



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-0101**

BOM No. : **BOM/LE19D023/4DA/001**

NO OF SHEETS: **2**

BILL OF MATERIAL

STUB & CLEATS FOR TOWER TYPE - "4DA"

400KV D/C QUAD WZ-4 (NT TO +9M EXTN.)

3M DEPTH FOUNDATION

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQASC	511.592
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT.	-
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQASB	11.824
TOTAL WEIGHT OF STRUCTURE:	523.416 Kgs

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
24.05.19

1	17.08.19	RESUBMISSION AFTER SUCCESSFUL TOWER TESTING	PU	BSR	CSR
0	01.04.19	FIRST SUBMISSION FOR APPROVAL	PU	BSR	CSR
REV.	DATE	DESCRIPTION	CHKD.	REVED.	APPD.
PREPARED BY		CHECKED BY	REVIEWED BY	APPROVED BY	DATE
MBR		PU	BSR	CSR	01.04.19

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: 17-Aug-2019

Page: 1 of 1

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQASC

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 STUB & CLEATS FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	77B4DA1H	L150X150X14H-E350A	3663.00	31.500	2	115.385	230.770	
2	77B4DA2H	L150X150X14H-E350A	3663.00	31.500	2	115.385	230.770	
3	77B4DA3H	L70X70X5H-E350A	255.00	5.300	16	1.352	21.632	
4	77B4DA4LH	L70X70X5H-E350A	190.00	5.300	8	1.007	8.056	
5	77B4DA4RH	L70X70X5H-E350A	190.00	5.300	8	1.007	8.056	
6	77B4DA5H	6MM PLATE H-E350A	90.00 X 360.00	47.100	4	1.526	6.104	
7	77B4DA6H	6MM PLATE H-E350A	90.00 X 366.00	47.100	4	1.551	6.204	
Total Weight :							511.592	

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 STUB & CLEATS FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
6MM PLATE H-E350A	HT	12.308
L150X150X14H-E350A	HT	461.540
L70X70X5H-E350A	HT	37.744
Total		511.592
	HT	511.592

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

APPROVED

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applied as per specification

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

SK
24.09.19



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Page: 1 of 1

BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQASB

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 STUB & CLEATS FOR TOWER TYPE - "4DA" (400kV D/C QUAD)								
1	PQASB1	M16X45MM LONG (IS:12427)		0.134	32	0.134	4.288	
2	PQASB2	M16X50MM LONG (IS:12427)		0.142	48	0.142	6.816	
3	PQASB3	M16x3.5MM SPRING WASHER IS3063		0.009	80	0.009	0.720	
Total Weight :							11.824	

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 STUB & CLEATS FOR TOWER TYPE - "4DA" (400kV D/C QUAD)		
M16x3.5MM SPRING WASHER IS3063		0.720
M16X45MM LONG (IS:12427)		4.288
M16X50MM LONG (IS:12427)		6.816
Total		11.824

APPROVED

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

Sk
24.09.19

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