L 150X150X12	10 DS
M4	H L 130X130X12	8 DS
M5	H L 130X130X12	8 DS
M6	H L 130X130X12	6 DS
M7	H L 100X100X10	--
M8	H L 100X100X10	--
M9	H L 100X100X10	6 SS
M10	H L 80X80X6	4 SS
M11	H L 150X150X15	12 DS
M12	H L 150X150X15	12 DS
M13	H L 150X150X15	12 DS
M14	H L 150X150X15	12 DS
M15	H L 150X150X15	12 DS
M16	H L 150X150X15	12 DS
M17	H L 150X150X15	12 DS
M18	H L 150X150X15	12 DS
M19	H L 150X150X15	12 DS
M20	H L 150X150X15	12 DS
M21	H L 150X150X15	12 DS

MEMBER NO.	SECTION DESCRIPTION	BOLTS
H27	H L 75X75X6	2 SS
H28	H L 70X70X5	2 SS
H29	H L 70X70X5	2 SS

MEMBER NO.	SECTION DESCRIPTION	BOLTS
D1	L 90X90X6	2 SS
D2	L 75X75X6	2 SS
D3	L 75X75X6	2 SS
D4	L 75X75X5	2 SS
D5	L 75X75X6	3 SS
D6	L 70X70X5	3 SS
D7	L 60X60X4	2 SS
D8	L 55X55X4	1 SS
D9	L 75X75X6	3 SS
D10	L 75X75X5	3 SS
D11	L 80X80X6	4 SS
D12	L 70X70X5	4 SS
D13	L 55X55X4	2 SS
D14	L 45X45X4	1 SS
D15	L 70X70X5	3 SS
D16	L 65X65X5	4 SS
D17	L 70X70X5	3 SS
D18	L 65X65X5	3 SS
D19	H L 45X45X4	2 SS
D20	L 40X40X4	1 SS
D21	L 60X60X4	2 SS
D22	L 60X60X4	2 SS
D23	L 50X50X4	2 SS
D24	L 60X60X4	2 SS
D25	L 60X60X4	2 SS
D26	L 55X55X4	2 SS
D27	L 55X55X4	2 SS
D28	L 50X50X4	2 SS
D29	L 50X50X4	2 SS
D30	L 80X80X6	2 SS
D31	L 80X80X6	2 SS
D32	L 80X80X6	2 SS
D33	L 80X80X6	2 SS
D34	L 80X80X6	2 SS
D35	L 90X90X6	2 SS
D36	L 80X80X6	2 SS
D37	L 80X80X6	2 SS
D38	L 80X80X6	2 SS
D39	L 80X80X6	2 SS
D42	L 80X80X6	2 SS
D43	L 80X80X6	2 SS
D44	JL 60X60X4	2 DS
D45	JL 60X60X4	2 DS
D46	L 75X75X6	2 SS
D47	L 75X75X5	2 SS
D48	L 70X70X5	2 SS
D49	L 70X70X5	2 SS
D50	JL 60X60X4	2 DS
D51	JL 60X60X4	2 DS
D52	L 80X80X6	2 SS
D53	L 75X75X6	2 SS
D54	L 70X70X5	2 SS
D55	L 70X70X5	2 SS
D56	JL 60X60X4	2 DS
D57	JL 60X60X4	2 DS

PEAK MEMBER	SECTION	16mm
P1	H L 80X80X6	4 SS

LOWER MEMBERS	SECTION	16mm
B1	H L 80X80X6	4 SS
B2	H L 90X90X6	4 SS
B3	H L 75X75X6	4 SS
B4	H L 90X90X6	4 SS
B5	H L 75X75X6	4 SS
B6	H L 75X75X6	4 SS

UPPER MEMBERS	SECTION	16mm
T1	H L 65X65X5	4 SS
T2	H L 75X75X6	4 SS
T3	H L 65X65X4	4 SS
T4	H L 75X75X6	4 SS
T5	H L 60X60X4	4 SS
T6	H L 65X65X6	4 SS

BELT MEMBER	SECTION	16mm
H1	H L 70X70X5	2 SS
H2	H L 70X70X5	2 SS
H3	H L 90X90X6	4 SS
H4	H L 80X80X6	3 SS
H5	H L 65X65X4	3 SS
H6	H L 55X55X4	3 SS
H7	H L 75X75X5	2 SS
H8	H L 60X60X4	2 SS
H9	H L 60X60X4	3 SS
H10	H L 50X50X4	2 SS
H11	H L 65X65X4	2 SS
H12	H L 50X50X4	2 SS
H13	H L 55X55X4	2 SS
H14	H L 75X75X5	2 SS
H15	H L 75X75X5	2 SS
H16	H L 70X70X5	2 SS
H17	H L 70X70X5	2 SS
H20	H L 70X70X5	2 SS
H21	H L 70X70X5	2 SS
H22	H L 80X80X6	2 SS
H23	H L 80X80X6	2 SS
H24	H L 70X70X5	2 SS
H25	H L 70X70X5	2 SS
H26	H L 75X75X6	2 SS

APPROVED VIDE "SMC" DRS NO. - 5083020/050.1/094 DATED 13/01/2014

AS BUILT

0	04.01.2017	AS BUILT	Z.F.Q	C.S.M.	R.L.W.
Revision	Date	Description	By	Checked By	Approved By

JYOTI STRUCTURES LIMITED.
MUMBAI, INDIA.

PURCHASER. KENYA ELECTRICITY TRANSMISSION COMPANY LIMITED (KETRACO)

JSL W.O.NO. J - 894 **CONTRACT NO.** KETRACO/PT/003/2012 **LOT-2**

PROJECT. Design , Supply & Installation Procurement of 132kV D/C Transmission Lines: Ishara - Kieni, Mwingi - Kitui - Wote - Sultan Hamud

CONSULTANT SMC

TITLE. DESIGN OUTLINE DIAGRAM FOR TOWER TYPE "132T60/132T90/132Ttrm" (30°-90°)/(0°-45°)DEV.

Drawn By: Checked By: Approved By: Scale: Drawing No. Sheet No. Revision

Q.Zohab C.S.Majgaonkar R.L.Wadkar 1 : 175 J 894/T60-90-Ttrm/DES-1 98 0