



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-0201**

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

NO OF SHEETS: **2**

BILL OF MATERIAL

STUB & CLEATS FOR TOWER TYPE - "4DB"

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

3M DEPTH FOUNDATION

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
 Vidut Bhawan, Patna-80002

इंजीनियरी अधिकारी/ENGINEERING OFFICER
 यांत्रिक इंजीनियरी प्रभाग
 Mechanical Engineering Division
 केन्द्रीय विद्युत अनुसंधान संस्थान
 Central Power Research Institute
 पो. बा. सं. 8066, P.B. No. 8066
 बंगलूर / Bangalore - 560 080

WEIGHT OF STRUCTURE	
WT MEMBERS: BOM/LE19D023/PQBSC	795.48
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT.	-
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQBSB	14.240
TOTAL WEIGHT OF STRUCTURE:	809.72 Kgs

0	10.04.19	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		10.04.19

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: 10-Apr-2019

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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQBSC

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 - "4DB" (400KV D/C QUAD)								
1	77B4DB1H	L200X200X15H-E350A	3829.00	45.600	4	174.602	698.408	
2	77B4DB2H	6MM PLATE H-E350A	130.00 X 455.00	47.100	8	2.786	22.288	
3	77B4DB3LH	L90X90X6H-E350A	220.00	8.200	8	1.804	14.432	
4	77B4DB3RH	L90X90X6H-E350A	220.00	8.200	8	1.804	14.432	
5	77B4DB4LH	L90X90X6H-E350A	350.00	8.200	8	2.870	22.960	
6	77B4DB4RH	L90X90X6H-E350A	350.00	8.200	8	2.870	22.960	
Total Weight :							795.480	

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 - "4DB" (400KV D/C QUAD)		
6MM PLATE H-E350A	HT	22.288
L200X200X15H-E350A	HT	698.408
L90X90X6H-E350A	HT	74.784
Total		795.480
HT		795.480

Provisionally **APPROVED**

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applied as per specification

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

8k
30.07.19

Rugesh
इंजीनियरी अधिकारी/ENGINEERING OFFICER
यांत्रिक इंजीनियरी प्रभाग
Mechanical Engineering Division
केन्द्रीय विद्युत अनुसंधान संस्थान
Central Power Research Institute
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** -- Item Welded with another item
*** -- Item Assembled with another item



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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQBSB

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 - "4DB" (400kV D/C QUAD)								
1	PQBSB1	M16X45MM LONG (IS:12427)		0.134	32	0.134	4.288	
2	PQBSB2	M16X50MM LONG (IS:12427)		0.142	64	0.142	9.088	
3	PQBSB3	M16x3.5MM SPRING WASHER IS3063		0.009	96	0.009	0.864	
Total Weight :							14.240	

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 STUB & CLEATS FOR TOWER TYPE - "4DB" (400kV D/C QUAD)		
M16x3.5MM SPRING WASHER IS3063		0.864
M16X45MM LONG (IS:12427)		4.288
M16X50MM LONG (IS:12427)		9.088
Total		14.240

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**Electrical Superintending Engineer
(Planning and Engineering)**

Bihar State Power Transmission Corporation Limited
Vidyut Bhawan, Patna-800021

Sk
30.07.19

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