



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-0303**

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

NO OF SHEETS: **8**

BILL OF MATERIAL

+0M BODY EXTN. FOR TOWER TYPE - "4DC"

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

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQC0E	5395.124
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT. BOM/LE19D023/PQC0E = 1543.888 BOM/LE19D023/PQC0W = 9.212	1553.100
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQC0B	281.808
TOTAL WEIGHT OF STRUCTURE:	7230.032 Kgs

APPROVED

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

Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800024

27-09-19

**SUCCESSFULLY TESTED AT L&T-TLTRS-KANCHIPURAM
ON 07th OF SEPTEMBER 2019**

0	07.09.19	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	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

Page: 1 of 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC0E

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 - "4DC" (400kV D/C QUAD)								
1	77B4DC21SH	L150X150X12H-E350A	4620.00	27.300	2	126.126	252.252	
2	77B4DC21AH	L150X150X12H-E350A	4620.00	27.300	2	126.126	252.252	
3	77B4DC22H	L150X150X12H-E350A	4620.00	27.300	2	126.126	252.252	
4	77B4DC22AH	L150X150X12H-E350A	4620.00	27.300	2	126.126	252.252	
5	77B4DC23SH	L150X150X12H-E350A	4832.00	27.300	2	131.914	263.828	
6	77B4DC23AH	L150X150X12H-E350A	4832.00	27.300	2	131.914	263.828	
7	77B4DC24H	L150X150X12H-E350A	4832.00	27.300	2	131.914	263.828	
8	77B4DC24AH	L150X150X12H-E350A	4832.00	27.300	2	131.914	263.828	
9	77B4DC25H	L120X120X10H-E350A	476.00	18.200	16	8.663	138.608	
10	77B4DC25AH	L150X150X10H-E350A	476.00	22.900	16	10.900	174.400	
11	77B4DC26H	14MM PLATE H-E350A	276.00 X 476.00	109.900	8	14.438	115.504	
12	77B4DC27H	14MM PLATE H-E350A	110.00 X 476.00	109.900	16	5.754	92.064	
13	77B4DC28H	14MM PLATE H-E350A	64.00 X 316.00	109.900	4	2.223	8.892	
14	77B4DC29H	14MM PLATE H-E350A	110.00 X 316.00	109.900	28	3.820	106.960	
15	77B4DC30H	14MM PLATE H-E350A	175.00 X 316.00	109.900	4	6.077	24.308	
16	77B4DC31H	14MM PLATE H-E350A	316.00 X 404.00	109.900	4	14.030	56.120	
17	77B4DC32H	14MM PLATE H-E350A	201.00 X 316.00	109.900	4	6.980	27.920	
18	77B4DC33H	L150X150X10H-E350A	291.00	22.900	8	6.664	53.312	
19	77B4DC34H	14MM PLATE H-E350A	291.00 X 316.00	109.900	4	10.106	40.424	
20	77B4DC35H	14MM PLATE H-E350A	130.00 X 291.00	109.900	8	4.158	33.264	
21	77B4DC36LH	L75X75X6H-E350A	5462.00	6.800	4	37.142	148.568	
22	77B4DC36RH	L75X75X6H-E350A	5462.00	6.800	4	37.142	148.568	
23	77B4DC37LH	L75X75X6H-E350A	5464.00	6.800	4	37.155	148.620	
24	77B4DC37RH	L75X75X6H-E350A	5464.00	6.800	4	37.155	148.620	
25	77B4DC38LH	L75X75X6H-E350A	7000.00	6.800	4	47.600	190.400	
26	77B4DC38RH	L75X75X6H-E350A	7000.00	6.800	4	47.600	190.400	
27	77B4DC39LH	L75X75X6H-E350A	7000.00	6.800	4	47.600	190.400	
28	77B4DC39RH	L75X75X6H-E350A	7000.00	6.800	4	47.600	190.400	
29	77B4DC40LH	L60X60X5H-E350A	286.00	4.500	8	1.287	10.296	
30	77B4DC40RH	L60X60X5H-E350A	286.00	4.500	8	1.287	10.296	
31	77B4DC41H	6MM PLATE H-E350A	146.00 X 286.00	47.100	8	1.967	15.736	
32	77B4DC41AH	14MM PLATE H-E350A	60.00 X 286.00	109.900	8	1.886	15.088	
33	77B4DC42L	L45X45X4-E250A	786.00	2.700	4	2.122	8.488	

APPROVED

Subject to the condition that you are not absolved of
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)
Bihar State Power Transmission Company Limited
Vidvut Bhawar Patna, 200002

8K
27-09-19

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LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
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Date: 07-Sep-2019

Page: 2 of 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC0E

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	77B4DC42R	L45X45X4-E250A	786.00	2.700	4	2.122	8.488	
35	77B4DC43L	L45X45X4-E250A	1191.00	2.700	4	3.216	12.864	
36	77B4DC43R	L45X45X4-E250A	1191.00	2.700	4	3.216	12.864	
37	77B4DC44LH	L50X50X4H-E350A	1239.00	3.000	4	3.717	14.868	
38	77B4DC44RH	L50X50X4H-E350A	1239.00	3.000	4	3.717	14.868	
39	77B4DC45L	L70X70X5-E250A	2699.00	5.300	3	14.305	42.915	
40	77B4DC45R	L70X70X5-E250A	2699.00	5.300	3	14.305	42.915	
41	77B4DC45AL	L70X70X5-E250A	2699.00	5.300	1	14.305	14.305	
42	77B4DC45AR	L70X70X5-E250A	2699.00	5.300	1	14.305	14.305	
43	77B4DC46L	L65X65X5-E250A	2489.00	4.900	3	12.196	36.588	
44	77B4DC46R	L65X65X5-E250A	2489.00	4.900	3	12.196	36.588	
45	77B4DC46AL	L65X65X5-E250A	2489.00	4.900	1	12.196	12.196	
46	77B4DC46AR	L65X65X5-E250A	2489.00	4.900	1	12.196	12.196	
47	77B4DC47	6MM PLATE-E250A	110.00 X 175.00	47.100	8	0.907	7.256	
48	77B4DC47A	8MM PLATE-E250A	50.00 X 175.00	62.800	8	0.550	4.400	
49	77B4DC48L	L50X50X4-E250A	2807.00	3.000	4	8.421	33.684	
50	77B4DC48R	L50X50X4-E250A	2807.00	3.000	4	8.421	33.684	
51	77B4DC49L	L75X75X5-E250A	2935.00	5.700	4	16.730	66.920	
52	77B4DC49R	L75X75X5-E250A	2935.00	5.700	4	16.730	66.920	
53	77B4DC50L	L65X65X5-E250A	3828.00	4.900	4	18.757	75.028	
54	77B4DC50R	L65X65X5-E250A	3828.00	4.900	4	18.757	75.028	
55	77B4DC51	6MM PLATE-E250A	110.00 X 181.00	47.100	8	0.938	7.504	
56	77B4DC51A	8MM PLATE-E250A	50.00 X 181.00	62.800	8	0.568	4.544	
57	77B4DC52L	L65X65X5-E250A	3965.00	4.900	4	19.429	77.716	
58	77B4DC52R	L65X65X5-E250A	3965.00	4.900	4	19.429	77.716	
59	77B4DC53L	L50X50X4-E250A	1572.00	3.000	4	4.716	18.864	
60	77B4DC53R	L50X50X4-E250A	1572.00	3.000	4	4.716	18.864	
61	77B4DC54L	L45X30X4-E250A	1008.00	2.200	4	2.218	8.872	
62	77B4DC54R	L45X30X4-E250A	1008.00	2.200	4	2.218	8.872	
63	77B4DC55L	L45X45X4-E250A	3735.00	2.700	4	10.085	40.340	
64	77B4DC55R	L45X45X4-E250A	3735.00	2.700	4	10.085	40.340	
65	77B4DC56LH	L45X45X4H-E350A	1656.00	2.700	4	4.471	17.884	
66	77B4DC56RH	L45X45X4H-E350A	1656.00	2.700	4	4.471	17.884	
67	77B4DC57L	L50X50X4-E250A	2358.00	3.000	4	7.074	28.296	

APPROVED

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** -- Item Welded with another item

*** -- Item Assembled with another item

Electrical Superintending Engineer
(Planning and Engineering)

Chennai State Power Transmission Company Limited
Vidyut Bhawan, Chennai-600021

27.09.19



LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
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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/PQC0E

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	77B4DC57R	L50X50X4-E250A	2358.00	3.000	4	7.074	28.296	
69	77B4DC58H	14MM PLATE H-E350A	291.00 X 370.00	109.900	4	11.833	47.332	
70	77B4DC59H	L80X80X6H-E350A	6800.00	7.300	4	49.640	198.560	
71	77B4DC60H	L80X80X6H-E350A	5861.00	7.300	4	42.785	171.140	
72	77B4DC60AH	L60X60X5H-E350A	286.00	4.500	4	1.287	5.148	
73	77B4DC60BH	6MM PLATE H-E350A	60.00 X 286.00	47.100	8	0.808	6.464	
74	77B4DC61H	L45X45X4H-E350A	1696.00	2.700	4	4.579	18.316	
75	77B4DC62	L50X50X4-E250A	3526.00	3.000	4	10.578	42.312	
76	77B4DC62X	L50X50X4-E250A	3526.00	3.000	4	10.578	42.312	
77	77B4DC63	L55X55X4-E250A	4957.00	3.300	8	16.358	130.864	
78	77B4DC64	L55X55X4-E250A	4683.00	3.300	4	15.454	61.816	
79	77B4DC64X	L55X55X4-E250A	4683.00	3.300	4	15.454	61.816	
80	77B4DC65H	L50X50X4H-E350A	2373.00	3.000	8	7.119	56.952	
81	77B4DC66	L45X30X4-E250A	1155.00	2.200	8	2.541	20.328	
82	77B4DC67	L50X50X4-E250A	4054.00	3.000	8	12.162	97.296	
83	77B4DC68	6MM PLATE-E250A	140.00 X 184.00	47.100	4	1.213	4.852	
84	77B4DC69	6MM PLATE-E250A	110.00 X 146.00	47.100	8	0.756	6.048	
85	77B4DC70H	6MM PLATE H-E350A	110.00 X 236.00	47.100	8	1.223	9.784	
86	77B4DC71	6MM PLATE-E250A	110.00 X 236.00	47.100	8	1.223	9.784	
87	77B4DC72L	6MM PLATE-E250A	110.00 X 263.00	47.100	4	1.363	5.452	
88	77B4DC72R	6MM PLATE-E250A	110.00 X 263.00	47.100	4	1.363	5.452	
89	77B4DC73L	6MM PLATE-E250A	110.00 X 270.00	47.100	4	1.399	5.596	
90	77B4DC73R	6MM PLATE-E250A	110.00 X 270.00	47.100	4	1.399	5.596	
91	77B4DC74H	6MM PLATE H-E350A	110.00 X 236.00	47.100	8	1.223	9.784	
92	77B4DC75L	6MM PLATE-E250A	115.00 X 256.00	47.100	4	1.387	5.548	
93	77B4DC75R	6MM PLATE-E250A	115.00 X 256.00	47.100	4	1.387	5.548	
94	77B4DC76H	L90X90X6H-E350A	460.00	8.200	4	3.772	15.088	
95	77B4DC77H	L60X60X4H-E350A	2835.00	3.700	4	10.490	41.960	
96	77B4DC78H	L75X75X5H-E350A	458.00	5.700	4	2.611	10.444	
97	77B4DC79H	L65X65X5H-E350A	7098.00	4.900	4	34.780	139.120	
98	77B4DC79XH	L65X65X5H-E350A	7098.00	4.900	4	34.780	139.120	
99	77B4DC80H	L45X45X4H-E350A	1531.00	2.700	4	4.134	16.536	
100	77B4DC81H	L45X45X4H-E350A	1531.00	2.700	4	4.134	16.536	
101	77B4DC82	L45X45X4-E250A	1216.00	2.700	4	3.283	13.132	

APPROVED

Subject to the condition that you are not absolved
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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 Bhawan Patna-800021

27.09.19



LARSEN & TOUBRO LIMITED, CONSTRUCTION.,
979, Mount-Poonamallee Road, Manapakkam,
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Date: 07-Sep-2019

Page: 4 of 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC0E

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	77B4DC83	L45X45X4-E250A	1216.00	2.700	4	3.283	13.132	
103	77B4DC84	L45X45X4-E250A	802.00	2.700	4	2.165	8.660	
104	77B4DC85	L45X45X4-E250A	802.00	2.700	4	2.165	8.660	
105	77B4DC86	L45X45X4-E250A	1095.00	2.700	4	2.957	11.828	
106	77B4DC87H	L65X65X5H-E350A	4278.00	4.900	4	20.962	83.848	
Total Weight :							6939.012	

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 +0M BODY EXTN. FOR TOWER TYPE - "4DC" (400kV D/C QUAD)		
14MM PLATE H-E350A	HT	567.876
6MM PLATE H-E350A	HT	41.768
6MM PLATE-E250A	MS	68.636
8MM PLATE-E250A	MS	8.944
L120X120X10H-E350A	HT	138.608
L150X150X10H-E350A	HT	227.712
L150X150X12H-E350A	HT	2064.320
L45X30X4-E250A	MS	38.072
L45X45X4-E250A	MS	178.796
L45X45X4H-E350A	HT	87.156
L50X50X4-E250A	MS	343.608
L50X50X4H-E350A	HT	86.688
L55X55X4-E250A	MS	254.496
L60X60X4H-E350A	HT	41.960
L60X60X5H-E350A	HT	25.740
L65X65X5-E250A	MS	403.056
L65X65X5H-E350A	HT	362.088
L70X70X5-E250A	MS	114.440
L75X75X5-E250A	MS	133.840
L75X75X5H-E350A	HT	10.444
L75X75X6H-E350A	HT	1355.976

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** -- Item Welded with another item

*** -- Item Assembled with another item

Electrical Superintending Engineer
(Planning and Engineering)
Tamil Nadu State Power Transmission Company Limited
Vidyal Bhawan, Patna-800021

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27-09-19



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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/PQC0E

Order Ref: REF/LE19D023

L80X80X6H-E350A

HT

369.700

L90X90X6H-E350A

HT

15.088

Total

6939.012

HT

5395.124

MS

1543.888

APPROVED

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supplied as per specification

A

Electrical Superintending Engineer
(Planning and Engineering)
Tamil Nadu State Power Transmission Company Limited
Vidhyut Bhawan, Patna-800021

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27.09.19

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** -- Item Welded with another item

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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/PQC0B

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 - "4DC" (400kV D/C QUAD)								
1	PQC0B1	M16X35MM LONG (IS:12427)		0.119	388	0.119	46.172	
2	PQC0B2	M16X40MM LONG (IS:12427)		0.126	180	0.126	22.680	
3	PQC0B3	M16X45MM LONG (IS:12427)		0.134	140	0.134	18.760	
4	PQC0B4	M16X50MM LONG (IS:12427)		0.142	496	0.142	70.432	
5	PQC0B5	M16X55MM LONG (IS:12427)		0.150	64	0.150	9.600	
6	PQC0B6	M16X60MM LONG (IS:12427)		0.158	88	0.158	13.904	
7	PQC0B7	M16X65MM LONG (IS:12427)		0.164	64	0.164	10.496	
8	PQC0B8	M16X75MM LONG (IS:12427)		0.180	344	0.180	61.920	
9	PQC0B9	M16x3.5MM SPRING WASHER IS3063		0.009	1764	0.009	15.876	
10	PQC0B10	M16x175LG STEP BOLT (35OD) 2N+1SP		0.374	32	0.374	11.968	
Total Weight :							281.808	

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 +0M BODY EXTN. FOR TOWER TYPE - "4DC" (400kV D/C QUAD)		
M16x175LG STEP BOLT(35OD) 2N+1SP		11.968
M16x3.5MM SPRING WASHER IS3063		15.876
M16X35MM LONG (IS:12427)		46.172
M16X40MM LONG (IS:12427)		22.680
M16X45MM LONG (IS:12427)		18.760
M16X50MM LONG (IS:12427)		70.432
M16X55MM LONG (IS:12427)		9.600
M16X60MM LONG (IS:12427)		13.904
M16X65MM LONG (IS:12427)		10.496
M16X75MM LONG (IS:12427)		61.920
Total		281.808

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the responsibility for correctness of the material
specification
Electrical Superintending Engineer
(Planning and Engineering)
Tamil Nadu State Power Transmission Company Limited
Tidicut Bhawan, Patna-800021
Sk
27.09.19

** -- 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: 2 of 2

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC0B

Order Ref: REF/LE19D023

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)
Nar State Power Transmission Company Limited
Vidya Bhawan Patna-800021

Sk
27-09-19

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



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979, Mount-Poonamallee Road, Manapakkam,
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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/PQC0W

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 - "4DC" (400kV D/C QUAD)								
1	PQC0W1	M16x6MM ROUND PACK WASHER IS2016		0.021	204	0.021	4.284	
2	PQC0W2	M16x8MM ROUND PACK WASHER IS2016		0.028	176	0.028	4.928	
Total Weight :							9.212	

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 - "4DC" (400kV D/C QUAD)		
M16x6MM ROUND PACK WASHER IS2016		4.284
M16x8MM ROUND PACK WASHER IS2016		4.928
Total		9.212

APPROVED

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the responsibility for correctness of the materials
supplied as per specification


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

84
27.09.19

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