



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-0406**

BOM No. : **BOM/LE19D023/4DD/007**

NO OF SHEETS: **8**

BILL OF MATERIAL

+6M BODY EXTN. FOR TOWER TYPE - "4DD/DE"

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

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQD6E	5186.796
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT. BOM/LE19D023/PQD6E = 3341.030 BOM/LE19D023/PQD6W = 9.214	3350.244
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQD6B	277.552
TOTAL WEIGHT OF STRUCTURE:	8814.592 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

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/PQD6E

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 - "4DD/DE" (400kV D/C QUAD)								
1	77B4DD6000AH	L150X150X18H-E350A	6394.00	40.100	2	256.399	512.798	
2	77B4DD6000SH	L150X150X18H-E350A	6394.00	40.100	2	256.399	512.798	
3	77B4DD6001AH	L150X150X18H-E350A	6394.00	40.100	2	256.399	512.798	
4	77B4DD6001H	L150X150X18H-E350A	6394.00	40.100	2	256.399	512.798	
5	77B4DD6002H	L150X150X12H-E350A	476.00	27.300	8	12.995	103.960	
6	77B4DD6002AH	L150X150X10H-E350A	476.00	22.900	8	10.900	87.200	
7	77B4DD6003H	14MM PLATE H-E350A	316.00 X 476.00	109.900	4	16.531	66.124	
8	77B4DD6004H	14MM PLATE H-E350A	130.00 X 476.00	109.900	8	6.801	54.408	
9	77B4DD6005H	14MM PLATE H-E350A	110.00 X 316.00	109.900	20	3.820	76.400	
10	77B4DD6006H	14MM PLATE H-E350A	171.00 X 316.00	109.900	4	5.939	23.756	
11	77B4DD6007H	14MM PLATE H-E350A	145.00 X 316.00	109.900	4	5.036	20.144	
12	77B4DD6008H	L150X150X10H-E350A	409.00	22.900	8	9.366	74.928	
13	77B4DD6009H	14MM PLATE H-E350A	316.00 X 409.00	109.900	4	14.204	56.816	
14	77B4DD6010H	14MM PLATE H-E350A	130.00 X 409.00	109.900	8	5.843	46.744	
15	77B4DD6011LH	L90X90X7H-E350A	5281.00	9.600	2	50.698	101.396	
16	77B4DD6011RH	L90X90X7H-E350A	5281.00	9.600	2	50.698	101.396	
17	77B4DD6012LH	L90X90X7H-E350A	5284.00	9.600	2	50.726	101.452	
18	77B4DD6012RH	L90X90X7H-E350A	5284.00	9.600	2	50.726	101.452	
19	77B4DD6013L	L90X90X6-E250A	5281.00	8.200	2	43.304	86.608	
20	77B4DD6013R	L90X90X6-E250A	5281.00	8.200	2	43.304	86.608	
21	77B4DD6014L	L90X90X6-E250A	5284.00	8.200	2	43.329	86.658	
22	77B4DD6014R	L90X90X6-E250A	5284.00	8.200	2	43.329	86.658	
23	77B4DD6015LH	L90X90X7H-E350A	7000.00	9.600	2	67.200	134.400	
24	77B4DD6015RH	L90X90X7H-E350A	7000.00	9.600	2	67.200	134.400	
25	77B4DD6016LH	L90X90X7H-E350A	7000.00	9.600	2	67.200	134.400	
26	77B4DD6016RH	L90X90X7H-E350A	7000.00	9.600	2	67.200	134.400	
27	77B4DD6017L	L90X90X6-E250A	7000.00	8.200	2	57.400	114.800	
28	77B4DD6017R	L90X90X6-E250A	7000.00	8.200	2	57.400	114.800	
29	77B4DD6018L	L90X90X6-E250A	7000.00	8.200	2	57.400	114.800	
30	77B4DD6018R	L90X90X6-E250A	7000.00	8.200	2	57.400	114.800	
31	77B4DD6019LH	L75X75X6H-E350A	316.00	6.800	4	2.149	8.596	
32	77B4DD6019RH	L75X75X6H-E350A	316.00	6.800	4	2.149	8.596	
33	77B4DD6020L	L70X70X5-E250A	316.00	5.300	4	1.675	6.700	

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



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Date: 22-Aug-2019

Page: 2 of 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQD6E

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	77B4DD6020R	L70X70X5-E250A	316.00	5.300	4	1.675	6.700	
35	77B4DD6021H	6MM PLATE H-E350A	166.00 X 316.00	47.100	4	2.471	9.884	
36	77B4DD6022	6MM PLATE-E250A	166.00 X 316.00	47.100	4	2.471	9.884	
37	77B4DD6023H	14MM PLATE H-E350A	80.00 X 316.00	109.900	4	2.778	11.112	
38	77B4DD6024H	14MM PLATE H-E350A	80.00 X 316.00	109.900	4	2.778	11.112	
39	77B4DD6025L	L90X90X6-E250A	3064.00	8.200	4	25.125	100.500	
40	77B4DD6025R	L90X90X6-E250A	3064.00	8.200	4	25.125	100.500	
41	77B4DD6025AL	L50X50X4-E250A	1595.00	3.000	4	4.785	19.140	
42	77B4DD6025AR	L50X50X4-E250A	1595.00	3.000	4	4.785	19.140	
43	77B4DD6025B	6MM PLATE-E250A	101.00 X 115.00	47.100	8	0.547	4.376	
44	77B4DD6025C	8MM PLATE-E250A	50.00 X 101.00	62.800	8	0.317	2.536	
45	77B4DD6026	8MM PLATE-E250A	129.00 X 154.00	62.800	8	1.248	9.984	
46	77B4DD6026A	6MM PLATE-E250A	68.00 X 129.00	47.100	8	0.413	3.304	
47	77B4DD6027L	L75X75X5-E250A	3254.00	5.700	4	18.548	74.192	
48	77B4DD6027R	L75X75X5-E250A	3254.00	5.700	4	18.548	74.192	
49	77B4DD6028L	L45X45X4-E250A	2130.00	2.700	4	5.751	23.004	
50	77B4DD6028R	L45X45X4-E250A	2130.00	2.700	4	5.751	23.004	
51	77B4DD6028A	L45X45X4-E250A	1577.00	2.700	8	4.258	34.064	
52	77B4DD6029L	L100X100X6-E250A	6189.00	9.200	3	56.939	170.817	
53	77B4DD6029R	L100X100X6-E250A	6189.00	9.200	3	56.939	170.817	
54	77B4DD6029AL	L100X100X6-E250A	6189.00	9.200	1	56.939	56.939	
55	77B4DD6029AR	L100X100X6-E250A	6189.00	9.200	1	56.939	56.939	
56	77B4DD6030	8MM PLATE-E250A	128.00 X 139.00	62.800	8	1.117	8.936	
57	77B4DD6030A	6MM PLATE-E250A	68.00 X 123.00	47.100	8	0.394	3.152	
58	77B4DD6031L	L80X80X6-E250A	3257.00	7.300	3	23.776	71.328	
59	77B4DD6031R	L80X80X6-E250A	3257.00	7.300	3	23.776	71.328	
60	77B4DD6031AL	L80X80X6-E250A	3257.00	7.300	1	23.776	23.776	
61	77B4DD6031AR	L80X80X6-E250A	3257.00	7.300	1	23.776	23.776	
62	77B4DD6031BL	L45X45X4-E250A	1543.00	2.700	4	4.166	16.664	
63	77B4DD6031BR	L45X45X4-E250A	1543.00	2.700	4	4.166	16.664	
64	77B4DD6032	L45X45X4-E250A	2143.00	2.700	8	5.786	46.288	
65	77B4DD6033L	L55X55X4-E250A	2945.00	3.300	4	9.719	38.876	
66	77B4DD6033R	L55X55X4-E250A	2945.00	3.300	4	9.719	38.876	
67	77B4DD6034L	L45X45X4-E250A	2349.00	2.700	4	6.342	25.368	

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/PQD6E

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	77B4DD6034R	L45X45X4-E250A	2349.00	2.700	4	6.342	25.368	
69	77B4DD6035L	L45X45X4-E250A	2448.00	2.700	4	6.610	26.440	
70	77B4DD6035R	L45X45X4-E250A	2448.00	2.700	4	6.610	26.440	
71	77B4DD6035AL	L45X45X4-E250A	1192.00	2.700	4	3.218	12.872	
72	77B4DD6035AR	L45X45X4-E250A	1192.00	2.700	4	3.218	12.872	
73	77B4DD6036	6MM PLATE-E250A	135.00 X 135.00	47.100	8	0.858	6.864	
74	77B4DD6037	6MM PLATE-E250A	110.00 X 135.00	47.100	8	0.699	5.592	
75	77B4DD6038H	14MM PLATE H-E350A	170.00 X 534.00	109.900	4	9.977	39.908	
76	77B4DD6039H	L110X110X8H-E350A	6600.00	13.400	2	88.440	176.880	
77	77B4DD6040	L100X100X7-E250A	6600.00	10.700	2	70.620	141.240	
78	77B4DD6041H	L110X110X8H-E350A	5440.00	13.400	2	72.896	145.792	
79	77B4DD6042	L100X100X7-E250A	5440.00	10.700	2	58.208	116.416	
80	77B4DD6043H	L110X110X8H-E350A	6600.00	13.400	2	88.440	176.880	
81	77B4DD6044	L100X100X7-E250A	6600.00	10.700	2	70.620	141.240	
82	77B4DD6045A	L75X75X6-E250A	346.00	6.800	4	2.353	9.412	
83	77B4DD6045H	L90X90X6H-E350A	346.00	8.200	4	2.837	11.348	
84	77B4DD6046A	6MM PLATE-E250A	75.00 X 346.00	47.100	8	1.222	9.776	
85	77B4DD6046H	6MM PLATE H-E350A	90.00 X 346.00	47.100	8	1.467	11.736	
86	77B4DD6047H	L65X65X5H-E350A	4177.00	4.900	4	20.467	81.868	
87	77B4DD6048	L50X50X4-E250A	2300.00	3.000	4	6.900	27.600	
88	77B4DD6048X	L50X50X4-E250A	2300.00	3.000	4	6.900	27.600	
89	77B4DD6049	L55X55X4-E250A	5180.00	3.300	8	17.094	136.752	
90	77B4DD6050	L45X45X4-E250A	2168.00	2.700	4	5.854	23.416	
91	77B4DD6050A	L45X45X4-E250A	2168.00	2.700	4	5.854	23.416	
92	77B4DD6051L	L60X60X4-E250A	4853.00	3.700	4	17.956	71.824	
93	77B4DD6051R	L60X60X4-E250A	4853.00	3.700	4	17.956	71.824	
94	77B4DD6052L	L55X55X4-E250A	4890.00	3.300	4	16.137	64.548	
95	77B4DD6052R	L55X55X4-E250A	4890.00	3.300	4	16.137	64.548	
96	77B4DD6052AL	L50X50X4-E250A	2119.00	3.000	4	6.357	25.428	
97	77B4DD6052AR	L50X50X4-E250A	2119.00	3.000	4	6.357	25.428	
98	77B4DD6053	6MM PLATE-E250A	110.00 X 166.00	47.100	8	0.860	6.880	
99	77B4DD6054LH	6MM PLATE H-E350A	182.00 X 313.00	47.100	4	2.683	10.732	
100	77B4DD6054RH	6MM PLATE H-E350A	182.00 X 313.00	47.100	4	2.683	10.732	
101	77B4DD6055L	6MM PLATE-E250A	115.00 X 286.00	47.100	4	1.549	6.196	

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



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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQD6E

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	77B4DD6055R	6MM PLATE-E250A	115.00 X 286.00	47.100	4	1.549	6.196	
103	77B4DD6056L	6MM PLATE-E250A	135.00 X 317.00	47.100	4	2.016	8.064	
104	77B4DD6056R	6MM PLATE-E250A	135.00 X 317.00	47.100	4	2.016	8.064	
105	77B4DD6057L	6MM PLATE-E250A	115.00 X 286.00	47.100	4	1.549	6.196	
106	77B4DD6057R	6MM PLATE-E250A	115.00 X 286.00	47.100	4	1.549	6.196	
107	77B4DD6058	6MM PLATE-E250A	165.00 X 170.00	47.100	4	1.321	5.284	
108	77B4DD6059A	L75X75X5-E250A	337.00	5.700	4	1.921	7.684	
109	77B4DD6059H	L60X60X4H-E350A	3238.00	3.700	4	11.981	47.924	
110	77B4DD6060H	6MM PLATE H-E350A	115.00 X 135.00	47.100	8	0.731	5.848	
111	77B4DD6061AH	L60X60X4H-E350A	3140.00	3.700	4	11.618	46.472	
112	77B4DD6061H	L60X60X4H-E350A	3140.00	3.700	4	11.618	46.472	
113	77B4DD6062H	L65X65X4H-E350A	3200.00	4.000	4	12.800	51.200	
114	77B4DD6062XH	L65X65X4H-E350A	3200.00	4.000	4	12.800	51.200	
115	77B4DD6063H	L75X75X5H-E350A	3762.00	5.700	4	21.443	85.772	
116	77B4DD6063XH	L75X75X5H-E350A	3762.00	5.700	4	21.443	85.772	
117	77B4DD6064H	L75X75X5H-E350A	3910.00	5.700	4	22.287	89.148	
118	77B4DD6064XH	L75X75X5H-E350A	3910.00	5.700	4	22.287	89.148	
119	77B4DD6065H	L75X75X5H-E350A	459.00	5.700	4	2.616	10.464	
120	77B4DD6066H	6MM PLATE H-E350A	110.00 X 135.00	47.100	8	0.699	5.592	
121	77B4DD6067H	L50X50X4H-E350A	2234.00	3.000	4	6.702	26.808	
122	77B4DD6068H	L50X50X4H-E350A	2234.00	3.000	4	6.702	26.808	
123	77B4DD6069H	L45X45X4H-E350A	1766.00	2.700	4	4.768	19.072	
124	77B4DD6070H	L45X45X4H-E350A	1766.00	2.700	4	4.768	19.072	
125	77B4DD6071	L45X45X4-E250A	1153.00	2.700	4	3.113	12.452	
126	77B4DD6072	L45X45X4-E250A	1153.00	2.700	4	3.113	12.452	
127	77B4DD6073H	L75X75X5H-E350A	6260.00	5.700	4	35.682	142.728	
128	77B4DD6074H	L45X45X4H-E350A	1588.00	2.700	4	4.288	17.152	
129	77B4DD6075	6MM PLATE-E250A	92.00 X 110.00	47.100	2	0.477	0.954	
Total Weight :							8527.826	

Associated Parts

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

Raw Material Involved

APPROVED
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Standard Material

Total Weight (In Kg)

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Electrical Superintending Engineer
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Tamil Nadu State Power Transmission Company Limited



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

Bom No : BOM/LE19D023/PQD6E

Order Ref: REF/LE19D023

BOM OF +6M BODY EXTN. FOR TOWER TYPE - "4DD/DE" (400kV D/C QUAD)

14MM PLATE H-E350A	HT	406.524
6MM PLATE H-E350A	HT	54.524
6MM PLATE-E250A	MS	96.978
8MM PLATE-E250A	MS	21.456
L100X100X6-E250A	MS	455.512
L100X100X7-E250A	MS	398.896
L110X110X8H-E350A	HT	499.552
L150X150X10H-E350A	HT	162.128
L150X150X12H-E350A	HT	103.960
L150X150X18H-E350A	HT	2051.192
L45X45X4-E250A	MS	360.784
L45X45X4H-E350A	HT	55.296
L50X50X4-E250A	MS	144.336
L50X50X4H-E350A	HT	53.616
L55X55X4-E250A	MS	343.600
L60X60X4-E250A	MS	143.648
L60X60X4H-E350A	HT	140.868
L65X65X4H-E350A	HT	102.400
L65X65X5H-E350A	HT	81.868
L70X70X5-E250A	MS	13.400
L75X75X5-E250A	MS	156.068
L75X75X5H-E350A	HT	503.032
L75X75X6-E250A	MS	9.412
L75X75X6H-E350A	HT	17.192
L80X80X6-E250A	MS	190.208
L90X90X6-E250A	MS	1006.732
L90X90X6H-E350A	HT	11.348
L90X90X7H-E350A	HT	943.296
Total		8527.826
HT		5186.796
MS		3341.030

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the responsibility for correctness of the materials
supplied as per specification

Electrical Superintending Engineer
(Planning and Engineering)

Ribho State Power Transmission Company Limited

** -- Item Welded with another item

*** -- Item Assembled with another item

8k
22.10.19

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

Date: 22-Aug-2019
Page: 1 of 2

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQD6B

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 - "4DD/DE" (400kV D/C QUAD)								
1	PQD6B11	M16x3.5MM SPRING WASHER IS3063		0.009	1740	0.009	15.660	
2	PQD6B8	M16X70MM LONG (IS:12427)		0.173	92	0.173	15.916	
3	PQD6B1	M16X35MM LONG (IS:12427)		0.119	400	0.119	47.600	
4	PQD6B2	M16X40MM LONG (IS:12427)		0.126	214	0.126	26.964	
5	PQD6B3	M16X45MM LONG (IS:12427)		0.134	218	0.134	29.212	
6	PQD6B4	M16X50MM LONG (IS:12427)		0.142	36	0.142	5.112	
7	PQD6B5	M16X55MM LONG (IS:12427)		0.150	392	0.150	58.800	
8	PQD6B6	M16X60MM LONG (IS:12427)		0.158	32	0.158	5.056	
9	PQD6B7	M16X65MM LONG (IS:12427)		0.164	64	0.164	10.496	
10	PQD6B9	M16X75MM LONG (IS:12427)		0.180	52	0.180	9.360	
11	PQD6B10	M16X80MM LONG (IS:12427)		0.185	240	0.185	44.400	
12	PQD6B12	M16x175LG STEP BOLT (350D) 2N+1SP		0.374	24	0.374	8.976	
Total Weight :							277.552	

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)
BOLTS & NUTS OF +6M BODY EXTN. FOR TOWER TYPE - "4DD/DE" (400kV D/C QUAD)		
M16x175LG STEP BOLT(350D) 2N+1SP		8.976
M16x3.5MM SPRING WASHER IS3063		15.660
M16X35MM LONG (IS:12427)		47.600
M16X40MM LONG (IS:12427)		26.964
M16X45MM LONG (IS:12427)		29.212
M16X50MM LONG (IS:12427)		5.112
M16X55MM LONG (IS:12427)		58.800
M16X60MM LONG (IS:12427)		5.056
M16X65MM LONG (IS:12427)		10.496

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-800012

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

SK
22.10.19

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LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
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Date: 22-Aug-2019.

Page: 2 of 2

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQD6B

Order Ref: REF/LE19D023

M16X70MM LONG (IS:12427)

15.916

M16X75MM LONG (IS:12427)

9.360

M16X80MM LONG (IS:12427)

44.400

Total

277.552

APPROVED

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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: 22-Aug-2019

Page: 1 of 1

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQD6W

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 - "4DD/DE" (400kV D/C QUAD)								
1	PQD6W1	M16x4MM ROUND PACK WASHER IS2016		0.014	8	0.014	0.112	
2	PQD6W2	M16x5MM ROUND PACK WASHER IS2016		0.018	4	0.018	0.072	
3	PQD6W3	M16x6MM ROUND PACK WASHER IS2016		0.021	198	0.021	4.158	
4	PQD6W4	M16x8MM ROUND PACK WASHER IS2016		0.028	174	0.028	4.872	
Total Weight :							9.214	

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 +6M BODY EXTN. FOR TOWER TYPE - "4DD/DE" (400kV D/C QUAD)		
M16x4MM ROUND PACK WASHER IS2016		0.112
M16x5MM ROUND PACK WASHER IS2016		0.072
M16x6MM ROUND PACK WASHER IS2016		4.158
M16x8MM ROUND PACK WASHER IS2016		4.872
Total		9.214

APPROVED

Subject to the condition that you are not absolved
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

8k
22.10.19

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