



REQUIREMENT OF BOLTS, NUTS & WASHERS			
SIZE	QTY	GRADE	REMARKS
16ø x 50mm Lg	54	5.6	BOLTS & NUTS
16ø x 40mm Lg	57	5.6	BOLTS & NUTS
16ø x 50mm Lg	38	5.6	BOLTS & NUTS
16ø x 50mm Lg	6	5.6	BOLTS & NUTS
16ø x 50mm Lg	8	5.6	BOLTS & NUTS
16ø x 3.5 THK	163	-	SPRING WASHERS
16ø x 4 THK	2	-	PACK WASHERS
16ø x 6 THK	1	-	PACK WASHERS
16ø x 8 THK	4	-	PACK WASHERS
16ø x 10 THK	2	-	PACK WASHERS

**SUCCESSFULLY TESTED AT
L&T-TLTRS-KANCHIPURAM
ON 30th OF JULY 2019**

- NOTES:
1. ALL DIMENSIONS ARE IN μm UNLESS OTHERWISE SPECIFIED.
 2. BOLT STAYSMS 10 ϕ - 1734 HOLES
 3. ALL DIMENSIONS ARE TO BE PREPARED WITH "TYPICAL"
 4. STRUCTURAL STEEL SHALL BE AS PER IS 2062-2011
 - (i) MILD STEEL - GRADE E250 QUALITY - A - UNLESS OTHERWISE SPECIFIED.
 - (ii) STAINLESS STEEL - GRADE E250 QUALITY - A
 5. BOLT'S NUT SHALL CORRESPOND TO IS - 15267-2010 FOR DIMENSIONS
 6. IS IS : 1567 (PART 3)-2012 FOR MECHANICAL PROPERTIES
 7. GALVANIZING SHALL CORRESPOND TO IS:2392-1985 FOR PROPERTIES
 8. SPONGE WHEEL SHALL BE COMPARED TO IS 6065-1994 (R-2004)
 9. STEP BOLT SHALL BE PROVIDED ON THE DISMOUNTABLE OPPOSITE ENDS.
 10. ALL PARTS/ MEMBERS OF TESTED TOWER SHOULD BE PUNCHED WITH PART NUMBER PRECEDED WITH "T" IN ADDITION TO THE STANDARD MARK NUMBERS

PART NO. 420 10 442

DATE	REVNO.	DESCRIPTION	DESIGNED	CHECKED	INWORK	CHECKED	APPROVED
			STRUCTURAL			DE MILLING	
31.07.19	1	SUBMISSION AFTER SUCCESSFUL TESTING	PB	PB	MR	SVB/BSR	CSB
03.08.19	0	FIRST SUBMISSION FOR APPROVAL, BEFORE PHOTO	PB	PB	MR	SVB/BSR	CSB

CLIENT :

BIHAR STATE POWER TRANSMISSION CO.LTD., PATNA

SUPPLIER / CONTRACTOR:

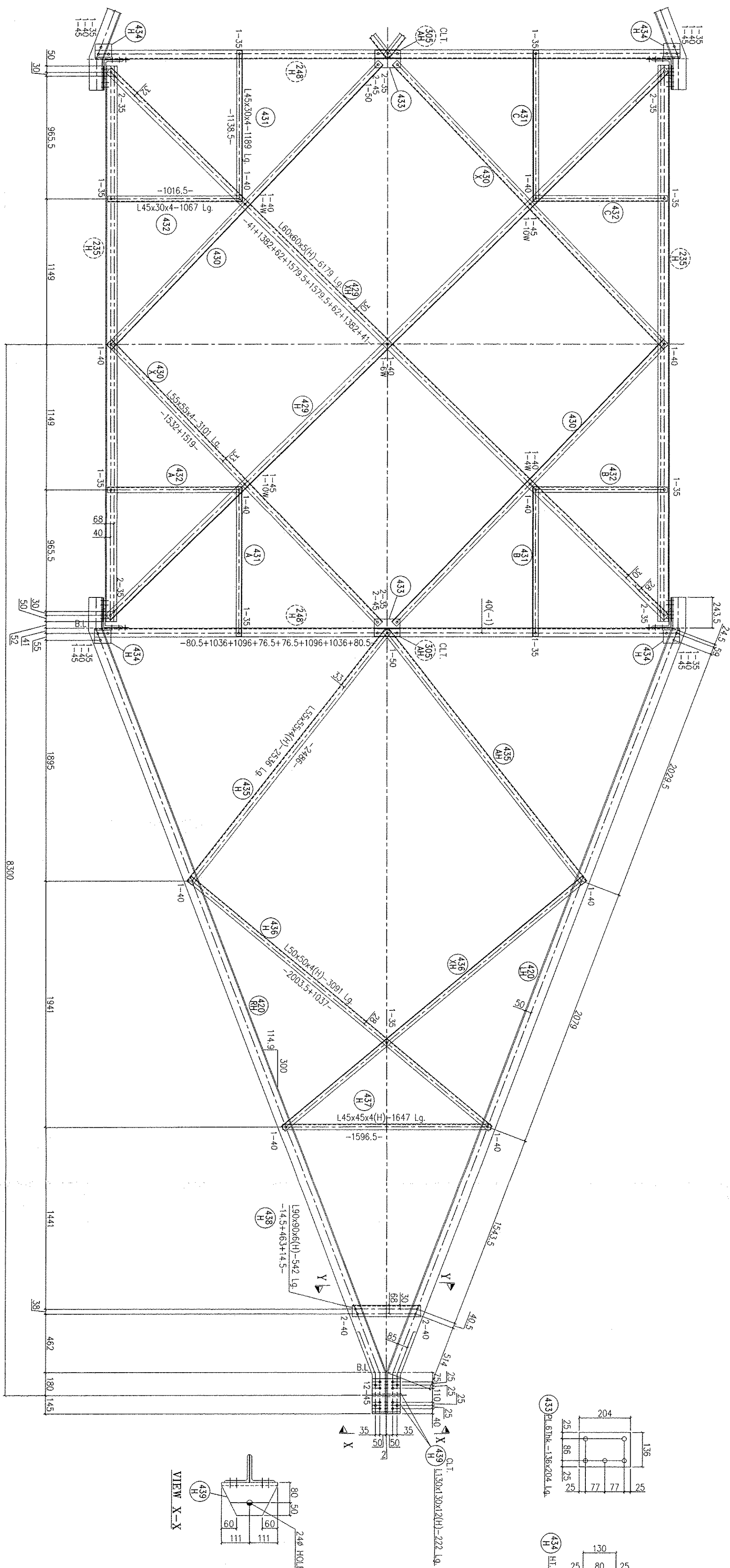


PROJECT :

PACKAGE - NH 17 UNDER ST/ILE PLAN 180250J. COMS INCLUSION OF :
(I) LITO OF BAKHTYARPUR - 400 KV (D. QUAD) TL BAKHTYARPUR (LINE LENGTH 10RKM),
(II) 220 KV D/C BAKHTYARPUR - SHEIKHUPURA TL (ACSR ZEBRA) (LINE LENGTH - 51 RKM)
(III) 220 KV D/C BAKHTYARPUR - HATHIDAH TL (ACSR ZEBRA) (LINE LENGTH - 52 RKM) AND
(IV) 220 KV D/C BAKHTYARPUR - FAITHUA TL (ACSR ZEBRA) (LINE LENGTH - 28 RKM)

JOB No.: 018089-ITL		TITLE:	
NAME	DATE	SCALE	
DISN	PB	1 : 25	
DRWN	MA	G.A. OF BOTTOM CROSS ARM	
CNO	SW/BSN	FOR TOWER TYPE - "ADA" (0°-2°DEV)	
APP	CSR	400KV D/C QUAD ACSR MOOSE (WZ-4)	
		SHEET NO.	
		5 OF 7	

VIEW V1-V1
BOTTOM PLAN OF BOTTOM CROSS ARM



ELEVATION

VIEW V2-V2
TOP PLAN OF BOTTOM CROSS ARM

KEY ELEVATION