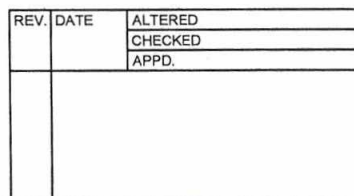


INVENTORY NO.

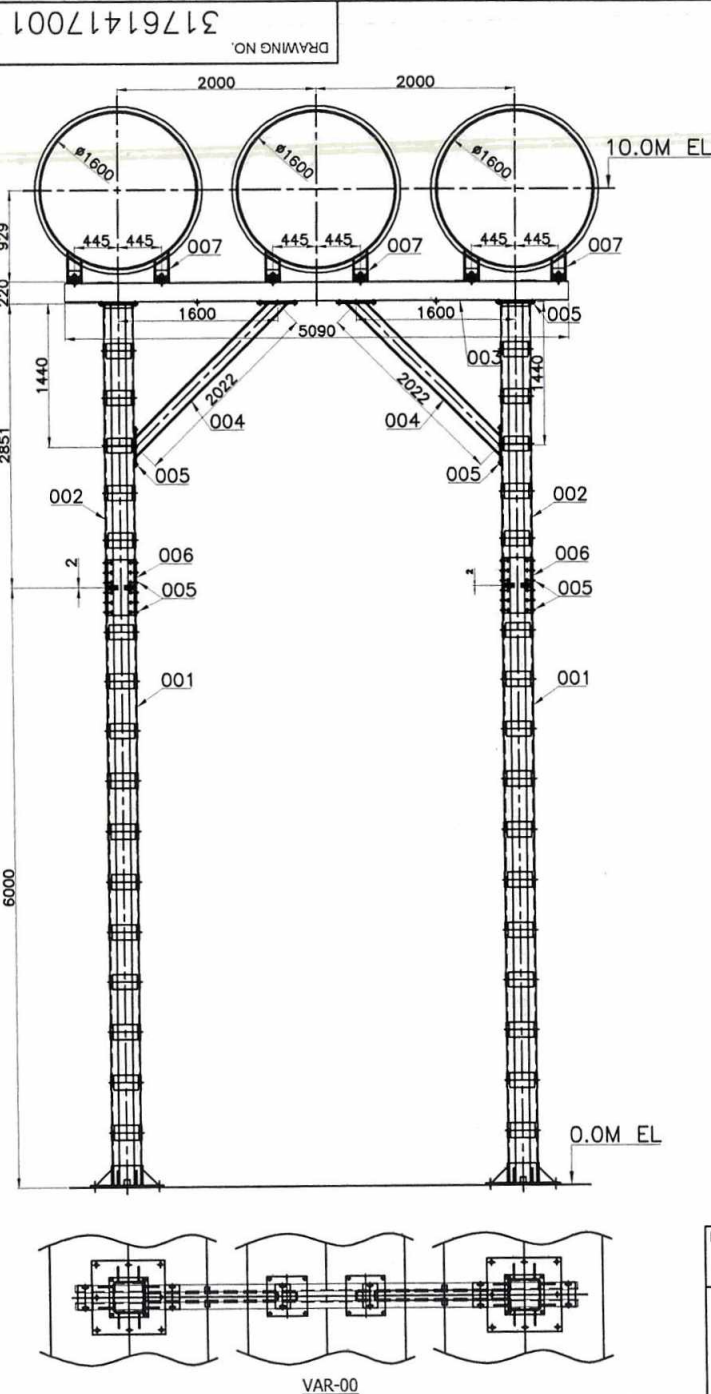
DRAWING NO.



		BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR		NAME		SIGN	DATE	NO. C VAR
				DRN	SUNNY		01/10/18	
				CKD	SANJAY		01/10/18	
				APPD	RUPESH		01/10/18	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. C ITEM	
CODE	M		—	—	—	—	—	
TITLE					DRAWING NO.		REV.	
<u>W.ASSY. OF STRUCTURE FOR TYPE-A</u> <u>ISOLATED PHASE BUSDUCT</u>					31761417001		00	
SHT. NO. 02				NO. OF SHT. 02				

1. ALL STRUCTURE STEEL SHALL BE OF GRADE--E250 AS PER IS:2082 & HOT DIP GALVANIZED SHALL BE 610gm/sq.m. AS PER IS:2629/IS:2633/IS:4759.
2. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH RELEVANT STANDARDS.
3. MUST MEET THE SHOWING DIMENSION.
4. THE MAX. GAP (CENTER TO CENTER) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLUMN ASSY.
5. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

SIZE -A3



TYPE-A FOR IPBD POCKET NO.-

P5-P6, P7-P8, P9-P10, P11-P12, P13-P14, P15-P16,
S5-S6, S7-S8, S9-S10, S11-S12, S13-S14 & S15-S16

TOTAL NO. OF SET = 12 NO.

003	--	007	SUPPORT LEG ARRGT.	31001000226	01	--	001
008	--	006	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	014	9.386	001
120	--	005	8.8 STEEL-ZPP (SET) SCRU HEX A M16X50 LG.			0.187	001
002	--	004	W.A. OF TIE BEAM	THIS DRG. SHEET 02 OF 02	03	55.18	001
001	--	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02	295.16	001
002	--	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01	163.54	001
002	--	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	00	403.15	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.
NAME OF PROJECT				2x660MW ENNORE SEZ COAL BASED STPP. CHENNAI			
NAME OF CUSTOMER				TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LIMITED (TANGEDCO)			
BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR				NAME	SIGN	DATE	NO. OF VAR
				DRN	SUNNY	01/10/18	
				CKD	SANJAY	01/10/18	
				APPD	RUPESH	01/10/18	
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	
CODE							
TITLE				DRAWING NO.			
ASSY. OF STRUCTURE FOR TYPE-A ISOLATED PHASE BUSDUCT				31761417001			
				SHT. NO. 01	NO. OF SHT. 02		

REV.	DATE	ALTERED --
		CHECKED --
		APPD. --

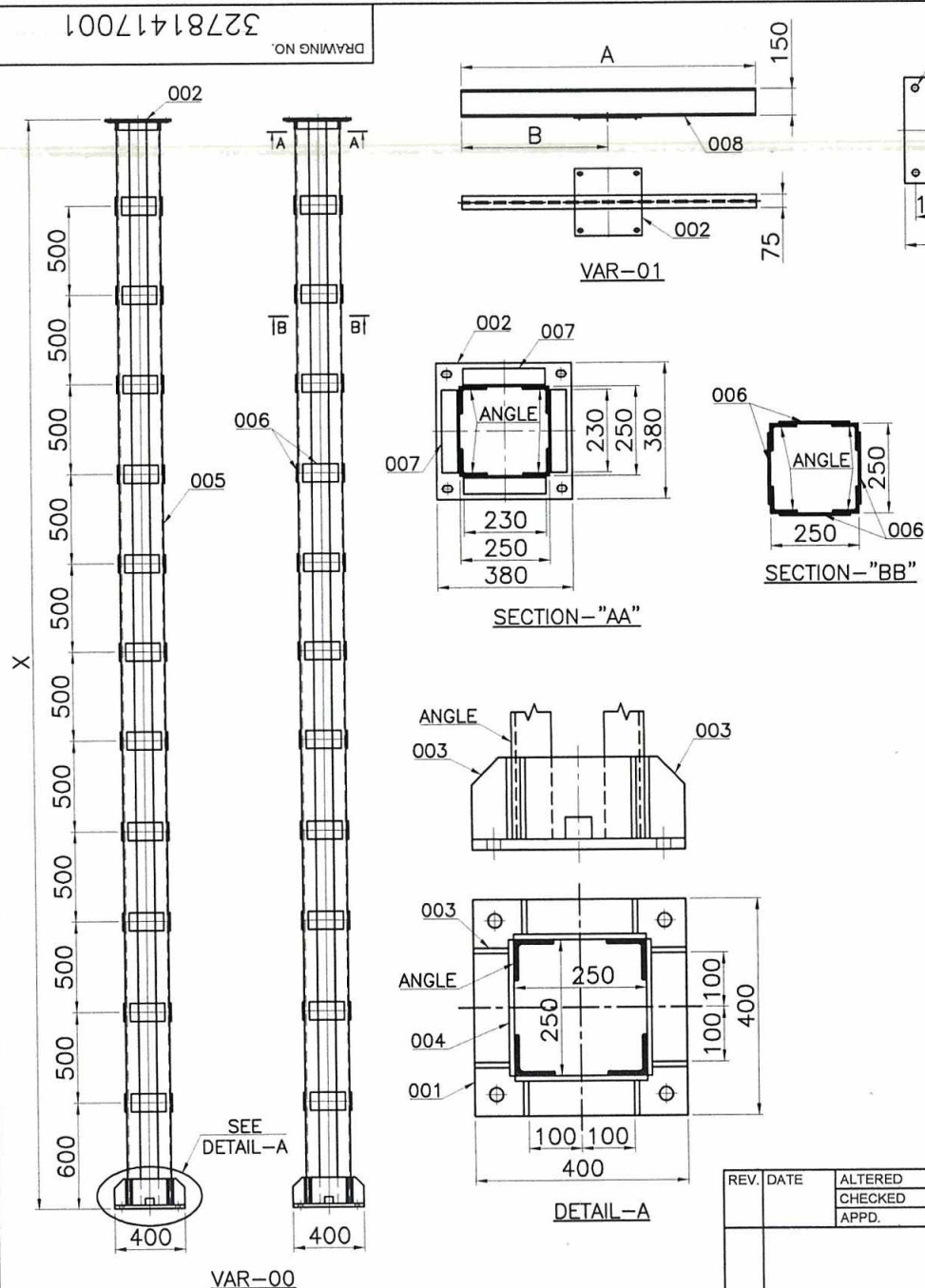
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INVENTORY NO. SIGN. & DATE REF. DRG. NO.

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INVENTORY NO.	SIGN. & DATE	REF. DRG. NO.
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Computer File: - PC: rupeeth Path: D:\ENNORE\907\SPBD STRUCTURE\STRUCTURE MANUFACTURING DRG. SPBD.dwg Printed On :3/15/2019 12:04:32 PM



NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH RELEVANT STANDARDS.
3. MUST MEET THE SHOWING DIMENSIONS.
4. EVERY WELDED ASSY./ITEM NO. SHALL BE IDENTIFIED NEAR EITHER END BY INDELIBLE INK/PAINT/DEPOSITING METAL BY ARC WELDING PROCESS.

BUSDUCT SIZE 450x1350	<u>IMPORTANT DIMENSION</u>				<u>WEIGHT</u>	
	X=	6090	MM,	A=	1650	MM
	Y=		MM,	B=	825	MM
					VAR.00=	313.15 KG.
					VAR.01=	35.95 KG.
					VAR.02=	0.00 KG.

	001			008	ISMB 150 x75 x5 x8x 1650 LG.	S.C.O.		AA 101 08	24.750 001
		004		007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 101 08	0.874 001
		044		006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	0.942 001
		004		005	ISA 8TK. x75 x75 x 606 LG.	S.C.O.		AA 101 08	53.934 001
		004		004	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.787 001
		008		003	10 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.667 001
	001	001		002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199 001
		001		001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	24.787 001
VAR 02	VAR 01	VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPNCN.	WT. QTY.

NAME OF PROJECT	2x660MW ENnore SEZ COAL BASED STPP, CHENNAI
NAME OF CUSTOMER	TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LIMITED (TANGEDCO)

 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR		NAME		SIGN	DATE	NO. OF VAR	
		DRN	SUNNY		20/08/18		
		CKD	SANJAY		20/08/18		
		APPD	RUPESH		20/08/18	-	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE -	M		-	-	-	-	-
TITLE <u>W.ASSY. OF STRUCTURE FOR TYPE-A</u> <u>SEGREGATED PHASE BUSDUCT</u>					DRAWING NO.		REV.
					32781417001		00
SHT. NO. 02			NO. OF SHT. 02				

SIZE -A3

10071417001

DRAWING NO.

INSULATOR SUPPORT
CHANNEL

6.50M EL

RUNNING
CHANNEL

360

B

A

002

003

001

X

50

0.0M EL

VAR.00

TYPE-A

FOR SPBD POCKET NO.-

P7, P28, P32 TO P34, P36 TO P47, P80, P81,
P90 TO P93, P103 TO P105, P107 TO P120

TOTAL NO. OF SET = 40 NO.

DIMENSION:-

X = 6090mm

A = 1650mm

B = 825mm

WT. FOR VAR.00 = 349.85 KGS.

004	-	003	SCRU HEX A M16X55 LG. 8.8 STEEL-ZPP (SET)				0.187	
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	01		35.95	
001	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	00		313.15	
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	UNIT

NAME OF PROJECT 2x660MW ENNORE SEZ COAL BASED STPP, CHENNAI
NAME OF CUSTOMER TAMILNADU GENERATION AND DISTRIBUTION CORPORATION
LIMITED (TANGEDCO)



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

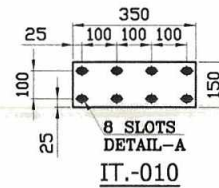
NAME	SIGN	DATE	NO. OF VAR
DRN SUNNY		20/08/18	
CKD SANJAY		20/08/18	
APPD RUPESH		20/08/18	

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE						
TITLE	ASSY. OF STRUCTURE FOR TYPE-A SEGREGATED PHASE BUSDUCT			DRAWING NO.	REV.	
				32781417001	00	
	SHT. NO.	01	NO. OF SHT.	02		

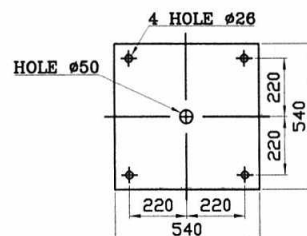
SIZE -A3

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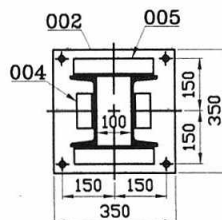
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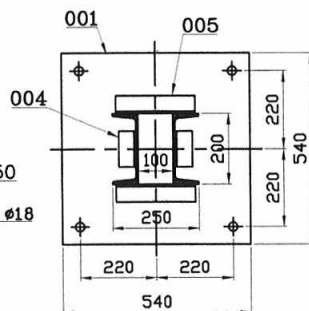
VAR-03



IT.-001



SECTION-"BB"



SECTION-"AA"

<u>BUSDUCT SIZE</u>	<u>IMPORTANT DIMENSION</u>					<u>WEIGHT</u>			
450x1350	X=	6000	MM,	A=	1650	MM	VAR.01=	335.61	KG.
	Y=	5565	MM,	B=	825	MM	VAR.02=	284.72	KG.
	Z=		MM,	C=		MM	VAR.03=	34.29	KG.

				010	8 TK x 150 x 350 LG. STRUCTURE STEEL PLATE	SEE DETAIL			3.169
				009	8 TK x 250 x 350 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 19	001
001				008	ISMB 150 x75 x5 x8x 1650 LG.	S.C.O.			24.750
	002			007	ISMC 200 x75 x6.2 x11.4x 5555 LG.	S.C.O.		AA 101 19	001
		002		006	ISMC 200 x75 x6.2 x11.4x 5980 LG.	S.C.O.			123.877
		002		005	ISA 5TK. x 50 x 50 x 250 LG.	S.C.O.		AA 101 19	001
		002		004	ISA 5TK. x 50 x 50 x 150 LG.	S.C.O.			133.354
	019	022		003	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE			AA 101 19	001
001	002			002	10 TK x 350 x 350 LG. STRUCTURE STEEL PLATE	SEE DETAIL			0.570
		001		001	20 TK x 540 x 540 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 19	001
VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPNCN.	WT. QTY.

		CUSTOMER NATIONAL THERMAL POWER CORPORATION LIMITED			PROJECT 3x800 MW KUDGI STPP																						
		BHARAT HEAVY ELECTRICALS LIMITED RUDRAPUR			<table><tr><td></td><td>NAME</td><td>SIGN.</td><td>DATE</td><td>NO. OF VAR.</td></tr><tr><td>DRN.</td><td>S.DHAWAN</td><td></td><td>16/08/14</td><td></td></tr><tr><td>CKD.</td><td>R.KUMAR</td><td></td><td>16/08/14</td><td></td></tr><tr><td>APPD.</td><td>R.K.BINDAL</td><td></td><td>16/08/14</td><td></td></tr></table>				NAME	SIGN.	DATE	NO. OF VAR.	DRN.	S.DHAWAN		16/08/14		CKD.	R.KUMAR		16/08/14		APPD.	R.K.BINDAL		16/08/14	
	NAME	SIGN.	DATE	NO. OF VAR.																							
DRN.	S.DHAWAN		16/08/14																								
CKD.	R.KUMAR		16/08/14																								
APPD.	R.K.BINDAL		16/08/14																								
DEPTT. BDE	UNTOL.DIM.GR. C/M/F		SCALE —	WEIGHT—KG —	REF.TO ASSY.DRG. IT.NO. — NO OF ITEM																						
TITLE W. ASSY. OF STRUCTURE					DRAWING NO. 32431317002 REV. 01																						
SHEET NO.— 02					NO.OF SHEETS— 02		SIZE— A																				

REV.	DATE	ALTERD	REV.	DATE	ALTERD	REV.	DATE	ALTERD	REV.	DATE	ALTERD	REV.	DATE	ALTERD
		CHEKED			CHEKED			CHEKED			CHEKED			CHEKED
												01	17/11/14	CHEKED
												DRAWING REVISED AS PLATE 1 PLATE DIMENSION ADDED AND HOLES/SLOT SIZE MARKED.		

DRAWING NO. 32431317002

BUSDUCT
SUPPORT CHANNEL
RUNNING CHANNEL
B.O.D.

TYPE-(R2)

BUSDUCT B.O.D.: 11.725 M
FOUNDATION POCKET NO. P5

DIMENSIONS:-

X = 6000 MM

Y = 5565 MM

A = 1650 MM

B = 825 MM

WT. FOR VAR.00 = 678.449 KGS.

036		006	SCRU HEX A M16X80LG. 8.8 STEEL (SET)	HOT DIP GALVANIZED			0.18769
002	900024	005	SUPPORT PLATE 8x150x350 Lg.	THIS DRG. SHEET 02 OF 02	010		3.169
002	900023	004	SUPPORT PLATE 8x250x350 Lg.	THIS DRG. SHEET 02 OF 02	009		5.367
001	900022	003	W.A. OF CROSS BEAM 1650 Lg.	THIS DRG. SHEET 02 OF 02	03		34.29
001	900021	002	W.A. OF COLUMN 5565 Lg.	THIS DRG. SHEET 02 OF 02	02		284.72
001	900020	001	W.A. OF COLUMN 6000 Lg.	THIS DRG. SHEET 02 OF 02	01		335.61
VAR 00	BOM NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

CUSTOMER NATIONAL THERMAL POWER CORPORATION LIMITED				PROJECT 3x800 MW KUDGI STPP			
Bharat Heavy Electricals Limited RUDRAPUR				NAME	SIGN.	DATE	NO. OF VAR.
DEPTT. BDE				DRN.	S.DHAWAN	16/08/14	
UNTOL.DIM.GR. C/M/F				CKD.	R.KUMAR	16/08/14	
SCALE				APPD.	R.K.BINDAL	16/08/14	
WEIGHT-KG				REF.TO ASSY.DRG.		IT.NO.	NO. OF ITEM
TITLE ASSY. OF STRUCTURE				DRAWING NO.		REV.	
				32431317002		00	
				SHEET NO.-	01	NO.OF SHEETS-	02
				SIZE- A3			

REV.	DATE	ALTERD CHEKED	REV.	DATE	ALTERD CHEKED	REV.	DATE	ALTERD CHEKED	REV.	DATE	ALTERD CHEKED	REV.	DATE	ALTERD CHEKED

FIRST ANGLE PROJECTION

ALL DIMENSIONS IN MILLIMETER

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