



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-0103**

BOM No. : **BOM/LE19D023/4DA/003**

NO OF SHEETS: **7**

BILL OF MATERIAL

+0M BODY EXTN. FOR TOWER TYPE - "4DA"
400KV D/C QUAD ACSR MOOSE (WZ-4)

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQA0E	2350.776
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT. BOM/LE19D023/PQA0E = 1461.832 BOM/LE19D023/PQA0W = 0.344	1462.176
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQA0B	122.488
TOTAL WEIGHT OF STRUCTURE:	3935.44 Kgs

APPROVED

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

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

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

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

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



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

Date: 31-Jul-2019

Page: 1 of 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA0E

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 +0M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	77B4DA21SH	L150X150X14H-E350A	5500.00	31.500	2	173.250	346.500	
2	77B4DA22H	L150X150X14H-E350A	5500.00	31.500	2	173.250	346.500	
3	77B4DA23SH	L150X150X14H-E350A	3743.00	31.500	2	117.905	235.810	
4	77B4DA24H	L150X150X14H-E350A	3743.00	31.500	2	117.905	235.810	
5	77B4DA25H	L120X120X10H-E350A	436.00	18.200	8	7.935	63.480	
6	77B4DA26H	10MM PLATE H-E350A	110.00 X 436.00	78.500	16	3.765	60.240	
7	77B4DA27LH	L90X90X6H-E350A	4900.00	8.200	2	40.180	80.360	
8	77B4DA27RH	L90X90X6H-E350A	4900.00	8.200	2	40.180	80.360	
9	77B4DA28LH	L90X90X6H-E350A	6648.00	8.200	2	54.514	109.028	
10	77B4DA28RH	L90X90X6H-E350A	6648.00	8.200	2	54.514	109.028	
11	77B4DA29LH	L70X70X5H-E350A	286.00	5.300	2	1.516	3.032	
12	77B4DA29RH	L70X70X5H-E350A	286.00	5.300	2	1.516	3.032	
13	77B4DA30H	5MM PLATE H-E350A	70.00 X 286.00	39.250	8	0.786	6.288	
14	77B4DA31L	L45X45X4-E250A	1145.00	2.700	2	3.092	6.184	
15	77B4DA31R	L45X45X4-E250A	1145.00	2.700	2	3.092	6.184	
16	77B4DA32L	L50X50X4-E250A	2007.00	3.000	2	6.021	12.042	
17	77B4DA32R	L50X50X4-E250A	2007.00	3.000	2	6.021	12.042	
18	77B4DA33L	L55X55X4-E250A	2240.00	3.300	1	7.392	7.392	
19	77B4DA33R	L55X55X4-E250A	2240.00	3.300	1	7.392	7.392	
20	77B4DA33AL	L55X55X4-E250A	2240.00	3.300	1	7.392	7.392	
21	77B4DA33AR	L55X55X4-E250A	2240.00	3.300	1	7.392	7.392	
22	77B4DA34L	L60X60X4-E250A	2666.00	3.700	1	9.864	9.864	
23	77B4DA34R	L60X60X4-E250A	2666.00	3.700	1	9.864	9.864	
24	77B4DA34AL	L60X60X4-E250A	2666.00	3.700	1	9.864	9.864	
25	77B4DA34AR	L60X60X4-E250A	2666.00	3.700	1	9.864	9.864	
26	77B4DA35L	L45X45X4-E250A	1866.00	2.700	2	5.038	10.076	
27	77B4DA35R	L45X45X4-E250A	1866.00	2.700	2	5.038	10.076	
28	77B4DA36L	L50X50X4-E250A	3335.00	3.000	2	10.005	20.010	
29	77B4DA36R	L50X50X4-E250A	3335.00	3.000	2	10.005	20.010	
30	77B4DA37L	L60X60X4-E250A	4983.00	3.700	2	18.437	36.874	
31	77B4DA37R	L60X60X4-E250A	4983.00	3.700	2	18.437	36.874	
32	77B4DA38L	L45X45X4-E250A	1399.00	2.700	2	3.777	7.554	
33	77B4DA38R	L45X45X4-E250A	1399.00	2.700	2	3.777	7.554	

** -- Item Welded with another item

*** -- Item Assembled with another item

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

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 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA0E

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	77B4DA39L	L50X50X4-E250A	2066.00	3.000	2	6.198	12.396	
35	77B4DA39R	L50X50X4-E250A	2066.00	3.000	2	6.198	12.396	
36	77B4DA40L	L45X45X4-E250A	1829.00	2.700	2	4.938	9.876	
37	77B4DA40R	L45X45X4-E250A	1829.00	2.700	2	4.938	9.876	
38	77B4DA41L	L45X45X4-E250A	3658.00	2.700	2	9.877	19.754	
39	77B4DA41R	L45X45X4-E250A	3658.00	2.700	2	9.877	19.754	
40	77B4DA42LH	L45X45X4H-E350A	1439.00	2.700	2	3.885	7.770	
41	77B4DA42RH	L45X45X4H-E350A	1439.00	2.700	2	3.885	7.770	
42	77B4DA43	L50X50X4-E250A	2255.00	3.000	4	6.765	27.060	
43	77B4DA45	L70X70X5-E250A	5900.00	5.300	2	31.270	62.540	
44	77B4DA46	L70X70X5-E250A	5172.00	5.300	2	27.412	54.824	
45	77B4DA47	L60X60X5-E250A	286.00	4.500	2	1.287	2.574	
46	77B4DA48	5MM PLATE-E250A	60.00 X 286.00	39.250	4	0.674	2.696	
47	77B4DA49	5MM PLATE-E250A	105.00 X 132.00	39.250	4	0.544	2.176	
48	77B4DA50LH	L90X90X6H-E350A	4700.00	8.200	2	38.540	77.080	
49	77B4DA50RH	L90X90X6H-E350A	4700.00	8.200	2	38.540	77.080	
50	77B4DA51LH	L90X90X6H-E350A	6374.00	8.200	2	52.267	104.534	
51	77B4DA51RH	L90X90X6H-E350A	6374.00	8.200	2	52.267	104.534	
52	77B4DA52LH	L70X70X5H-E350A	286.00	5.300	2	1.516	3.032	
53	77B4DA52RH	L70X70X5H-E350A	286.00	5.300	2	1.516	3.032	
54	77B4DA53H	5MM PLATE H-E350A	70.00 X 286.00	39.250	8	0.786	6.288	
55	77B4DA54L	L45X45X4-E250A	1030.00	2.700	2	2.781	5.562	
56	77B4DA54R	L45X45X4-E250A	1030.00	2.700	2	2.781	5.562	
57	77B4DA55L	L45X45X4-E250A	1995.00	2.700	2	5.387	10.774	
58	77B4DA55R	L45X45X4-E250A	1995.00	2.700	2	5.387	10.774	
59	77B4DA56L	L50X50X4-E250A	2010.00	3.000	2	6.030	12.060	
60	77B4DA56R	L50X50X4-E250A	2010.00	3.000	2	6.030	12.060	
61	77B4DA57L	L55X55X4-E250A	2511.00	3.300	2	8.286	16.572	
62	77B4DA57R	L55X55X4-E250A	2511.00	3.300	2	8.286	16.572	
63	77B4DA58L	L45X45X4-E250A	1876.00	2.700	2	5.065	10.130	
64	77B4DA58R	L45X45X4-E250A	1876.00	2.700	2	5.065	10.130	
65	77B4DA59L	L50X50X4-E250A	2990.00	3.000	2	8.970	17.940	
66	77B4DA59R	L50X50X4-E250A	2990.00	3.000	2	8.970	17.940	
67	77B4DA60L	L60X60X4-E250A	4733.00	3.700	2	17.512	35.024	

APPROVED

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** -- Item Welded with another item

*** -- Item Assembled with another item

Electrical Superintending Engineer
(Planning and Engineering)

Bina, State Power Transmission Company Limited
Vidyalay, Patna-800002

SK
20.08.19



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

Page: 3 of 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA0E

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	77B4DA60R	L60X60X4-E250A	4733.00	3.700	2	17.512	35.024	
69	77B4DA60A	5MM PLATE-E250A	108.00 X 128.00	39.250	4	0.543	2.172	
70	77B4DA61L	L45X45X4-E250A	1255.00	2.700	2	3.389	6.778	
71	77B4DA61R	L45X45X4-E250A	1255.00	2.700	2	3.389	6.778	
72	77B4DA62L	L50X50X4-E250A	2031.00	3.000	2	6.093	12.186	
73	77B4DA62R	L50X50X4-E250A	2031.00	3.000	2	6.093	12.186	
74	77B4DA63L	L45X45X4-E250A	1827.00	2.700	2	4.933	9.866	
75	77B4DA63R	L45X45X4-E250A	1827.00	2.700	2	4.933	9.866	
76	77B4DA64L	L45X45X4-E250A	3676.00	2.700	2	9.925	19.850	
77	77B4DA64R	L45X45X4-E250A	3676.00	2.700	2	9.925	19.850	
78	77B4DA65L	L45X45X4-E250A	1295.00	2.700	2	3.497	6.994	
79	77B4DA65R	L45X45X4-E250A	1295.00	2.700	2	3.497	6.994	
80	77B4DA66	L45X45X4-E250A	2199.00	2.700	4	5.937	23.748	
81	77B4DA67H	8MM PLATE H-E350A	100.00 X 312.00	62.800	2	1.959	3.918	
82	77B4DA68	L65X65X4-E250A	5350.00	4.000	2	21.400	42.800	
83	77B4DA69	L65X65X4-E250A	4575.00	4.000	2	18.300	36.600	
84	77B4DA70	L60X60X5-E250A	286.00	4.500	2	1.287	2.574	
85	77B4DA71	5MM PLATE-E250A	60.00 X 286.00	39.250	4	0.674	2.696	
86	77B4DA72LH	L45X45X4H-E350A	1423.00	2.700	2	3.842	7.684	
87	77B4DA72RH	L45X45X4H-E350A	1423.00	2.700	2	3.842	7.684	
88	77B4DA73L	L45X45X4-E250A	2938.00	2.700	2	7.933	15.866	
89	77B4DA73R	L45X45X4-E250A	2938.00	2.700	2	7.933	15.866	
90	77B4DA74L	L45X45X4-E250A	3152.00	2.700	2	8.510	17.020	
91	77B4DA74R	L45X45X4-E250A	3152.00	2.700	2	8.510	17.020	
92	77B4DA75L	L45X45X4-E250A	4060.00	2.700	2	10.962	21.924	
93	77B4DA75R	L45X45X4-E250A	4060.00	2.700	2	10.962	21.924	
94	77B4DA76L	L50X50X4-E250A	4315.00	3.000	2	12.945	25.890	
95	77B4DA76R	L50X50X4-E250A	4315.00	3.000	2	12.945	25.890	
96	77B4DA77L	L50X50X4-E250A	6856.00	3.000	2	20.568	41.136	
97	77B4DA77R	L50X50X4-E250A	6856.00	3.000	2	20.568	41.136	
98	77B4DA78L	L55X55X4-E250A	7323.00	3.300	2	24.166	48.332	
99	77B4DA78R	L55X55X4-E250A	7323.00	3.300	2	24.166	48.332	
100	77B4DA79L	L50X50X4-E250A	2915.00	3.000	2	8.745	17.490	
101	77B4DA79R	L50X50X4-E250A	2915.00	3.000	2	8.745	17.490	

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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
Vidyal Bhawan, Patna-800021

Sk
20.08.19



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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA0E

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	77B4DA80L	L45X45X4-E250A	1403.00	2.700	2	3.788	7.576	
103	77B4DA80R	L45X45X4-E250A	1403.00	2.700	2	3.788	7.576	
104	77B4DA81L	L50X50X4-E250A	2865.00	3.000	2	8.595	17.190	
105	77B4DA81R	L50X50X4-E250A	2865.00	3.000	2	8.595	17.190	
106	77B4DA82L	L45X45X4-E250A	1321.00	2.700	2	3.567	7.134	
107	77B4DA82R	L45X45X4-E250A	1321.00	2.700	2	3.567	7.134	
108	77B4DA83	5MM PLATE-E250A	110.00 X 145.00	39.250	8	0.626	5.008	
109	77B4DA83AH	5MM PLATE H-E350A	110.00 X 145.00	39.250	4	0.626	2.504	
110	77B4DA84L	5MM PLATE-E250A	205.00 X 212.00	39.250	2	1.706	3.412	
111	77B4DA84R	5MM PLATE-E250A	205.00 X 212.00	39.250	2	1.706	3.412	
112	77B4DA85L	5MM PLATE-E250A	113.00 X 167.00	39.250	2	0.741	1.482	
113	77B4DA85R	5MM PLATE-E250A	113.00 X 167.00	39.250	2	0.741	1.482	
114	77B4DA86	5MM PLATE-E250A	110.00 X 145.00	39.250	8	0.626	5.008	
115	77B4DA86AH	5MM PLATE H-E350A	110.00 X 145.00	39.250	4	0.626	2.504	
116	77B4DA87L	5MM PLATE-E250A	209.00 X 224.00	39.250	2	1.838	3.676	
117	77B4DA87R	5MM PLATE-E250A	209.00 X 224.00	39.250	2	1.838	3.676	
118	77B4DA88L	5MM PLATE-E250A	112.00 X 170.00	39.250	2	0.747	1.494	
119	77B4DA88R	5MM PLATE-E250A	112.00 X 170.00	39.250	2	0.747	1.494	
120	77B4DA89H	L60X60X5H-E350A	6097.00	4.500	2	27.437	54.874	
121	77B4DA89AH	L60X60X5H-E350A	6097.00	4.500	2	27.437	54.874	
122	77B4DA90H	L65X65X4H-E350A	5712.00	4.000	2	22.848	45.696	
123	77B4DA90AH	L65X65X4H-E350A	5712.00	4.000	2	22.848	45.696	
124	77B4DA91	L45X45X4-E250A	1266.00	2.700	2	3.418	6.836	
125	77B4DA91A	L45X45X4-E250A	1266.00	2.700	2	3.418	6.836	
126	77B4DA92	L45X45X4-E250A	1277.00	2.700	2	3.448	6.896	
127	77B4DA92A	L45X45X4-E250A	1277.00	2.700	2	3.448	6.896	
128	77B4DA93	L45X45X4-E250A	990.00	2.700	2	2.673	5.346	
129	77B4DA93A	L45X45X4-E250A	990.00	2.700	2	2.673	5.346	
130	77B4DA94	L45X45X4-E250A	1055.00	2.700	2	2.849	5.698	
131	77B4DA94A	L45X45X4-E250A	1055.00	2.700	2	2.849	5.698	
132	77B4DA95	L45X45X4-E250A	872.00	2.700	2	2.354	4.708	
133	77B4DA96	L45X45X4-E250A	968.00	2.700	2	2.614	5.228	
134	77B4DA97H	L65X65X4H-E350A	3738.00	4.000	2	14.952	29.904	

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

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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA0E

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
135	77B4DA98H	L60X60X4H-E350A	3358.00	3.700	2	12.425	24.850	
136	77B4DA99	L50X50X4-E250A	383.00	3.000	2	1.149	2.298	
137	77B4DA100	L50X50X4-E250A	383.00	3.000	2	1.149	2.298	
Total Weight :							3812.608	

Associated Parts

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

Raw Material Involved	Standard Material	Total Weight (In Kg)
BOM OF +0M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
10MM PLATE H-E350A	HT	60.240
5MM PLATE H-E350A	HT	17.584
5MM PLATE-E250A	MS	39.884
8MM PLATE H-E350A	HT	3.918
L120X120X10H-E350A	HT	63.480
L150X150X14H-E350A	HT	1164.620
L45X45X4-E250A	MS	469.072
L45X45X4H-E350A	HT	30.908
L50X50X4-E250A	MS	408.336
L55X55X4-E250A	MS	159.376
L60X60X4-E250A	MS	183.252
L60X60X4H-E350A	HT	24.850
L60X60X5-E250A	MS	5.148
L60X60X5H-E350A	HT	109.748
L65X65X4-E250A	MS	79.400
L65X65X4H-E350A	HT	121.296
L70X70X5-E250A	MS	117.364
L70X70X5H-E350A	HT	12.128
L90X90X6H-E350A	HT	742.004
Total		3812.608
HT		2350.776
MS		1461.832

APPROVED

Subject to the condition that you are not absolved of
the responsibility for correctness of the material
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
Vidyut 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: 1 of 1

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA0B

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 +0M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	PQA0B1	M16X35MM LONG (IS:12427)		0.119	264	0.119	31.416	
2	PQA0B2	M16X40MM LONG (IS:12427)		0.126	200	0.126	25.200	
3	PQA0B7	M16x175LG STEP BOLT (350D) 2N+1SP		0.374	32	0.374	11.968	
4	PQA0B3	M16X45MM LONG (IS:12427)		0.134	144	0.134	19.296	
5	PQA0B4	M16X50MM LONG (IS:12427)		0.142	16	0.142	2.272	
6	PQA0B5	M16X60MM LONG (IS:12427)		0.158	160	0.158	25.280	
7	PQA0B6	M16x3.5MM SPRING WASHER IS3063		0.009	784	0.009	7.056	
Total Weight :							122.488	

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 +0M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
M16x175LG STEP BOLT(350D) 2N+1SP		11.968
M16x3.5MM SPRING WASHER IS3063		7.056
M16X35MM LONG (IS:12427)		31.416
M16X40MM LONG (IS:12427)		25.200
M16X45MM LONG (IS:12427)		19.296
M16X50MM LONG (IS:12427)		2.272
M16X60MM LONG (IS:12427)		25.280
Total		122.488

APPROVED

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

[Signature]
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Corporation
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 1

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA0W

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 +0M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	PQA0W1	M16x4MM ROUND PACK WASHER IS2016		0.014	4	0.014	0.056	
2	PQA0W2	M16x5MM ROUND PACK WASHER IS2016		0.018	16	0.018	0.288	
Total Weight :							0.344	

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 +0M BODY EXTN. FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
M16x4MM ROUND PACK WASHER IS2016		0.056
M16x5MM ROUND PACK WASHER IS2016		0.288
Total		0.344

APPROVED

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

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

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

20.08.19