



L&T Construction

Power Transmission & Distribution

CLIENT :



BIHAR STATE POWER TRANSMISSION CO.LTD., PATNA

PROJECT :

PACKAGE - NIT 77 UNDER STATE PLAN [80:20], CONSTRUCTION OF :
(I) LILO OF BARH-PATNA 400 KV D/C (QUAD) TL AT BAKHTIYARPUR (LINE LENGTH 10RKM),
(II) 220 KV D/C BAKHTIYARPUR - SHEIKHPURA TL (ACSR ZEBRA) (LINE LENGTH - 51 RKM),
(III) 220 KV D/C BAKHTIYARPUR -HATHIDAH TL (ACSR ZEBRA) (LINE LENGTH -52 RKM) AND
(IV) 220 KV D/C BAKHTIYARPUR – FATHUA TL (ACSR ZEBRA) (LINE LENGTH - 28 RKM)

Spec. No. : **NIT no. 77/PR/BSPTCL/2018**

DRG. No. : **O18089-T-TL-8D-GA-0107**

BOM No. : **BOM/LE19D023/4DA/008**

NO OF SHEETS: 8

BILL OF MATERIAL

+9M BODY EXTN. FOR TOWER TYPE - "4DA"

400kV D/C QUAD ACSR MOOSE (WZ-4)

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQA9E	2675.874
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT. BOM/LE19D023/PQA9E = 1963.568 BOM/LE19D023/PQA9W = 0.664	1964.232
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQA9B	144.952
TOTAL WEIGHT OF STRUCTURE:	4785.058 Kgs

**SUCCESSFULLY TESTED AT L&T-TLTRS-KANCHIPURAM
ON 30th OF JULY 2019**

0	31.07.19	SUBMISSION FOR APPROVAL AFTER SUCCESSFUL TESTING			PU	BSR	CSR
REV.	DATE	DESCRIPTION			CHKD.	REVED.	APPD.
PREPARED BY		CHECKED BY	REVIEWED BY	APPROVED BY		DATE	
MBR		PU	BSR	CSR		31.07.19	

THIS IS PROPRIETARY ITEM AND DESIGN RIGHT IS STRICTLY RESERVED WITH BSPTCL UNDER NO CIRCUMSTANCES THIS DRAWING SHALL BE USED BY ANYBODY WITHOUT PRIOR PERMISSION FROM BSPTCL IN WRITING.

APPROVED

Signature
20/8/19

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidya Shawan, Patna-800021

Sk
20.08.19



LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
979, Mount-Poonamallee Road, Manapakkam,
Tamilnadu-600089, PHONE :044-22526000, FAX :044-22526059

Date: 31-Jul-2019

Page: 1 of 6

BILL OF MATERIAL

Order No : LE19D023 - Intra Kanchi R- TL -BSPTCL NIT-77

Bom No : BOM/LE19D023/PQA9E

Order Ref: REF/LE19D023

Sl.No	Part Code	Raw Material	Length Size (In MM)	Unit Wt (In KG)	Req Qty	Per piece wt	Total Wt	Per Piece Ass.Wt
BOM OF +9M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	77B4DA9000SH	L150X150X14H-E350A	5500.00	31.500	2	173.250	346.500	
2	77B4DA9001H	L150X150X14H-E350A	5500.00	31.500	2	173.250	346.500	
3	77B4DA9002SH	L150X150X14H-E350A	3743.00	31.500	2	117.905	235.810	
4	77B4DA9003H	L150X150X14H-E350A	3743.00	31.500	2	117.905	235.810	
5	77B4DA9004H	L120X120X10H-E350A	436.00	18.200	8	7.935	63.480	
6	77B4DA9005H	10MM PLATE H-E350A	110.00 X 436.00	78.500	16	3.765	60.240	
7	77B4DA9006LH	L90X90X6H-E350A	5665.00	8.200	2	46.453	92.906	
8	77B4DA9006RH	L90X90X6H-E350A	5665.00	8.200	2	46.453	92.906	
9	77B4DA9007LH	L90X90X6H-E350A	7000.00	8.200	2	57.400	114.800	
10	77B4DA9007RH	L90X90X6H-E350A	7000.00	8.200	2	57.400	114.800	
11	77B4DA9009LH	L70X70X5H-E350A	286.00	5.300	2	1.516	3.032	
12	77B4DA9009RH	L70X70X5H-E350A	286.00	5.300	2	1.516	3.032	
13	77B4DA9010H	5MM PLATE H-E350A	70.00 X 286.00	39.250	8	0.786	6.288	
14	77B4DA9011L	L45X45X4-E250A	1482.00	2.700	2	4.001	8.002	
15	77B4DA9011R	L45X45X4-E250A	1482.00	2.700	2	4.001	8.002	
16	77B4DA9012L	L50X50X4-E250A	2162.00	3.000	2	6.486	12.972	
17	77B4DA9012R	L50X50X4-E250A	2162.00	3.000	2	6.486	12.972	
18	77B4DA9013L	L65X65X4-E250A	2914.00	4.000	1	11.656	11.656	
19	77B4DA9013R	L65X65X4-E250A	2914.00	4.000	1	11.656	11.656	
20	77B4DA9013AL	L65X65X4-E250A	2914.00	4.000	1	11.656	11.656	
21	77B4DA9013AR	L65X65X4-E250A	2914.00	4.000	1	11.656	11.656	
22	77B4DA9014L	L45X45X4-E250A	1310.00	2.700	2	3.537	7.074	
23	77B4DA9014R	L45X45X4-E250A	1310.00	2.700	2	3.537	7.074	
24	77B4DA9015L	L50X50X4-E250A	3068.00	3.000	1	9.204	9.204	
25	77B4DA9015R	L50X50X4-E250A	3068.00	3.000	1	9.204	9.204	
26	77B4DA9015AL	L50X50X4-E250A	3068.00	3.000	1	9.204	9.204	
27	77B4DA9015AR	L50X50X4-E250A	3068.00	3.000	1	9.204	9.204	
28	77B4DA9016L	L45X45X4-E250A	1894.00	2.700	2	5.114	10.228	
29	77B4DA9016R	L45X45X4-E250A	1894.00	2.700	2	5.114	10.228	
30	77B4DA9017L	L65X65X4-E250A	4347.00	4.000	2	17.388	34.776	
31	77B4DA9017R	L65X65X4-E250A	4347.00	4.000	2	17.388	34.776	
32	77B4DA9018	5MM PLATE-E250A	120.00 X 187.00	39.250	4	0.881	3.524	
33	77B4DA9019L	L65X65X4-E250A	5535.00	4.000	2	22.140	44.280	

** -- Item Welded with another item

*** -- Item Assembled with another item

Subject: Bill of material for tower type not absolved of
the responsibility for correctness of the materials
supplied as per specification

Electrical Superintending Engineer
(Planning and Engineering)

Bihar State Power Corporation, Patna

Vidya, Patna, Bihar, India

20.08.19



LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
979, Mount-Poonamallee Road, Manapakkam,
Tamilnadu-600089, PHONE : 044-22526000, FAX : 044-22526059

Date: 31-Jul-2019

Page: 2 of 6

BILL OF MATERIAL

Order No : LE19D023 - Intra Kanchi R- TL -BSPTCL NIT-77

Bom No : BOM/LE19D023/PQA9E

Order Ref: REF/LE19D023

Sl.No	Part Code	Raw Material	Length Size (In MM)	Unit Wt (In KG)	Req Qty	Per piece wt	Total Wt	Per Piece Ass.Wt
34	77B4DA9019R	L65X65X4-E250A	5535.00	4.000	2	22.140	44.280	
35	77B4DA9020L	L50X50X4-E250A	1827.00	3.000	2	5.481	10.962	
36	77B4DA9020R	L50X50X4-E250A	1827.00	3.000	2	5.481	10.962	
37	77B4DA9021L	L55X55X4-E250A	2283.00	3.300	2	7.534	15.068	
38	77B4DA9021R	L55X55X4-E250A	2283.00	3.300	2	7.534	15.068	
39	77B4DA9022L	L45X45X4-E250A	1796.00	2.700	2	4.849	9.698	
40	77B4DA9022R	L45X45X4-E250A	1796.00	2.700	2	4.849	9.698	
41	77B4DA9023L	L45X45X4-E250A	3658.00	2.700	2	9.877	19.754	
42	77B4DA9023R	L45X45X4-E250A	3658.00	2.700	2	9.877	19.754	
43	77B4DA9024LH	L45X45X4H-E350A	1860.00	2.700	2	5.022	10.044	
44	77B4DA9024RH	L45X45X4H-E350A	1860.00	2.700	2	5.022	10.044	
45	77B4DA9025L	L45X45X4-E250A	2580.00	2.700	2	6.966	13.932	
46	77B4DA9025R	L45X45X4-E250A	2580.00	2.700	2	6.966	13.932	
47	77B4DA9026H	5MM PLATE H-E350A	103.00 X 120.00	39.250	4	0.485	1.940	
48	77B4DA9028	L75X75X6-E250A	3900.00	6.800	2	26.520	53.040	
49	77B4DA9029	L75X75X6-E250A	6639.00	6.800	2	45.145	90.290	
50	77B4DA9030	L75X75X6-E250A	3900.00	6.800	2	26.520	53.040	
51	77B4DA9031	L65X65X5-E250A	286.00	4.900	4	1.401	5.604	
52	77B4DA9032	5MM PLATE-E250A	60.00 X 286.00	39.250	8	0.674	5.392	
53	77B4DA9033	5MM PLATE-E250A	114.00 X 153.00	39.250	4	0.685	2.740	
54	77B4DA9034LH	L100X100X6H-E350A	5200.00	9.200	2	47.840	95.680	
55	77B4DA9034RH	L100X100X6H-E350A	5200.00	9.200	2	47.840	95.680	
56	77B4DA9035LH	L100X100X6H-E350A	6727.00	9.200	2	61.888	123.776	
57	77B4DA9035RH	L100X100X6H-E350A	6727.00	9.200	2	61.888	123.776	
58	77B4DA9037LH	L70X70X5H-E350A	316.00	5.300	2	1.675	3.350	
59	77B4DA9037RH	L70X70X5H-E350A	316.00	5.300	2	1.675	3.350	
60	77B4DA9038H	5MM PLATE H-E350A	70.00 X 316.00	39.250	8	0.868	6.944	
61	77B4DA9039L	L45X45X4-E250A	1310.00	2.700	2	3.537	7.074	
62	77B4DA9039R	L45X45X4-E250A	1310.00	2.700	2	3.537	7.074	
63	77B4DA9040L	L50X50X4-E250A	2112.00	3.000	2	6.336	12.672	
64	77B4DA9040R	L50X50X4-E250A	2112.00	3.000	2	6.336	12.672	
65	77B4DA9041L	L60X60X4-E250A	2570.00	3.700	2	9.509	19.018	
66	77B4DA9041R	L60X60X4-E250A	2570.00	3.700	2	9.509	19.018	
67	77B4DA9042L	L50X50X4-E250A	2822.00	3.000	2	8.466	16.932	

** -- Item Welded with another item
*** -- Item Assembled with another item

Subject to the condition that you are not absolved of
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supplied as per specification

Electrical Superintending Engineer
(Planning and Equipment)
Bihar State Power Corporation Ltd.
Vidya

20.08.19



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Tamilnadu-600089, PHONE :044-22526000, FAX :044-22526059

Date: 31-Jul-2019

Page: 3 of 6

BILL OF MATERIAL

Order No : LE19D023 - Intra Kanchi R- TL -BSPTCL NIT-77

Bom No : BOM/LE19D023/PQA9E

Order Ref: REF/LE19D023

Sl.No	Part Code	Raw Material	Length Size (In MM)	Unit Wt (In KG)	Req Qty	Per piece wt	Total Wt	Per Piece Ass.Wt
68	77B4DA9042R	L50X50X4-E250A	2822.00	3.000	2	8.466	16.932	
69	77B4DA9043L	L45X30X4-E250A	1241.00	2.200	2	2.730	5.460	
70	77B4DA9043R	L45X30X4-E250A	1241.00	2.200	2	2.730	5.460	
71	77B4DA9044L	L45X45X4-E250A	1897.00	2.700	2	5.122	10.244	
72	77B4DA9044R	L45X45X4-E250A	1897.00	2.700	2	5.122	10.244	
73	77B4DA9045L	L55X55X4-E250A	3829.00	3.300	2	12.636	25.272	
74	77B4DA9045R	L55X55X4-E250A	3829.00	3.300	2	12.636	25.272	
75	77B4DA9046L	L65X65X4-E250A	5147.00	4.000	2	20.588	41.176	
76	77B4DA9046R	L65X65X4-E250A	5147.00	4.000	2	20.588	41.176	
77	77B4DA9047L	L50X50X4-E250A	1610.00	3.000	2	4.830	9.660	
78	77B4DA9047R	L50X50X4-E250A	1610.00	3.000	2	4.830	9.660	
79	77B4DA9048L	L55X55X4-E250A	2190.00	3.300	2	7.227	14.454	
80	77B4DA9048R	L55X55X4-E250A	2190.00	3.300	2	7.227	14.454	
81	77B4DA9049L	L45X45X4-E250A	1797.00	2.700	2	4.852	9.704	
82	77B4DA9049R	L45X45X4-E250A	1797.00	2.700	2	4.852	9.704	
83	77B4DA9050L	L45X45X4-E250A	3678.00	2.700	2	9.931	19.862	
84	77B4DA9050R	L45X45X4-E250A	3678.00	2.700	2	9.931	19.862	
85	77B4DA9051LH	L45X45X4H-E350A	1645.00	2.700	2	4.442	8.884	
86	77B4DA9051RH	L45X45X4H-E350A	1645.00	2.700	2	4.442	8.884	
87	77B4DA9052L	L45X45X4-E250A	2450.00	2.700	2	6.615	13.230	
88	77B4DA9052R	L45X45X4-E250A	2450.00	2.700	2	6.615	13.230	
89	77B4DA9053H	5MM PLATE H-E350A	109.00 X 130.00	39.250	4	0.556	2.224	
90	77B4DA9055	L70X70X6-E250A	6750.00	6.300	2	42.525	85.050	
91	77B4DA9056	L70X70X6-E250A	5970.00	6.300	2	37.611	75.222	
92	77B4DA9057	L65X65X5-E250A	286.00	4.900	2	1.401	2.802	
93	77B4DA9058	5MM PLATE-E250A	60.00 X 286.00	39.250	4	0.674	2.696	
94	77B4DA9059	5MM PLATE-E250A	125.00 X 139.00	39.250	4	0.682	2.728	
95	77B4DA9060LH	L45X45X4H-E350A	1858.00	2.700	2	5.017	10.034	
96	77B4DA9060RH	L45X45X4H-E350A	1858.00	2.700	2	5.017	10.034	
97	77B4DA9061L	L45X45X4-E250A	3764.00	2.700	2	10.163	20.326	
98	77B4DA9061R	L45X45X4-E250A	3764.00	2.700	2	10.163	20.326	
99	77B4DA9062L	L45X45X4-E250A	3464.00	2.700	2	9.353	18.706	
100	77B4DA9062R	L45X45X4-E250A	3464.00	2.700	2	9.353	18.706	
101	77B4DA9063L	L60X60X4-E250A	5381.00	3.700	2	19.910	39.820	

APPROVED

Subject to the condition that you are not absolved of
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supplied as per specification

** -- Item Welded with another item
*** -- Item Assembled with another item

Electrical Superintending Engineer
(Planning and Engineering)

Bihar State Power Transmission Company Limited

26.08.19

Vidyut



LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
979, Mount-Poonamallee Road, Manapakkam,
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Date: 31-Jul-2019

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BILL OF MATERIAL

Order No : LE19D023 - Intra Kanchi R- TL -BSPTCL NIT-77

Bom No : BOM/LE19D023/PQA9E

Order Ref: REF/LE19D023

Sl.No	Part Code	Raw Material	Length Size (In MM)	Unit Wt (In KG)	Req Qty	Per piece wt	Total Wt	Per Piece Ass.Wt
102	77B4DA9063R	L60X60X4-E250A	5381.00	3.700	2	19.910	39.820	
103	77B4DA9064L	L55X55X4-E250A	5037.00	3.300	2	16.622	33.244	
104	77B4DA9064R	L55X55X4-E250A	5037.00	3.300	2	16.622	33.244	
105	77B4DA9065L	L65X65X4-E250A	3685.00	4.000	2	14.740	29.480	
106	77B4DA9065R	L65X65X4-E250A	3685.00	4.000	2	14.740	29.480	
107	77B4DA9065AL	L65X65X4-E250A	5486.00	4.000	2	21.944	43.888	
108	77B4DA9065AR	L65X65X4-E250A	5486.00	4.000	2	21.944	43.888	
109	77B4DA9066L	L60X60X4-E250A	3448.00	3.700	2	12.758	25.516	
110	77B4DA9066R	L60X60X4-E250A	3448.00	3.700	2	12.758	25.516	
111	77B4DA9066AL	L60X60X4-E250A	5078.00	3.700	2	18.789	37.578	
112	77B4DA9066AR	L60X60X4-E250A	5078.00	3.700	2	18.789	37.578	
113	77B4DA9067L	L45X45X4-E250A	3045.00	2.700	2	8.222	16.444	
114	77B4DA9067R	L45X45X4-E250A	3045.00	2.700	2	8.222	16.444	
115	77B4DA9068L	L45X30X4-E250A	1618.00	2.200	2	3.560	7.120	
116	77B4DA9068R	L45X30X4-E250A	1618.00	2.200	2	3.560	7.120	
117	77B4DA9069L	L45X45X4-E250A	3123.00	2.700	2	8.432	16.864	
118	77B4DA9069R	L45X45X4-E250A	3123.00	2.700	2	8.432	16.864	
119	77B4DA9070L	L45X45X4-E250A	1730.00	2.700	2	4.671	9.342	
120	77B4DA9070R	L45X45X4-E250A	1730.00	2.700	2	4.671	9.342	
121	77B4DA9071L	L45X30X4-E250A	1320.00	2.200	2	2.904	5.808	
122	77B4DA9071R	L45X30X4-E250A	1320.00	2.200	2	2.904	5.808	
123	77B4DA9072L	L45X45X4-E250A	1355.00	2.700	2	3.659	7.318	
124	77B4DA9072R	L45X45X4-E250A	1355.00	2.700	2	3.659	7.318	
125	77B4DA9073H	5MM PLATE H-E350A	110.00 X 145.00	39.250	4	0.626	2.504	
126	77B4DA9074L	5MM PLATE-E250A	127.00 X 168.00	39.250	2	0.837	1.674	
127	77B4DA9074R	5MM PLATE-E250A	127.00 X 168.00	39.250	2	0.837	1.674	
128	77B4DA9075L	5MM PLATE-E250A	155.00 X 207.00	39.250	2	1.259	2.518	
129	77B4DA9075R	5MM PLATE-E250A	155.00 X 207.00	39.250	2	1.259	2.518	
130	77B4DA9076	5MM PLATE-E250A	110.00 X 145.00	39.250	4	0.626	2.504	
131	77B4DA9077L	5MM PLATE-E250A	113.00 X 167.00	39.250	2	0.741	1.482	
132	77B4DA9077R	5MM PLATE-E250A	113.00 X 167.00	39.250	2	0.741	1.482	
133	77B4DA9078H	5MM PLATE H-E350A	110.00 X 145.00	39.250	4	0.626	2.504	
134	77B4DA9079L	5MM PLATE-E250A	127.00 X 173.00	39.250	2	0.862	1.724	
135	77B4DA9079R	5MM PLATE-E250A	127.00 X 173.00	39.250	2	0.862	1.724	

** -- Item Welded with another item

*** -- Item Assembled with another item

APPROVED
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supplied as per specification

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Corporation Limited

SK
20.08.19



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Date: 31-Jul-2019

Page: 5 of 6

BILL OF MATERIAL

Order No : LE19D023 - Intra Kanchi R- TL -BSPTCL NIT-77

Bom No : BOM/LE19D023/PQA9E

Order Ref: REF/LE19D023

Sl.No	Part Code	Raw Material	Length Size (In MM)	Unit Wt (In KG)	Req Qty	Per piece wt	Total Wt	Per Piece Ass.Wt
136	77B4DA9080L	5MM PLATE-E250A	162.00 X 212.00	39.250	2	1.348	2.696	
137	77B4DA9080R	5MM PLATE-E250A	162.00 X 212.00	39.250	2	1.348	2.696	
138	77B4DA9081	5MM PLATE-E250A	110.00 X 145.00	39.250	4	0.626	2.504	
139	77B4DA9082L	5MM PLATE-E250A	111.00 X 171.00	39.250	2	0.745	1.490	
140	77B4DA9082R	5MM PLATE-E250A	111.00 X 171.00	39.250	2	0.745	1.490	
141	77B4DA9083H	L70X70X5H-E350A	2450.00	5.300	2	12.985	25.970	
142	77B4DA9083AH	L70X70X5H-E350A	2450.00	5.300	2	12.985	25.970	
143	77B4DA9084H	L70X70X5H-E350A	5636.00	5.300	2	29.871	59.742	
144	77B4DA9084AH	L70X70X5H-E350A	5636.00	5.300	2	29.871	59.742	
145	77B4DA9085H	L65X65X5H-E350A	2250.00	4.900	2	11.025	22.050	
146	77B4DA9085AH	L65X65X5H-E350A	2250.00	4.900	2	11.025	22.050	
147	77B4DA9086H	L65X65X5H-E350A	5257.00	4.900	2	25.759	51.518	
148	77B4DA9086AH	L65X65X5H-E350A	5257.00	4.900	2	25.759	51.518	
149	77B4DA9087H	L45X45X4H-E350A	1629.00	2.700	2	4.398	8.796	
150	77B4DA9087AH	L45X45X4H-E350A	1629.00	2.700	2	4.398	8.796	
151	77B4DA9088H	L45X45X4H-E350A	1643.00	2.700	2	4.436	8.872	
152	77B4DA9088AH	L45X45X4H-E350A	1643.00	2.700	2	4.436	8.872	
153	77B4DA9089	L45X45X4-E250A	1260.00	2.700	2	3.402	6.804	
154	77B4DA9089A	L45X45X4-E250A	1260.00	2.700	2	3.402	6.804	
155	77B4DA9089B	L45X45X4-E250A	854.00	2.700	2	2.306	4.612	
156	77B4DA9089C	L45X45X4-E250A	854.00	2.700	2	2.306	4.612	
157	77B4DA9090	L45X45X4-E250A	1357.00	2.700	2	3.664	7.328	
158	77B4DA9090A	L45X45X4-E250A	1357.00	2.700	2	3.664	7.328	
159	77B4DA9090B	L45X45X4-E250A	853.00	2.700	2	2.303	4.606	
160	77B4DA9090C	L45X45X4-E250A	853.00	2.700	2	2.303	4.606	
161	77B4DA9091	L45X45X4-E250A	1103.00	2.700	2	2.978	5.956	
162	77B4DA9092	L45X45X4-E250A	1248.00	2.700	2	3.370	6.740	
163	77B4DA9093H	L65X65X5H-E350A	4861.00	4.900	2	23.819	47.638	
164	77B4DA9094H	L60X60X5H-E350A	4287.00	4.500	2	19.292	38.584	
165	77B4DA9095	L50X50X4-E250A	376.00	3.000	2	1.128	2.256	
166	77B4DA9096	L50X50X4-E250A	376.00	3.000	2	1.128	2.256	

Total Weight : 4639.442

Associated Parts

Part Code	Type of Association	Associated with	Total Weight
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** -- Item Welded with another item
*** -- Item Assembled with another item

APPROVED
Subject to the condition that you are not absolved of
the responsibility for correctness of the materials
supplied as per specification

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidya

20.08.19



LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
979, Mount-Poonamallee Road, Manapakkam,
Tamilnadu-600089, PHONE : 044-22526000, FAX : 044-22526059

Date: 31-Jul-2019

Page: 6 of 6

BILL OF MATERIAL

Order No : LE19D023 - Intra Kanchi R- TL -BSPTCL NIT-77

Bom No : BOM/LE19D023/PQA9E

Order Ref: REF/LE19D023

No Association Part

Raw Material Involved	Standard Material	Total Weight (In Kg)
BOM OF +9M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
10MM PLATE H-E350A	HT	60.240
5MM PLATE H-E350A	HT	22.404
5MM PLATE-E250A	MS	45.256
L100X100X6H-E350A	HT	438.912
L120X120X10H-E350A	HT	63.480
L150X150X14H-E350A	HT	1164.620
L45X30X4-E250A	MS	36.776
L45X45X4-E250A	MS	495.000
L45X45X4H-E350A	HT	93.260
L50X50X4-E250A	MS	167.724
L55X55X4-E250A	MS	176.076
L60X60X4-E250A	MS	243.864
L60X60X5H-E350A	HT	38.584
L65X65X4-E250A	MS	433.824
L65X65X5-E250A	MS	8.406
L65X65X5H-E350A	HT	194.774
L70X70X5H-E350A	HT	184.188
L70X70X6-E250A	MS	160.272
L75X75X6-E250A	MS	196.370
L90X90X6H-E350A	HT	415.412
Total		4639.442
	HT	2675.874
	MS	1963.568

APPROVED

Subject to the condition that you are not absolved of
the responsibility for correctness of the materials
supplied as per specification

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Corporation Limited
Vidyut Bhawan, Patna-800021

** -- Item Welded with another item
*** -- Item Assembled with another item

20.08.19



LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
979, Mount-Poonamallee Road, Manapakkam,
Tamilnadu-600089, PHONE : 044-22526000, FAX : 044-22526059

Date: 31-Jul-2019

Page: 1 of 1

BILL OF MATERIAL

Order No : LE19D023 - Intra Kanchi R- TL -BSPTCL NIT-77

Bom No : BOM/LE19D023/PQA9B

Order Ref: REF/LE19D023

Sl.No	Part Code	Raw Material	Length Size (In MM)	Unit Wt (In KG)	Req Qty	Per piece wt	Total Wt	Per Piece Ass.Wt
BOLTS & NUTS OF +9M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	PQA9B1	M16X35MM LONG (IS:12427)		0.119	364	0.119	43.316	
2	PQA9B2	M16X40MM LONG (IS:12427)		0.126	224	0.126	28.224	
3	PQA9B7	M16x175LG STEP BOLT (350D) 2N+1SP		0.374	40	0.374	14.960	
4	PQA9B3	M16X45MM LONG (IS:12427)		0.134	168	0.134	22.512	
5	PQA9B4	M16X50MM LONG (IS:12427)		0.142	16	0.142	2.272	
6	PQA9B5	M16X60MM LONG (IS:12427)		0.158	160	0.158	25.280	
7	PQA9B6	M16x3.5MM SPRING WASHER IS3063		0.009	932	0.009	8.388	
Total Weight :							144.952	

Associated Parts

Part Code	Type of Association	Associated with	Total Weight
No Association Part			

Raw Material Involved	Standard Material	Total Weight (In Kg)
BOLTS & NUTS OF +9M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
M16x175LG STEP BOLT(350D) 2N+1SP		14.960
M16x3.5MM SPRING WASHER IS3063		8.388
M16X35MM LONG (IS:12427)		43.316
M16X40MM LONG (IS:12427)		28.224
M16X45MM LONG (IS:12427)		22.512
M16X50MM LONG (IS:12427)		2.272
M16X60MM LONG (IS:12427)		25.280
Total		144.952

APPROVED

Subject to the condition that you are not absolved of
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supplied as per specification

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

** -- Item Welded with another item
*** -- Item Assembled with another item

Sk
20.08.19



LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
979, Mount-Poonamallee Road, Manapakkam,
Tamilnadu-600089, PHONE :044-22526000, FAX :044-22526059

Date: 31-Jul-2019

Page: 1 of 1

BILL OF MATERIAL

Order No : LE19D023 - Intra Kanchi R- TL -BSPTCL NIT-77

Bom No : BOM/LE19D023/PQA9W

Order Ref: REF/LE19D023

Sl.No	Part Code	Raw Material	Length Size (In MM)	Unit Wt (In KG)	Req Qty	Per piece wt	Total Wt	Per Piece Ass.Wt
PACK WASHERS OF +9M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	PQA9W1	M16x4MM ROUND PACK WASHER IS2016		0.014	8	0.014	0.112	
2	PQA9W2	M16x5MM ROUND PACK WASHER IS2016		0.018	12	0.018	0.216	
3	PQA9W3	M16x6MM ROUND PACK WASHER IS2016		0.021	16	0.021	0.336	
Total Weight :							0.664	

Associated Parts

Part Code	Type of Association	Associated with	Total Weight
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No Association Part

Raw Material Involved	Standard Material	Total Weight (In Kg)
PACK WASHERS OF +9M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
M16x4MM ROUND PACK WASHER IS2016		0.112
M16x5MM ROUND PACK WASHER IS2016		0.216
M16x6MM ROUND PACK WASHER IS2016		0.336
Total		0.664

APPROVED

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supplied as per specification

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Corporation Limited
Vidyut Bhawan, Patna-800021

** -- Item Welded with another item
*** -- Item Assembled with another item

Sk
20.08.19