



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-0106

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

NO OF SHEETS: 7

BILL OF MATERIAL
+6M BODY EXTN. FOR TOWER TYPE - "4DA"
400KV D/C QUAD ACSR MOOSE (WZ-4)

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQA6E	1672.890
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT. BOM/LE19D023/PQA6E = 1881.184 BOM/LE19D023/PQA6W = 0.156	1881.340
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQA6B	109.292
TOTAL WEIGHT OF STRUCTURE:	3663.522 Kgs

APPROVED

Subject to the condition that you are not absolved of
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

Page: 1 of 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA6E

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 - "4DA" (400kV D/C QUAD)								
1	77B4DA6000SH	L150X150X14H-E350A	6165.00	31.500	2	194.198	388.396	
2	77B4DA6001H	L150X150X14H-E350A	6165.00	31.500	2	194.198	388.396	
3	77B4DA6002H	L120X120X10H-E350A	436.00	18.200	4	7.935	31.740	
4	77B4DA6003H	10MM PLATE H-E350A	110.00 X 436.00	78.500	8	3.765	30.120	
5	77B4DA6004L	L90X90X6-E250A	5400.00	8.200	2	44.280	88.560	
6	77B4DA6004R	L90X90X6-E250A	5400.00	8.200	2	44.280	88.560	
7	77B4DA6005L	L90X90X6-E250A	4849.00	8.200	2	39.762	79.524	
8	77B4DA6005R	L90X90X6-E250A	4849.00	8.200	2	39.762	79.524	
9	77B4DA6006L	L70X70X5-E250A	286.00	5.300	2	1.516	3.032	
10	77B4DA6006R	L70X70X5-E250A	286.00	5.300	2	1.516	3.032	
11	77B4DA6007	5MM PLATE-E250A	70.00 X 286.00	39.250	8	0.786	6.288	
12	77B4DA6008L	L50X50X4-E250A	1840.00	3.000	2	5.520	11.040	
13	77B4DA6008R	L50X50X4-E250A	1840.00	3.000	2	5.520	11.040	
14	77B4DA6009L	L55X55X4-E250A	2551.00	3.300	2	8.418	16.836	
15	77B4DA6009R	L55X55X4-E250A	2551.00	3.300	2	8.418	16.836	
16	77B4DA6010L	L45X30X4-E250A	1571.00	2.200	2	3.456	6.912	
17	77B4DA6010R	L45X30X4-E250A	1571.00	2.200	2	3.456	6.912	
18	77B4DA6011L	L60X60X4-E250A	3631.00	3.700	1	13.435	13.435	
19	77B4DA6011R	L60X60X4-E250A	3631.00	3.700	1	13.435	13.435	
20	77B4DA6011AL	L60X60X4-E250A	3631.00	3.700	1	13.435	13.435	
21	77B4DA6011AR	L60X60X4-E250A	3631.00	3.700	1	13.435	13.435	
22	77B4DA6012L	L50X50X4-E250A	1827.00	3.000	2	5.481	10.962	
23	77B4DA6012R	L50X50X4-E250A	1827.00	3.000	2	5.481	10.962	
24	77B4DA6013L	L50X50X4-E250A	2102.00	3.000	2	6.306	12.612	
25	77B4DA6013R	L50X50X4-E250A	2102.00	3.000	2	6.306	12.612	
26	77B4DA6014	L45X30X4-E250A	1487.00	2.200	4	3.271	13.084	
27	77B4DA6015L	L60X60X4-E250A	5066.00	3.700	1	18.744	18.744	
28	77B4DA6015R	L60X60X4-E250A	5066.00	3.700	1	18.744	18.744	
29	77B4DA6015AL	L60X60X4-E250A	5066.00	3.700	1	18.744	18.744	
30	77B4DA6015AR	L60X60X4-E250A	5066.00	3.700	1	18.744	18.744	
31	77B4DA6016	L45X45X4-E250A	3084.00	2.700	4	8.327	33.308	
32	77B4DA6017LH	L45X45X4H-E350A	1860.00	2.700	2	5.022	10.044	
33	77B4DA6017RH	L45X45X4H-E350A	1860.00	2.700	2	5.022	10.044	

APPROVED

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Signature

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

84
18/19

A

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



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Page: 2 of 5

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA6E

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	77B4DA6018	L45X45X4-E250A	2149.00	2.700	4	5.802	23.208	
35	77B4DA6019	L75X75X6-E250A	3900.00	6.800	2	26.520	53.040	
36	77B4DA6020	L75X75X6-E250A	6639.00	6.800	2	45.145	90.290	
37	77B4DA6021	L75X75X6-E250A	3900.00	6.800	2	26.520	53.040	
38	77B4DA6022	L65X65X5-E250A	286.00	4.900	4	1.401	5.604	
39	77B4DA6023	5MM PLATE-E250A	60.00 X 286.00	39.250	8	0.674	5.392	
40	77B4DA6024LH	L90X90X6H-E350A	5050.00	8.200	2	41.410	82.820	
41	77B4DA6024RH	L90X90X6H-E350A	5050.00	8.200	2	41.410	82.820	
42	77B4DA6025LH	L90X90X6H-E350A	4387.00	8.200	2	35.973	71.946	
43	77B4DA6025RH	L90X90X6H-E350A	4387.00	8.200	2	35.973	71.946	
44	77B4DA6026LH	L70X70X5H-E350A	316.00	5.300	2	1.675	3.350	
45	77B4DA6026RH	L70X70X5H-E350A	316.00	5.300	2	1.675	3.350	
46	77B4DA6027H	5MM PLATE H-E350A	70.00 X 316.00	39.250	8	0.868	6.944	
47	77B4DA6028L	L50X50X4-E250A	1625.00	3.000	2	4.875	9.750	
48	77B4DA6028R	L50X50X4-E250A	1625.00	3.000	2	4.875	9.750	
49	77B4DA6029L	L50X50X4-E250A	2346.00	3.000	2	7.038	14.076	
50	77B4DA6029R	L50X50X4-E250A	2346.00	3.000	2	7.038	14.076	
51	77B4DA6030	L45X30X4-E250A	1571.00	2.200	4	3.456	13.824	
52	77B4DA6031L	L55X55X4-E250A	3199.00	3.300	2	10.557	21.114	
53	77B4DA6031R	L55X55X4-E250A	3199.00	3.300	2	10.557	21.114	
54	77B4DA6032L	L50X50X4-E250A	1611.00	3.000	2	4.833	9.666	
55	77B4DA6032R	L50X50X4-E250A	1611.00	3.000	2	4.833	9.666	
56	77B4DA6033L	L50X50X4-E250A	1984.00	3.000	2	5.952	11.904	
57	77B4DA6033R	L50X50X4-E250A	1984.00	3.000	2	5.952	11.904	
58	77B4DA6034L	L45X30X4-E250A	1484.00	2.200	2	3.265	6.530	
59	77B4DA6034R	L45X30X4-E250A	1484.00	2.200	2	3.265	6.530	
60	77B4DA6035L	L55X55X4-E250A	4659.00	3.300	2	15.375	30.750	
61	77B4DA6035R	L55X55X4-E250A	4659.00	3.300	2	15.375	30.750	
62	77B4DA6036	L45X45X4-E250A	3086.00	2.700	4	8.332	33.328	
63	77B4DA6037LH	L45X45X4H-E350A	1645.00	2.700	2	4.442	8.884	
64	77B4DA6037RH	L45X45X4H-E350A	1645.00	2.700	2	4.442	8.884	
65	77B4DA6038	L45X45X4-E250A	2041.00	2.700	4	5.511	22.044	
66	77B4DA6039	L70X70X6-E250A	6750.00	6.300	2	42.525	85.050	
67	77B4DA6040	L70X70X6-E250A	5970.00	6.300	2	37.611	75.222	

APPROVED

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Electrical Superintending Engineer
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Bihar State Power Corporation



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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA6E

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	77B4DA6041	L65X65X5-E250A	286.00	4.900	2	1.401	2.802	
69	77B4DA6042	5MM PLATE-E250A	60.00 X 286.00	39.250	4	0.674	2.696	
70	77B4DA6043	5MM PLATE-E250A	105.00 X 136.00	39.250	4	0.560	2.240	
71	77B4DA6044H	L50X50X4H-E350A	2340.00	3.000	4	7.020	28.080	
72	77B4DA6045L	L50X50X4-E250A	4289.00	3.000	2	12.867	25.734	
73	77B4DA6045R	L50X50X4-E250A	4289.00	3.000	2	12.867	25.734	
74	77B4DA6046L	L50X50X4-E250A	3926.00	3.000	2	11.778	23.556	
75	77B4DA6046R	L50X50X4-E250A	3926.00	3.000	2	11.778	23.556	
76	77B4DA6047L	L60X60X4-E250A	2718.00	3.700	2	10.057	20.114	
77	77B4DA6047R	L60X60X4-E250A	2718.00	3.700	2	10.057	20.114	
78	77B4DA6048L	L70X70X5-E250A	6043.00	5.300	2	32.028	64.056	
79	77B4DA6048R	L70X70X5-E250A	6043.00	5.300	2	32.028	64.056	
80	77B4DA6049L	L60X60X4-E250A	2504.00	3.700	2	9.265	18.530	
81	77B4DA6049R	L60X60X4-E250A	2504.00	3.700	2	9.265	18.530	
82	77B4DA6050L	L60X60X4-E250A	5543.00	3.700	2	20.509	41.018	
83	77B4DA6050R	L60X60X4-E250A	5543.00	3.700	2	20.509	41.018	
84	77B4DA6051L	L50X50X4-E250A	2833.00	3.000	2	8.499	16.998	
85	77B4DA6051R	L50X50X4-E250A	2833.00	3.000	2	8.499	16.998	
86	77B4DA6052L	L50X50X4-E250A	2832.00	3.000	2	8.496	16.992	
87	77B4DA6052R	L50X50X4-E250A	2832.00	3.000	2	8.496	16.992	
88	77B4DA6053	L45X30X4-E250A	1358.00	2.200	4	2.988	11.952	
89	77B4DA6054	L45X30X4-E250A	1472.00	2.200	4	3.238	12.952	
90	77B4DA6055H	5MM PLATE H-E350A	110.00 X 145.00	39.250	4	0.626	2.504	
91	77B4DA6056H	5MM PLATE H-E350A	110.00 X 145.00	39.250	4	0.626	2.504	
92	77B4DA6057L	5MM PLATE-E250A	175.00 X 206.00	39.250	2	1.415	2.830	
93	77B4DA6057R	5MM PLATE-E250A	175.00 X 206.00	39.250	2	1.415	2.830	
94	77B4DA6058L	5MM PLATE-E250A	182.00 X 213.00	39.250	2	1.522	3.044	
95	77B4DA6058R	5MM PLATE-E250A	182.00 X 213.00	39.250	2	1.522	3.044	
96	77B4DA6059	5MM PLATE-E250A	110.00 X 145.00	39.250	4	0.626	2.504	
97	77B4DA6059AL	5MM PLATE-E250A	115.00 X 163.00	39.250	2	0.736	1.472	
98	77B4DA6059AR	5MM PLATE-E250A	115.00 X 163.00	39.250	2	0.736	1.472	
99	77B4DA6060	5MM PLATE-E250A	110.00 X 145.00	39.250	4	0.626	2.504	
100	77B4DA6060AL	5MM PLATE-E250A	113.00 X 167.00	39.250	2	0.741	1.482	
101	77B4DA6060AR	5MM PLATE-E250A	113.00 X 167.00	39.250	2	0.741	1.482	

APPROVED

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Electrical Superintending Engineer
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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQA6E

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	77B4DA6061	L50X50X4-E250A	376.00	3.000	2	1.128	2.256	
103	77B4DA6061A	L50X50X4-E250A	376.00	3.000	2	1.128	2.256	
104	77B4DA6062H	L70X70X5H-E350A	2450.00	5.300	2	12.985	25.970	
105	77B4DA6062AH	L70X70X5H-E350A	2450.00	5.300	2	12.985	25.970	
106	77B4DA6063H	L70X70X5H-E350A	5636.00	5.300	2	29.871	59.742	
107	77B4DA6063AH	L70X70X5H-E350A	5636.00	5.300	2	29.871	59.742	
108	77B4DA6064H	L65X65X5H-E350A	2250.00	4.900	2	11.025	22.050	
109	77B4DA6064AH	L65X65X5H-E350A	2250.00	4.900	2	11.025	22.050	
110	77B4DA6065H	L65X65X5H-E350A	5257.00	4.900	2	25.759	51.518	
111	77B4DA6065AH	L65X65X5H-E350A	5257.00	4.900	2	25.759	51.518	
112	77B4DA6066H	L45X45X4H-E350A	1629.00	2.700	2	4.398	8.796	
113	77B4DA6066AH	L45X45X4H-E350A	1629.00	2.700	2	4.398	8.796	
114	77B4DA6067H	L45X45X4H-E350A	1643.00	2.700	2	4.436	8.872	
115	77B4DA6067AH	L45X45X4H-E350A	1643.00	2.700	2	4.436	8.872	
116	77B4DA6068	L45X45X4-E250A	1260.00	2.700	2	3.402	6.804	
117	77B4DA6068A	L45X45X4-E250A	1260.00	2.700	2	3.402	6.804	
118	77B4DA6068B	L45X45X4-E250A	854.00	2.700	2	2.306	4.612	
119	77B4DA6068C	L45X45X4-E250A	854.00	2.700	2	2.306	4.612	
120	77B4DA6069	L45X45X4-E250A	1357.00	2.700	2	3.664	7.328	
121	77B4DA6069A	L45X45X4-E250A	1357.00	2.700	2	3.664	7.328	
122	77B4DA6069B	L45X45X4-E250A	853.00	2.700	2	2.303	4.606	
123	77B4DA6069C	L45X45X4-E250A	853.00	2.700	2	2.303	4.606	
124	77B4DA6070	L45X45X4-E250A	1103.00	2.700	2	2.978	5.956	
125	77B4DA6071	L45X45X4-E250A	1248.00	2.700	2	3.370	6.740	
126	77B4DA6072H	L65X65X5H-E350A	4861.00	4.900	2	23.819	47.638	
127	77B4DA6073H	L60X60X5H-E350A	4287.00	4.500	2	19.292	38.584	
Total Weight :							3554.074	

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 - "4DA" (400kV D/C QUAD)

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Electrical Superintending Engineer
(Planning and Engineering)

Bihar State Power Transmission Company Limited

Vidyut Bhawan Patna-800021



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

Bom No : BOM/LE19D023/PQA6E

Order Ref: REF/LE19D023

10MM PLATE H-E350A	HT	30.120
5MM PLATE H-E350A	HT	11.952
5MM PLATE-E250A	MS	39.280
L120X120X10H-E350A	HT	31.740
L150X150X14H-E350A	HT	776.792
L45X30X4-E250A	MS	78.696
L45X45X4-E250A	MS	171.284
L45X45X4H-E350A	HT	73.192
L50X50X4-E250A	MS	331.092
L50X50X4H-E350A	HT	28.080
L55X55X4-E250A	MS	137.400
L60X60X4-E250A	MS	288.040
L60X60X5H-E350A	HT	38.584
L65X65X5-E250A	MS	8.406
L65X65X5H-E350A	HT	194.774
L70X70X5-E250A	MS	134.176
L70X70X5H-E350A	HT	178.124
L70X70X6-E250A	MS	160.272
L75X75X6-E250A	MS	196.370
L90X90X6-E250A	MS	336.168
L90X90X6H-E350A	HT	309.532
Total		3554.074
HT		1672.890
MS		1881.184

APPROVED

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(Signature)

Electrical Superintending Engineer
(Planning and Engineering)

Bihar State Power Transmission Company Limited

Vidyut Bhawan, Patna-800021

** -- Item Welded with another item

*** -- Item Assembled with another item

SK 22.10.19

(Signature)



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

Bom No : BOM/LE19D023/PQA6B

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 - "4DA" (400kV D/C QUAD)								
1	PQA6B7	M16x175LG STEP BOLT (35OD) 2N+1SP		0.374	28	0.374	10.472	
2	PQA6B1	M16X35MM LONG (IS:12427)		0.119	308	0.119	36.652	
3	PQA6B2	M16X40MM LONG (IS:12427)		0.126	196	0.126	24.696	
4	PQA6B3	M16X45MM LONG (IS:12427)		0.134	120	0.134	16.080	
5	PQA6B4	M16X50MM LONG (IS:12427)		0.142	16	0.142	2.272	
6	PQA6B5	M16X60MM LONG (IS:12427)		0.158	80	0.158	12.640	
7	PQA6B6	M16x3.5MM SPRING WASHER IS3063		0.009	720	0.009	6.480	
Total Weight :							109.292	

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 - "4DA" (400kV D/C QUAD)		
M16x175LG STEP BOLT(35OD) 2N+1SP		10.472
M16x3.5MM SPRING WASHER IS3063		6.480
M16X35MM LONG (IS:12427)		36.652
M16X40MM LONG (IS:12427)		24.696
M16X45MM LONG (IS:12427)		16.080
M16X50MM LONG (IS:12427)		2.272
M16X60MM LONG (IS:12427)		12.640
Total		109.292

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

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

22.10.19



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/PQA6W

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 - "4DA" (400kV D/C QUAD)								
1	PQA6W1	M16x5MM ROUND PACK WASHER IS2016		0.018	4	0.018	0.072	
2	PQA6W2	M16x6MM ROUND PACK WASHER IS2016		0.021	4	0.021	0.084	
Total Weight :							0.156	

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 - "4DA" (400kV D/C QUAD)		
M16x5MM ROUND PACK WASHER IS2016		0.072
M16x6MM ROUND PACK WASHER IS2016		0.084
Total		0.156

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