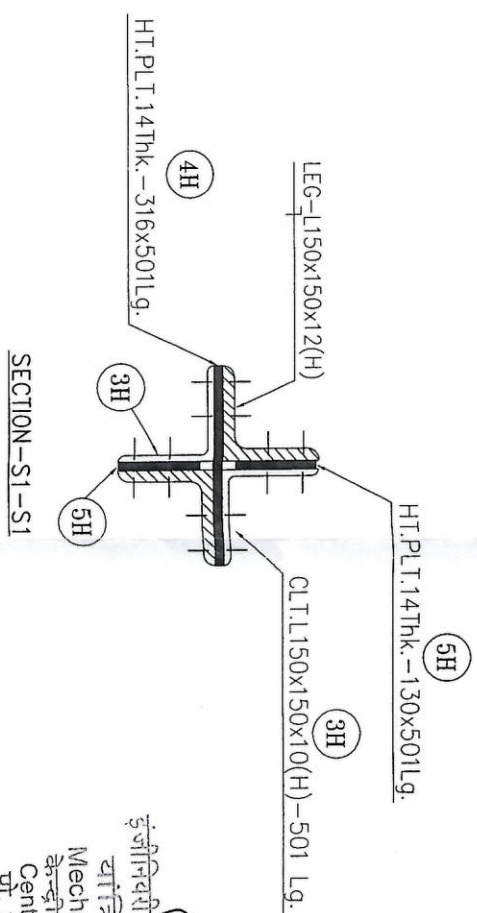
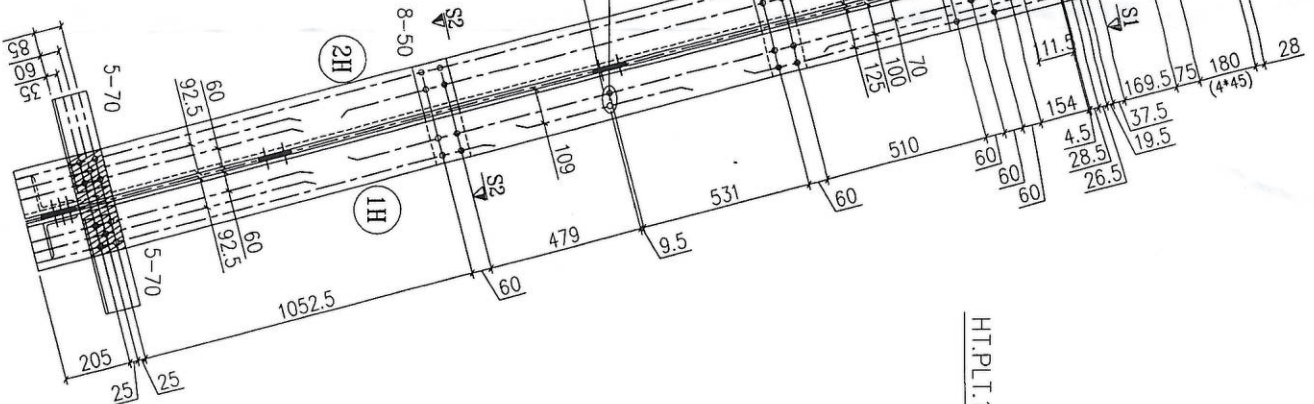
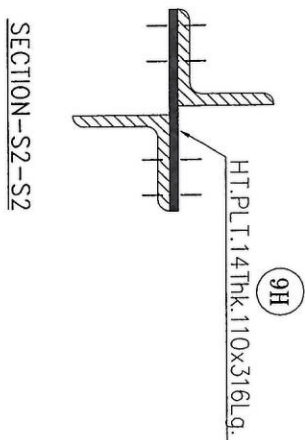
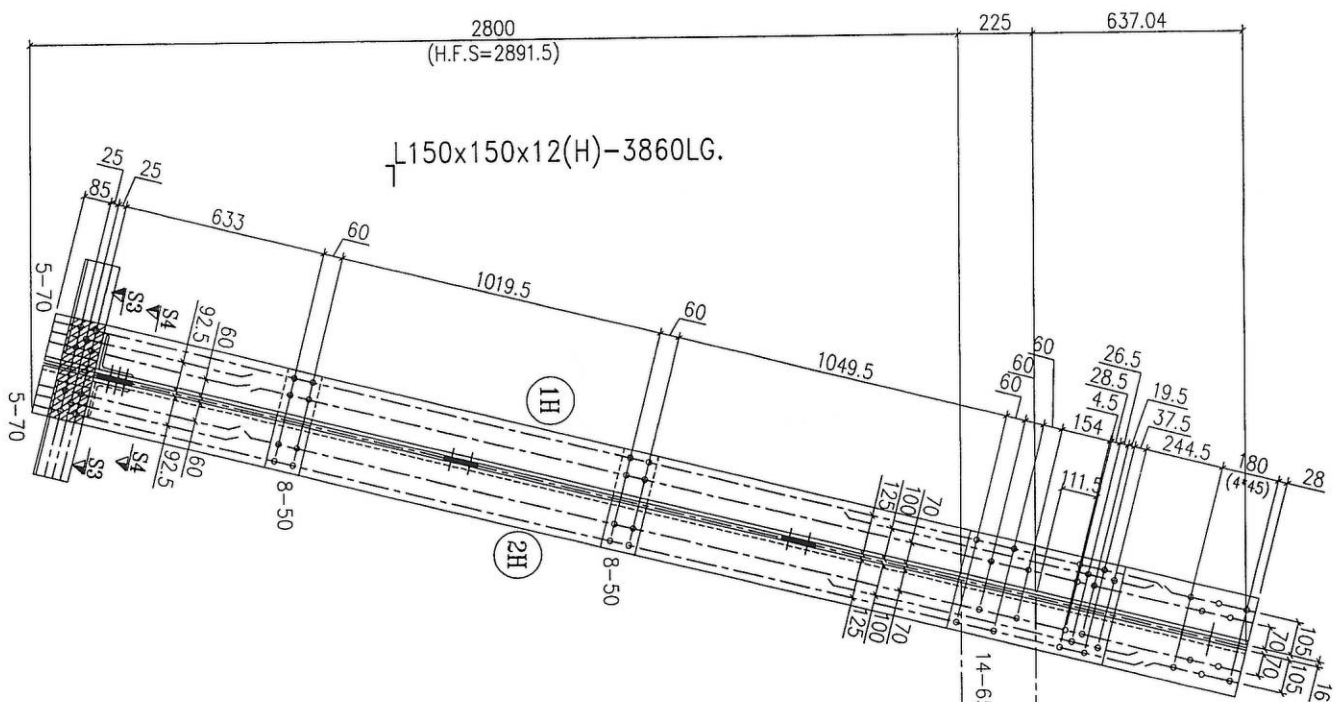
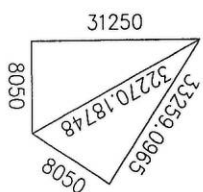




REQUIREMENT OF BOLTS, NUTS AND WASHERS			
SIZE	QTY.	GRADE	REMARKS
M16x50MM Lg.	128	5.6	BOLTS & NUTS
M16x65MM Lg.	112	5.6	BOLTS & NUTS
M16x70MM Lg.	80	5.6	BOLTS & NUTS
16x3.5MM THICK	320	—	SPRING WASHER

इंजीनियरी आरक्षण / ENGINEERING OFFICER
यानिक इंजीनियरी प्रभाग
Mechanical Engineering Division
केन्द्रीय विद्युत अनुसंधान संस्थान
Central Power Research Institute
प्रा. भा. सं. 8066, P.B. No. 8066
बंगलूरु / Bangalore - 550 080

NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. BOLT SYMBOLS $16\phi = 17.5\phi$ HOLES
 $16\phi = 17.5\phi$ HOLES FOR STEP BOLTS
3. ALL ERECTION MARKS ARE TO BE PREFIXED WITH "77BADC"
4. STRUCTURAL STEEL SHALL BE AS PER IS 2062-2011
 - (i) MILD STEEL – GRADE E250 QUALITY A – UNLESS OTHERWISE SPECIFIED.
 - (ii) "H" STANDS FOR HIGH TENSILE STEEL – GRADE E350 QUALITY A
5. BOLTS & NUTS SHALL CONFORM TO IS : 12427-2001 (R-2007) FOR DIMENSIONS AND IS : 1367 (PART 3)-2002 FOR MECHANICAL PROPERTIES
6. GALVANISING SHALL CONFORM TO IS:2629-1985 (R-2006) & IS:4759-1996 (R-2006)
7. SPRING WASHER SHALL BE CONFORM TO IS 3063-1994 (R-2004)

PART NO. 1 TO 9

DATE	REVNO.	DESCRIPTION	DESIGNED CHECKED				DRAWN CHECKED		APPROVED
			PG	R.A.B.	MR	SYR/BSR	STRUCTURAL	DETAILING	
23.04.19	0	FIRST SUBMISSION FOR APPROVAL	1	1	1	1	1	1	CSR

REVISIONS

CLIENT:

BIHAR STATE POWER TRANSMISSION CO.LTD., PATNA

SUPPLIER / CONTRACTOR:



APPROVED

PROJECT:

(i) LILLO OF BARRH-PATINA, 400 KV D/C, (QUALITY AT BAKHTIYARPUR (LINE LENGTH 108KM)
(ii) 220 KV D/C BAKHTIYARPUR - SHEKHUPURA TL (ACSR ZEBRA) (LINE LENGTH - 51 KKM)
(iii) 220 KV D/C BAKHTIYARPUR -MATHIDAHAT TL (ACSR ZEBRA) (LINE LENGTH -52 KKM) AND
(iv) 220 KV D/C BAKHTIYARPUR -FATHUA TL (ACSR ZEBRA) (LINE LENGTH -28 KKM)

018069-T-11	TITLE:
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NAME _____ DATE _____

P8 | 28.03.19

NR	06.04.19
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8/BCD	05.04.19
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	08.07.19	
ny/ban		

CSX	06.04.19	2
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0	1	8	0	8
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☐ Profit Margin

☐ PRELIMINARY

[illegible]

1000

A

W

D

7

4