



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-0305**

BOM No. : **BOM/LE19D023/4DC/005**

NO OF SHEETS: **8**

BILL OF MATERIAL

+3M BODY EXTN. (ATT. TO BB) FOR TOWER TYPE - "4DC"

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

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQC3E	7004.736
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT. BOM/LE19D023/PQC3E = 1707.964 BOM/LE19D023/PQC3W = 10.024	1717.988
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQC3B	335.320
TOTAL WEIGHT OF STRUCTURE:	9058.044 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 Supervising Engineer
 (Planning and Engineering)
 Bihar State Power Transmission Company Limited
 Vidya Bhawan, Patna-800021

REV.	DATE	SUBMISSION FOR APPROVAL AFTER PROTO		PU	BSR	CSR
		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/PQC3E

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 +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DC" (400kV D/C QUAD)								
1	77B4DC3000SH	L150X150X12H-E350A	6400.00	27.300	2	174.720	349.440	
2	77B4DC3000AH	L150X150X12H-E350A	6400.00	27.300	2	174.720	349.440	
3	77B4DC3001H	L150X150X12H-E350A	6400.00	27.300	2	174.720	349.440	
4	77B4DC3001AH	L150X150X12H-E350A	6400.00	27.300	2	174.720	349.440	
5	77B4DC3002SH	L150X150X12H-E350A	6245.00	27.300	2	170.489	340.978	
6	77B4DC3002AH	L150X150X12H-E350A	6245.00	27.300	2	170.489	340.978	
7	77B4DC3003H	L150X150X12H-E350A	6245.00	27.300	2	170.489	340.978	
8	77B4DC3003AH	L150X150X12H-E350A	6245.00	27.300	2	170.489	340.978	
9	77B4DC3004H	L120X120X10H-E350A	476.00	18.200	16	8.663	138.608	
10	77B4DC3004AH	L150X150X10H-E350A	476.00	22.900	16	10.900	174.400	
11	77B4DC3005H	14MM PLATE H-E350A	276.00 X 476.00	109.900	8	14.438	115.504	
12	77B4DC3006H	14MM PLATE H-E350A	110.00 X 476.00	109.900	16	5.754	92.064	
13	77B4DC3007H	14MM PLATE H-E350A	64.00 X 316.00	109.900	4	2.223	8.892	
14	77B4DC3008H	14MM PLATE H-E350A	110.00 X 316.00	109.900	36	3.820	137.520	
15	77B4DC3009H	14MM PLATE H-E350A	315.00 X 316.00	109.900	4	10.939	43.756	
16	77B4DC3010H	14MM PLATE H-E350A	316.00 X 373.00	109.900	4	12.954	51.816	
17	77B4DC3011H	14MM PLATE H-E350A	187.00 X 316.00	109.900	4	6.494	25.976	
18	77B4DC3012H	14MM PLATE H-E350A	189.00 X 316.00	109.900	4	6.564	26.256	
19	77B4DC3013H	L150X150X10H-E350A	303.00	22.900	8	6.939	55.512	
20	77B4DC3014H	14MM PLATE H-E350A	303.00 X 316.00	109.900	4	10.523	42.092	
21	77B4DC3015H	14MM PLATE H-E350A	130.00 X 303.00	109.900	8	4.329	34.632	
22	77B4DC3016LH	L80X80X6H-E350A	5500.00	7.300	4	40.150	160.600	
23	77B4DC3016RH	L80X80X6H-E350A	5500.00	7.300	4	40.150	160.600	
24	77B4DC3017LH	L80X80X6H-E350A	5502.00	7.300	4	40.165	160.660	
25	77B4DC3017RH	L80X80X6H-E350A	5502.00	7.300	4	40.165	160.660	
26	77B4DC3018LH	L80X80X6H-E350A	5076.00	7.300	4	37.055	148.220	
27	77B4DC3018RH	L80X80X6H-E350A	5076.00	7.300	4	37.055	148.220	
28	77B4DC3019LH	L80X80X6H-E350A	5076.00	7.300	4	37.055	148.220	
29	77B4DC3019RH	L80X80X6H-E350A	5076.00	7.300	4	37.055	148.220	
30	77B4DC3020LH	L80X80X6H-E350A	4750.00	7.300	4	34.675	138.700	
31	77B4DC3020RH	L80X80X6H-E350A	4750.00	7.300	4	34.675	138.700	
32	77B4DC3021LH	L80X80X6H-E350A	4750.00	7.300	4	34.675	138.700	
33	77B4DC3021RH	L80X80X6H-E350A	4750.00	7.300	4	34.675	138.700	

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

Electrical Superintending Engineer
(Planning and Engineering)

Tamil Nadu State Power Transmission Corporation Limited



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

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/PQC3E

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	77B4DC3022LH	L60X60X5H-E350A	286.00	4.500	16	1.287	20.592	
35	77B4DC3022RH	L60X60X5H-E350A	286.00	4.500	16	1.287	20.592	
36	77B4DC3023H	14MM PLATE H-E350A	60.00 X 286.00	109.900	16	1.886	30.176	
37	77B4DC3024H	6MM PLATE H-E350A	156.00 X 286.00	47.100	16	2.101	33.616	
38	77B4DC3025L	L45X45X4-E250A	512.00	2.700	4	1.382	5.528	
39	77B4DC3025R	L45X45X4-E250A	512.00	2.700	4	1.382	5.528	
40	77B4DC3026L	L45X45X4-E250A	1286.00	2.700	4	3.472	13.888	
41	77B4DC3026R	L45X45X4-E250A	1286.00	2.700	4	3.472	13.888	
42	77B4DC3027LH	L45X45X4H-E350A	1027.00	2.700	4	2.773	11.092	
43	77B4DC3027RH	L45X45X4H-E350A	1027.00	2.700	4	2.773	11.092	
44	77B4DC3028L	L70X70X5-E250A	2841.00	5.300	4	15.057	60.228	
45	77B4DC3028R	L70X70X5-E250A	2841.00	5.300	4	15.057	60.228	
46	77B4DC3029LH	L60X60X5H-E350A	2073.00	4.500	3	9.329	27.987	
47	77B4DC3029RH	L60X60X5H-E350A	2073.00	4.500	3	9.329	27.987	
48	77B4DC3029AL H	L60X60X5H-E350A H	2073.00	4.500	1	9.329	9.329	
49	77B4DC3029AR H	L60X60X5H-E350A H	2073.00	4.500	1	9.329	9.329	
50	77B4DC3030H	6MM PLATE H-E350A	110.00 X 136.00	47.100	8	0.705	5.640	
51	77B4DC3030A	8MM PLATE-E250A	50.00 X 136.00	62.800	8	0.427	3.416	
52	77B4DC3031L	L70X70X5-E250A	2674.00	5.300	3	14.172	42.516	
53	77B4DC3031R	L70X70X5-E250A	2674.00	5.300	3	14.172	42.516	
54	77B4DC3031AL	L70X70X5-E250A	2674.00	5.300	1	14.172	14.172	
55	77B4DC3031AR	L70X70X5-E250A	2674.00	5.300	1	14.172	14.172	
56	77B4DC3032L	L50X50X4-E250A	2719.00	3.000	4	8.157	32.628	
57	77B4DC3032R	L50X50X4-E250A	2719.00	3.000	4	8.157	32.628	
58	77B4DC3033LH	L60X60X5H-E350A	3119.00	4.500	4	14.036	56.144	
59	77B4DC3033RH	L60X60X5H-E350A	3119.00	4.500	4	14.036	56.144	
60	77B4DC3034H	6MM PLATE H-E350A	110.00 X 126.00	47.100	8	0.653	5.224	
61	77B4DC3034A	8MM PLATE-E250A	50.00 X 126.00	62.800	8	0.396	3.168	
62	77B4DC3035L	L50X50X4-E250A	2942.00	3.000	4	8.826	35.304	
63	77B4DC3035R	L50X50X4-E250A	2942.00	3.000	4	8.826	35.304	
64	77B4DC3036L	L70X70X5-E250A	2959.00	5.300	4	15.683	62.732	
65	77B4DC3036R	L70X70X5-E250A	2959.00	5.300	4	15.683	62.732	
66	77B4DC3037LH	L70X70X5H-E350A	4165.00	5.300	4	22.075	88.300	
67	77B4DC3037RH	L70X70X5H-E350A	4165.00	5.300	4	22.075	88.300	

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

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



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

Date: 07-Sep-2019

Page: 3 of 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC3E

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	77B4DC3038H	6MM PLATE H-E350A	110.00 X 126.00	47.100	8	0.653	5.224	
69	77B4DC3038A	8MM PLATE-E250A	50.00 X 126.00	62.800	8	0.396	3.168	
70	77B4DC3039L	L70X70X5-E250A	4400.00	5.300	4	23.320	93.280	
71	77B4DC3039R	L70X70X5-E250A	4400.00	5.300	4	23.320	93.280	
72	77B4DC3040L	L55X55X4-E250A	1707.00	3.300	4	5.633	22.532	
73	77B4DC3040R	L55X55X4-E250A	1707.00	3.300	4	5.633	22.532	
74	77B4DC3041L	L45X30X4-E250A	1327.00	2.200	4	2.919	11.676	
75	77B4DC3041R	L45X30X4-E250A	1327.00	2.200	4	2.919	11.676	
76	77B4DC3042L	L50X50X4-E250A	4153.00	3.000	4	12.459	49.836	
77	77B4DC3042R	L50X50X4-E250A	4153.00	3.000	4	12.459	49.836	
78	77B4DC3043LH	L45X45X4H-E350A	1651.00	2.700	4	4.458	17.832	
79	77B4DC3043RH	L45X45X4H-E350A	1651.00	2.700	4	4.458	17.832	
80	77B4DC3044H	6MM PLATE H-E350A	100.00 X 110.00	47.100	8	0.518	4.144	
81	77B4DC3044A	8MM PLATE-E250A	50.00 X 100.00	62.800	8	0.314	2.512	
82	77B4DC3045L	L45X45X4-E250A	2621.00	2.700	4	7.077	28.308	
83	77B4DC3045R	L45X45X4-E250A	2621.00	2.700	4	7.077	28.308	
84	77B4DC3045A	6MM PLATE-E250A	110.00 X 115.00	47.100	8	0.596	4.768	
85	77B4DC3046H	14MM PLATE H-E350A	296.00 X 370.00	109.900	4	12.036	48.144	
86	77B4DC3047H	L80X80X6H-E350A	6800.00	7.300	4	49.640	198.560	
87	77B4DC3048H	L80X80X6H-E350A	5861.00	7.300	4	42.785	171.140	
88	77B4DC3049H	L60X60X5H-E350A	286.00	4.500	4	1.287	5.148	
89	77B4DC3050H	6MM PLATE H-E350A	60.00 X 286.00	47.100	8	0.808	6.464	
90	77B4DC3051	L45X45X4-E250A	1383.00	2.700	4	3.734	14.936	
91	77B4DC3052	L50X50X4-E250A	3285.00	3.000	4	9.855	39.420	
92	77B4DC3052X	L50X50X4-E250A	3285.00	3.000	4	9.855	39.420	
93	77B4DC3053	L50X50X4-E250A	4410.00	3.000	8	13.230	105.840	
94	77B4DC3054	L60X60X4-E250A	5672.00	3.700	8	20.986	167.888	
95	77B4DC3055L	L55X55X4-E250A	5118.00	3.300	4	16.889	67.556	
96	77B4DC3055R	L55X55X4-E250A	5118.00	3.300	4	16.889	67.556	
97	77B4DC3056LH	L50X50X4H-E350A	2373.00	3.000	4	7.119	28.476	
98	77B4DC3056RH	L50X50X4H-E350A	2373.00	3.000	4	7.119	28.476	
99	77B4DC3057	L45X30X4-E250A	1256.00	2.200	8	2.763	22.104	
100	77B4DC3058L	L45X45X4-E250A	3991.00	2.700	4	10.776	43.104	
101	77B4DC3058R	L45X45X4-E250A	3991.00	2.700	4	10.776	43.104	

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

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



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

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/PQC3E

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	77B4DC3059	6MM PLATE-E250A	110.00 X 156.00	47.100	8	0.808	6.464	
103	77B4DC3060	6MM PLATE-E250A	110.00 X 246.00	47.100	16	1.275	20.400	
104	77B4DC3062L	6MM PLATE-E250A	125.00 X 282.00	47.100	4	1.660	6.640	
105	77B4DC3062R	6MM PLATE-E250A	125.00 X 282.00	47.100	4	1.660	6.640	
106	77B4DC3063L	6MM PLATE-E250A	110.00 X 276.00	47.100	4	1.430	5.720	
107	77B4DC3063R	6MM PLATE-E250A	110.00 X 276.00	47.100	4	1.430	5.720	
108	77B4DC3064L	6MM PLATE-E250A	110.00 X 279.00	47.100	4	1.445	5.780	
109	77B4DC3064R	6MM PLATE-E250A	110.00 X 279.00	47.100	4	1.445	5.780	
110	77B4DC3065H	6MM PLATE H-E350A	110.00 X 246.00	47.100	8	1.275	10.200	
111	77B4DC3066L	6MM PLATE-E250A	114.00 X 267.00	47.100	4	1.434	5.736	
112	77B4DC3066R	6MM PLATE-E250A	114.00 X 267.00	47.100	4	1.434	5.736	
113	77B4DC3067	6MM PLATE-E250A	140.00 X 179.00	47.100	4	1.180	4.720	
114	77B4DC3068H	L90X90X6H-E350A	460.00	8.200	4	3.772	15.088	
115	77B4DC3069H	L60X60X4H-E350A	2835.00	3.700	4	10.490	41.960	
116	77B4DC3070H	L65X65X5H-E350A	7098.00	4.900	4	34.780	139.120	
117	77B4DC3070XH	L65X65X5H-E350A	7098.00	4.900	4	34.780	139.120	
118	77B4DC3071H	L75X75X5H-E350A	458.00	5.700	4	2.611	10.444	
119	77B4DC3072H	L45X45X4H-E350A	1531.00	2.700	4	4.134	16.536	
120	77B4DC3073H	L45X45X4H-E350A	1531.00	2.700	4	4.134	16.536	
121	77B4DC3074	L45X45X4-E250A	1216.00	2.700	4	3.283	13.132	
122	77B4DC3075	L45X45X4-E250A	1216.00	2.700	4	3.283	13.132	
123	77B4DC3076	L45X45X4-E250A	802.00	2.700	4	2.165	8.660	
124	77B4DC3077	L45X45X4-E250A	802.00	2.700	4	2.165	8.660	
125	77B4DC3078	L45X45X4-E250A	1095.00	2.700	4	2.957	11.828	
126	77B4DC3079H	L65X65X5H-E350A	4278.00	4.900	4	20.962	83.848	

Total Weight : 8712.700

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 +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER
TYPE - "4DC" (400kV D/C QUAD)**

14MM PLATE H-E350A

656.828

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

Electrical Superintending Engineer
(Planning and Engineering)

Pinar State Power Transmission Company Limited
2000021



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

Date: 07-Sep-2019

Page: 5 of 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC3E

Order Ref: REF/LE19D023

6MM PLATE H-E350A	HT	70.512
6MM PLATE-E250A	MS	84.104
8MM PLATE-E250A	MS	12.264
L120X120X10H-E350A	HT	138.608
L150X150X10H-E350A	HT	229.912
L150X150X12H-E350A	HT	2761.672
L45X30X4-E250A	MS	45.456
L45X45X4-E250A	MS	252.004
L45X45X4H-E350A	HT	90.920
L50X50X4-E250A	MS	420.216
L50X50X4H-E350A	HT	56.952
L55X55X4-E250A	MS	180.176
L60X60X4-E250A	MS	167.888
L60X60X4H-E350A	HT	41.960
L60X60X5H-E350A	HT	233.252
L65X65X5H-E350A	HT	362.088
L70X70X5-E250A	MS	545.856
L70X70X5H-E350A	HT	176.600
L75X75X5H-E350A	HT	10.444
L80X80X6H-E350A	HT	2159.900
L90X90X6H-E350A	HT	15.088
Total		8712.700
HT		7004.736
MS		1707.964

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 2

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQC3B

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 +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DC" (400kV D/C QUAD)								
1	PQC3B1	M16X35MM LONG (IS:12427)		0.119	452	0.119	53.788	
2	PQC3B9	M16x3.5MM SPRING WASHER IS3063		0.009	2096	0.009	18.864	
3	PQC3B2	M16X40MM LONG (IS:12427)		0.126	232	0.126	29.232	
4	PQC3B3	M16X45MM LONG (IS:12427)		0.134	204	0.134	27.336	
5	PQC3B4	M16X50MM LONG (IS:12427)		0.142	592	0.142	84.064	
6	PQC3B5	M16X55MM LONG (IS:12427)		0.150	80	0.150	12.000	
7	PQC3B6	M16X60MM LONG (IS:12427)		0.158	96	0.158	15.168	
8	PQC3B7	M16X65MM LONG (IS:12427)		0.164	96	0.164	15.744	
9	PQC3B8	M16X75MM LONG (IS:12427)		0.180	344	0.180	61.920	
10	PQC3B10	M16x175LG STEP BOLT (35OD) 2N+1SP		0.374	46	0.374	17.204	
Total Weight :							335.320	

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 +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DC" (400kV D/C QUAD)		
M16x175LG STEP BOLT(35OD) 2N+1SP		17.204
M16x3.5MM SPRING WASHER IS3063		18.864
M16X35MM LONG (IS:12427)		53.788
M16X40MM LONG (IS:12427)		29.232
M16X45MM LONG (IS:12427)		27.336
M16X50MM LONG (IS:12427)		84.064
M16X55MM LONG (IS:12427)		12.000
M16X60MM LONG (IS:12427)		15.168
M16X65MM LONG (IS:12427)		15.744
M16X75MM LONG (IS:12427)		61.920
Total		335.320

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

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

8/10/19



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/PQC3B

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)
Bihar State Power Transmission Company Limited
Vidyut Bhawan, Patna-800021

SK
22.10.19





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/PQC3W

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 +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DC" (400kV D/C QUAD)								
1	PQC3W1	M16x6MM ROUND PACK WASHER IS2016		0.021	232	0.021	4.872	
2	PQC3W2	M16x8MM ROUND PACK WASHER IS2016		0.028	184	0.028	5.152	
Total Weight :							10.024	

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 +3M BODY EXTN. (ATT. TO BASIC BODY) FOR TOWER TYPE - "4DC" (400kV D/C QUAD)		
M16x6MM ROUND PACK WASHER IS2016		4.872
M16x8MM ROUND PACK WASHER IS2016		5.152
Total		10.024

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 Bhawan, Patna-800021

SK
22.10.19

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