



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-0306

BOM No. : BOM/LE19D023/4DC/007

NO OF SHEETS: 8

BILL OF MATERIAL

+6M BODY EXTN. FOR TOWER TYPE - "4DC".

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

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQC6E	3571.638
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT. BOM/LE19D023/PQC6E = 3043.260 BOM/LE19D023/PQC6W = 0.504	3043.764
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQC6B	200.164
TOTAL WEIGHT OF STRUCTURE:	6815.566 Kgs

APPROVED

Subject to the condition that you are not absolved of the 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

SK
22.10.19

0	07.09.19	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	07.09.19		

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: 07-Sep-2019

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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC6E

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 +6M BODY EXTN. FOR TOWER TYPE - "4DC" (400kV D/C QUAD)								
1	77B4DC6000SH	L150X150X12H-E350A	6376.00	27.300	2	174.065	348.130	
2	77B4DC6000AH	L150X150X12H-E350A	6376.00	27.300	2	174.065	348.130	
3	77B4DC6001H	L150X150X12H-E350A	6376.00	27.300	2	174.065	348.130	
4	77B4DC6001AH	L150X150X12H-E350A	6376.00	27.300	2	174.065	348.130	
5	77B4DC6002H	L120X120X10H-E350A	476.00	18.200	8	8.663	69.304	
6	77B4DC6002AH	L150X150X10H-E350A	476.00	22.900	8	10.900	87.200	
7	77B4DC6003H	14MM PLATE H-E350A	276.00 X 476.00	109.900	4	14.438	57.752	
8	77B4DC6004H	14MM PLATE H-E350A	110.00 X 476.00	109.900	8	5.754	46.032	
9	77B4DC6005H	14MM PLATE H-E350A	64.00 X 316.00	109.900	4	2.223	8.892	
10	77B4DC6006H	14MM PLATE H-E350A	110.00 X 316.00	109.900	20	3.820	76.400	
11	77B4DC6007H	14MM PLATE H-E350A	151.00 X 316.00	109.900	4	5.244	20.976	
12	77B4DC6008H	14MM PLATE H-E350A	287.00 X 316.00	109.900	4	9.967	39.868	
13	77B4DC6009H	L150X150X10H-E350A	335.00	22.900	8	7.672	61.376	
14	77B4DC6010H	14MM PLATE H-E350A	316.00 X 335.00	109.900	4	11.634	46.536	
15	77B4DC6011H	14MM PLATE H-E350A	130.00 X 335.00	109.900	8	4.786	38.288	
16	77B4DC6012L	L100X100X8-E250A	4681.00	12.100	2	56.640	113.280	
17	77B4DC6012R	L100X100X8-E250A	4681.00	12.100	2	56.640	113.280	
18	77B4DC6013L	L100X100X7-E250A	4681.00	10.700	2	50.087	100.174	
19	77B4DC6013R	L100X100X7-E250A	4681.00	10.700	2	50.087	100.174	
20	77B4DC6014L	L100X100X8-E250A	7000.00	12.100	2	84.700	169.400	
21	77B4DC6014R	L100X100X8-E250A	7000.00	12.100	2	84.700	169.400	
22	77B4DC6015L	L100X100X7-E250A	7000.00	10.700	2	74.900	149.800	
23	77B4DC6015R	L100X100X7-E250A	7000.00	10.700	2	74.900	149.800	
24	77B4DC6016L	L80X80X6-E250A	316.00	7.300	2	2.307	4.614	
25	77B4DC6016R	L80X80X6-E250A	316.00	7.300	2	2.307	4.614	
26	77B4DC6017L	L80X80X6-E250A	316.00	7.300	2	2.307	4.614	
27	77B4DC6017R	L80X80X6-E250A	316.00	7.300	2	2.307	4.614	
28	77B4DC6018	6MM PLATE-E250A	80.00 X 316.00	47.100	16	1.191	19.056	
29	77B4DC6020L	L60X60X4-E250A	1417.00	3.700	4	5.243	20.972	
30	77B4DC6020R	L60X60X4-E250A	1417.00	3.700	4	5.243	20.972	
31	77B4DC6021L	L50X50X4-E250A	1538.00	3.000	4	4.614	18.456	
32	77B4DC6021R	L50X50X4-E250A	1538.00	3.000	4	4.614	18.456	
33	77B4DC6022L	L80X80X6-E250A	2864.00	7.300	4	20.907	83.628	

APPROVED

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Electrical Superintending Engineer
(Planning and Engineering)



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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC6E

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	77B4DC6022R	L80X80X6-E250A	2864.00	7.300	4	20.907	83.628	
35	77B4DC6023L	L65X65X5-E250A	3113.00	4.900	4	15.254	61.016	
36	77B4DC6023R	L65X65X5-E250A	3113.00	4.900	4	15.254	61.016	
37	77B4DC6024L	L45X45X4-E250A	2130.00	2.700	4	5.751	23.004	
38	77B4DC6024R	L45X45X4-E250A	2130.00	2.700	4	5.751	23.004	
39	77B4DC6025	L45X30X4-E250A	1625.00	2.200	8	3.575	28.600	
40	77B4DC6026L	L90X90X6-E250A	5758.00	8.200	3	47.216	141.648	
41	77B4DC6026R	L90X90X6-E250A	5758.00	8.200	3	47.216	141.648	
42	77B4DC6026AL	L90X90X6-E250A	5758.00	8.200	1	47.216	47.216	
43	77B4DC6026AR	L90X90X6-E250A	5758.00	8.200	1	47.216	47.216	
44	77B4DC6027L	L75X75X5-E250A	5151.00	5.700	3	29.361	88.083	
45	77B4DC6027R	L75X75X5-E250A	5151.00	5.700	3	29.361	88.083	
46	77B4DC6027AL	L75X75X5-E250A	5151.00	5.700	1	29.361	29.361	
47	77B4DC6027AR	L75X75X5-E250A	5151.00	5.700	1	29.361	29.361	
48	77B4DC6028L	L60X60X4-E250A	2103.00	3.700	4	7.781	31.124	
49	77B4DC6028R	L60X60X4-E250A	2103.00	3.700	4	7.781	31.124	
50	77B4DC6029L	L45X30X4-E250A	1084.00	2.200	4	2.385	9.540	
51	77B4DC6029R	L45X30X4-E250A	1084.00	2.200	4	2.385	9.540	
52	77B4DC6030	L50X50X4-E250A	2333.00	3.000	8	6.999	55.992	
53	77B4DC6031L	L50X50X4-E250A	2844.00	3.000	4	8.532	34.128	
54	77B4DC6031R	L50X50X4-E250A	2844.00	3.000	4	8.532	34.128	
55	77B4DC6032	6MM PLATE-E250A	107.00 X 125.00	47.100	8	0.630	5.040	
56	77B4DC6033	10MM PLATE-E250A	192.00 X 518.00	78.500	4	7.807	31.228	
57	77B4DC6034H	L100X100X8H-E350A	3747.00	12.100	2	45.339	90.678	
58	77B4DC6035H	L100X100X7H-E350A	3747.00	10.700	2	40.093	80.186	
59	77B4DC6036H	L100X100X8H-E350A	5350.00	12.100	2	64.735	129.470	
60	77B4DC6037H	L100X100X7H-E350A	5350.00	10.700	2	57.245	114.490	
61	77B4DC6038H	L100X100X8H-E350A	4385.00	12.100	2	53.059	106.118	
62	77B4DC6039H	L100X100X7H-E350A	4385.00	10.700	2	46.920	93.840	
63	77B4DC6040H	L100X100X8H-E350A	3747.00	12.100	2	45.339	90.678	
64	77B4DC6041H	L100X100X7H-E350A	3747.00	10.700	2	40.093	80.186	
65	77B4DC6042H	L80X80X6H-E350A	316.00	7.300	6	2.307	13.842	
66	77B4DC6042AH	L80X80X6H-E350A	316.00	7.300	6	2.307	13.842	
67	77B4DC6043H	6MM PLATE H-E350A	80.00 X 316.00	47.100	24	1.191	28.584	

APPROVED

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



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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC6E

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	77B4DC6044H	L65X65X4H-E350A	3897.00	4.000	4	15.588	62.352	
69	77B4DC6045	L55X55X4-E250A	6833.00	3.300	8	22.549	180.392	
70	77B4DC6046	L50X50X4-E250A	2249.00	3.000	4	6.747	26.988	
71	77B4DC6046X	L50X50X4-E250A	2249.00	3.000	4	6.747	26.988	
72	77B4DC6047L	L55X55X4-E250A	4569.00	3.300	4	15.078	60.312	
73	77B4DC6047R	L55X55X4-E250A	4569.00	3.300	4	15.078	60.312	
74	77B4DC6048L	L45X45X4-E250A	1997.00	2.700	4	5.392	21.568	
75	77B4DC6048R	L45X45X4-E250A	1997.00	2.700	4	5.392	21.568	
76	77B4DC6049L	L50X50X4-E250A	4472.00	3.000	4	13.416	53.664	
77	77B4DC6049R	L50X50X4-E250A	4472.00	3.000	4	13.416	53.664	
78	77B4DC6050LH	6MM PLATE H-E350A	159.00 X 236.00	47.100	4	1.767	7.068	
79	77B4DC6050RH	6MM PLATE H-E350A	159.00 X 236.00	47.100	4	1.767	7.068	
80	77B4DC6051L	6MM PLATE-E250A	115.00 X 175.00	47.100	4	0.948	3.792	
81	77B4DC6051R	6MM PLATE-E250A	115.00 X 175.00	47.100	4	0.948	3.792	
82	77B4DC6052L	6MM PLATE-E250A	150.00 X 208.00	47.100	4	1.470	5.880	
83	77B4DC6052R	6MM PLATE-E250A	150.00 X 208.00	47.100	4	1.470	5.880	
84	77B4DC6053L	6MM PLATE-E250A	115.00 X 175.00	47.100	4	0.948	3.792	
85	77B4DC6053R	6MM PLATE-E250A	115.00 X 175.00	47.100	4	0.948	3.792	
86	77B4DC6054	6MM PLATE-E250A	163.00 X 165.00	47.100	4	1.267	5.068	
87	77B4DC6055H	L90X90X6H-E350A	443.00	8.200	4	3.633	14.532	
88	77B4DC6056	L70X70X5-E250A	3889.00	5.300	4	20.612	82.448	
89	77B4DC6057H	L75X75X5H-E350A	3758.00	5.700	4	21.421	85.684	
90	77B4DC6057XH	L75X75X5H-E350A	3758.00	5.700	4	21.421	85.684	
91	77B4DC6058H	L75X75X5H-E350A	6100.00	5.700	4	34.770	139.080	
92	77B4DC6058XH	L75X75X5H-E350A	6100.00	5.700	4	34.770	139.080	
93	77B4DC6059H	L75X75X5H-E350A	454.00	5.700	4	2.588	10.352	
94	77B4DC6060H	L50X50X4H-E350A	2086.00	3.000	4	6.258	25.032	
95	77B4DC6061H	L50X50X4H-E350A	2086.00	3.000	4	6.258	25.032	
96	77B4DC6062H	L45X45X4H-E350A	1626.00	2.700	4	4.390	17.560	
97	77B4DC6063H	L45X45X4H-E350A	1626.00	2.700	4	4.390	17.560	
98	77B4DC6064	L45X45X4-E250A	1080.00	2.700	4	2.916	11.664	
99	77B4DC6065	L45X45X4-E250A	1080.00	2.700	4	2.916	11.664	
100	77B4DC6066H	L45X45X4H-E350A	1465.00	2.700	4	3.956	15.824	

APPROVED

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

Sk



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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC6E

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
101	77B4DC6067H	L75X75X5H-E350A	5819.00	5.700	4	33.168	132.672	
Total Weight :							6614.898	

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 +6M BODY EXTN. FOR TOWER TYPE - "4DC" (400kV D/C QUAD)		
10MM PLATE-E250A	MS	31.228
14MM PLATE H-E350A	HT	334.744
6MM PLATE H-E350A	HT	42.720
6MM PLATE-E250A	MS	56.092
L100X100X7-E250A	MS	499.948
L100X100X7H-E350A	HT	368.702
L100X100X8-E250A	MS	565.360
L100X100X8H-E350A	HT	416.944
L120X120X10H-E350A	HT	69.304
L150X150X10H-E350A	HT	148.576
L150X150X12H-E350A	HT	1392.520
L45X30X4-E250A	MS	47.680
L45X45X4-E250A	MS	112.472
L45X45X4H-E350A	HT	50.944
L50X50X4-E250A	MS	322.464
L50X50X4H-E350A	HT	50.064
L55X55X4-E250A	MS	301.016
L60X60X4-E250A	MS	104.192
L65X65X4H-E350A	HT	62.352
L65X65X5-E250A	MS	122.032
L70X70X5-E250A	MS	82.448
L75X75X5-E250A	MS	234.888
L75X75X5H-E350A	HT	592.552
L80X80X6-E250A	MS	185.712
L80X80X6H-E350A	HT	27.684

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Electrical Superintending Engineer
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Bihar State Power Transmission Company Limited

OK

A



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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC6E

Order Ref: REF/LE19D023

L90X90X6-E250A	MS	377.728
L90X90X6H-E350A	HT	14.532
	Total	6614.898
	HT	3571.638
	MS	3043.260

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Vidyut Bhawan, Patna-800021

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22.10.19



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Page: 1 of 2

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC6B

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 +6M BODY EXTN. FOR TOWER TYPE - "4DC" (400kV D/C QUAD)								
1	PQC6B1	M16X35MM LONG (IS:12427)		0.119	208	0.119	24.752	
2	PQC6B2	M16X40MM LONG (IS:12427)		0.126	278	0.126	35.028	
3	PQC6B3	M16X45MM LONG (IS:12427)		0.134	234	0.134	31.356	
4	PQC6B4	M16X50MM LONG (IS:12427)		0.142	212	0.142	30.104	
5	PQC6B5	M16X55MM LONG (IS:12427)		0.150	48	0.150	7.200	
6	PQC6B6	M16X60MM LONG (IS:12427)		0.158	64	0.158	10.112	
7	PQC6B7	M16X65MM LONG (IS:12427)		0.164	16	0.164	2.624	
8	PQC6B8	M16X70MM LONG (IS:12427)		0.173	48	0.173	8.304	
9	PQC6B9	M16X75MM LONG (IS:12427)		0.180	160	0.180	28.800	
10	PQC6B10	M16x3.5MM SPRING WASHER IS3063		0.009	1268	0.009	11.412	
11	PQC6B11	M16x175LG STEP BOLT (350D) 2N+1SP		0.374	28	0.374	10.472	
Total Weight :							200.164	

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 +6M BODY EXTN. FOR TOWER TYPE - "4DC" (400kV D/C QUAD)		
M16x175LG STEP BOLT(350D) 2N+1SP		10.472
M16x3.5MM SPRING WASHER IS3063		11.412
M16X35MM LONG (IS:12427)		24.752
M16X40MM LONG (IS:12427)		35.028
M16X45MM LONG (IS:12427)		31.356
M16X50MM LONG (IS:12427)		30.104
M16X55MM LONG (IS:12427)		7.200
M16X60MM LONG (IS:12427)		10.112
M16X65MM LONG (IS:12427)		2.624
M16X70MM LONG (IS:12427)		8.304

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(Signature)

Electrical Supervising Engineer
(Planning and Engineering)

Tamil Nadu State Power Transmission Company Limited
Viduth Bhawan, Patna-800021

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

8k
22.10.19

(Signature)



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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC6B

Order Ref: REF/LE19D023

M16X75MM LONG (IS:12427)

28.800

Total

200.164

APPROVED

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

A
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



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

Date: 07-Sep-2019

Page: 1 of 1

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC6W

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 +6M BODY EXTN. FOR TOWER TYPE - "4DC" (400kV D/C QUAD)								
1	PQC6W2	M16x6MM ROUND PACK WASHER IS2016		0.021	8	0.021	0.168	
2	PQC6W3	M16x8MM ROUND PACK WASHER IS2016		0.028	8	0.028	0.224	
3	PQC6W1	M16x4MM ROUND PACK WASHER IS2016		0.014	8	0.014	0.112	
Total Weight :							0.504	

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 +6M BODY EXTN. FOR TOWER TYPE - "4DC" (400kV D/C QUAD)		
M16x4MM ROUND PACK WASHER IS2016		0.112
M16x6MM ROUND PACK WASHER IS2016		0.168
M16x8MM ROUND PACK WASHER IS2016		0.224
Total		0.504

APPROVED

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

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

8k
22/10/19

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