



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-0104 (SHEET 1 TO 7)**

BOM No. : **BOM/LE19D023/4DA/004**

NO OF SHEETS: 18

BILL OF MATERIAL

BASIC BODY FOR TOWER TYPE - "4DA"

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

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQABS	9638.638
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT. BOM/LE19D023/PQABS = 2732.050 BOM/LE19D023/PQABW = 6.562	2738.612
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQABB	468.086
TOTAL WEIGHT OF STRUCTURE:	12845.336 Kgs

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 Bhawan, Patna-800021

Sk. 0.08.19

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

0	31.07.19	SUBMISSION FOR APPROVAL AFTER SUCCESSFUL TESTING			
REV.	DATE	DESCRIPTION			
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.



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

Date: 31-Jul-2019

Page: 1 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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 BASIC BODY FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	77B4DA120SH	L150X150X12H-E350A	4800.00	27.300	2	131.040	262.080	
2	77B4DA121H	L150X150X12H-E350A	4800.00	27.300	2	131.040	262.080	
3	77B4DA122SH	L150X150X12H-E350A	6650.00	27.300	2	181.545	363.090	
4	77B4DA123H	L150X150X12H-E350A	6650.00	27.300	2	181.545	363.090	
5	77B4DA124H	L110X110X10H-E350A	436.00	16.600	4	7.238	28.952	
6	77B4DA125H	10MM PLATE H-E350A	100.00 X 436.00	78.500	8	3.423	27.384	
7	77B4DA126	2MM PLATE-E250A	75.00 X 210.00	15.700	8	0.247	1.976	
8	77B4DA127H	L110X110X10H-E350A	436.00	16.600	4	7.238	28.952	
9	77B4DA128H	10MM PLATE H-E350A	100.00 X 436.00	78.500	8	3.423	27.384	
10	77B4DA129H	L90X90X6H-E350A	4850.00	8.200	2	39.770	79.540	
11	77B4DA129XH	L90X90X6H-E350A	4850.00	8.200	2	39.770	79.540	
12	77B4DA130H	L90X90X6H-E350A	4300.00	8.200	2	35.260	70.520	
13	77B4DA130XH	L90X90X6H-E350A	4300.00	8.200	2	35.260	70.520	
14	77B4DA131H	L80X80X6H-E350A	5160.00	7.300	2	37.668	75.336	
15	77B4DA131XH	L80X80X6H-E350A	5160.00	7.300	2	37.668	75.336	
16	77B4DA132H	L70X70X5H-E350A	286.00	5.300	8	1.516	12.128	
17	77B4DA133H	5MM PLATE H-E350A	70.00 X 286.00	39.250	16	0.786	12.576	
18	77B4DA134	L45X45X4-E250A	1137.00	2.700	4	3.070	12.280	
19	77B4DA135	L45X45X4-E250A	1715.00	2.700	4	4.631	18.524	
20	77B4DA136	L55X55X4-E250A	2223.00	3.300	4	7.336	29.344	
21	77B4DA137	L55X55X4-E250A	2350.00	3.300	4	7.755	31.020	
22	77B4DA139	L45X45X4-E250A	2340.00	2.700	4	6.318	25.272	
23	77B4DA140	L50X50X4-E250A	2070.00	3.000	2	6.210	12.420	
24	77B4DA140X	L50X50X4-E250A	2070.00	3.000	2	6.210	12.420	
25	77B4DA141	L45X45X4-E250A	3238.00	2.700	4	8.743	34.972	
26	77B4DA142	5MM PLATE-E250A	120.00 X 172.00	39.250	4	0.810	3.240	
27	77B4DA143	L50X50X4-E250A	3199.00	3.000	4	9.597	38.388	
28	77B4DA144	5MM PLATE-E250A	120.00 X 135.00	39.250	4	0.636	2.544	
29	77B4DA145	L50X50X4-E250A	3757.00	3.000	2	11.271	22.542	
30	77B4DA145X	L50X50X4-E250A	3757.00	3.000	2	11.271	22.542	
31	77B4DA146	L45X45X4-E250A	1488.00	2.700	2	4.018	8.036	
32	77B4DA146X	L45X45X4-E250A	1488.00	2.700	2	4.018	8.036	
33	77B4DA147	L45X45X4-E250A	2431.00	2.700	4	6.564	26.256	

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

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20.08.19



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Page: 2 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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	77B4DA148	L45X45X4-E250A	2516.00	2.700	2	6.793	13.586	
35	77B4DA148X	L45X45X4-E250A	2516.00	2.700	2	6.793	13.586	
36	77B4DA149	L45X45X4-E250A	965.00	2.700	4	2.606	10.424	
37	77B4DA150	5MM PLATE-E250A	111.00 X 120.00	39.250	4	0.523	2.092	
38	77B4DA151H	L45X45X4H-E350A	1499.00	2.700	2	4.047	8.094	
39	77B4DA151XH	L45X45X4H-E350A	1499.00	2.700	2	4.047	8.094	
40	77B4DA152H	L90X90X6H-E350A	4600.00	8.200	2	37.720	75.440	
41	77B4DA152XH	L90X90X6H-E350A	4600.00	8.200	2	37.720	75.440	
42	77B4DA153H	L90X90X6H-E350A	4100.00	8.200	2	33.620	67.240	
43	77B4DA153XH	L90X90X6H-E350A	4100.00	8.200	2	33.620	67.240	
44	77B4DA154H	L80X80X6H-E350A	5180.00	7.300	2	37.814	75.628	
45	77B4DA154XH	L80X80X6H-E350A	5180.00	7.300	2	37.814	75.628	
46	77B4DA155H	L70X70X5H-E350A	286.00	5.300	8	1.516	12.128	
47	77B4DA156H	5MM PLATE H-E350A	70.00 X 286.00	39.250	16	0.786	12.576	
48	77B4DA157	L45X30X4-E250A	1042.00	2.200	4	2.292	9.168	
49	77B4DA158	L45X45X4-E250A	1729.00	2.700	4	4.668	18.672	
50	77B4DA159	L50X50X4-E250A	2034.00	3.000	4	6.102	24.408	
51	77B4DA160	L55X55X4-E250A	2284.00	3.300	4	7.537	30.148	
52	77B4DA161	L45X45X4-E250A	2361.00	2.700	4	6.375	25.500	
53	77B4DA162	L45X45X4-E250A	1909.00	2.700	2	5.154	10.308	
54	77B4DA162X	L45X45X4-E250A	1909.00	2.700	2	5.154	10.308	
55	77B4DA163	L45X45X4-E250A	3071.00	2.700	4	8.292	33.168	
56	77B4DA164	5MM PLATE-E250A	120.00 X 170.00	39.250	4	0.801	3.204	
57	77B4DA165	L50X50X4-E250A	3221.00	3.000	4	9.663	38.652	
58	77B4DA166	L50X50X4-E250A	3470.00	3.000	2	10.410	20.820	
59	77B4DA166X	L50X50X4-E250A	3470.00	3.000	2	10.410	20.820	
60	77B4DA167	5MM PLATE-E250A	120.00 X 141.00	39.250	4	0.664	2.656	
61	77B4DA168	L45X45X4-E250A	1422.00	2.700	2	3.839	7.678	
62	77B4DA168X	L45X45X4-E250A	1422.00	2.700	2	3.839	7.678	
63	77B4DA169	L45X45X4-E250A	2427.00	2.700	4	6.553	26.212	
64	77B4DA170	L45X45X4-E250A	2375.00	2.700	2	6.413	12.826	
65	77B4DA170X	L45X45X4-E250A	2375.00	2.700	2	6.413	12.826	
66	77B4DA171	L45X45X4-E250A	962.00	2.700	2	2.597	5.194	
67	77B4DA171X	L45X45X4-E250A	962.00	2.700	2	2.597	5.194	

** -- Item Welded with another item

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Page: 3 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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	77B4DA172	L45X45X4-E250A	1373.00	2.700	2	3.707	7.414	
69	77B4DA172X	L45X45X4-E250A	1373.00	2.700	2	3.707	7.414	
70	77B4DA173	5MM PLATE-E250A	118.00 X 120.00	39.250	4	0.556	2.224	
71	77B4DA174H	L45X45X4H-E350A	1842.00	2.700	2	4.973	9.946	
72	77B4DA175	L50X50X4-E250A	4069.00	3.000	2	12.207	24.414	
73	77B4DA176	L45X45X4-E250A	3724.00	2.700	2	10.055	20.110	
74	77B4DA177	L60X60X4-E250A	5540.00	3.700	2	20.498	40.996	
75	77B4DA178	L55X55X4-E250A	5159.00	3.300	2	17.025	34.050	
76	77B4DA179H	5MM PLATE H-E350A	110.00 X 145.00	39.250	2	0.626	1.252	
77	77B4DA180	5MM PLATE-E250A	126.00 X 169.00	39.250	2	0.836	1.672	
78	77B4DA181	5MM PLATE-E250A	110.00 X 173.00	39.250	2	0.747	1.494	
79	77B4DA182H	5MM PLATE H-E350A	110.00 X 145.00	39.250	2	0.626	1.252	
80	77B4DA183	5MM PLATE-E250A	128.00 X 167.00	39.250	2	0.839	1.678	
81	77B4DA184	5MM PLATE-E250A	112.00 X 170.00	39.250	2	0.747	1.494	
82	77B4DA185H	L45X45X4H-E350A	1836.00	2.700	2	4.957	9.914	
83	77B4DA186	L45X45X4-E250A	3758.00	2.700	2	10.147	20.294	
84	77B4DA187	L50X50X4-E250A	4030.00	3.000	2	12.090	24.180	
85	77B4DA188	L55X55X4-E250A	5180.00	3.300	2	17.094	34.188	
86	77B4DA189	L60X60X4-E250A	5510.00	3.700	2	20.387	40.774	
87	77B4DA190H	5MM PLATE H-E350A	110.00 X 145.00	39.250	2	0.626	1.252	
88	77B4DA191	5MM PLATE-E250A	128.00 X 167.00	39.250	2	0.839	1.678	
89	77B4DA192	5MM PLATE-E250A	111.00 X 170.00	39.250	2	0.741	1.482	
90	77B4DA193H	5MM PLATE H-E350A	110.00 X 145.00	39.250	2	0.626	1.252	
91	77B4DA194	5MM PLATE-E250A	126.00 X 169.00	39.250	2	0.836	1.672	
92	77B4DA195	5MM PLATE-E250A	110.00 X 173.00	39.250	2	0.747	1.494	
93	77B4DA196H	L60X60X4H-E350A	2905.00	3.700	2	10.749	21.498	
94	77B4DA197H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
95	77B4DA198H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
96	77B4DA199H	L60X60X4H-E350A	2911.00	3.700	2	10.771	21.542	
97	77B4DA200H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
98	77B4DA201H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
99	77B4DA220SH	L150X150X12H-E350A	6794.00	27.300	2	185.476	370.952	
100	77B4DA221H	L150X150X12H-E350A	6794.00	27.300	2	185.476	370.952	
101	77B4DA222H	L110X110X10H-E350A	436.00	16.600	4	7.238	28.952	

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Page: 4 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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	77B4DA223H	10MM PLATE H-E350A	100.00 X 436.00	78.500	8	3.423	27.384	
103	77B4DA224H	L90X90X6H-E350A	5700.00	8.200	2	46.740	93.480	
104	77B4DA224XH	L90X90X6H-E350A	5700.00	8.200	2	46.740	93.480	
105	77B4DA225H	L90X90X6H-E350A	3131.00	8.200	2	25.674	51.348	
106	77B4DA225XH	L90X90X6H-E350A	3131.00	8.200	2	25.674	51.348	
107	77B4DA226H	L70X70X5H-E350A	286.00	5.300	4	1.516	6.064	
108	77B4DA227H	5MM PLATE H-E350A	70.00 X 286.00	39.250	8	0.786	6.288	
109	77B4DA228	L45X30X4-E250A	942.00	2.200	4	2.072	8.288	
110	77B4DA229	L50X50X4-E250A	2284.00	3.000	4	6.852	27.408	
111	77B4DA230	L45X45X4-E250A	1834.00	2.700	4	4.952	19.808	
112	77B4DA231	L45X45X4-E250A	2701.00	2.700	4	7.293	29.172	
113	77B4DA232	L45X45X4-E250A	2713.00	2.700	2	7.325	14.650	
114	77B4DA232X	L45X45X4-E250A	2713.00	2.700	2	7.325	14.650	
115	77B4DA233	L45X30X4-E250A	904.00	2.200	4	1.989	7.956	
116	77B4DA234	L45X45X4-E250A	1462.00	2.700	4	3.947	15.788	
117	77B4DA235H	L90X90X7H-E350A	4389.00	9.600	2	42.134	84.268	
118	77B4DA236H	8MM PLATE H-E350A	192.00 X 292.00	62.800	4	3.521	14.084	
119	77B4DA237H	L90X90X6H-E350A	5450.00	8.200	2	44.690	89.380	
120	77B4DA237XH	L90X90X6H-E350A	5450.00	8.200	2	44.690	89.380	
121	77B4DA238H	L90X90X6H-E350A	3236.00	8.200	2	26.535	53.070	
122	77B4DA238XH	L90X90X6H-E350A	3236.00	8.200	2	26.535	53.070	
123	77B4DA239H	L70X70X5H-E350A	286.00	5.300	4	1.516	6.064	
124	77B4DA240H	5MM PLATE H-E350A	70.00 X 286.00	39.250	8	0.786	6.288	
125	77B4DA241	L45X30X4-E250A	937.00	2.200	4	2.061	8.244	
126	77B4DA242	L50X50X4-E250A	2181.00	3.000	4	6.543	26.172	
127	77B4DA243	L45X45X4-E250A	1825.00	2.700	4	4.928	19.712	
128	77B4DA244	L45X45X4-E250A	2667.00	2.700	4	7.201	28.804	
129	77B4DA245	L45X45X4-E250A	2618.00	2.700	2	7.069	14.138	
130	77B4DA245X	L45X45X4-E250A	2618.00	2.700	2	7.069	14.138	
131	77B4DA246	L45X30X4-E250A	924.00	2.200	4	2.033	8.132	
132	77B4DA247	L45X45X4-E250A	1440.00	2.700	4	3.888	15.552	
133	77B4DA248AH	6MM PLATE H-E350A	175.00 X 233.00	47.100	4	1.921	7.684	
134	77B4DA248H	L70X70X6H-E350A	4628.00	6.300	2	29.156	58.312	
135	77B4DA249H	L45X45X4H-E350A	1788.00	2.700	2	4.828	9.656	

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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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	77B4DA250	L45X45X4-E250A	3426.00	2.700	2	9.250	18.500	
137	77B4DA251	L45X45X4-E250A	3717.00	2.700	2	10.036	20.072	
138	77B4DA252H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
139	77B4DA253	5MM PLATE-E250A	115.00 X 170.00	39.250	2	0.767	1.534	
140	77B4DA254H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
141	77B4DA255	5MM PLATE-E250A	116.00 X 167.00	39.250	2	0.760	1.520	
142	77B4DA256H	L45X45X4H-E350A	1789.00	2.700	2	4.830	9.660	
143	77B4DA257	L45X45X4-E250A	3465.00	2.700	2	9.356	18.712	
144	77B4DA258	L45X45X4-E250A	3683.00	2.700	2	9.944	19.888	
145	77B4DA259H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
146	77B4DA260	5MM PLATE-E250A	116.00 X 168.00	39.250	2	0.765	1.530	
147	77B4DA261H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
148	77B4DA262	5MM PLATE-E250A	115.00 X 170.00	39.250	2	0.767	1.534	
149	77B4DA263H	L45X45X4H-E350A	1888.00	2.700	2	5.098	10.196	
150	77B4DA264AH	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
151	77B4DA264H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
152	77B4DA265H	L45X45X4H-E350A	1881.00	2.700	2	5.079	10.158	
153	77B4DA266H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
154	77B4DA267H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
155	77B4DA280SH	L130X130X12H-E350A	3600.00	23.500	2	84.600	169.200	
156	77B4DA281H	L130X130X12H-E350A	3600.00	23.500	2	84.600	169.200	
157	77B4DA282SH	L110X110X10H-E350A	4832.00	16.600	2	80.211	160.422	
158	77B4DA283H	L110X110X10H-E350A	4832.00	16.600	2	80.211	160.422	
159	77B4DA284H	L110X110X8H-E350A	386.00	13.400	4	5.172	20.688	
160	77B4DA285H	8MM PLATE H-E350A	110.00 X 386.00	62.800	8	2.666	21.328	
161	77B4DA286H	L100X100X6H-E350A	356.00	9.200	4	3.275	13.100	
162	77B4DA287H	6MM PLATE H-E350A	100.00 X 356.00	47.100	8	1.677	13.416	
163	77B4DA288	2MM PLATE-E250A	80.00 X 170.00	15.700	8	0.214	1.712	
164	77B4DA289H	L90X90X7H-E350A	5460.00	9.600	2	52.416	104.832	
165	77B4DA289XH	L90X90X7H-E350A	5460.00	9.600	2	52.416	104.832	
166	77B4DA290	L45X45X4-E250A	1076.00	2.700	4	2.905	11.620	
167	77B4DA290A	L45X45X4-E250A	1919.00	2.700	2	5.181	10.362	
168	77B4DA291	L45X45X4-E250A	1292.00	2.700	2	3.488	6.976	
169	77B4DA291X	L45X45X4-E250A	1292.00	2.700	2	3.488	6.976	

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

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 Corporation Limited

20.08.19
Vidut Bhawan, Patna-800021



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

Date: 31-Jul-2019

Page: 6 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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	77B4DA292H	L75X75X6H-E350A	2230.00	6.800	2	15.164	30.328	
171	77B4DA292XH	L75X75X6H-E350A	2230.00	6.800	2	15.164	30.328	
172	77B4DA293	L45X45X4-E250A	1409.00	2.700	2	3.804	7.608	
173	77B4DA293X	L45X45X4-E250A	1409.00	2.700	2	3.804	7.608	
174	77B4DA294	L45X45X4-E250A	1085.00	2.700	4	2.930	11.720	
175	77B4DA295H	10MM PLATE H-E350A	140.00 X 264.00	78.500	4	2.901	11.604	
176	77B4DA296H	L110X110X8H-E350A	6141.00	13.400	2	82.289	164.578	
177	77B4DA296XH	L110X110X8H-E350A	6141.00	13.400	2	82.289	164.578	
178	77B4DA297	L45X45X4-E250A	1011.00	2.700	2	2.730	5.460	
179	77B4DA297X	L45X45X4-E250A	1011.00	2.700	2	2.730	5.460	
180	77B4DA298	L45X30X4-E250A	1453.00	2.200	2	3.197	6.394	
181	77B4DA298X	L45X30X4-E250A	1453.00	2.200	2	3.197	6.394	
182	77B4DA299H	L45X45X4H-E350A	1875.00	2.700	4	5.063	20.252	
183	77B4DA300	L45X45X4-E250A	1638.00	2.700	2	4.423	8.846	
184	77B4DA300X	L45X45X4-E250A	1638.00	2.700	2	4.423	8.846	
185	77B4DA301	L45X45X4-E250A	977.00	2.700	4	2.638	10.552	
186	77B4DA302H	10MM PLATE H-E350A	213.00 X 335.00	78.500	4	5.601	22.404	
187	77B4DA303H	L100X100X8H-E350A	3556.00	12.100	2	43.028	86.056	
188	77B4DA304H	L75X75X6H-E350A	5552.00	6.800	2	37.754	75.508	
189	77B4DA304XH	L75X75X6H-E350A	5552.00	6.800	2	37.754	75.508	
190	77B4DA305	L45X30X4-E250A	1080.00	2.200	4	2.376	9.504	
191	77B4DA305AH	L70X70X6H-E350A	204.00	6.300	2	1.285	2.570	
192	77B4DA305B	L45X45X4-E250A	1841.00	2.700	2	4.971	9.942	
193	77B4DA306	L45X45X4-E250A	1358.00	2.700	2	3.667	7.334	
194	77B4DA306X	L45X45X4-E250A	1358.00	2.700	2	3.667	7.334	
195	77B4DA307	L75X75X6-E250A	1991.00	6.800	2	13.539	27.078	
196	77B4DA307A	L75X75X6-E250A	1991.00	6.800	2	13.539	27.078	
197	77B4DA308	6MM PLATE-E250A	143.00 X 406.00	47.100	2	2.735	5.470	
198	77B4DA309	L45X45X4-E250A	1396.00	2.700	2	3.769	7.538	
199	77B4DA309X	L45X45X4-E250A	1396.00	2.700	2	3.769	7.538	
200	77B4DA310H	8MM PLATE H-E350A	140.00 X 233.00	62.800	4	2.049	8.196	
201	77B4DA311H	L90X90X7H-E350A	6086.00	9.600	2	58.426	116.852	
202	77B4DA311XH	L90X90X7H-E350A	6086.00	9.600	2	58.426	116.852	
203	77B4DA312	L45X30X4-E250A	1008.00	2.200	4	2.218	8.872	

APPROVED

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** -- Item Welded with another item

*** -- Item Assembled with another item

Electrical Superintending Engineer
(Planning and Engineering)

Bihar State Power Transmission Company Limited
Vidyut Anawan, Patna-800024

20.08.19



LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
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Date: 31-Jul-2019

Page: 7 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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
204	77B4DA313	L45X45X4-E250A	2109.00	2.700	4	5.694	22.776	
205	77B4DA314	L45X45X4-E250A	2322.00	2.700	4	6.269	25.076	
206	77B4DA315	L45X30X4-E250A	1123.00	2.200	2	2.471	4.942	
207	77B4DA315X	L45X30X4-E250A	1123.00	2.200	2	2.471	4.942	
208	77B4DA316H	8MM PLATE H-E350A	130.00 X 232.00	62.800	4	1.894	7.576	
209	77B4DA317H	L60X60X4H-E350A	3773.00	3.700	2	13.960	27.920	
210	77B4DA318H	L45X45X4H-E350A	1500.00	2.700	2	4.050	8.100	
211	77B4DA319H	5MM PLATE H-E350A	110.00 X 145.00	39.250	2	0.626	1.252	
212	77B4DA320H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
213	77B4DA321H	L45X45X4H-E350A	1511.00	2.700	2	4.080	8.160	
214	77B4DA322H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
215	77B4DA323H	5MM PLATE H-E350A	110.00 X 140.00	39.250	2	0.604	1.208	
216	77B4DA324H	L45X45X4H-E350A	1500.00	2.700	2	4.050	8.100	
217	77B4DA325H	5MM PLATE H-E350A	110.00 X 140.00	39.250	2	0.604	1.208	
218	77B4DA326H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
219	77B4DA327H	L45X45X4H-E350A	1488.00	2.700	2	4.018	8.036	
220	77B4DA328H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
221	77B4DA329H	5MM PLATE H-E350A	110.00 X 145.00	39.250	2	0.626	1.252	
222	77B4DA330H	L45X45X4H-E350A	1377.00	2.700	2	3.718	7.436	
223	77B4DA331H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
224	77B4DA332H	5MM PLATE H-E350A	110.00 X 160.00	39.250	2	0.691	1.382	
225	77B4DA333H	L45X45X4H-E350A	1398.00	2.700	2	3.775	7.550	
226	77B4DA334H	5MM PLATE H-E350A	110.00 X 160.00	39.250	2	0.691	1.382	
227	77B4DA335H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
228	77B4DA336H	L45X45X4H-E350A	1338.00	2.700	2	3.613	7.226	
229	77B4DA337H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
230	77B4DA338H	5MM PLATE H-E350A	110.00 X 160.00	39.250	2	0.691	1.382	
231	77B4DA339H	L45X45X4H-E350A	1324.00	2.700	2	3.575	7.150	
232	77B4DA340H	5MM PLATE H-E350A	110.00 X 160.00	39.250	2	0.691	1.382	
233	77B4DA341H	5MM PLATE H-E350A	110.00 X 150.00	39.250	2	0.648	1.296	
234	77B4DA360SH	L100X100X7H-E350A	5305.00	10.700	2	56.764	113.528	
235	77B4DA361H	L100X100X7H-E350A	5305.00	10.700	2	56.764	113.528	
236	77B4DA362SH	L75X75X6H-E350A	5033.00	6.800	2	34.224	68.448	
237	77B4DA363H	L75X75X6H-E350A	5033.00	6.800	2	34.224	68.448	

APPROVED

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Electrical Superintending Engineer
(Planning and Engineering)

State Power Transmission Company, Limited

20.08.19 Vidyut Bhawan, Patna-800021



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

Date: 31-Jul-2019

Page: 8 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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
238	77B4DA364H	L80X80X6H-E350A	376.00	7.300	4	2.745	10.980	
239	77B4DA365H	6MM PLATE H-E350A	70.00 X 376.00	47.100	8	1.240	9.920	
240	77B4DA366	3MM PLATE-E250A	70.00 X 185.00	23.550	8	0.305	2.440	
241	77B4DA367LH	L75X75X6H-E350A	2423.00	6.800	2	16.476	32.952	
242	77B4DA367RH	L75X75X6H-E350A	2423.00	6.800	2	16.476	32.952	
243	77B4DA368L	L45X45X4-E250A	867.00	2.700	2	2.341	4.682	
244	77B4DA368R	L45X45X4-E250A	867.00	2.700	2	2.341	4.682	
245	77B4DA369L	L45X30X4-E250A	1124.00	2.200	2	2.473	4.946	
246	77B4DA369R	L45X30X4-E250A	1124.00	2.200	2	2.473	4.946	
247	77B4DA370H	L75X75X6H-E350A	3387.00	6.800	2	23.032	46.064	
248	77B4DA370A	L45X45X4-E250A	1733.00	2.700	2	4.679	9.358	
249	77B4DA370B	5MM PLATE-E250A	125.00 X 205.00	39.250	2	1.006	2.012	
250	77B4DA371AH	8MM PLATE H-E350A	125.00 X 183.00	62.800	4	1.437	5.748	
251	77B4DA371H	L90X90X7H-E350A	4729.00	9.600	2	45.398	90.796	
252	77B4DA371XH	L90X90X7H-E350A	4729.00	9.600	2	45.398	90.796	
253	77B4DA372	L45X30X4-E250A	1155.00	2.200	4	2.541	10.164	
254	77B4DA373	L45X45X4-E250A	1769.00	2.700	4	4.776	19.104	
255	77B4DA374	L45X30X4-E250A	1277.00	2.200	2	2.809	5.618	
256	77B4DA374X	L45X30X4-E250A	1277.00	2.200	2	2.809	5.618	
257	77B4DA375H	8MM PLATE H-E350A	125.00 X 300.00	62.800	4	2.355	9.420	
258	77B4DA376H	L100X100X7H-E350A	4253.00	10.700	2	45.507	91.014	
259	77B4DA376XH	L100X100X7H-E350A	4253.00	10.700	2	45.507	91.014	
260	77B4DA377	L45X30X4-E250A	1032.00	2.200	2	2.270	4.540	
261	77B4DA377X	L45X30X4-E250A	1032.00	2.200	2	2.270	4.540	
262	77B4DA378	L45X30X4-E250A	1612.00	2.200	4	3.546	14.184	
263	77B4DA379	L45X30X4-E250A	1156.00	2.200	2	2.543	5.086	
264	77B4DA379X	L45X30X4-E250A	1156.00	2.200	2	2.543	5.086	
265	77B4DA380H	10MM PLATE H-E350A	262.00 X 575.00	78.500	4	11.826	47.304	
266	77B4DA381H	L90X90X7H-E350A	2700.00	9.600	2	25.920	51.840	
267	77B4DA382	L45X45X4-E250A	1077.00	2.700	2	2.908	5.816	
268	77B4DA382A	L45X45X4-E250A	980.00	2.700	2	2.646	5.292	
269	77B4DA383	L65X65X5-E250A	3149.00	4.900	2	15.430	30.860	
270	77B4DA383X	L65X65X5-E250A	3149.00	4.900	2	15.430	30.860	
271	77B4DA384H	L70X70X5H-E350A	2501.00	5.300	2	13.255	26.510	

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

APPROVED
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Technical Superintending Engineer
(Planning and Engineering)
Bina, State Power Transmission Corporation Limited
Vidvat Bhawan, Patna-800021

20/08/19



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Date: 31-Jul-2019

Page: 9 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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
272	77B4DA385LH	L90X90X6H-E350A	2505.00	8.200	2	20.541	41.082	
273	77B4DA385RH	L90X90X6H-E350A	2505.00	8.200	2	20.541	41.082	
274	77B4DA386L	L45X45X4-E250A	867.00	2.700	2	2.341	4.682	
275	77B4DA386R	L45X45X4-E250A	867.00	2.700	2	2.341	4.682	
276	77B4DA387L	L45X30X4-E250A	1157.00	2.200	2	2.545	5.090	
277	77B4DA387R	L45X30X4-E250A	1157.00	2.200	2	2.545	5.090	
278	77B4DA388	L90X90X6-E250A	3387.00	8.200	2	27.773	55.546	
279	77B4DA388A	L45X45X4-E250A	1725.00	2.700	2	4.658	9.316	
280	77B4DA388B	5MM PLATE-E250A	140.00 X 278.00	39.250	2	1.528	3.056	
281	77B4DA388C	L60X60X4-E250A	130.00	3.700	2	0.481	0.962	
282	77B4DA389H	8MM PLATE H-E350A	125.00 X 296.00	62.800	4	2.324	9.296	
283	77B4DA390H	L90X90X7H-E350A	4702.00	9.600	2	45.139	90.278	
284	77B4DA390XH	L90X90X7H-E350A	4702.00	9.600	2	45.139	90.278	
285	77B4DA391	L45X30X4-E250A	860.00	2.200	4	1.892	7.568	
286	77B4DA392	L45X30X4-E250A	1603.00	2.200	4	3.527	14.108	
287	77B4DA393	L45X45X4-E250A	1715.00	2.700	4	4.631	18.524	
288	77B4DA394	L45X30X4-E250A	914.00	2.200	4	2.011	8.044	
289	77B4DA395H	8MM PLATE H-E350A	125.00 X 307.00	62.800	4	2.410	9.640	
290	77B4DA396H	L90X90X7H-E350A	4213.00	9.600	2	40.445	80.890	
291	77B4DA396XH	L90X90X7H-E350A	4213.00	9.600	2	40.445	80.890	
292	77B4DA397	L45X30X4-E250A	1008.00	2.200	2	2.218	4.436	
293	77B4DA397X	L45X30X4-E250A	1008.00	2.200	2	2.218	4.436	
294	77B4DA398	L45X30X4-E250A	1583.00	2.200	4	3.483	13.932	
295	77B4DA399	L45X30X4-E250A	1157.00	2.200	2	2.545	5.090	
296	77B4DA399X	L45X30X4-E250A	1157.00	2.200	2	2.545	5.090	
297	77B4DA400H	8MM PLATE H-E350A	105.00 X 389.00	62.800	4	2.565	10.260	
298	77B4DA401	L55X55X4-E250A	2904.00	3.300	2	9.583	19.166	
299	77B4DA402	L45X45X4-E250A	1031.00	2.700	2	2.784	5.568	
300	77B4DA402A	L60X60X4-E250A	130.00	3.700	2	0.481	0.962	
301	77B4DA403	L65X65X4-E250A	3222.00	4.000	2	12.888	25.776	
302	77B4DA403X	L65X65X4-E250A	3222.00	4.000	2	12.888	25.776	
303	77B4DA404	L45X45X4-E250A	1034.00	2.700	2	2.792	5.584	
304	77B4DA405	6MM PLATE-E250A	105.00 X 199.00	47.100	4	0.984	3.936	
305	77B4DA406	L65X65X5-E250A	2501.00	4.900	2	12.255	24.510	

** -- Item Welded with another item

*** -- Item Assembled with another item

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

SK
20.08.19



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Page: 10 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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
306	77B4DA420LH	L110X110X8H-E350A	6856.00	13.400	2	91.870	183.740	
307	77B4DA420RH	L110X110X8H-E350A	6856.00	13.400	2	91.870	183.740	
308	77B4DA421LH	L75X75X6H-E350A	6769.00	6.800	2	46.029	92.058	
309	77B4DA421RH	L75X75X6H-E350A	6769.00	6.800	2	46.029	92.058	
310	77B4DA422LH	8MM PLATE H-E350A	238.00 X 425.00	62.800	2	6.352	12.704	
311	77B4DA422RH	8MM PLATE H-E350A	238.00 X 425.00	62.800	2	6.352	12.704	
312	77B4DA423L	L45X45X4-E250A	2480.00	2.700	2	6.696	13.392	
313	77B4DA423R	L45X45X4-E250A	2480.00	2.700	2	6.696	13.392	
314	77B4DA424L	L45X30X4-E250A	1261.00	2.200	2	2.774	5.548	
315	77B4DA424R	L45X30X4-E250A	1261.00	2.200	2	2.774	5.548	
316	77B4DA425L	L45X45X4-E250A	2233.00	2.700	2	6.029	12.058	
317	77B4DA425R	L45X45X4-E250A	2233.00	2.700	2	6.029	12.058	
318	77B4DA426L	L45X30X4-E250A	682.00	2.200	2	1.500	3.000	
319	77B4DA426R	L45X30X4-E250A	682.00	2.200	2	1.500	3.000	
320	77B4DA427L	L45X45X4-E250A	223.00	2.700	2	0.602	1.204	
321	77B4DA427R	L45X45X4-E250A	223.00	2.700	2	0.602	1.204	
322	77B4DA428	6MM PLATE-E250A	90.00 X 161.00	47.100	2	0.682	1.364	
323	77B4DA429H	L60X60X5H-E350A	6179.00	4.500	1	27.806	27.806	
324	77B4DA429XH	L60X60X5H-E350A	6179.00	4.500	1	27.806	27.806	
325	77B4DA430	L55X55X4-E250A	3101.00	3.300	2	10.233	20.466	
326	77B4DA430X	L55X55X4-E250A	3101.00	3.300	2	10.233	20.466	
327	77B4DA431	L45X30X4-E250A	1189.00	2.200	1	2.616	2.616	
328	77B4DA431A	L45X30X4-E250A	1189.00	2.200	1	2.616	2.616	
329	77B4DA431B	L45X30X4-E250A	1189.00	2.200	1	2.616	2.616	
330	77B4DA431C	L45X30X4-E250A	1189.00	2.200	1	2.616	2.616	
331	77B4DA432	L45X30X4-E250A	1067.00	2.200	1	2.347	2.347	
332	77B4DA432A	L45X30X4-E250A	1067.00	2.200	1	2.347	2.347	
333	77B4DA432B	L45X30X4-E250A	1067.00	2.200	1	2.347	2.347	
334	77B4DA432C	L45X30X4-E250A	1067.00	2.200	1	2.347	2.347	
335	77B4DA433	6MM PLATE-E250A	136.00 X 204.00	47.100	2	1.307	2.614	
336	77B4DA434H	6MM PLATE H-E350A	105.00 X 130.00	47.100	4	0.643	2.572	
337	77B4DA435AH	L55X55X4H-E350A	2536.00	3.300	2	8.369	16.738	
338	77B4DA435H	L55X55X4H-E350A	2536.00	3.300	2	8.369	16.738	
339	77B4DA436H	L50X50X4H-E350A	3091.00	3.000	2	9.273	18.546	

** -- Item Welded with another item

*** -- Item Assembled with another item

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

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

Vidhyut Bhawan, 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: 11 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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
340	77B4DA436XH	L50X50X4H-E350A	3091.00	3.000	2	9.273	18.546	
341	77B4DA437H	L45X45X4H-E350A	1647.00	2.700	2	4.447	8.894	
342	77B4DA438H	L90X90X6H-E350A	542.00	8.200	2	4.444	8.888	
343	77B4DA439H	L130X130X12H-E350A	222.00	23.500	4	5.217	20.868	
344	77B4DA441H	L50X50X4H-E350A	2289.00	3.000	2	6.867	13.734	
345	77B4DA442	L45X30X4-E250A	241.00	2.200	2	0.530	1.060	
346	77B4DA470LH	L110X110X8H-E350A	6357.00	13.400	2	85.184	170.368	
347	77B4DA470RH	L110X110X8H-E350A	6357.00	13.400	2	85.184	170.368	
348	77B4DA471LH	L75X75X6H-E350A	6271.00	6.800	2	42.643	85.286	
349	77B4DA471RH	L75X75X6H-E350A	6271.00	6.800	2	42.643	85.286	
350	77B4DA472LH	8MM PLATE H-E350A	303.00 X 435.00	62.800	2	8.277	16.554	
351	77B4DA472RH	8MM PLATE H-E350A	303.00 X 435.00	62.800	2	8.277	16.554	
352	77B4DA473L	L45X45X4-E250A	2306.00	2.700	2	6.226	12.452	
353	77B4DA473R	L45X45X4-E250A	2306.00	2.700	2	6.226	12.452	
354	77B4DA473AL	L45X30X4-E250A	1200.00	2.200	2	2.640	5.280	
355	77B4DA473AR	L45X30X4-E250A	1200.00	2.200	2	2.640	5.280	
356	77B4DA474L	L45X45X4-E250A	2069.00	2.700	2	5.586	11.172	
357	77B4DA474R	L45X45X4-E250A	2069.00	2.700	2	5.586	11.172	
358	77B4DA475L	L45X30X4-E250A	650.00	2.200	2	1.430	2.860	
359	77B4DA475R	L45X30X4-E250A	650.00	2.200	2	1.430	2.860	
360	77B4DA476L	L45X45X4-E250A	222.00	2.700	2	0.599	1.198	
361	77B4DA476R	L45X45X4-E250A	222.00	2.700	2	0.599	1.198	
362	77B4DA477	6MM PLATE-E250A	90.00 X 161.00	47.100	2	0.682	1.364	
363	77B4DA478	L90X90X6-E250A	4977.00	8.200	1	40.811	40.811	
364	77B4DA478X	L90X90X6-E250A	4977.00	8.200	1	40.811	40.811	
365	77B4DA478AH	L45X45X4H-E350A	1770.00	2.700	2	4.779	9.558	
366	77B4DA478BH	6MM PLATE H-E350A	123.00 X 130.00	47.100	2	0.753	1.506	
367	77B4DA479AH	6MM PLATE H-E350A	135.00 X 189.00	47.100	4	1.202	4.808	
368	77B4DA479H	L50X50X4H-E350A	3523.00	3.000	2	10.569	21.138	
369	77B4DA479XH	L50X50X4H-E350A	3523.00	3.000	2	10.569	21.138	
370	77B4DA480H	L45X45X4H-E350A	2690.00	2.700	2	7.263	14.526	
371	77B4DA480XH	L45X45X4H-E350A	2690.00	2.700	2	7.263	14.526	
372	77B4DA481	L45X45X4-E250A	1359.00	2.700	2	3.669	7.338	
373	77B4DA482H	L90X90X6H-E350A	494.00	8.200	2	4.051	8.102	

** -- 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 Corporation Limited
Vidhyut Bhawan, Patna-800 015

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: 12 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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
374	77B4DA483H	L130X130X12H-E350A	222.00	23.500	4	5.217	20.868	
375	77B4DA484	L45X45X4-E250A	229.00	2.700	2	0.618	1.236	
376	77B4DA485H	L45X45X4H-E350A	1832.00	2.700	2	4.946	9.892	
377	77B4DA510LH	L110X110X10H-E350A	6212.00	16.600	2	103.119	206.238	
378	77B4DA510RH	L110X110X10H-E350A	6212.00	16.600	2	103.119	206.238	
379	77B4DA511LH	L75X75X6H-E350A	6171.00	6.800	2	41.963	83.926	
380	77B4DA511RH	L75X75X6H-E350A	6171.00	6.800	2	41.963	83.926	
381	77B4DA512LH	8MM PLATE H-E350A	456.00 X 460.00	62.800	2	13.173	26.346	
382	77B4DA512RH	8MM PLATE H-E350A	456.00 X 460.00	62.800	2	13.173	26.346	
383	77B4DA513L	L70X70X5-E250A	2083.00	5.300	2	11.040	22.080	
384	77B4DA513R	L70X70X5-E250A	2083.00	5.300	2	11.040	22.080	
385	77B4DA514L	L45X45X4-E250A	1469.00	2.700	2	3.966	7.932	
386	77B4DA514R	L45X45X4-E250A	1469.00	2.700	2	3.966	7.932	
387	77B4DA515L	L45X45X4-E250A	2241.00	2.700	2	6.051	12.102	
388	77B4DA515R	L45X45X4-E250A	2241.00	2.700	2	6.051	12.102	
389	77B4DA516L	L45X30X4-E250A	794.00	2.200	2	1.747	3.494	
390	77B4DA516R	L45X30X4-E250A	794.00	2.200	2	1.747	3.494	
391	77B4DA516A	L45X45X4-E250A	255.00	2.700	4	0.689	2.756	
392	77B4DA516B	6MM PLATE-E250A	90.00 X 161.00	47.100	2	0.682	1.364	
393	77B4DA517L	8MM PLATE-E250A	229.00 X 268.00	62.800	2	3.854	7.708	
394	77B4DA517R	8MM PLATE-E250A	229.00 X 268.00	62.800	2	3.854	7.708	
395	77B4DA518S	L60X60X5-E250A	3184.00	4.500	2	14.328	28.656	
396	77B4DA518A	L60X60X5-E250A	3184.00	4.500	2	14.328	28.656	
397	77B4DA519L	L75X75X6-E250A	3880.00	6.800	2	26.384	52.768	
398	77B4DA519R	L75X75X6-E250A	3880.00	6.800	2	26.384	52.768	
399	77B4DA520	L45X45X4-E250A	1498.00	2.700	4	4.045	16.180	
400	77B4DA521L	L45X45X4-E250A	916.00	2.700	2	2.473	4.946	
401	77B4DA521R	L45X45X4-E250A	916.00	2.700	2	2.473	4.946	
402	77B4DA522L	L110X110X8-E250A	186.00	13.400	2	2.492	4.984	
403	77B4DA522R	L110X110X8-E250A	186.00	13.400	2	2.492	4.984	
404	77B4DA523	8MM PLATE-E250A	125.00 X 126.00	62.800	2	0.989	1.978	
405	77B4DA524	L75X75X5-E250A	100.00	5.700	4	0.570	2.280	
406	77B4DA525	L75X75X5-E250A	3758.00	5.700	1	21.421	21.421	
407	77B4DA525X	L75X75X5-E250A	3758.00	5.700	1	21.421	21.421	

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

Technical Superintending Engineer
(Planning and Engineering)

Binay State Power Transmission Corporation Limited
Vidyut Bhawan, Patna-800022

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: 13 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

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
408	77B4DA525AH	L45X45X4H-E350A	1342.00	2.700	1	3.623	3.623	
409	77B4DA525AXH	L45X45X4H-E350A	1342.00	2.700	1	3.623	3.623	
410	77B4DA525BH	6MM PLATE H-E350A	123.00 X 130.00	47.100	2	0.753	1.506	
411	77B4DA526H	6MM PLATE H-E350A	136.00 X 168.00	47.100	4	1.076	4.304	
412	77B4DA527H	L45X45X4H-E350A	2899.00	2.700	2	7.827	15.654	
413	77B4DA527XH	L45X45X4H-E350A	2899.00	2.700	2	7.827	15.654	
414	77B4DA528H	L45X45X4H-E350A	2375.00	2.700	2	6.413	12.826	
415	77B4DA528XH	L45X45X4H-E350A	2375.00	2.700	2	6.413	12.826	
416	77B4DA529	L45X45X4-E250A	1072.00	2.700	2	2.894	5.788	
417	77B4DA530H	L90X90X6H-E350A	398.00	8.200	2	3.264	6.528	
418	77B4DA531H	L130X130X12H-E350A	222.00	23.500	4	5.217	20.868	
419	77B4DA533H	L65X65X4H-E350A	3408.00	4.000	1	13.632	13.632	
420	77B4DA533XH	L65X65X4H-E350A	3408.00	4.000	1	13.632	13.632	
421	77B4DA535H	L65X65X4H-E350A	1906.00	4.000	2	7.624	15.248	
422	77B4DA536	L45X45X4-E250A	1074.00	2.700	2	2.900	5.800	
423	77B4DA537	L45X45X4-E250A	214.00	2.700	2	0.578	1.156	
424	77B4DA538	L45X45X4-E250A	221.00	2.700	2	0.597	1.194	
425	77B4DA538A	L45X45X4-E250A	1277.00	2.700	2	3.448	6.896	
426	77B4DA539	L45X45X4-E250A	226.00	2.700	2	0.610	1.220	
427	77B4DA539A	L45X45X4-E250A	978.00	2.700	2	2.641	5.282	
428	77B4DA540	6MM PLATE-E250A	140.00 X 150.00	47.100	2	0.989	1.978	
Total Weight :							12370.688	

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 BASIC BODY FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
10MM PLATE H-E350A	HT	163.464
2MM PLATE-E250A	MS	3.688
3MM PLATE-E250A	MS	2.440
5MM PLATE H-E350A	HT	79.104
5MM PLATE-E250A	MS	39.810

** -- 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

Technical Superintending Engineer
(Planning and Engineering)
Tamil Nadu State Power Transmission Company Limited
Viduth Bhawan, Palani-600021

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: 14 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

Order Ref: REF/LE19D023

6MM PLATE H-E350A	HT	45.716
6MM PLATE-E250A	MS	18.090
8MM PLATE H-E350A	HT	206.756
8MM PLATE-E250A	MS	17.394
L100X100X6H-E350A	HT	13.100
L100X100X7H-E350A	HT	409.084
L100X100X8H-E350A	HT	86.056
L110X110X10H-E350A	HT	820.176
L110X110X8-E250A	MS	9.968
L110X110X8H-E350A	HT	1058.060
L130X130X12H-E350A	HT	401.004
L150X150X12H-E350A	HT	1992.244
L45X30X4-E250A	MS	281.724
L45X45X4-E250A	MS	1159.972
L45X45X4H-E350A	HT	279.330
L50X50X4-E250A	MS	315.186
L50X50X4H-E350A	HT	93.102
L55X55X4-E250A	MS	218.848
L55X55X4H-E350A	HT	33.476
L60X60X4-E250A	MS	83.694
L60X60X4H-E350A	HT	70.960
L60X60X5-E250A	MS	57.312
L60X60X5H-E350A	HT	55.612
L65X65X4-E250A	MS	51.552
L65X65X4H-E350A	HT	42.512
L65X65X5-E250A	MS	86.230
L70X70X5-E250A	MS	44.160
L70X70X5H-E350A	HT	62.894
L70X70X6H-E350A	HT	60.882
L75X75X5-E250A	MS	45.122
L75X75X6-E250A	MS	159.692
L75X75X6H-E350A	HT	983.076
L80X80X6H-E350A	HT	312.908
L90X90X6-E250A	MS	137.168
L90X90X6H-E350A	HT	1265.718

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

APPROVED

Subject to the condition that you are absolved of
the responsibility for correctness of the materials
supplied as per specification

Principal Superintending Engineer
Planning and Engineering
State Power Transmission Company Limited
Vidyut Bhawan, Panna-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: 15 of 15

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABS

Order Ref: REF/LE19D023

L90X90X7H-E350A

HT	1103.404
Total	12370.688
HT	9638.638
MS	2732.050

APPROVED

Subject: Confirmation 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
Vidya Bhawan, Patna-800021

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

8k
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 2

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABB

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 BASIC BODY FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	PQABB1	M16X35MM LONG (IS:12427)		0.119	640	0.119	76.160	
2	PQABB2	M16X40MM LONG (IS:12427)		0.126	1026	0.126	129.276	
3	PQABB3	M16X45MM LONG (IS:12427)		0.134	474	0.134	63.516	
4	PQABB4	M16X50MM LONG (IS:12427)		0.142	264	0.142	37.488	
5	PQABB5	M16X55MM LONG (IS:12427)		0.150	128	0.150	19.200	
6	PQABB6	M16X60MM LONG (IS:12427)		0.158	328	0.158	51.824	
7	PQABB7	M16X65MM LONG (IS:12427)		0.164	12	0.164	1.968	
8	PQABB8	M16X70MM LONG (IS:12427)		0.173	6	0.173	1.038	
9	PQABB9	M16X75MM LONG (IS:12427)		0.180	2	0.180	0.360	
10	PQABB10	M16x3.5MM SPRING WASHER IS3063		0.009	2880	0.009	25.920	
11	PQABB11	M16x175LG STEP BOLT (350D) 2N+1SP		0.374	164	0.374	61.336	
Total Weight :							468.086	

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 BASIC BODY FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
M16x175LG STEP BOLT(350D) 2N+1SP		61.336
M16x3.5MM SPRING WASHER IS3063		25.920
M16X35MM LONG (IS:12427)		76.160
M16X40MM LONG (IS:12427)		129.276
M16X45MM LONG (IS:12427)		63.516
M16X50MM LONG (IS:12427)		37.488
M16X55MM LONG (IS:12427)		19.200
M16X60MM LONG (IS:12427)		51.824
M16X65MM LONG (IS:12427)		1.968
M16X70MM LONG (IS:12427)		1.038

** -- 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

Technical Superintendent Engineer
(Planning and Engineering)
Bina State Power Transmission Company Limited
Vidut Bhawan, 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: 2 of 2

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABB

Order Ref: REF/LE19D023

M16X75MM LONG (IS:12427)

Total

0.360

468.086

APPROVED

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


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

Sk
20.08.13

** -- 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: 31-Jul-2019

Page: 1 of 1

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQABW

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 BASIC BODY FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	PQABW4	M16x8MM ROUND PACK WASHER IS2016		0.028	33	0.028	0.924	
2	PQABW5	M16x10MM ROUND PACK WASHER IS2016		0.036	54	0.036	1.944	
3	PQABW1	M16x4MM ROUND PACK WASHER IS2016		0.014	2	0.014	0.028	
4	PQABW2	M16x5MM ROUND PACK WASHER IS2016		0.018	45	0.018	0.810	
5	PQABW3	M16x6MM ROUND PACK WASHER IS2016		0.021	136	0.021	2.856	
Total Weight :							6.562	

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 BASIC BODY FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
M16x10MM ROUND PACK WASHER IS2016		1.944
M16x4MM ROUND PACK WASHER IS2016		0.028
M16x5MM ROUND PACK WASHER IS2016		0.810
M16x6MM ROUND PACK WASHER IS2016		2.856
M16x8MM ROUND PACK WASHER IS2016		0.924
Total		6.562

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
Vidyut Anawan, Patna-800021

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

SK
20.08.19