



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-0301**

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

NO OF SHEETS: **2**

BILL OF MATERIAL

STUB & CLEATS FOR TOWER TYPE - "4DC"

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

(3M DEPTH FOUNDATION)

WEIGHT OF STRUCTURE	
HT MEMBERS: BOM/LE19D023/PQCSC	1281.988
MS MEMBERS INCLUDING PACK WASHERS AND ACCESSORIES ECT.	-
WEIGHT OF BOLTS & NUTS, SPRING WASHERS AND STEP BOLTS BOM/LE19D023/PQCSB	53.264
TOTAL WEIGHT OF STRUCTURE:	1335.252 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

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

0	23.04.19	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	23.04.19		

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

Date: 23-Apr-2019

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BILL OF MATERIAL

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

Bom No : BOM/LE19D023/PQCSC

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 - "4DC" (400kV D/C QUAD)								
1	77B4DC1H	L150X150X12H-E350A	3860.00	27.300	4	105.378	421.512	
2	77B4DC2H	L150X150X12H-E350A	3860.00	27.300	4	105.378	421.512	
3	77B4DC3H	L150X150X10H-E350A	501.00	22.900	8	11.473	91.784	
4	77B4DC4H	14MM PLATE H-E350A	316.00 X 501.00	109.900	4	17.399	69.596	
5	77B4DC5H	14MM PLATE H-E350A	130.00 X 501.00	109.900	8	7.158	57.264	
6	77B4DC6H	14MM PLATE H-E350A	110.00 X 316.00	109.900	8	3.820	30.560	
7	77B4DC7H	L110X110X8H-E350A	300.00	13.400	16	4.020	64.320	
8	77B4DC8H	L110X110X8H-E350A	300.00	13.400	16	4.020	64.320	
9	77B4DC9H	14MM PLATE H-E350A	110.00 X 316.00	109.900	16	3.820	61.120	
Total Weight :							1281.988	

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 - "4DC" (400kV D/C QUAD)		
14MM PLATE H-E350A	HT	218.540
L110X110X8H-E350A	HT	128.640
L150X150X10H-E350A	HT	91.784
L150X150X12H-E350A	HT	843.024
Total		1281.988
HT		1281.988

Provisionally **APPROVED**

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supplied as per specification

A28/18
Electrical Superintending Engineer
(Planning and Engineering)
Bihar State Power Transmission Corporation Limited
Vidyut Bhawan, Patna-800021

Sk
23.08.19

Rugesh
इंजीनियरी अधिकारी/ENGINEERING OFFICER
यांत्रिक इंजीनियरी प्रभाग
Mechanical Engineering Division
केन्द्रीय बिजुत अनुसंधान संस्थान
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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/PQCSB

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 - "4DC" (400kV D/C QUAD)								
1	PQCSB1	M16X50MM LONG (IS:12427)		0.142	128	0.142	18.176	
2	PQCSB2	M16X65MM LONG (IS:12427)		0.164	112	0.164	18.368	
3	PQCSB3	M16X70MM LONG (IS:12427)		0.173	80	0.173	13.840	
4	PQCSB4	M16x3.5MM SPRING WASHER IS3063		0.009	320	0.009	2.880	
Total Weight :							53.264	

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 - "4DC" (400kV D/C QUAD)		
M16x3.5MM SPRING WASHER IS3063		2.880
M16X50MM LONG (IS:12427)		18.176
M16X65MM LONG (IS:12427)		18.368
M16X70MM LONG (IS:12427)		13.840
Total		53.264

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

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23.08.19

Arb
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