



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-0105**

BOM No. : **BOM/LE19D023/4DA/005**

NO OF SHEETS: **9**

BILL OF MATERIAL

+3M BODY EXTN. (ATT. TO BB) FOR TOWER TYPE - "4DA"

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

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQA3E	3012.860
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT. BOM/LE19D023/PQA3E = 1876.744 BOM/LE19D023/PQA3W = 0.736	1877.480
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQA3B	158.428
TOTAL WEIGHT OF STRUCTURE:	5048.768 Kgs

APPROVED

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

22/10/19

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

22-10-19

0	22.08.19	SUBMISSION FOR APPROVAL AFTER PROTO			PU	BSR	CSR
REV.	DATE	DESCRIPTION			CHKD.	REVED.	APPD.
PREPARED BY		CHECKED BY	REVIEWED BY	APPROVED BY		DATE	
MBR		PU	BSR	CSR		22.08.19	

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.



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

Date: 22-Aug-2019

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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA3E

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 +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	77B4DA3000SH	L150X150X14H-E350A	6850.00	31.500	2	215.775	431.550	
2	77B4DA3001H	L150X150X14H-E350A	6850.00	31.500	2	215.775	431.550	
3	77B4DA3002SH	L150X150X14H-E350A	5481.00	31.500	2	172.652	345.304	
4	77B4DA3003H	L150X150X14H-E350A	5481.00	31.500	2	172.652	345.304	
5	77B4DA3004H	L120X120X10H-E350A	436.00	18.200	8	7.935	63.480	
6	77B4DA3005H	10MM PLATE H-E350A	110.00 X 436.00	78.500	16	3.765	60.240	
7	77B4DA3006LH	L90X90X6H-E350A	6450.00	8.200	2	52.890	105.780	
8	77B4DA3006RH	L90X90X6H-E350A	6450.00	8.200	2	52.890	105.780	
9	77B4DA3007LH	L90X90X6H-E350A	4100.00	8.200	2	33.620	67.240	
10	77B4DA3007RH	L90X90X6H-E350A	4100.00	8.200	2	33.620	67.240	
11	77B4DA3008LH	L90X90X6H-E350A	3794.00	8.200	2	31.111	62.222	
12	77B4DA3008RH	L90X90X6H-E350A	3794.00	8.200	2	31.111	62.222	
13	77B4DA3009LH	L70X70X5H-E350A	286.00	5.300	4	1.516	6.064	
14	77B4DA3009RH	L70X70X5H-E350A	286.00	5.300	4	1.516	6.064	
15	77B4DA3010H	5MM PLATE H-E350A	70.00 X 286.00	39.250	16	0.786	12.576	
16	77B4DA3011L	L45X45X4-E250A	832.00	2.700	2	2.246	4.492	
17	77B4DA3011R	L45X45X4-E250A	832.00	2.700	2	2.246	4.492	
18	77B4DA3012L	L45X45X4-E250A	1833.00	2.700	2	4.949	9.898	
19	77B4DA3012R	L45X45X4-E250A	1833.00	2.700	2	4.949	9.898	
20	77B4DA3013L	L50X50X4-E250A	1614.00	3.000	1	4.842	4.842	
21	77B4DA3013R	L50X50X4-E250A	1614.00	3.000	1	4.842	4.842	
22	77B4DA3013AL	L50X50X4-E250A	1614.00	3.000	1	4.842	4.842	
23	77B4DA3013AR	L50X50X4-E250A	1614.00	3.000	1	4.842	4.842	
24	77B4DA3014L	L50X50X4-E250A	2175.00	3.000	1	6.525	6.525	
25	77B4DA3014R	L50X50X4-E250A	2175.00	3.000	1	6.525	6.525	
26	77B4DA3014AL	L50X50X4-E250A	2175.00	3.000	1	6.525	6.525	
27	77B4DA3014AR	L50X50X4-E250A	2175.00	3.000	1	6.525	6.525	
28	77B4DA3015L	L60X60X4-E250A	2396.00	3.700	2	8.865	17.730	
29	77B4DA3015R	L60X60X4-E250A	2396.00	3.700	2	8.865	17.730	
30	77B4DA3016L	L55X55X4-E250A	2710.00	3.300	2	8.943	17.886	
31	77B4DA3016R	L55X55X4-E250A	2710.00	3.300	2	8.943	17.886	
32	77B4DA3017L	L65X65X5-E250A	3178.00	4.900	2	15.572	31.144	
33	77B4DA3017R	L65X65X5-E250A	3178.00	4.900	2	15.572	31.144	

APPROVED

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Electrical Superintending Engineer
(Planning and Engineering)

84 14



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Date: 22-Aug-2019

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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA3E

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	77B4DA3018	6MM PLATE-E250A	118.00 X 152.00	47.100	4	0.845	3.380	
35	77B4DA3019L	L65X65X4-E250A	3345.00	4.000	2	13.380	26.760	
36	77B4DA3019R	L65X65X4-E250A	3345.00	4.000	2	13.380	26.760	
37	77B4DA3020L	L50X50X4-E250A	2689.00	3.000	2	8.067	16.134	
38	77B4DA3020R	L50X50X4-E250A	2689.00	3.000	2	8.067	16.134	
39	77B4DA3021L	L55X55X4-E250A	2333.00	3.300	2	7.699	15.398	
40	77B4DA3021R	L55X55X4-E250A	2333.00	3.300	2	7.699	15.398	
41	77B4DA3022L	L55X55X4-E250A	4032.00	3.300	2	13.306	26.612	
42	77B4DA3022R	L55X55X4-E250A	4032.00	3.300	2	13.306	26.612	
43	77B4DA3023	6MM PLATE-E250A	138.00 X 162.00	47.100	4	1.053	4.212	
44	77B4DA3024L	L60X60X4-E250A	2461.00	3.700	2	9.106	18.212	
45	77B4DA3024R	L60X60X4-E250A	2461.00	3.700	2	9.106	18.212	
46	77B4DA3025L	L45X45X4-E250A	3985.00	2.700	2	10.760	21.520	
47	77B4DA3025R	L45X45X4-E250A	3985.00	2.700	2	10.760	21.520	
48	77B4DA3026LH	L50X50X4H-E350A	2103.00	3.000	2	6.309	12.618	
49	77B4DA3026RH	L50X50X4H-E350A	2103.00	3.000	2	6.309	12.618	
50	77B4DA3027L	L45X45X4-E250A	1822.00	2.700	2	4.919	9.838	
51	77B4DA3027R	L45X45X4-E250A	1822.00	2.700	2	4.919	9.838	
52	77B4DA3028L	L45X45X4-E250A	2425.00	2.700	2	6.548	13.096	
53	77B4DA3028R	L45X45X4-E250A	2425.00	2.700	2	6.548	13.096	
54	77B4DA3029	6MM PLATE-E250A	105.00 X 116.00	47.100	4	0.574	2.296	
55	77B4DA3030H	8MM PLATE H-E350A	105.00 X 289.00	62.800	2	1.906	3.812	
56	77B4DA3031	L70X70X5-E250A	5900.00	5.300	2	31.270	62.540	
57	77B4DA3032	L70X70X5-E250A	5172.00	5.300	2	27.412	54.824	
58	77B4DA3033	L60X60X5-E250A	286.00	4.500	2	1.287	2.574	
59	77B4DA3034	5MM PLATE-E250A	60.00 X 286.00	39.250	4	0.674	2.696	
60	77B4DA3035LH	L90X90X6H-E350A	6300.00	8.200	2	51.660	103.320	
61	77B4DA3035RH	L90X90X6H-E350A	6300.00	8.200	2	51.660	103.320	
62	77B4DA3036LH	L90X90X6H-E350A	3950.00	8.200	2	32.390	64.780	
63	77B4DA3036RH	L90X90X6H-E350A	3950.00	8.200	2	32.390	64.780	
64	77B4DA3037LH	L90X90X6H-E350A	3659.00	8.200	2	30.004	60.008	
65	77B4DA3037RH	L90X90X6H-E350A	3659.00	8.200	2	30.004	60.008	
66	77B4DA3038LH	L70X70X5H-E350A	286.00	5.300	4	1.516	6.064	
67	77B4DA3038RH	L70X70X5H-E350A	286.00	5.300	4	1.516	6.064	

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84.10.19



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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA3E

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	77B4DA3039H	5MM PLATE H-E350A	70.00 X 286.00	39.250	16	0.786	12.576	
69	77B4DA3040L	L45X45X4-E250A	750.00	2.700	2	2.025	4.050	
70	77B4DA3040R	L45X45X4-E250A	750.00	2.700	2	2.025	4.050	
71	77B4DA3041L	L45X45X4-E250A	1835.00	2.700	2	4.955	9.910	
72	77B4DA3041R	L45X45X4-E250A	1835.00	2.700	2	4.955	9.910	
73	77B4DA3042L	L45X45X4-E250A	1450.00	2.700	2	3.915	7.830	
74	77B4DA3042R	L45X45X4-E250A	1450.00	2.700	2	3.915	7.830	
75	77B4DA3043L	L50X50X4-E250A	2120.00	3.000	2	6.360	12.720	
76	77B4DA3043R	L50X50X4-E250A	2120.00	3.000	2	6.360	12.720	
77	77B4DA3044L	L60X60X4-E250A	2150.00	3.700	2	7.955	15.910	
78	77B4DA3044R	L60X60X4-E250A	2150.00	3.700	2	7.955	15.910	
79	77B4DA3045L	L55X55X4-E250A	2574.00	3.300	2	8.494	16.988	
80	77B4DA3045R	L55X55X4-E250A	2574.00	3.300	2	8.494	16.988	
81	77B4DA3046L	L65X65X5-E250A	2850.00	4.900	2	13.965	27.930	
82	77B4DA3046R	L65X65X5-E250A	2850.00	4.900	2	13.965	27.930	
83	77B4DA3047	6MM PLATE-E250A	149.00 X 172.00	47.100	4	1.207	4.828	
84	77B4DA3048L	L55X55X4-E250A	3120.00	3.300	2	10.296	20.592	
85	77B4DA3048R	L55X55X4-E250A	3120.00	3.300	2	10.296	20.592	
86	77B4DA3049L	L50X50X4-E250A	2684.00	3.000	2	8.052	16.104	
87	77B4DA3049R	L50X50X4-E250A	2684.00	3.000	2	8.052	16.104	
88	77B4DA3050L	L55X55X4-E250A	2122.00	3.300	2	7.003	14.006	
89	77B4DA3050R	L55X55X4-E250A	2122.00	3.300	2	7.003	14.006	
90	77B4DA3051L	L55X55X4-E250A	3720.00	3.300	2	12.276	24.552	
91	77B4DA3051R	L55X55X4-E250A	3720.00	3.300	2	12.276	24.552	
92	77B4DA3052	6MM PLATE-E250A	100.00 X 132.00	47.100	4	0.622	2.488	
93	77B4DA3053L	L55X55X4-E250A	2334.00	3.300	2	7.702	15.404	
94	77B4DA3053R	L55X55X4-E250A	2334.00	3.300	2	7.702	15.404	
95	77B4DA3054L	L45X45X4-E250A	3928.00	2.700	2	10.606	21.212	
96	77B4DA3054R	L45X45X4-E250A	3928.00	2.700	2	10.606	21.212	
97	77B4DA3055LH	L45X45X4H-E350A	1888.00	2.700	2	5.098	10.196	
98	77B4DA3055RH	L45X45X4H-E350A	1888.00	2.700	2	5.098	10.196	
99	77B4DA3056L	L45X45X4-E250A	1817.00	2.700	2	4.906	9.812	
100	77B4DA3056R	L45X45X4-E250A	1817.00	2.700	2	4.906	9.812	
101	77B4DA3057L	L45X45X4-E250A	2332.00	2.700	2	6.296	12.592	

APPROVED

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Electrical Superintending Engineer
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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA3E

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	77B4DA3057R	L45X45X4-E250A	2332.00	2.700	2	6.296	12.592	
103	77B4DA3058	6MM PLATE-E250A	100.00 X 104.00	47.100	4	0.490	1.960	
104	77B4DA3059	6MM PLATE-E250A	100.00 X 114.00	47.100	4	0.537	2.148	
105	77B4DA3060H	8MM PLATE H-E350A	100.00 X 283.00	62.800	2	1.777	3.554	
106	77B4DA3061	L65X65X4-E250A	5350.00	4.000	2	21.400	42.800	
107	77B4DA3062	L65X65X4-E250A	4575.00	4.000	2	18.300	36.600	
108	77B4DA3063	L60X60X5-E250A	286.00	4.500	2	1.287	2.574	
109	77B4DA3064	5MM PLATE-E250A	60.00 X 286.00	39.250	4	0.674	2.696	
110	77B4DA3065L	L45X30X4-E250A	1017.00	2.200	2	2.237	4.474	
111	77B4DA3065R	L45X30X4-E250A	1017.00	2.200	2	2.237	4.474	
112	77B4DA3066L	L45X45X4-E250A	2576.00	2.700	2	6.955	13.910	
113	77B4DA3066R	L45X45X4-E250A	2576.00	2.700	2	6.955	13.910	
114	77B4DA3067L	L45X45X4-E250A	2422.00	2.700	2	6.539	13.078	
115	77B4DA3067R	L45X45X4-E250A	2422.00	2.700	2	6.539	13.078	
116	77B4DA3068L	L45X45X4-E250A	3321.00	2.700	2	8.967	17.934	
117	77B4DA3068R	L45X45X4-E250A	3321.00	2.700	2	8.967	17.934	
118	77B4DA3069L	L45X45X4-E250A	3126.00	2.700	2	8.440	16.880	
119	77B4DA3069R	L45X45X4-E250A	3126.00	2.700	2	8.440	16.880	
120	77B4DA3070L	L50X50X4-E250A	5843.00	3.000	2	17.529	35.058	
121	77B4DA3070R	L50X50X4-E250A	5843.00	3.000	2	17.529	35.058	
122	77B4DA3071L	L45X45X4-E250A	5491.00	2.700	2	14.826	29.652	
123	77B4DA3071R	L45X45X4-E250A	5491.00	2.700	2	14.826	29.652	
124	77B4DA3072LH	L50X50X4H-E350A	2130.00	3.000	2	6.390	12.780	
125	77B4DA3072RH	L50X50X4H-E350A	2130.00	3.000	2	6.390	12.780	
126	77B4DA3073H	L50X50X4H-E350A	2073.00	3.000	4	6.219	24.876	
127	77B4DA3074L	L45X30X4-E250A	1068.00	2.200	2	2.350	4.700	
128	77B4DA3074R	L45X30X4-E250A	1068.00	2.200	2	2.350	4.700	
129	77B4DA3075L	L45X30X4-E250A	1135.00	2.200	2	2.497	4.994	
130	77B4DA3075R	L45X30X4-E250A	1135.00	2.200	2	2.497	4.994	
131	77B4DA3076L	L55X55X4-E250A	2992.00	3.300	2	9.874	19.748	
132	77B4DA3076R	L55X55X4-E250A	2992.00	3.300	2	9.874	19.748	
133	77B4DA3077L	L55X55X4-E250A	4645.00	3.300	2	15.329	30.658	
134	77B4DA3077R	L55X55X4-E250A	4645.00	3.300	2	15.329	30.658	
135	77B4DA3078L	L55X55X4-E250A	7053.00	3.300	2	23.275	46.550	

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

Bom No : BOM/LE19D023/PQA3E

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	77B4DA3078R	L55X55X4-E250A	7053.00	3.300	2	23.275	46.550	
137	77B4DA3079L	L50X50X4-E250A	2751.00	3.000	2	8.253	16.506	
138	77B4DA3079R	L50X50X4-E250A	2751.00	3.000	2	8.253	16.506	
139	77B4DA3080L	L55X55X4-E250A	2844.00	3.300	2	9.385	18.770	
140	77B4DA3080R	L55X55X4-E250A	2844.00	3.300	2	9.385	18.770	
141	77B4DA3081	L45X30X4-E250A	1505.00	2.200	4	3.311	13.244	
142	77B4DA3082L	L45X45X4-E250A	1582.00	2.700	2	4.271	8.542	
143	77B4DA3082R	L45X45X4-E250A	1582.00	2.700	2	4.271	8.542	
144	77B4DA3083	5MM PLATE-E250A	110.00 X 145.00	39.250	16	0.626	10.016	
145	77B4DA3084	5MM PLATE-E250A	110.00 X 145.00	39.250	16	0.626	10.016	
146	77B4DA3085	5MM PLATE-E250A	110.00 X 145.00	39.250	4	0.626	2.504	
147	77B4DA3086	5MM PLATE-E250A	110.00 X 145.00	39.250	4	0.626	2.504	
148	77B4DA3087L	5MM PLATE-E250A	210.00 X 220.00	39.250	2	1.813	3.626	
149	77B4DA3087R	5MM PLATE-E250A	210.00 X 220.00	39.250	2	1.813	3.626	
150	77B4DA3088L	5MM PLATE-E250A	215.00 X 222.00	39.250	2	1.873	3.746	
151	77B4DA3088R	5MM PLATE-E250A	215.00 X 222.00	39.250	2	1.873	3.746	
152	77B4DA3089L	5MM PLATE-E250A	110.00 X 172.00	39.250	2	0.743	1.486	
153	77B4DA3089R	5MM PLATE-E250A	110.00 X 172.00	39.250	2	0.743	1.486	
154	77B4DA3090L	5MM PLATE-E250A	110.00 X 174.00	39.250	2	0.751	1.502	
155	77B4DA3090R	5MM PLATE-E250A	110.00 X 174.00	39.250	2	0.751	1.502	
156	77B4DA3091	L50X50X4-E250A	383.00	3.000	2	1.149	2.298	
157	77B4DA3091A	L50X50X4-E250A	383.00	3.000	2	1.149	2.298	
158	77B4DA3092H	L65X65X4H-E350A	5712.00	4.000	2	22.848	45.696	
159	77B4DA3092AH	L65X65X4H-E350A	5712.00	4.000	2	22.848	45.696	
160	77B4DA3093H	L60X60X5H-E350A	6097.00	4.500	2	27.437	54.874	
161	77B4DA3093AH	L60X60X5H-E350A	6097.00	4.500	2	27.437	54.874	
162	77B4DA3094	L45X45X4-E250A	1266.00	2.700	2	3.418	6.836	
163	77B4DA3094A	L45X45X4-E250A	1266.00	2.700	2	3.418	6.836	
164	77B4DA3095	L45X45X4-E250A	1277.00	2.700	2	3.448	6.896	
165	77B4DA3095A	L45X45X4-E250A	1277.00	2.700	2	3.448	6.896	
166	77B4DA3096	L45X45X4-E250A	990.00	2.700	2	2.673	5.346	
167	77B4DA3096A	L45X45X4-E250A	990.00	2.700	2	2.673	5.346	
168	77B4DA3097	L45X45X4-E250A	1055.00	2.700	2	2.849	5.698	
169	77B4DA3097A	L45X45X4-E250A	1055.00	2.700	2	2.849	5.698	

APPROVED

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

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

Electrical Superintending Engineer
(Planning and Engineering)

Tamil Nadu State Power Transmission Corporation



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

Date: 22-Aug-2019

Page: 6 of 7

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA3E

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
170	77B4DA3098	L45X45X4-E250A	872.00	2.700	2	2.354	4.708	
171	77B4DA3099	L45X45X4-E250A	968.00	2.700	2	2.614	5.228	
172	77B4DA3100H	L65X65X4H-E350A	3738.00	4.000	2	14.952	29.904	
173	77B4DA3101H	L60X60X4H-E350A	3358.00	3.700	2	12.425	24.850	
Total Weight :							4889.604	

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)

BOM OF +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DA" (400kV D/C QUAD)

10MM PLATE H-E350A	HT	60.240
5MM PLATE H-E350A	HT	25.152
5MM PLATE-E250A	MS	51.152
6MM PLATE-E250A	MS	21.312
8MM PLATE H-E350A	HT	7.366
L120X120X10H-E350A	HT	63.480
L150X150X14H-E350A	HT	1553.708
L45X30X4-E250A	MS	41.580
L45X45X4-E250A	MS	507.980
L45X45X4H-E350A	HT	20.392
L50X50X4-E250A	MS	243.108
L50X50X4H-E350A	HT	75.672
L55X55X4-E250A	MS	534.328
L60X60X4-E250A	MS	103.704
L60X60X4H-E350A	HT	24.850
L60X60X5-E250A	MS	5.148
L60X60X5H-E350A	HT	109.748
L65X65X4-E250A	MS	132.920
L65X65X4H-E350A	HT	121.296
L65X65X5-E250A	MS	118.148
L70X70X5-E250A	MS	117.364
L70X70X5H-E350A	HT	24.256

APPROVED

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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



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

Date: 22-Aug-2019

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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA3E

Order Ref: REF/LE19D023

L90X90X6H-E350A

HT	926.700
Total	4889.604
HT	3012.860
MS	1876.744

APPROVED

Subject to the condition that you are not absolved of
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A

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

Sk
22.10.19

A

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



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

Date: 22-Aug-2019

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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA3B

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 +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	PQA3B1	M16X35MM LONG (IS:12427)		0.119	348	0.119	41.412	
2	PQA3B2	M16X40MM LONG (IS:12427)		0.126	288	0.126	36.288	
3	PQA3B3	M16X45MM LONG (IS:12427)		0.134	192	0.134	25.728	
4	PQA3B4	M16X50MM LONG (IS:12427)		0.142	24	0.142	3.408	
5	PQA3B5	M16X60MM LONG (IS:12427)		0.158	160	0.158	25.280	
6	PQA3B6	M16x3.5MM SPRING WASHER IS3063		0.009	1012	0.009	9.108	
7	PQA3B7	M16x175LG STEP BOLT (350D) 2N+1SP		0.374	46	0.374	17.204	
Total Weight :							158.428	

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 +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
M16x175LG STEP BOLT(350D) 2N+1SP		17.204
M16x3.5MM SPRING WASHER IS3063		9.108
M16X35MM LONG (IS:12427)		41.412
M16X40MM LONG (IS:12427)		36.288
M16X45MM LONG (IS:12427)		25.728
M16X50MM LONG (IS:12427)		3.408
M16X60MM LONG (IS:12427)		25.280
Total		158.428

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
Vidhyut Bhawan Patna-800021

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

SK
22.10.19





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

Date: 22-Aug-2019

Page: 1 of 1

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA3W

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 +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	PQA3W1	M16x4MM ROUND PACK WASHER IS2016		0.014	8	0.014	0.112	
2	PQA3W2	M16x5MM ROUND PACK WASHER IS2016		0.018	16	0.018	0.288	
3	PQA3W3	M16x6MM ROUND PACK WASHER IS2016		0.021	16	0.021	0.336	
Total Weight :							0.736	

Associated Parts

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

Raw Material Involved	Standard Material	Total Weight (In Kg)
PACK WASHERS OF +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
M16x4MM ROUND PACK WASHER IS2016		0.112
M16x5MM ROUND PACK WASHER IS2016		0.288
M16x6MM ROUND PACK WASHER IS2016		0.336
Total		0.736

APPROVED

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

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

Sk
22.10.19

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