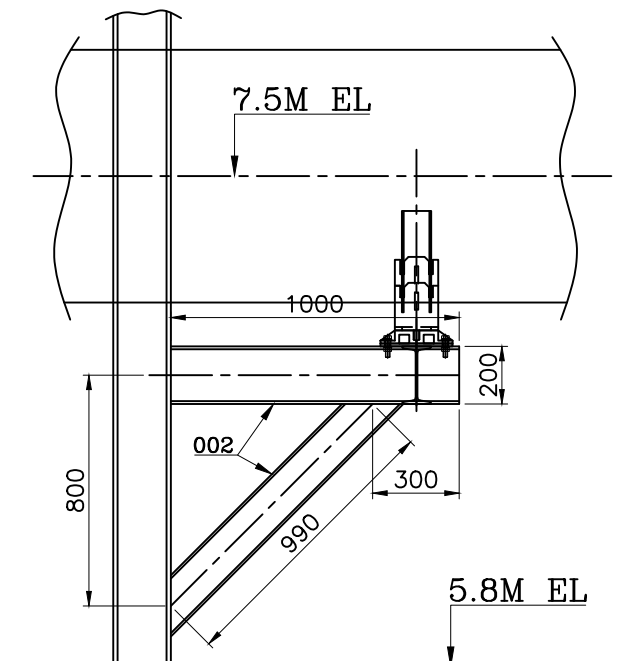
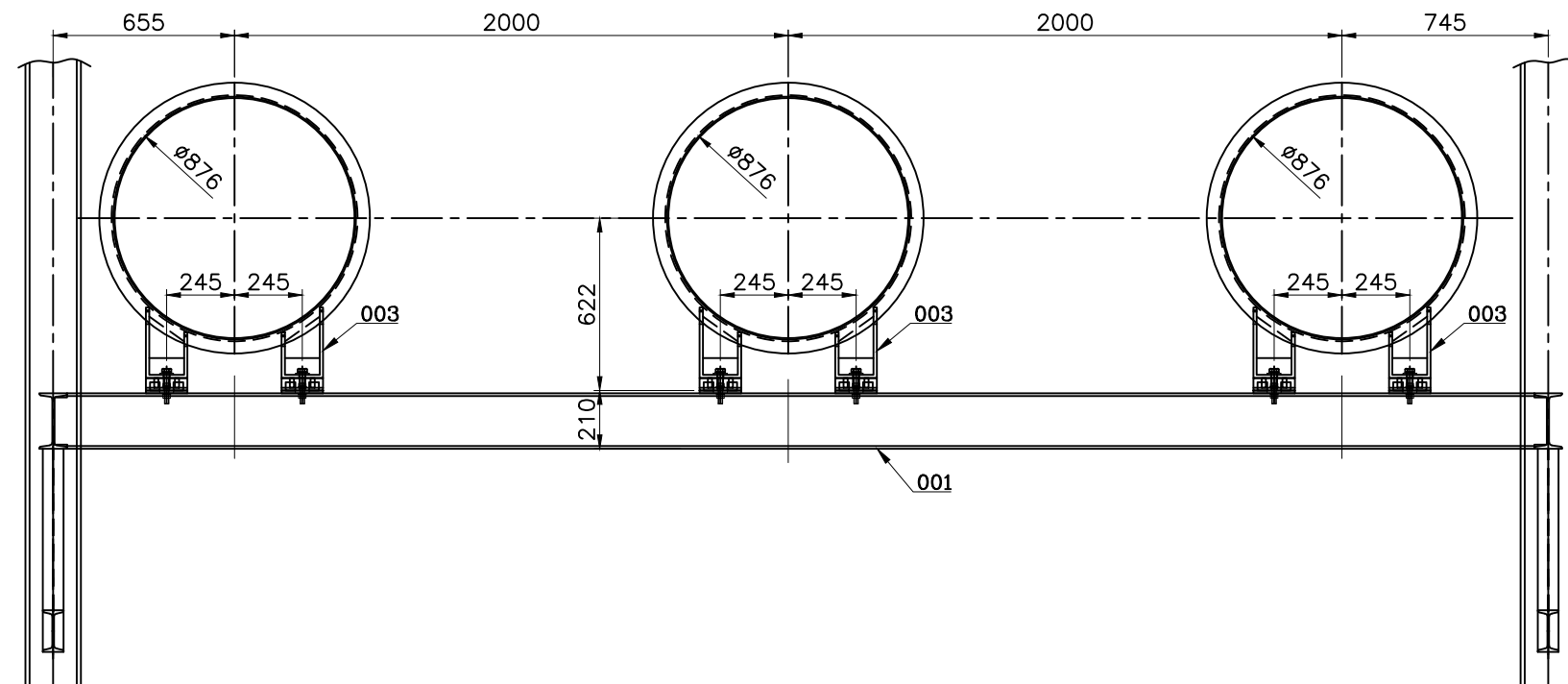


First Angle Projection

All Dimensions in 'mm'

31901617018

DRAWING NO.



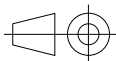
VAR-00

WT. FOR VAR.00 = 225.42 KGS.

TYPE-S

TOTAL NO. OF SET = 5 NOS.

VAR	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.
003	-	003	SUPPORT LEG ARRGT.	31001000226	01		001
002	-	002	W.A. OF TIE BEAM	THIS DRG. SHEET 02 OF 02	02		39.05 001
001	-	001	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	01		147.32 001

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
 BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR	
		CKD	SANJAY		30/09/21		
		APPD	RUPESH		30/09/21		
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE	m		-	-		-	-
TITLE				DRAWING NO.		REV.	
ASSY. OF STRUCTURE FOR TYPE-S ISOLATED PHASE BUSDUCT				31901617018		00	
SHT. NO.		01		NO. OF SHT.		02	

SIZE -A3

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

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

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\DELTA & TAP-OFF.dwg Printed On :17-12-2021 09:13:23

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SIGN. & DATE

INVENTORY NO.

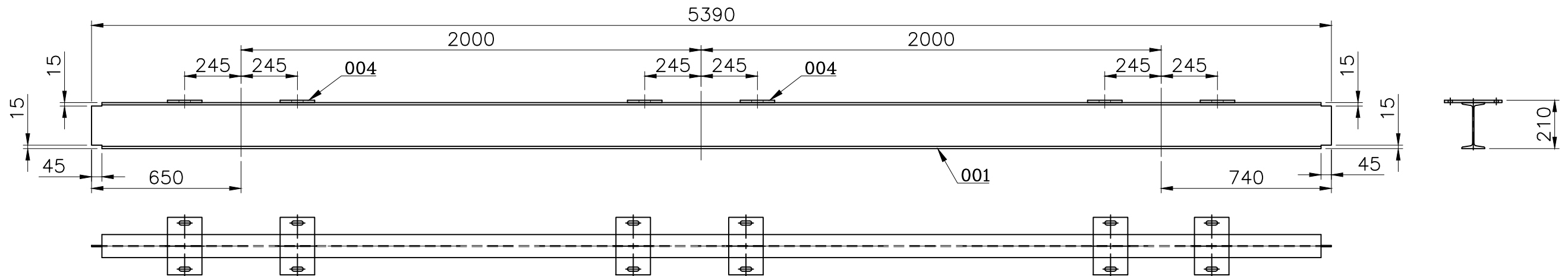
REF. DRG. NO.

First Angle Projection

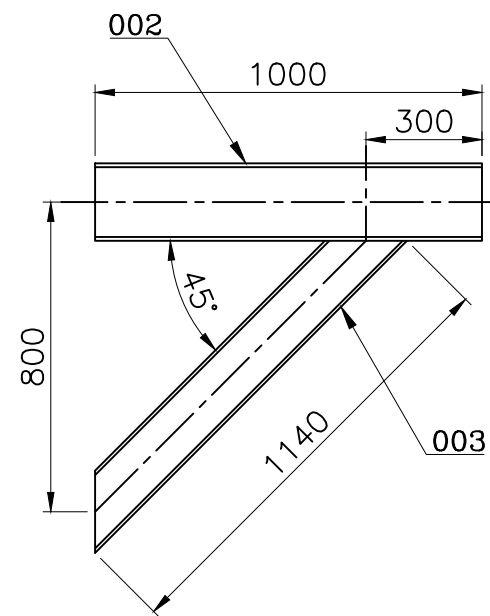
All Dimensions in 'mm'

31901617018

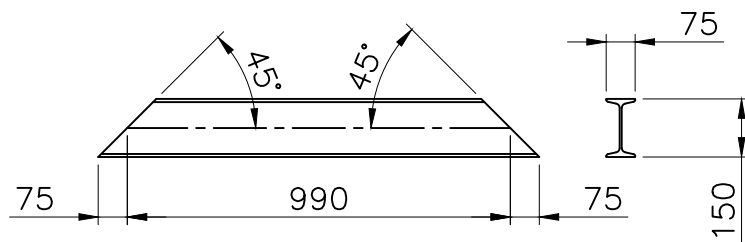
DRAWING NO.



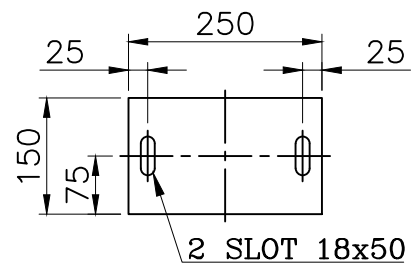
VAR-01



VAR-02



IT.-003



IT.-004

39.05	147.32	VAR. WT. IN KG.							
	006	LEG / DMC PLATE	004	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL			2.813	
001			003	ISMB 150 x75 x5 x8x 1140 LG.	SEE DETAIL		AA 101 08	14.850	001
001			002	ISMB 200 x100 x5.7 x10x 1000 LG.	S.C.O.		AA 101 08	24.200	001
	001		001	ISMB 200 x100 x5.7 x10x 5390 LG.	S.C.O.		AA 101 08	130.438	001
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPON.	WT. QTY.	

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		30/09/21	
APPD	SANJAY		30/09/21	
	RUPESH		30/09/21	

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m					
TITLE	W.ASSY. OF STRUCTURE FOR TYPE-P ISOLATED PHASE BUSDUCT			DRAWING NO.	31901617018	REV. 00
				SHT. NO. 02	NO. OF SHT. 02	

NOTE:-

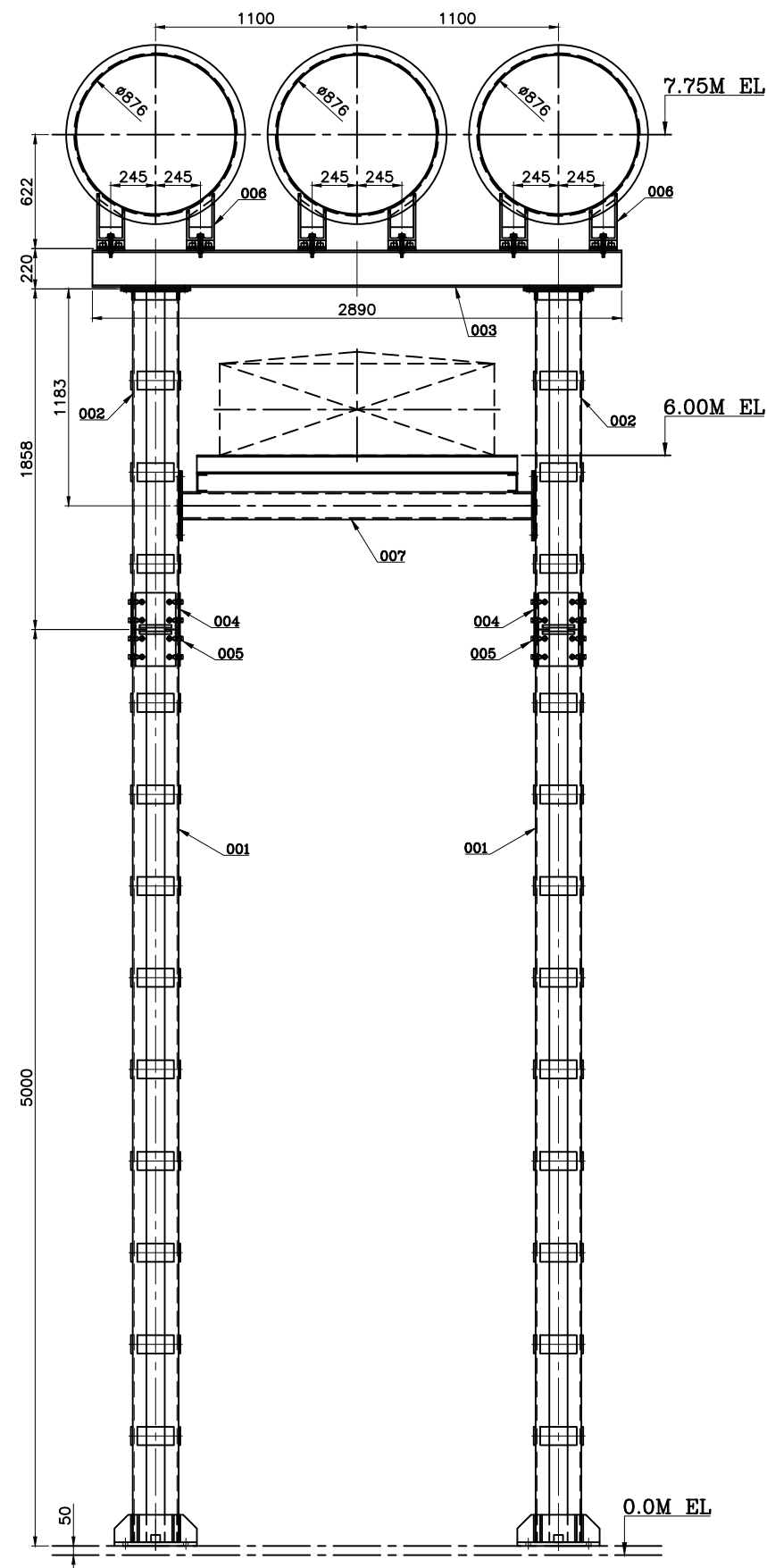
- ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
- THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLOMN ASSY.
- MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

First Angle Projection

All Dimensions in 'mm'

31901617017

DRAWING NO.



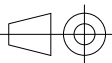
VAR-00

TYPE-Q
FOR IPBD POCKET NO.-
1P33-1P34,
2P33-2P34,
3P33-3P34,
4P33-4P34,
5P33-5P34

TOTAL NO. OF SET = 05 NOS.

WT. FOR VAR.00 = 945.81 KGS.

001	-	007	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	04		51.05	001
003		006	SUPPORT LEG ARRGT.	31001000226	01		0.187	001
080		005	8.8 STEEL-ZPP (SET) SCRU HEX A M16X55 LG.				5.308	001
008		004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	012		109.22	001
001	-	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	03		102.87	001
002	-	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02		261.19	001
002	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01			001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	00

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR	
		DRN	SUNNY		30/09/21	—	
		CKD	SANJAY		30/09/21		
		APPD	RUPESH		30/09/21		
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
ASSY. OF STRUCTURE FOR TYPE-P ISOLATED PHASE BUSDUCT					31901617017		00
SHT. NO.			01		NO. OF SHT. 02		

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

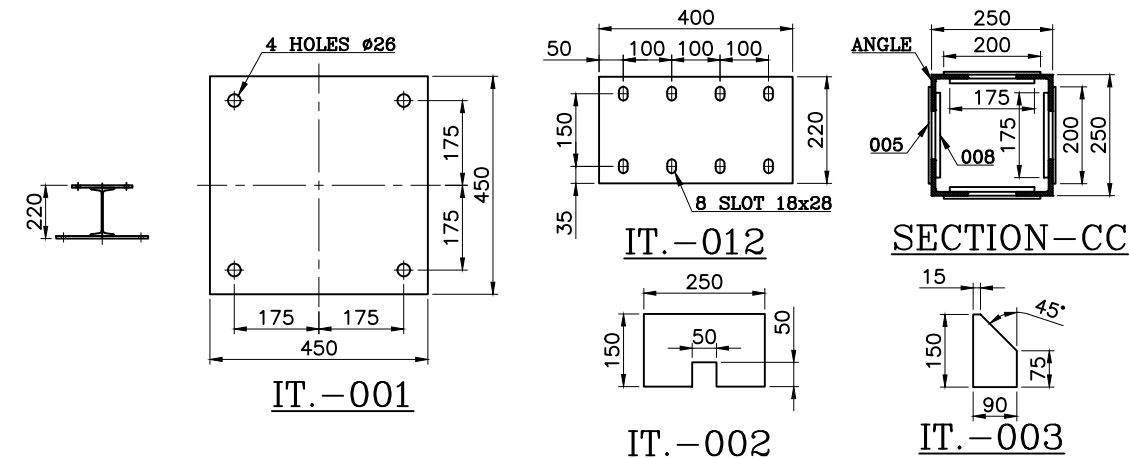
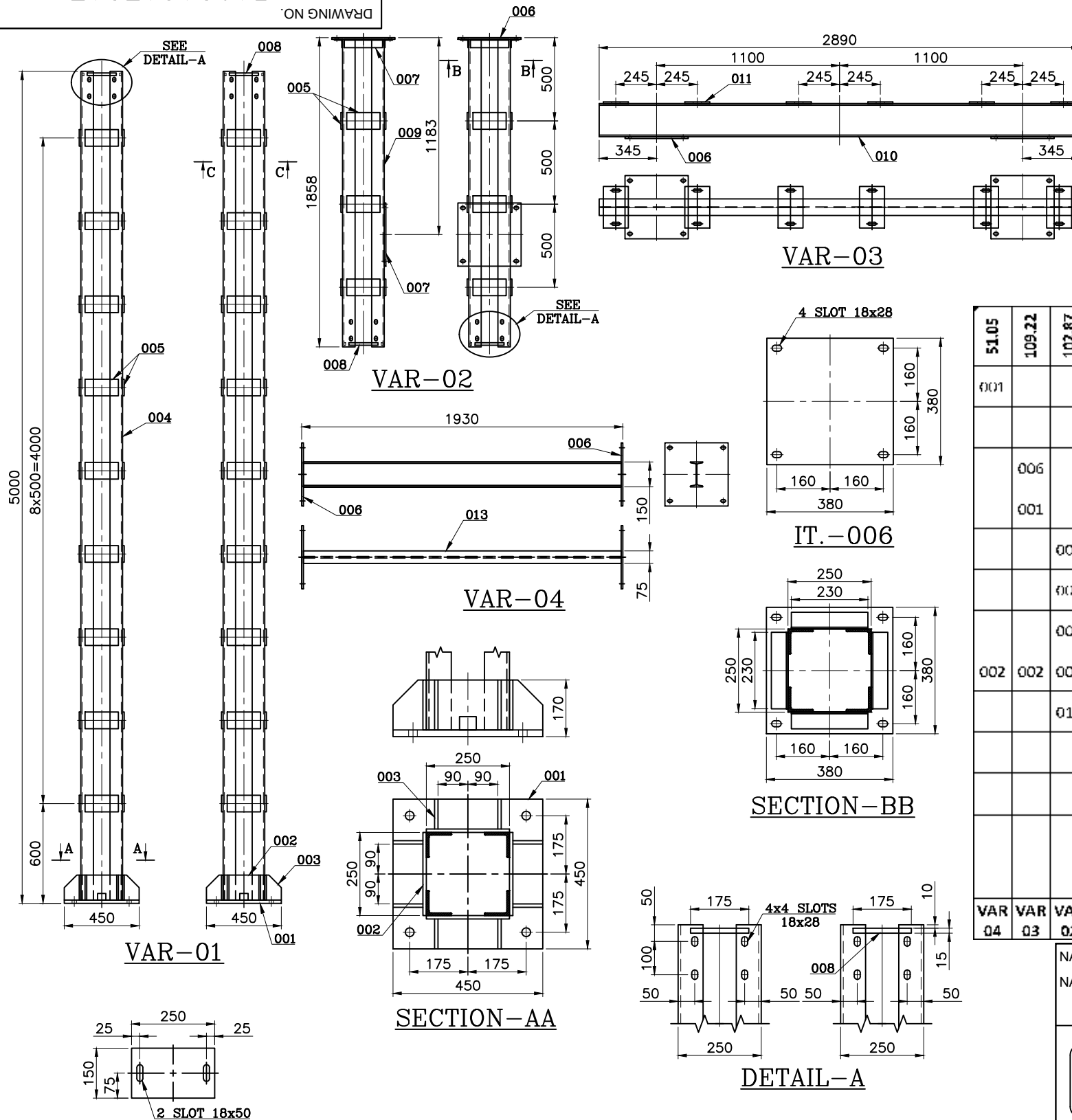
REF. DRG. NO.

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\DELTA & TAP-OFF.dwg Printed On :17-12-2021 09:13:30

All Dimensions in 'mm'

31901617017

DRAWING NO.



51.05	109.22	102.87	261.19	←VAR. WT. IN KG.						
001					013	ISMB 150 x75 x5 x8x 1910 LG.	S.C.O.		AA 101 08	28.650 001
					012	8 TK x 220 x 400 LG. STRUCTURE STEEL PLATE	SFF DFTAIL		AA 101 08	5.308 001
	006			IFG / DMC PLATE	011	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SFF DFTAIL		AA 101 08	7.813 001
	001				010	ISMB 200 x100 x5.7 x10x 2890 LG.	S.C.O.		AA 101 08	69.938 001
		004			009	ISA 8TK. x75 x75 x 1848 LG.	S.C.O.		AA 101 08	16.44 / 001
		004	004		008	10 TK x 15 x 175 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.206 001
		004		TOP PLATE	007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 101 08	0.874 001
002	002	002			006	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199 001
		011	036	BAITLN PLATL	005	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	0.942 001
			004		004	ISA 8TK. x75 x75 x 4980 LG.	S.C.O.		AA 101 08	44.322 001
			008	BRACING PLATE	003	10 TK x 90 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.839 001
			004	BOTTOMSIDL SUPPORT PLATE	002	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SFF DFTAIL		AA 101 08	2.748 001
			001	BASE PLATE	001	20 TK x 450 x 450 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	31.459 001
VAR 04	VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT	<u>5x800 MW YADADRI TPS, NALGONDA</u>
NAME OF CUSTOMER	<u>TELANGANA STATE POWER GENERATION CORPORATION LTD</u> <u>TELANGANA, INDIA</u>

 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR					NAME	SIGN	DATE	NO. C VAR
				DRN	SUNNY		30/09/21	
				CKD	SANJAY		30/09/21	
				APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR. m		SCALE —	WEIGHT(KG) —	REF. TO ASSY. DRG. —		ITEM NO. —	NO. C ITEM —
CODE —								
TITLE <u>W.ASSY. OF STRUCTURE FOR TYPE-P</u> <u>ISOLATED PHASE BUSDUCT</u>					DRAWING NO. 31901617017			REV. 00
					SHT. NO. 02		NO. OF SHT. 02	

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLUMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

SIZE -A3

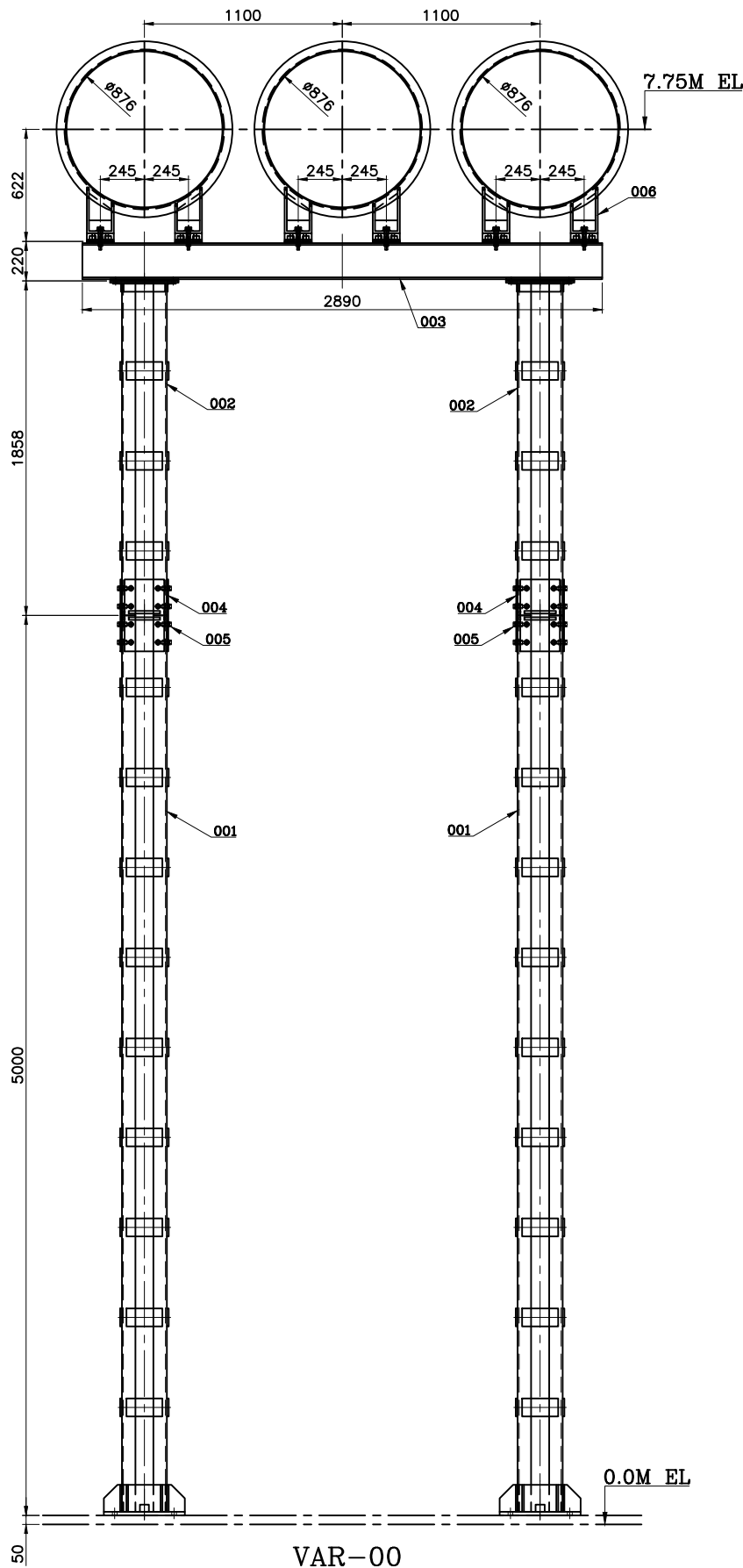
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First Angle Projection

All Dimensions in 'mm'

31901617016

DRAWING NO.

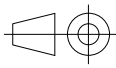


TYPE-P
FOR IPBD POCKET NO.-
1P31-1P32,
2P31-2P32,
3P31-3P32,
4P31-4P32,
5P31-5P32

TOTAL NO. OF SET = 5 NOS.

WT. FOR VAR.00 = 872.75 KGS.

003		006	SUPPORT LEG ARRGT.	31001000226	01		001
072		005	8.8 STEEL-ZPP (SET) SCRU HEX A M16X55 LG.				0.187
008		004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	012		5.308
001	-	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	03		109.22
002	-	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02		92.61
002	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		261.19
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
	RUDRAPUR		CKD	SANJAY		30/09/21	-
			APPD	RUPESH		30/09/21	-
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	
CODE	m		-	-	-	-	-
TITLE				DRAWING NO.	REV.		
ASSY. OF STRUCTURE FOR TYPE-P ISOLATED PHASE BUSDUCT				31901617016	00		
				SHT. NO. 01	NO. OF SHT. 02		

SIZE -A3

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

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

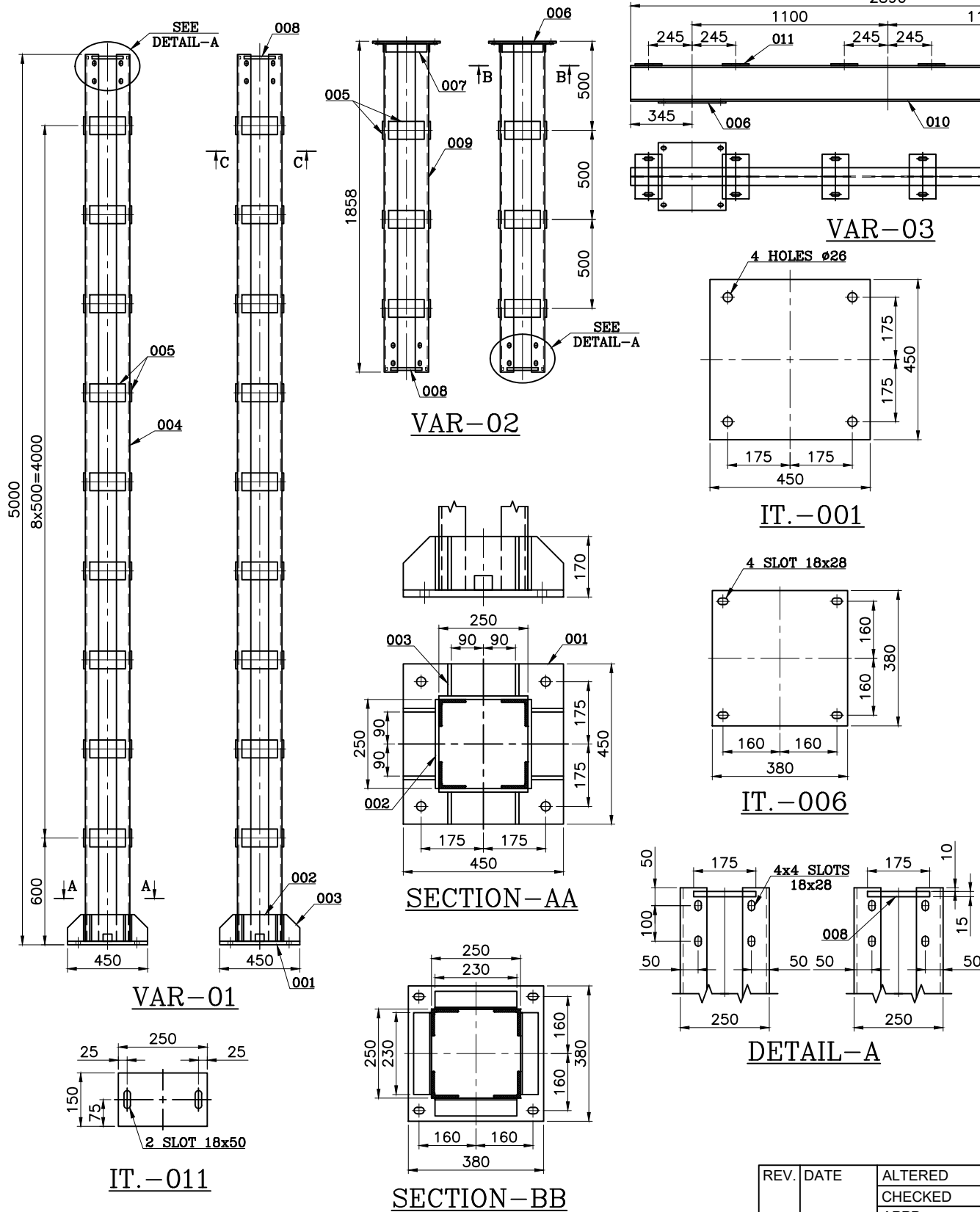
INVENTORY NO.

First Angle Projection

All Dimensions in 'mm'

31901617016

DRAWING NO.



NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLOMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

REV.	DATE	ALTERED
		CHECKED
		APPD.

109.22	92.61	261.19	←VAR. WT. IN KG.						
				012	8 TK x 220 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	5.308
006			LEG / DMC PLATE	011	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.813
001				010	ISMB 200 x100 x5.7 x10x 2890 LG.	S.C.O.		AA 101 08	69.938
	004			009	ISA 8TK. x75 x75 x 1848 LG.	S.C.O.		AA 101 08	16.447
	004	004		008	10 TK x 15 x 175 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.206
	004			007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 101 08	0.874
002	001		TOP PLATE	006	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199
	012	036	BATTEN PLATE	005	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	0.942
		004		004	ISA 8TK. x75 x75 x 4980 LG.	S.C.O.		AA 101 08	11.322
		008	BRACING PLATE	003	10 TK x 90 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.839
		004	BOTTOMSIDE SUPPORT PLATE	002	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.718
		001	BASE PLATE	001	20 TK x 450 x 450 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	31.459
VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.
NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA									
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA									
BHEL BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR									
DRN SUNNY									
CKD SANJAY									
APPD RUPESH									
DEPT. BDE									
CODE m									
UNTOL.DIMS.GR.									
SCALE									
WEIGHT(KG)									
REF. TO ASSY. DRG.									
ITEM NO.									
NO. OF ITEM									
TITLE									
DRAWING NO.									
REV.									
W.ASSY. OF STRUCTURE FOR TYPE-P ISOLATED PHASE BUSDUCT									
31901617016									
00									
SHT. NO. 02									
NO. OF SHT. 02									

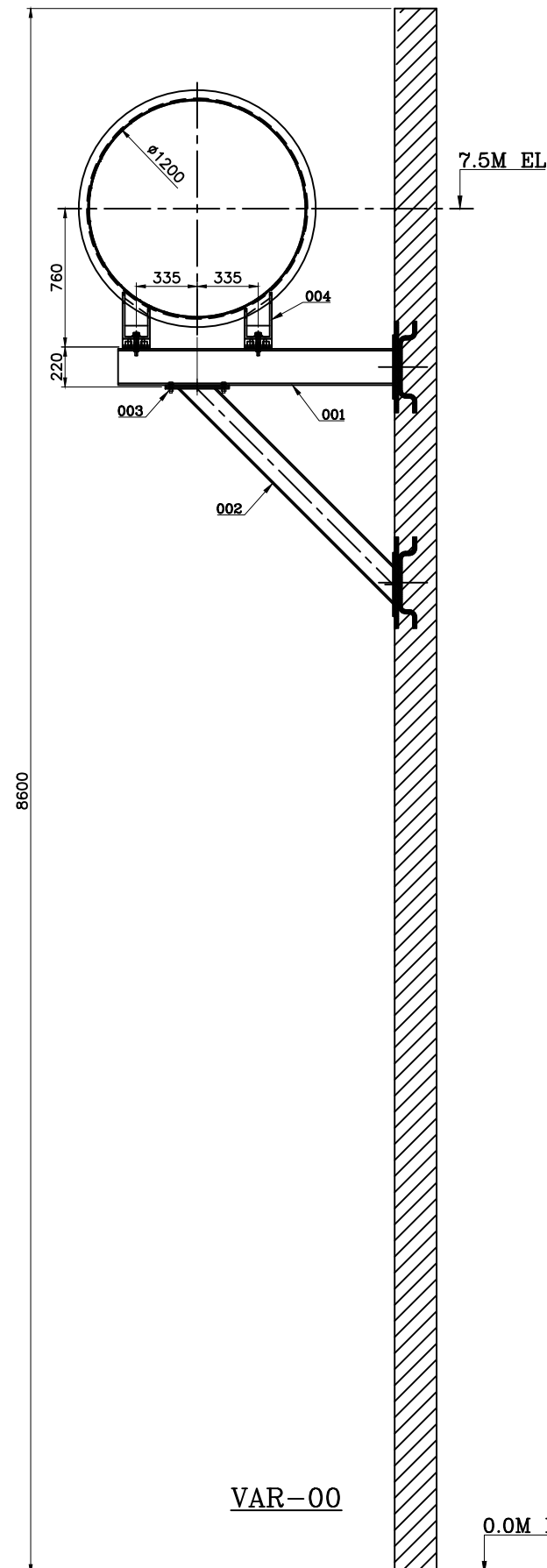
SIZE -A3

First Angle Projection

All Dimensions in 'mm'

31901617015

DRAWING NO.

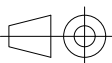


TYPE-N
FOR IPBD POCKET NO.-
1E26-1E27, 1E28-1E29,
2E24-2E25, 2E26-2E27,
3E30-3E31, 3E32-3E33, 3E34-3E35, 3E36-3E37, 3E38-3E39,
4E38-4E39, 4E40-4E41, 4E42-4E43,
5E24-5E25, 5E26-5E27

TOTAL NO. OF SET = 14 NOS.

WT. FOR VAR.00 = 103.91 KGS.

001		004	SUPPORT LEG ARRGT.	31001000226	01		--	001
004		003	8.8 STEEL-ZPP (SET)				0.187	001
			SCRU HEX A M16X55 LG.				001	
001	-	002	W.A. OF TIE BEAM	THIS DRG.			41.90	001
				SHEET 02 OF 02	02		001	
001	-	001	W.A. OF CROSS BEAM	THIS DRG.			61.26	001
				SHEET 02 OF 02	01		001	
VAR	REMARKS	ITEM	DESCRIPTION	DRAWING NO.	IT.NO.	MATL.CODE	WT.	U
00		NO.			VAR.	MATL.SPCN.	QTY.	0

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR
			DRN	SUNNY		30/09/21	
			CKD	SANJAY		30/09/21	
			APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
ASSY. OF STRUCTURE FOR TYPE—N ISOLATED PHASE BUSDUCT					31901617015		00
					SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\DELTA & TAP-OFF.dwg Printed On :17-12-2021 09:13:50

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SIGN. & DATE

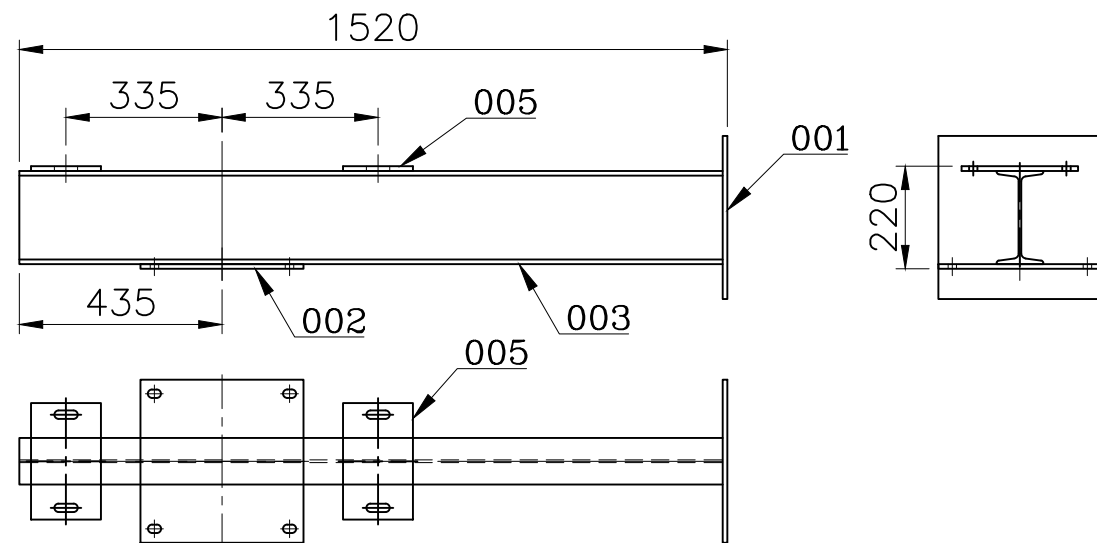
INVENTORY NO.

REF. DRG. NO.

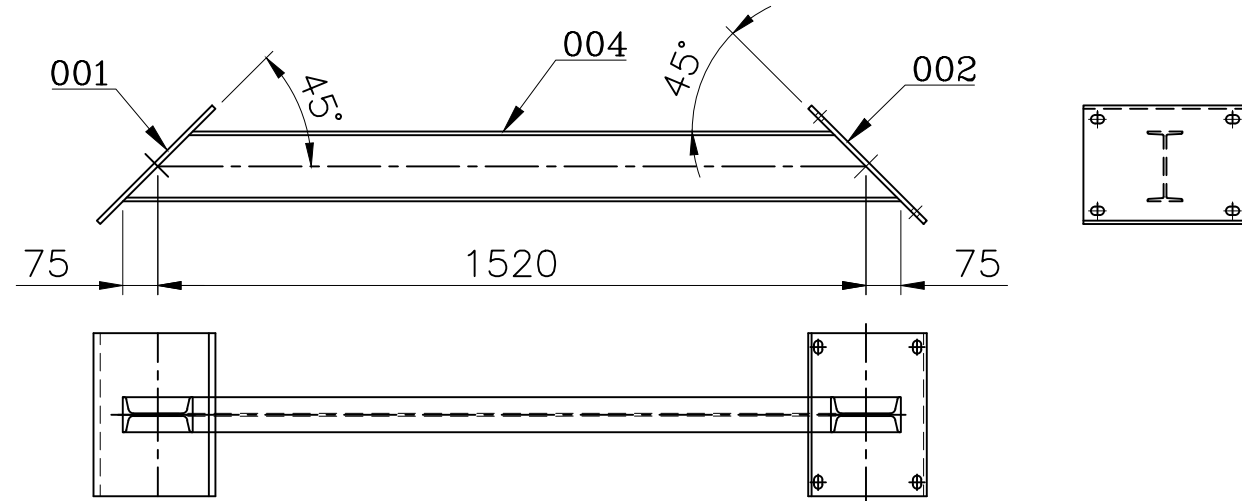
First Angle Projection

All Dimensions in 'mm'

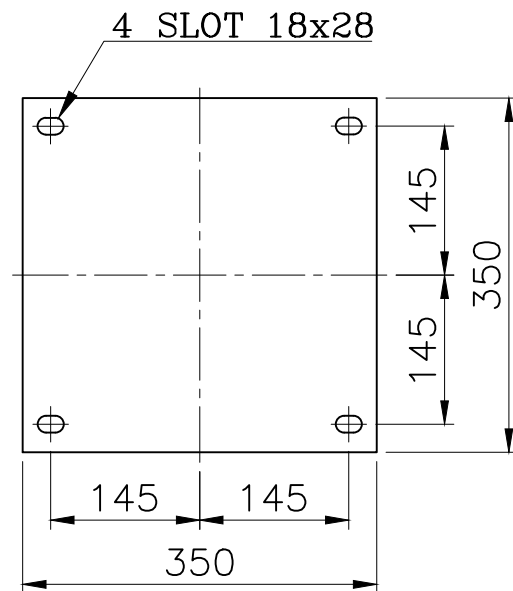
31901617015
DRAWING NO.



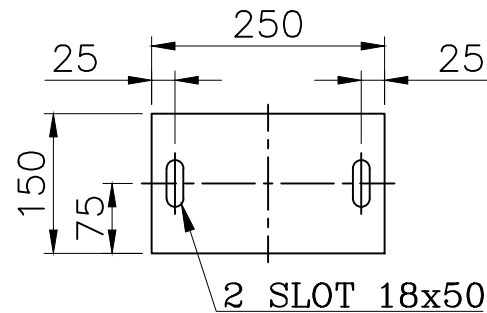
VAR-01



VAR-02



IT.-002



IT.-005

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLOMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

REV.	DATE	ALTERED
		CHECKED
		APPD.

41.90	61.26	VAR. WT. IN KG.						
	002	LEG / DMC PLATE	005	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.813
001			004	ISMB 150 x75 x5 x8x 1670 LG.	SEE DETAIL		AA 101 08	22.800
	001		003	ISMB 200 x100 x5.7 x10x 1510 LG.	S.C.O.		AA 101 08	36.542
001	001		002	10 TK x 350 x 350 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	9.480
001	001		001	10 TK x 350 x 350 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	9.616
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR	
	RUDRAPUR		CKD	SANJAY		30/09/21	—	
			APPD	RUPESH		30/09/21	—	
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM	
CODE —	m		—	—		—	—	
TITLE				DRAWING NO.		REV.		
W.ASSY. OF STRUCTURE FOR TYPE-N ISOLATED PHASE BUSDUCT				31901617015		00		
				SHT. NO. 02		NO. OF SHT. 02		

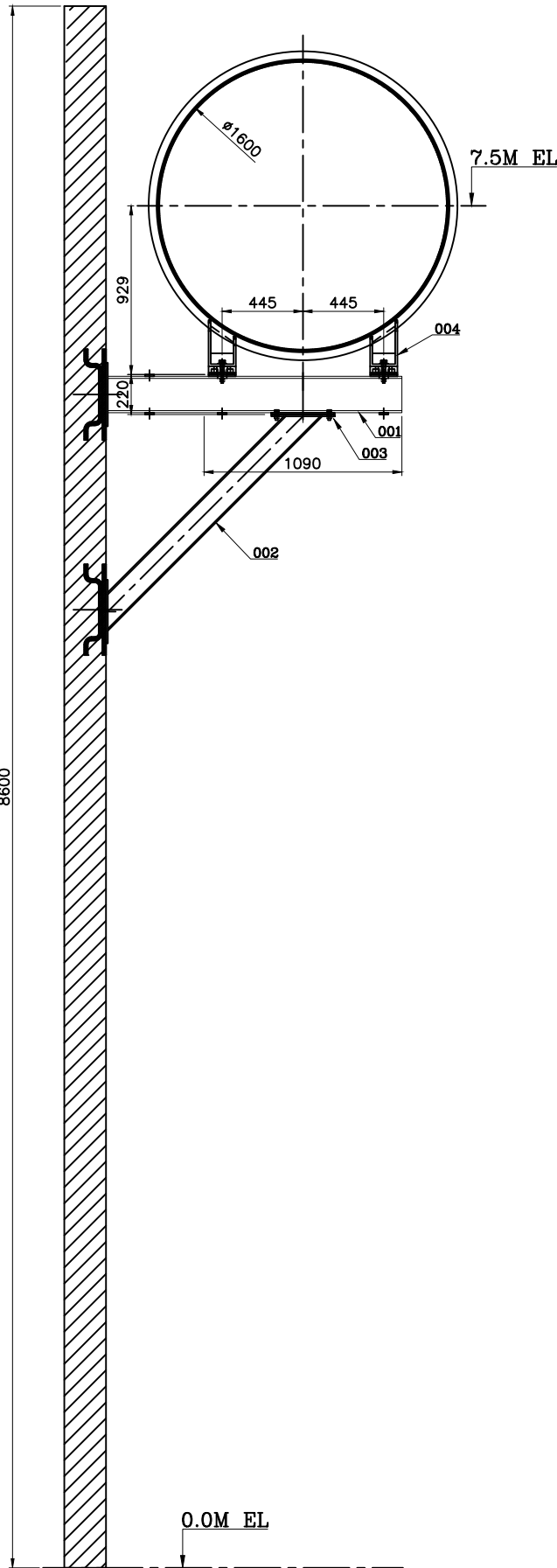
SIZE -A3

First Angle Projection

All Dimensions in 'mm'

31901617014

DRAWING NO.



VAR-00

0.0M EL

7.5M EL

TYPE-M
FOR IPBD POCKET NO.-
1E20-1E21, 1E22-1E23, 1E24-1E25,
2E20-2E21, 2E22-2E23,
3E20-3E21, 3E22-3E23, 3E24-3E25, 3E26-3E27, 3E28-3E29,
4E20-4E21, 4E22-4E23, 4E24-4E25, 4E26-4E27,
5E20-5E21, 5E22-5E23

TOTAL NO. OF SET = 16 NOS.

WT. FOR VAR.00 = 142.76 KGS.

001		004	SUPPORT LEG ARRGT.	31001000226	01	--	001
004		003	8.8 STEEL-ZPP (SET) SCRU HEX A M16X55 LG.				0.187 001
001	-	002	W.A. OF TIE BEAM	THIS DRG. SHEET 02 OF 02	01		41.90 001
001	-	001	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	00		100.11 001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.
RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		30/09/21	
APPD	RUPESH		30/09/21	

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

DEPT.	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
BDE	m		-	-	-	-
CODE						
TITLE				DRAWING NO.	REV.	
ASSY. OF STRUCTURE FOR TYPE-M ISOLATED PHASE BUSDUCT				31901617014	00	
				SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

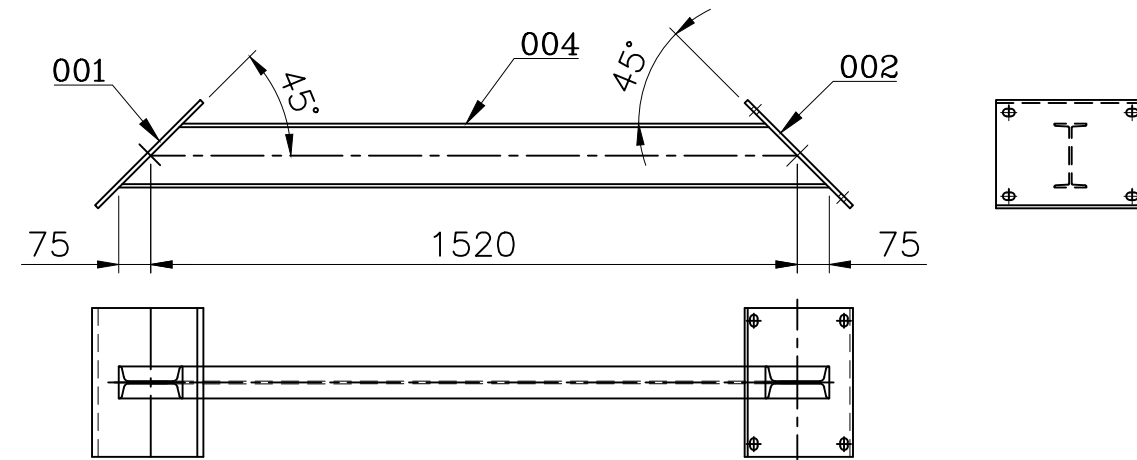
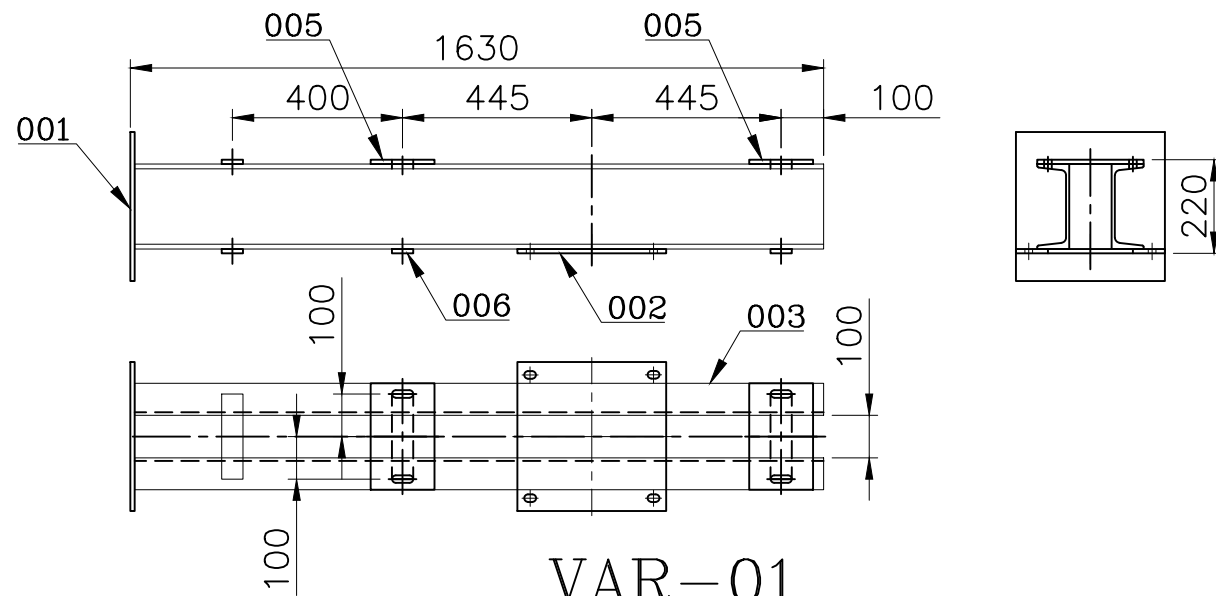
SIGN. & DATE

REF. DRG. NO.

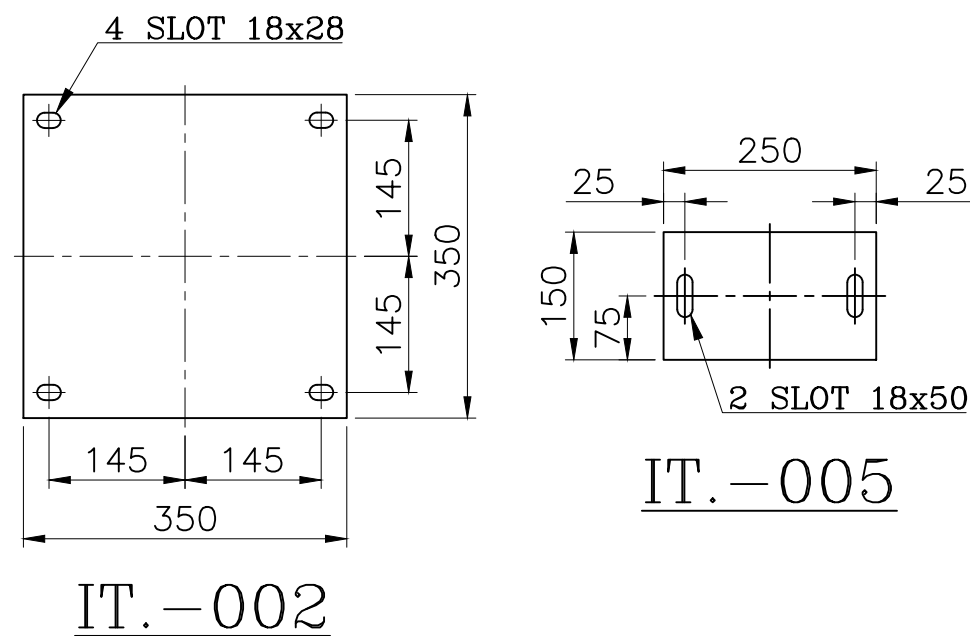
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All Dimensions in 'mm'

DRAWING NO.

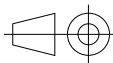


VAR-02



IT.-005

41.90	100.11	< VAR. WT. IN KG.						
	004		006	10 TK x 50 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL			0.785
	002	LEG / DMC PLATE	005	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	001
								2.813
							AA 101 08	001
001			004	ISMB 150 x75 x5 x8x 1670 LG.	SEE DETAIL			22.800
							AA 101 08	001
	002		003	ISMC 200 x75 x6.2 x11.4x 1620 LG.	S.C.O.			36.126
							AA 101 08	001
001	001		002	10 TK x 350 x 350 LG. STRUCTURE STEEL PLATE	SEE DETAIL			9.480
							AA 101 08	001
001	001		001	10 TK x 350 x 350 LG. STRUCTURE STEEL PLATE	S.C.O.			9.616
							AA 101 08	001
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MAT. CODE	WT.
						VAR.	MAT. SPCN.	QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR				NAME	SIGN	DATE	NO. OF VAR —	
			DRN	SUNNY		30/09/21		
			CKD	SANJAY		30/09/21		
			APPD	RUPESH		30/09/21		
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM —
CODE —	m		—	—	—		—	
TITLE					DRAWING NO.		REV.	
W.ASSY. OF STRUCTURE FOR TYPE—M ISOLATED PHASE BUSDUCT					31901617014		00	
					SHT. NO. 02		NO. OF SHT. 02	

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLUMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

SIZE -A3

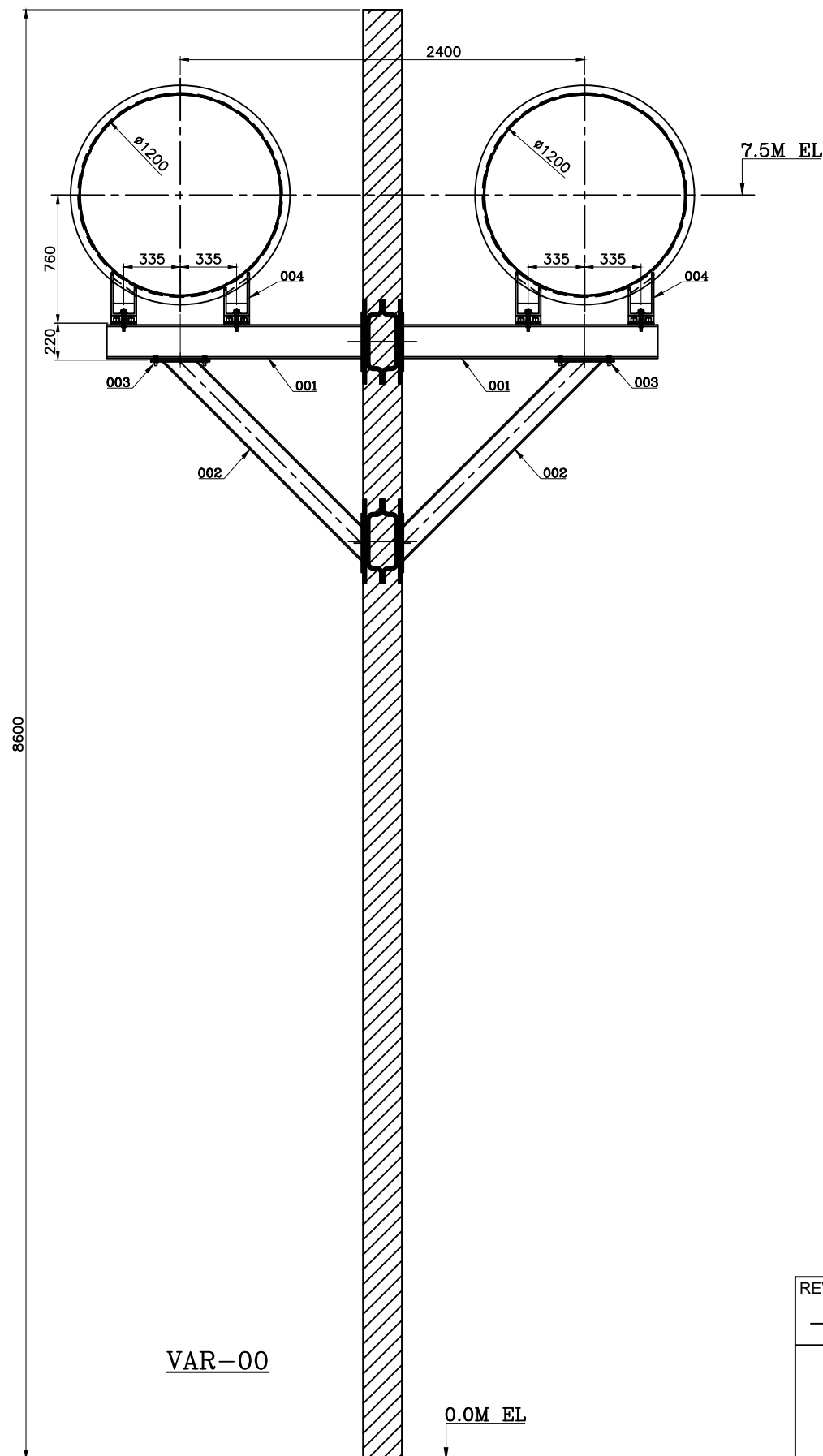
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First Angle Projection

All Dimensions in 'mm'

31901617013

DRAWING NO.



TYPE-L

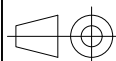
FOR IPBD POCKET NO.-

1E30 TO 1E33, 1E34 TO 1E37, 1E38 TO 1E41, 1E42 TO 1E45,
1E46 TO 1E49, 1E50 TO 1E53, 1E54 TO 1E57,
2E28 TO 2E31, 2E32 TO 2E35, 2E36 TO 2E39, 2E40 TO 1E43,
2E44 TO 2E47, 2E48 TO 2E51, 2E52 TO 2E55,
3E40 TO 3E43, 3E44 TO 3E47,
4E30 TO 4E33, 4E34 TO 4E37, 4E44 TO 4E47,
4E48 TO 4E51, 4E52 TO 4E55, 4E56 TO 4E59,
5E28 TO 5E31, 5E32 TO 5E35, 5E36 TO 5E39, 5E40 TO 5E43,
5E44 TO 5E47, 5E48 TO 5E51, 5E52 TO 5E55,

TOTAL NO. OF SET = 29 NOS.

WT. FOR VAR.00 = 207.82 KGS.

002		004	SUPPORT LEG ARRGT.	31001000226	01		--	001
008		003	8.8 STEEL-ZPP (SET) SCRU HEX A M16X55 LG.					0.187
002	-	002	W.A. OF TIE BEAM	THIS DRG. SHEET 02 OF 02	02			41.90
002	-	001	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	01			61.26
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	00

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR
			DRN	SUNNY		30/09/21	
			CKD	SANJAY		30/09/21	
			APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
ASSY. OF STRUCTURE FOR TYPE—L ISOLATED PHASE BUSDUCT					31901617013		00
			SHT. NO. 01		NO. OF SHT. 02		

SIZE -A3

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SIGN. & DATE

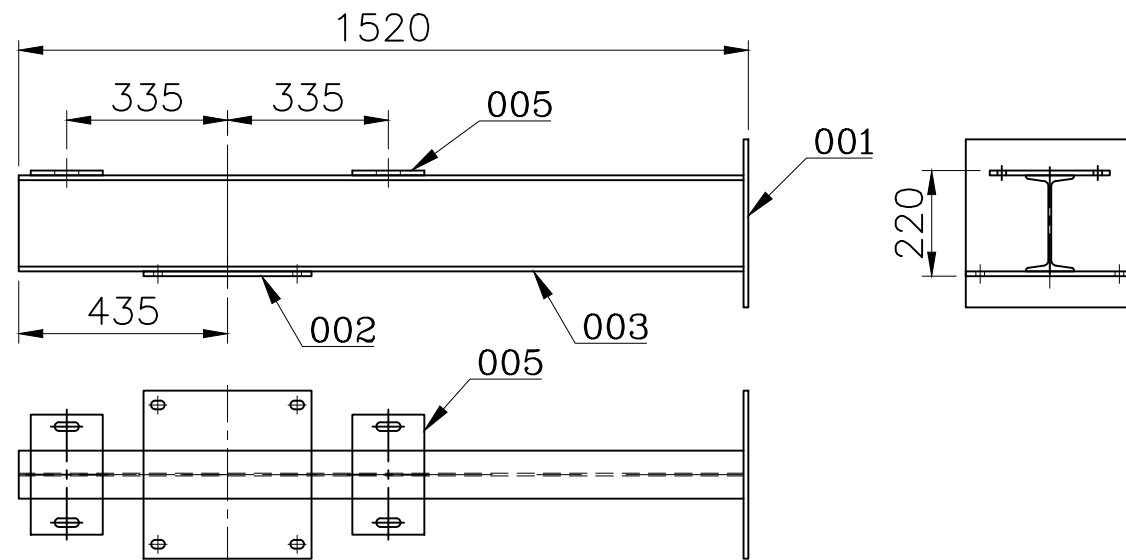
INVENTORY NO.

REF. DRG. NO.

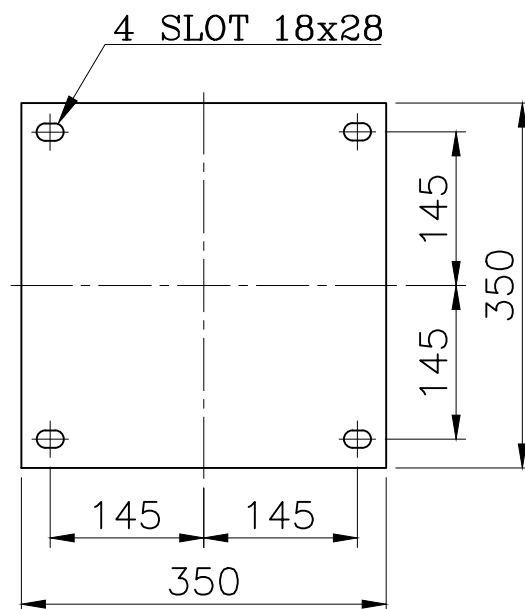
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All Dimensions in 'mm'

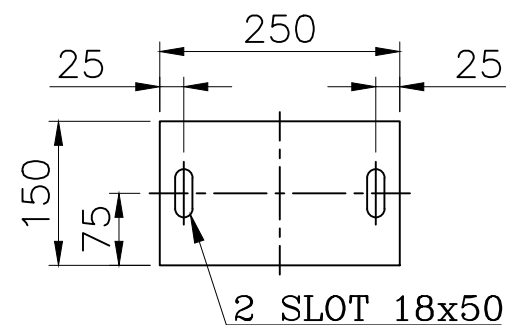
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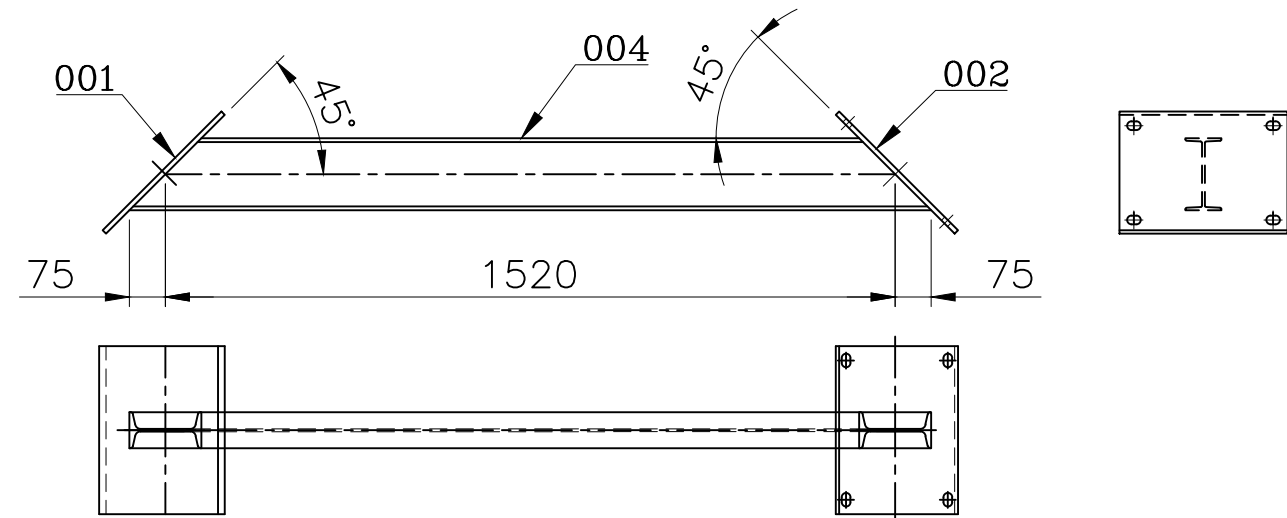
VAR-01



IT.-002



IT.-005



VAR-02

41.90	61.26	VAR. WT. IN KG.						
	002	LEG / DMC PLATE	005	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.813 001
001			004	ISMB 150 x75 x5 x8x 1670 LG.	SEE DETAIL		AA 101 08	22.800 001
	001		003	ISMB 200 x100 x5.7 x10x 1510 LG.	S.C.O.		AA 101 08	36.542 001
001	001		002	10 TK x 350 x 350 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	9.480 001
001	001		001	10 TK x 350 x 350 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	9.616 001
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT	<u>5x800 MW YADADRI TPS, NALGONDA</u>
NAME OF CUSTOMER	<u>TELANGANA STATE POWER GENERATION CORPORATION LTD</u> <u>TELANGANA, INDIA</u>

	BHARAT HEAVY ELECTRICALS LTD.			NO. OF VAR	
	DRN	NAME SUNNY	SIGN		DATE 30/09/21
	CKD	SANJAY			30/09/21
	APPD	RUPESH			30/09/21
RUDRAPUR				—	

DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—

TITLE	W.ASSY. OF STRUCTURE FOR TYPE-L ISOLATED PHASE BUSDUCT
-------	---

DRAWING NO.		REV.
31901617013		00
SHT. NO.	02	NO. OF SHT. 02

SIZE -A3

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SIGN. & DATE _____ TREF. DRG. NO. _____

INVENTORY NO.

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLUMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

REV.	DATE	ALTERED
		CHECKED
		APPD.

--	--

Computer File:- PC: Kupesh Kumar Patn: D:\VAUAKI\90\1PBU SIRKUCURE\VELIA & IAP-Ort.dwg Printed On: 11-12-2021 09:14:13

First Angle Projection

All Dimensions in 'mm'

31901617012

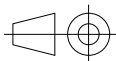
DRAWING NO.

TYPE-K
FOR IPBD POCKET NO.-
1P27

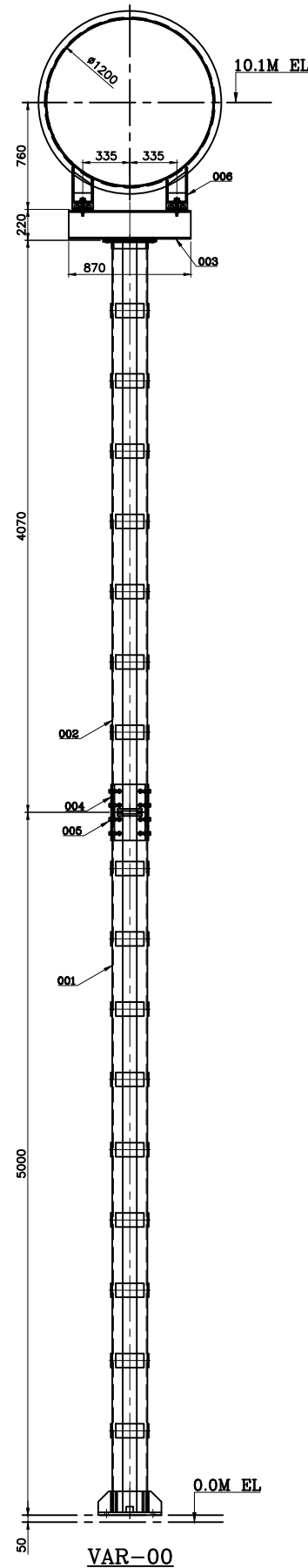
TOTAL NO. OF SET = 01 NO.

WT. FOR VAR.00 = 513.46 KGS.

001		006	SUPPORT LEG ARRGT.	31001000226	01	--	001
036		005	8.8 STEEL-ZPP (SET) SCRU HEX A M16X55 LG.				0.187
							001
004		004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	012		5.308
							001
001	-	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02		37.88
							001
001	-	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		186.43
							001
001	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	00		261.19
							001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
	RUDRAPUR		CKD	SANJAY		30/09/21	-
			APPD	RUPESH		30/09/21	-
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE	m		-	-		-	-
TITLE				DRAWING NO.		REV.	
ASSY. OF STRUCTURE FOR TYPE-K ISOLATED PHASE BUSDUCT				31901617012		00	
				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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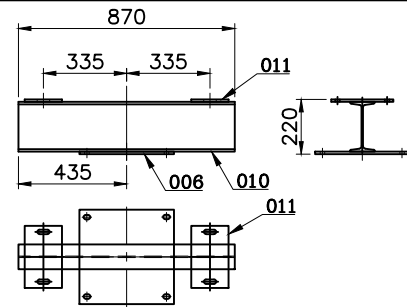
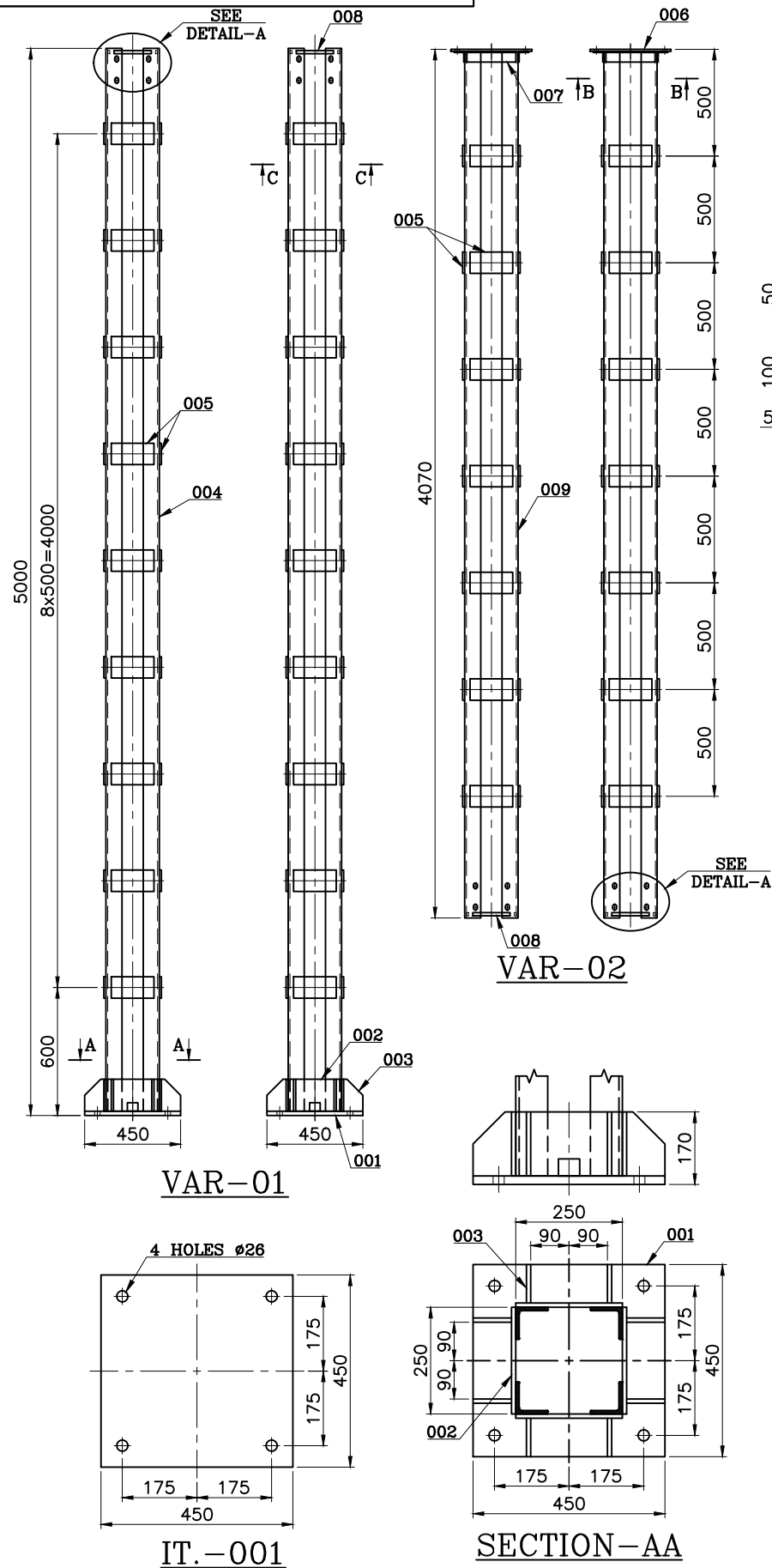
INVENTORY NO. SIGN. & DATE REF. DRG. NO.

First Angle Projection

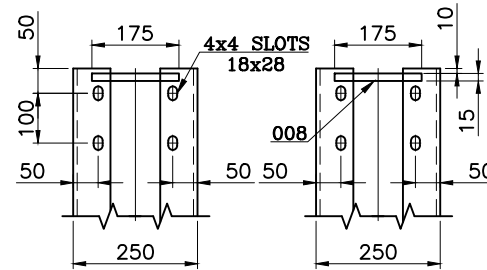
All Dimensions in 'mm'

31901617012

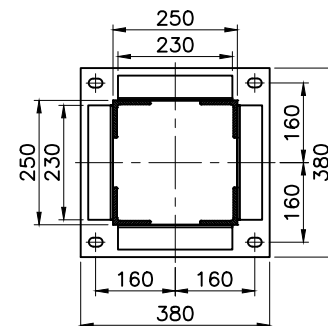
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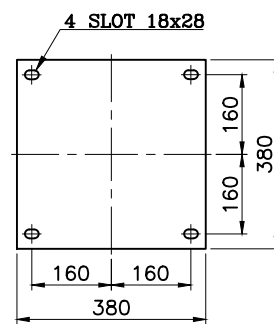
VAR-03



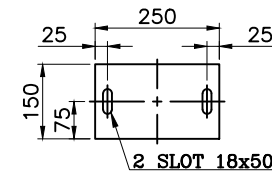
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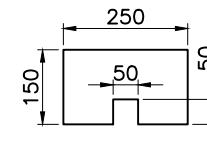
SECTION-BB



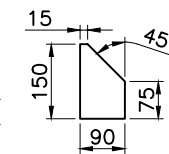
IT.-006



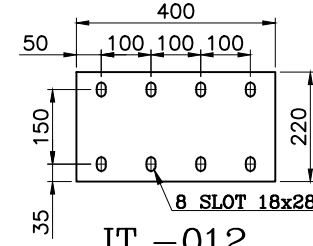
IT.-011



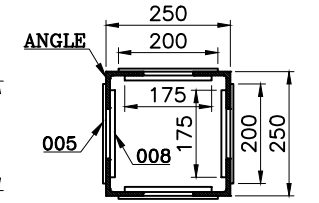
IT.-002



IT.-003



IT.-012



SECTION-CC

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLUMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

VAR	VAR	VAR	VAR. WT. IN KG.	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MAT. CODE	WT.
003	002	001	37.88	012	8 TK x 220 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	5.308
			186.43	011	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.813
			261.19	010	ISMB 200 x100 x5.7 x10x 870 LG.	S.C.O.		AA 101 08	21.054
				009	ISA 8TK. x75 x75 x 4060 LG.	S.C.O.		AA 101 08	36.134
				008	10 TK x 15 x 175 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.206
				007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 101 08	0.874
				006	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199
				005	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	0.942
				004	ISA 8TK. x75 x75 x 4980 LG.	S.C.O.		AA 101 08	11.322
				003	10 TK x 90 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.839
				002	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.718
				001	20 TK x 450 x 450 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	31.459
VAR	VAR	VAR	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MAT. CODE	WT.
03	02	01					VAR.	MAT. SPCN.	QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT.	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
BDE	m					
CODE						
TITLE						
W.ASSY. OF STRUCTURE FOR TYPE-K ISOLATED PHASE BUSDUCT						
DRAWING NO.						
31901617012						
SHT. NO.						
02						
NO. OF SHT.						
02						

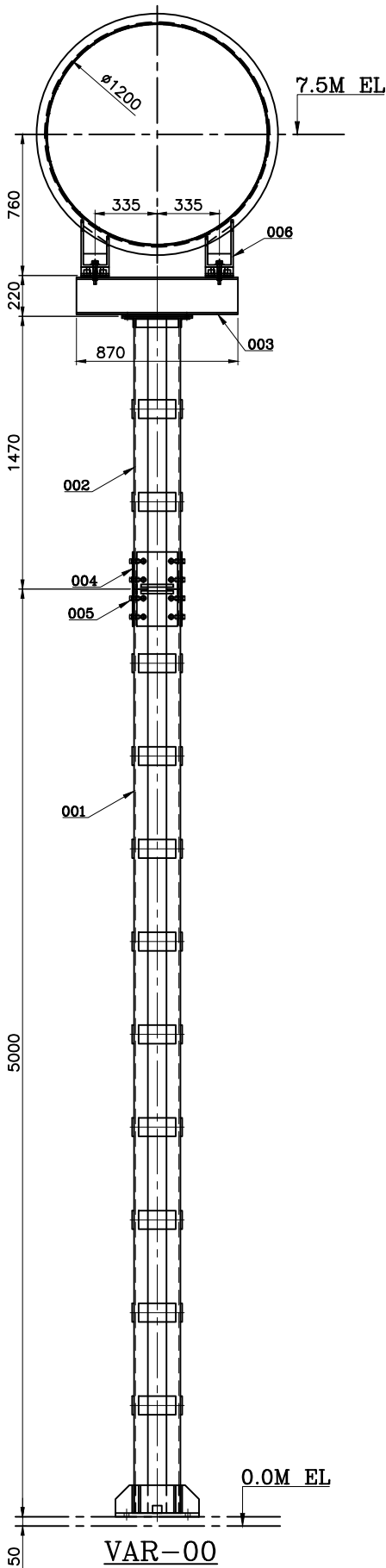
SIZE -A3

First Angle Projection

All Dimensions in 'mm'

31901617011

DRAWING NO.



TYPE-J
FOR IPBD POCKET NO.-
1P19, 1P24,
2P19, 2P24,
3P19, 3P24,
5P19, 5P24

TOTAL NO. OF SET = 08 NOS.

WT. FOR VAR.00 = 402.06 KGS.

001		006	SUPPORT LEG ARRGT.	31001000226	01		--	001
036		005	8.8 STEEL-ZPP (SET) SCRU HEX A M16X55 LG.				0.187	001
004		004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	012		5.308	001
001	-	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02		37.88	001
001	-	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		75.03	001
001	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	00		261.19	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	0 0

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.
RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		30/09/21	
APPD	SANJAY		30/09/21	
	RUPESH		30/09/21	

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

DEPT.	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
BDE	m		-	-	-	-
CODE						
TITLE				DRAWING NO.	REV.	
ASSY. OF STRUCTURE FOR TYPE-J ISOLATED PHASE BUSDUCT				31901617011	00	
				SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

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SIGN. & DATE REF. DRG. NO.

INVENTORY NO.

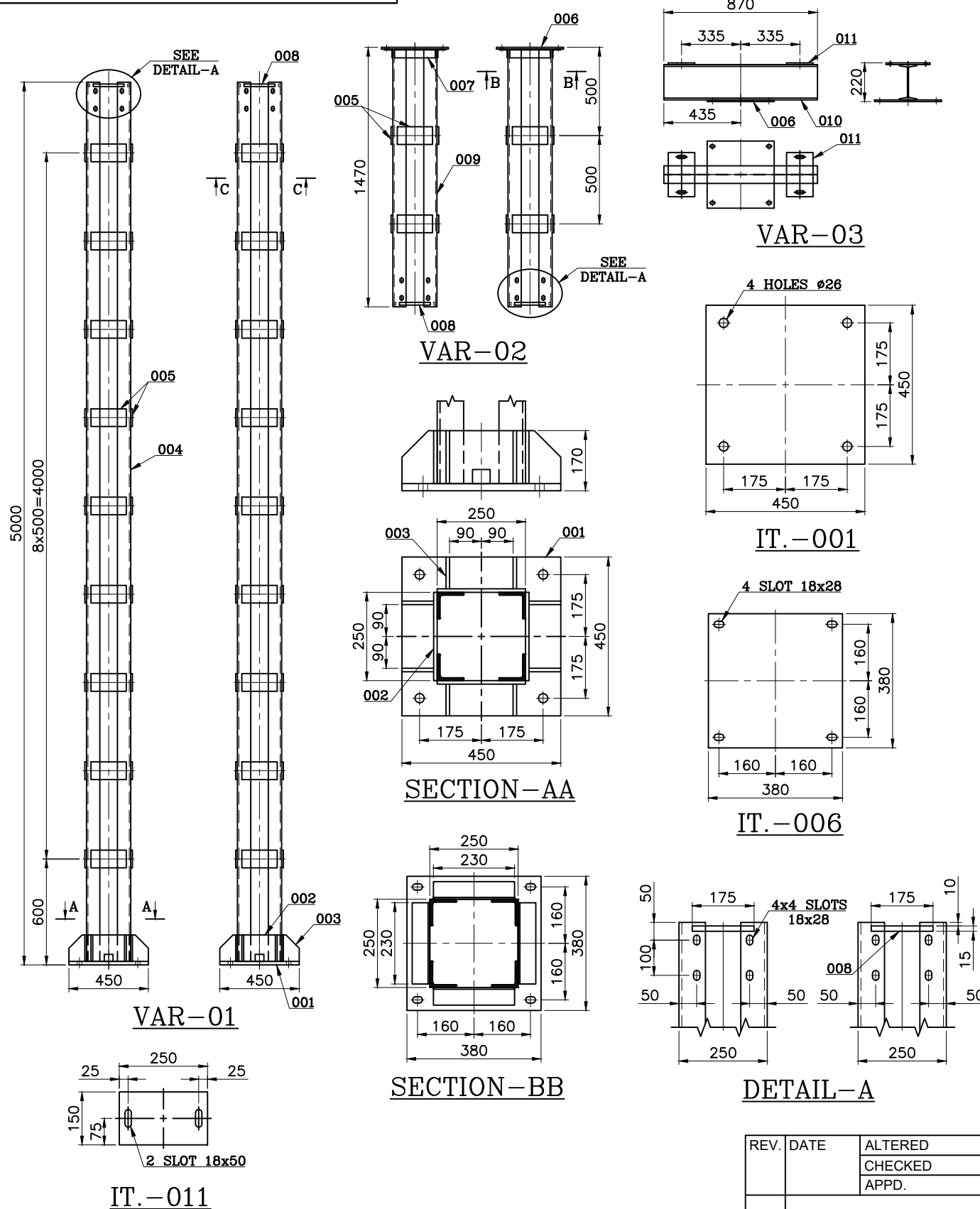
All Dimensions in 'mm'

DRAWING NO.

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SIGN. & DATE _____ TREF. DRG. NO. _____

INVENTORY NO.



1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLUMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

37.88	75.03	261.19	←VAR. WT. IN KG.						
				012	8 TK x 220 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL			5.308
								AA 101 08	001
002			LEG / DMC PLATE	011	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL			2.813
								AA 101 08	001
001				010	ISMB 200 x100 x5.7 x10x 870 LG.	S.C.O.			21.054
								AA 101 08	001
	004			009	ISA 8TK. x75 x75 x 1460 LG.	S.C.O.			12.994
	004	004		008	10 TK x 15 x 175 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	001
								AA 101 08	001
	004			007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.			0.874
								AA 101 08	001
001	001		TOP PLATE	006	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL			11.199
	008	036	BATTEN PLATE	005	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	001
								AA 101 08	001
		004		004	ISA 8TK. x75 x75 x 4980 LG.	S.C.O.			44.322
								AA 101 08	001
		008	BRACING PLATE	003	10 TK x 90 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL			0.839
								AA 101 08	001
		004	BOTTOMSIDE SUPPORT PLATE	002	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL			2.748
								AA 101 08	001
		001	BASE PLATE	001	20 TK x 450 x 450 LG. STRUCTURE STEEL PLATE	SEE DETAIL			31.459
								AA 101 08	001
VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT	<u>5x800 MW YADADRI TPS, NALGONDA</u>
NAME OF CUSTOMER	<u>TELANGANA STATE POWER GENERATION CORPORATION LTD</u> <u>TELANGANA, INDIA</u>

बीएचईएल BHEL BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR				NAME		SIGN	DATE	NO. OF VAR
				DRN	SUNNY		30/09/21	
				CKD	SANJAY		30/09/21	
				APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR. m		SCALE —	WEIGHT(KG) —	REF. TO ASSY. DRG. —		ITEM NO. —	NO. OF ITEM —
CODE —								
TITLE <u>W.ASSY. OF STRUCTURE FOR TYPE—J</u> <u>ISOLATED PHASE BUSDUCT</u>					DRAWING NO. 31901617011		REV. 00	
					SHT. NO. 02		NO. OF SHT. 02	

Computer File:- PC: Rupeesh Kumar Path: D:\YADAPRI\907\IPBD STRUCTURE\DELTA & TAP-OFF.dwg Printed On :17-12-2021 09:14:35

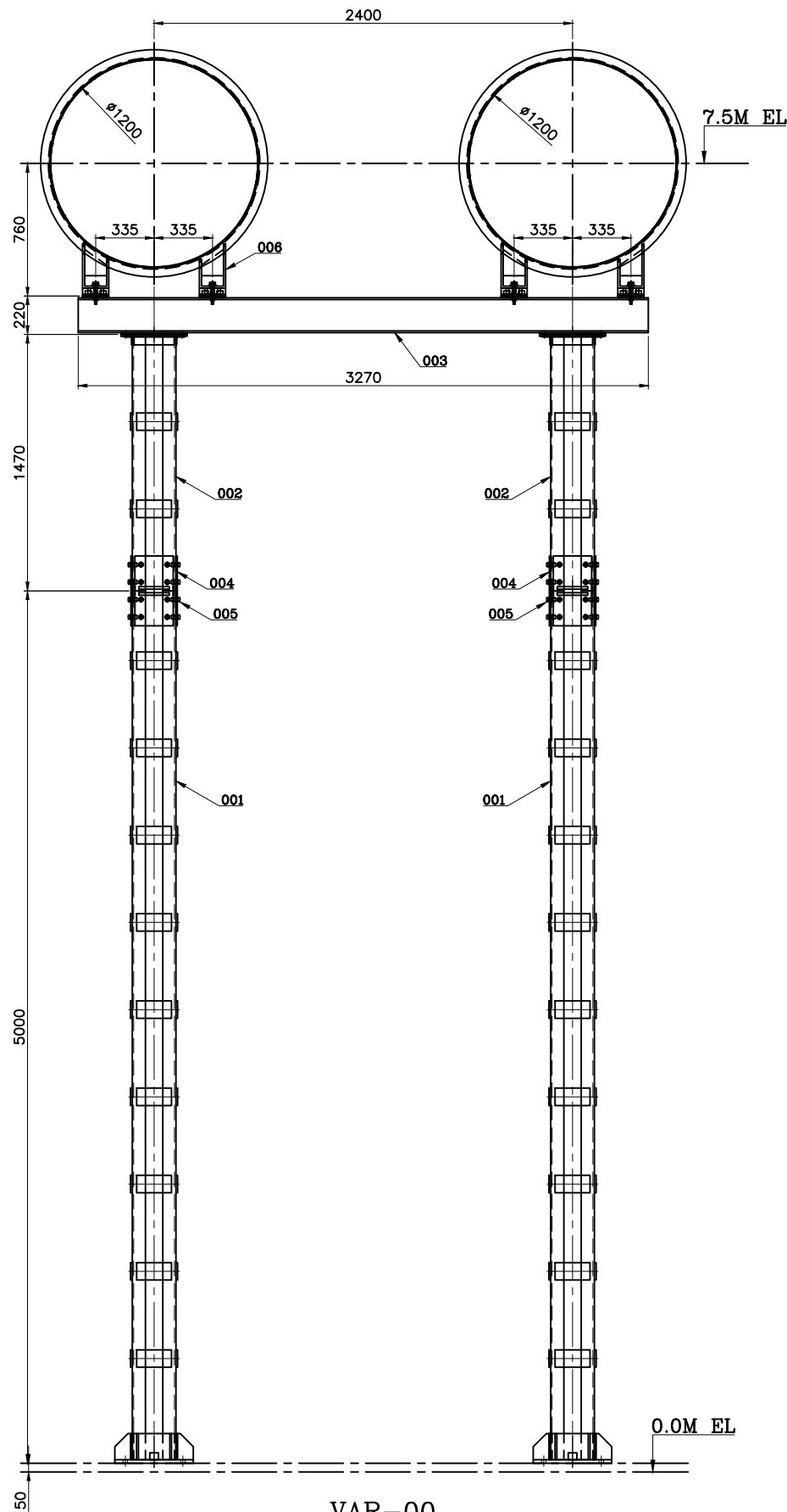
SIZE -A3

First Angle Projection

All Dimensions in 'mm'

31901617010

DRAWING NO.



VAR-00

TYPE-I
FOR IPBD POCKET NO.-
2P27-2P28,
3P27-3P28, 3P29-3P30,
5P27-5P28

TOTAL NO. OF SET = 04 NOS.

WT. FOR VAR.00 = 841.16 KGS.

002		006	SUPPORT LEG ARRGT.	31001000226	01		001
072		005	8.8 STEEL-ZPP (SET) SCRU HEX A M16X55 LG.				0.187
008		004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	012		5.308
001	-	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	03		112.79
002	-	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02		75.03
002	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		261.19
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.
RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		30/09/21	
APPD	SANJAY		30/09/21	
	RUPESH		30/09/21	

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

DEPT.	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
BDE	m		-	-	-	-
CODE						
TITLE				DRAWING NO.	REV.	
ASSY. OF STRUCTURE FOR TYPE-I ISOLATED PHASE BUSDUCT				31901617010	00	
				SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED.
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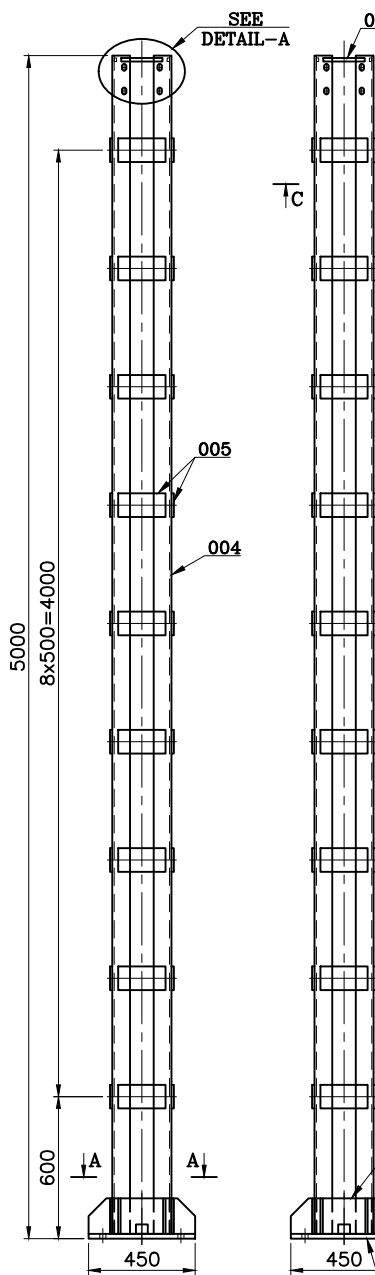
INVENTORY NO. SIGN. & DATE REF. DRG. NO.

First Angle Projection

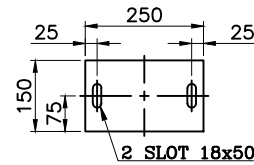
All Dimensions in 'mm'

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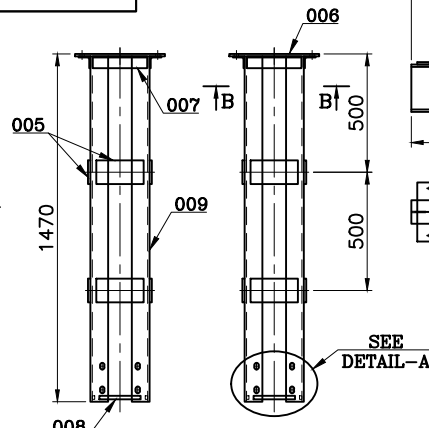
DRAWING NO.



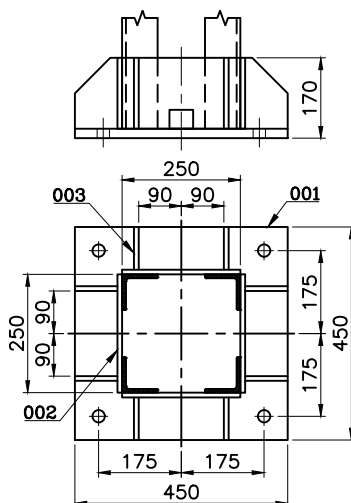
VAR-01



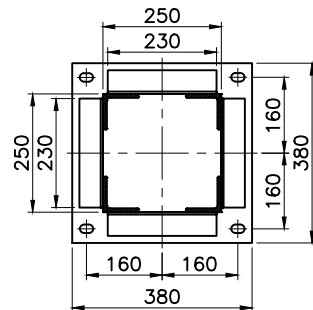
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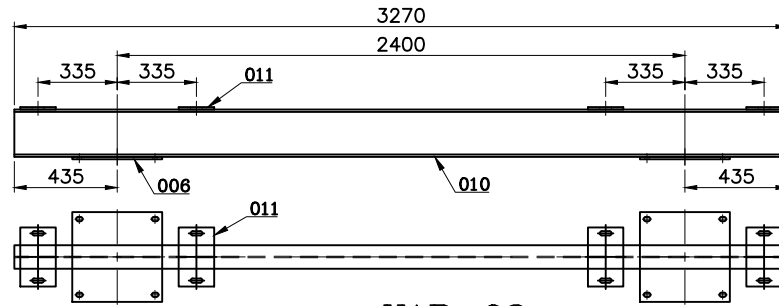
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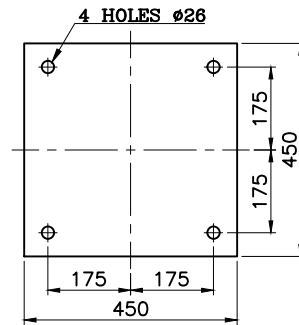
SECTION-AA



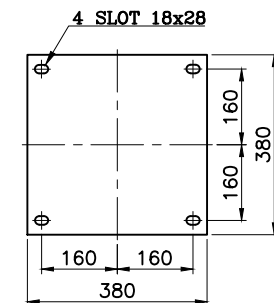
SECTION-BB



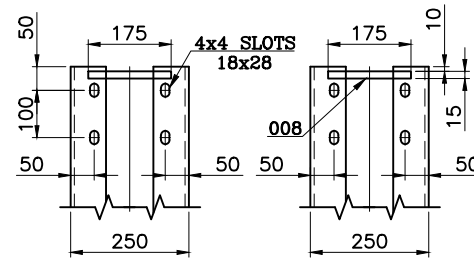
VAR-03



IT.-001

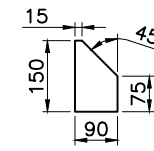


IT.-006

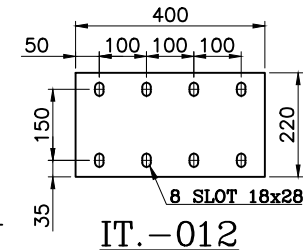


DETAIL-A

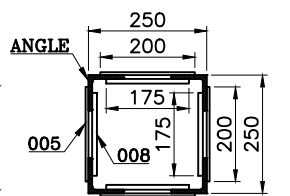
IT.-002



IT.-003



IT.-012



SECTION-CC

VAR	VAR	VAR	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE	WT. QTY.
003	002	001							
				012	8 TK x 220 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	5.308
004			LEG / DMC PLATE	011	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.813
001				010	ISMB 200 x100 x5.7 x10x 3270 LG.	S.C.O.		AA 101 08	79.134
	004			009	ISA 8TK. x75 x75 x 1460 LG.	S.C.O.		AA 101 08	12.994
	004	004		008	10 TK x 15 x 175 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.206
	004			007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 101 08	0.874
002	001		TOP PLATE	006	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199
	008	036	BATTEN PLATE	005	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	0.942
		004		004	ISA 8TK. x75 x75 x 4980 LG.	S.C.O.		AA 101 08	44.322
		008	BRACING PLATE	003	10 TK x 90 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.839
		004	BOTTOM SIDE SUPPORT PLATE	002	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.748
		001	BASE PLATE	001	20 TK x 450 x 450 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	31.459

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT.	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
BDE	m					
CODE						
TITLE				DRAWING NO.		REV.
				31901617010		00
				SHT. NO. 02	NO. OF SHT. 02	

NOTE:-

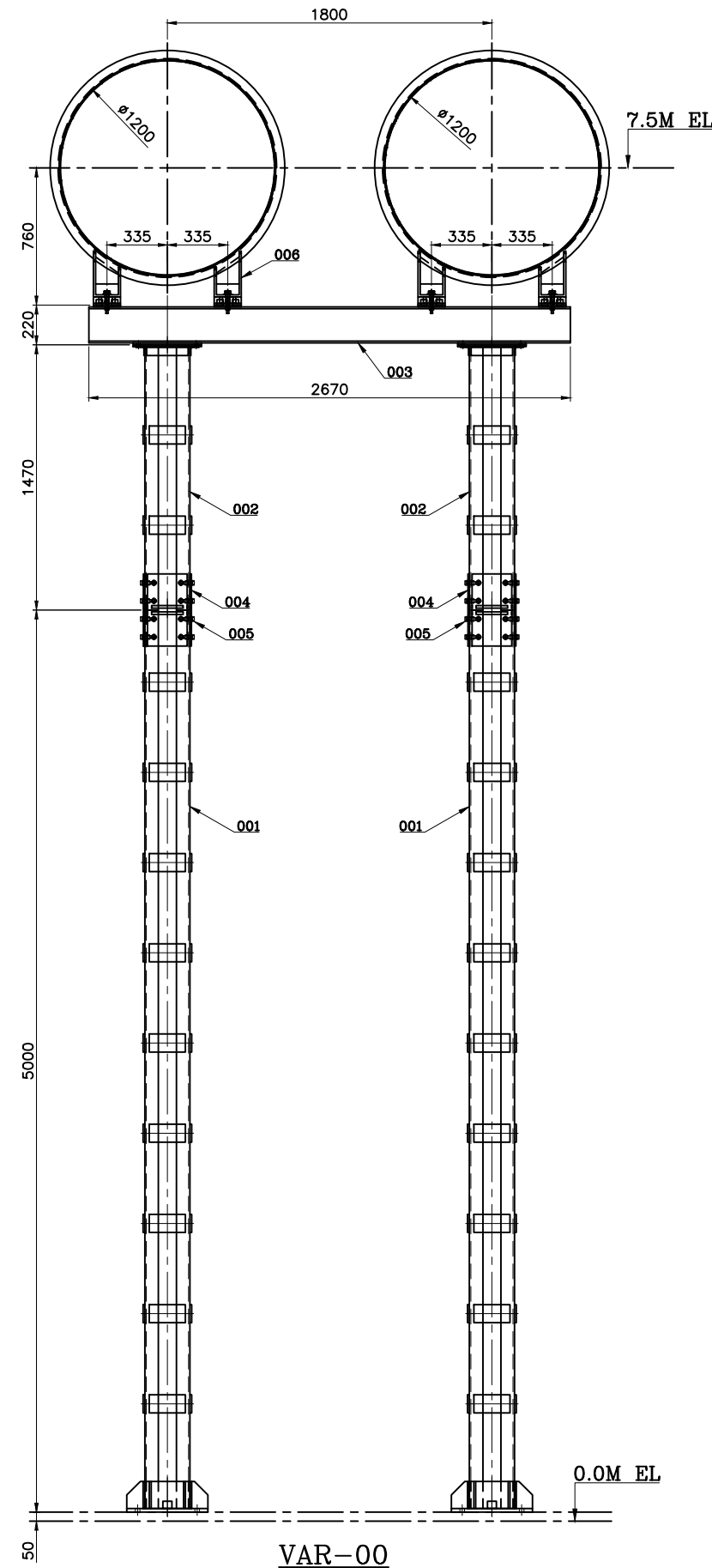
- ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
- THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLOMN ASSY.
- MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

First Angle Projection

All Dimensions in 'mm'

600Z191061Z

DRAWING NO.



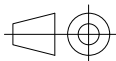
TYPE-H
FOR IPBD POCKET NO.-

1P15-1P16, 1P17-1P18, 1P20-1P21, 1P22-1P23, 1P25-1P26,
2P15-2P16, 2P17-2P18, 2P20-2P21, 2P22-2P23, 2P25-2P26,
3P15-3P16, 3P17-3P18, 3P20-3P21, 3P22-3P23, 3P25-3P26,
4P15-4P16, 4P17-4P18, 4P19-4P20, 4P21-4P22, 4P23-4P24,
5P15-5P16, 5P17-5P18, 5P20-5P21, 5P22-5P23, 5P25-5P26

TOTAL NO. OF SET = 25 NOS.

WT. FOR VAR.00 = 826.64 KG.

002		006	SUPPORT LEG ARRGT.	31001000226	01		--	
072		005	8.8 STEEL-ZPP (SET) SCRU HEX A M16X55 LG.				0.187	
008		004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	012		5.308	
001	-	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02		98.27	
002	-	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		75.03	
002	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	00		261.19	
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	U C

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR	
	RUDRAPUR		CKD	SANJAY		30/09/21	-	
			APPD	RUPESH		30/09/21	-	
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM	
CODE	m		-	-		-	-	
TITLE				DRAWING NO.			REV.	
ASSY. OF STRUCTURE FOR TYPE-H ISOLATED PHASE BUSDUCT				31901617009			00	
				SHT. NO.	01	NO. OF SHT.	02	

SIZE -A3

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

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SIGN. & DATE REF. DRG. NO.

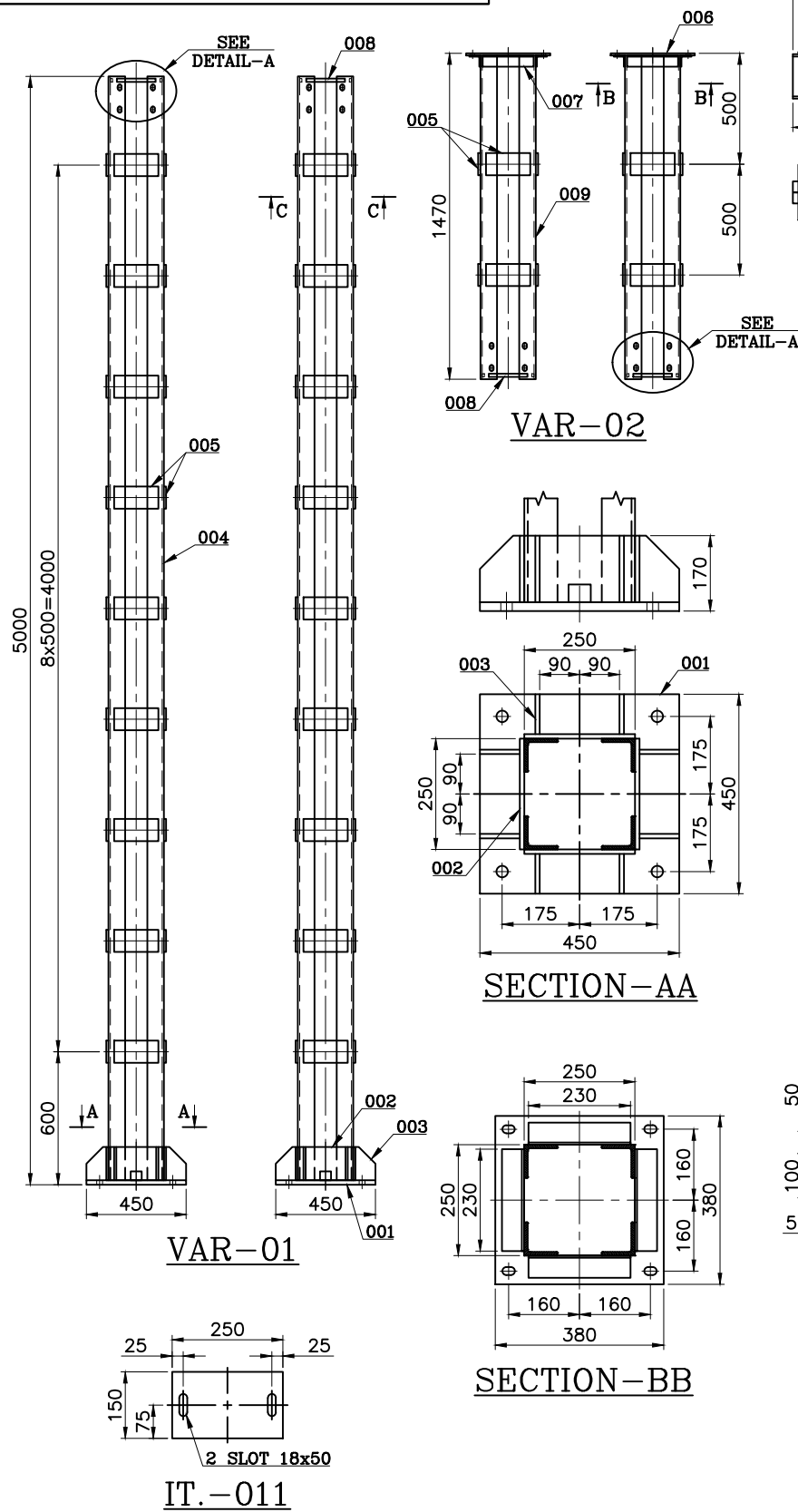
INVENTORY NO.

600Z191061Z

DRAWING NO.

First Angle Projection

All Dimensions in 'mm'



NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLUMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

REV.	DATE	ALTERED
		CHECKED
		APPD.

98.27	75.03	261.19	←VAR. WT. IN KG.						
				012	8 TK x 220 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	5.308
004			LEG / DMC PLATE	011	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.813
001				010	ISMB 200 x100 x5.7 x10x 2670 LG.	S.C.O.		AA 101 08	64.614
	004			009	ISA 8TK. x75 x75 x 1460 LG.	S.C.O.		AA 101 08	12.994
	004	004		008	10 TK x 15 x 175 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.206
	004			007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 101 08	0.874
002	001		TOP PLATE	006	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199
	008	036	BATTEN PLATE	005	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	0.942
		004		004	ISA 8TK. x75 x75 x 4980 LG.	S.C.O.		AA 101 08	11.322
		008	BRACING PLATE	003	10 TK x 90 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.839
		004	BOTTOM SIDE SUPPORT PLATE	002	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.718
		001	BASE PLATE	001	20 TK x 450 x 450 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	31.459
VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.
NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA									
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA									
BHEL BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR									
DRN SUNNY									
CKD SANJAY									
APPD RUPESH									
DEPT. BDE									
UNTOL.DIMS.GR. m									
SCALE									
WEIGHT(KG)									
REF. TO ASSY. DRG.									
ITEM NO.									
NO. OF ITEM									
TITLE W.ASSY. OF STRUCTURE FOR TYPE-H ISOLATED PHASE BUSDUCT									
DRAWING NO. 31901617009									
REV. 00									
SHT. NO. 02									
NO. OF SHT. 02									

SIZE -A3

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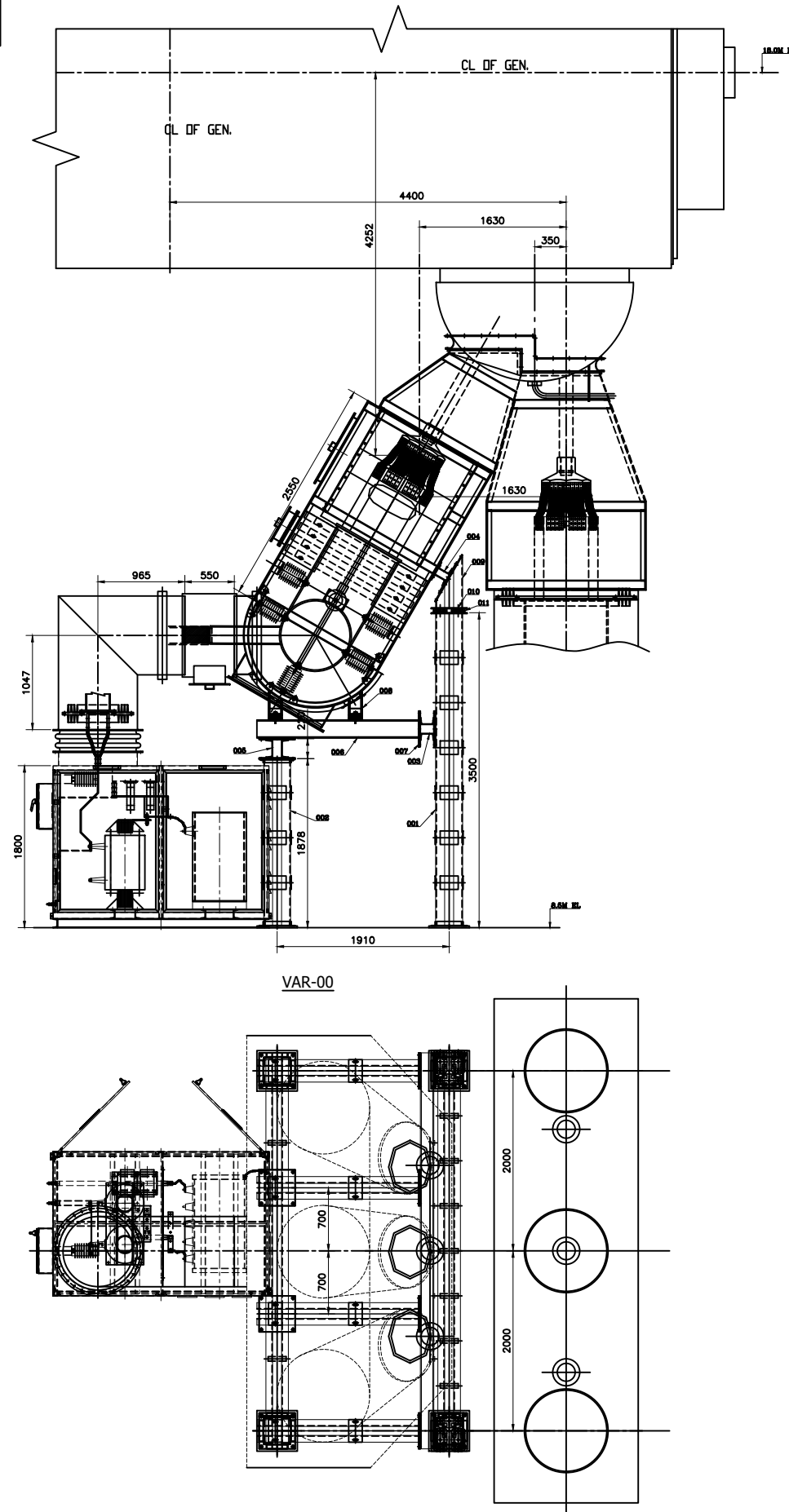
SIGN. & DATE REF. DRG. NO.

INVENTORY NO.

31901617019

DRAWING NO.

First Angle Projection



All Dimensions in 'mm'

TYPE-R
FOR IPBD POCKET NO.

1E1-1E2-1E3-1E4,
2E1-2E2-2E3-2E4,
3E1-3E2-3E3-3E4,
4E1-4E2-4E3-4E4,
5E1-5E2-5E3-5E4

TOTAL NO. OF SET = 05 NOS.

WT. OF VAR.00 = 2054.53 Kg.

006	-	011	DMC PLATE FOR COLUMN SUPPORT	31001000221			--	001
006	-	010	SCRU HEX A M20X45 LG. 8.8 STEEL-ZPP (SET)				0.19	001
002	-	009	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	07		50.81	001
004	-	008	SUPPORT LEG ARRGT.	31001000226	01		--	001
088	-	007	SCRU HEX A M16X50 LG. 8.8 STEEL-ZPP (SET)				0.187	001
004	-	006	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	06		112.10	001
001	-	005	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	05		273.14	001
001	-	004	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	04		225.99	001
001	-	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	03		225.52	001
002	-	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02		138.40	001
002	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		242.73	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	SC

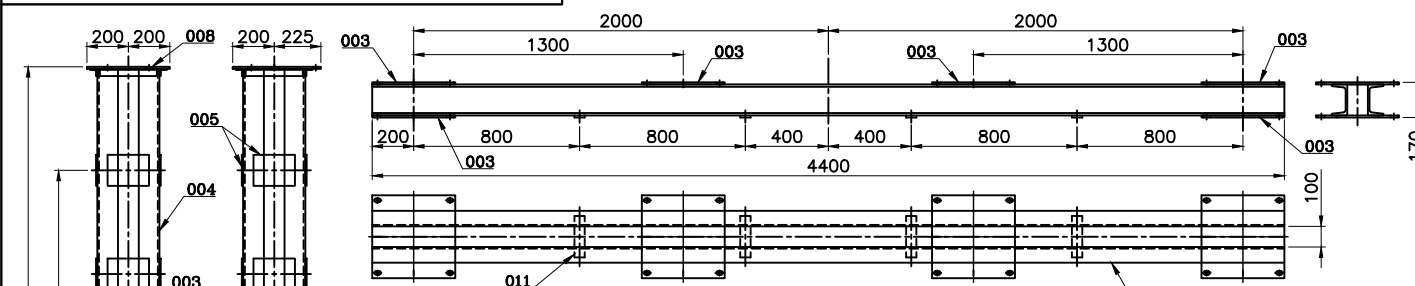
NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA

 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR					NAME	SIGN	DATE	NO. OF VAR
				DRN	SUNNY		30/09/21	
				CKD	SANJAY		30/09/21	
				APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—		—	—
TITLE					DRAWING NO.			REV.
<u>ASSY. OF STRUCTURE FOR TYPE-R</u> <u>ISOLATED PHASE BUSDUCT</u>					31901617019			00
					SHT. NO. 01		NO. OF SHT. 02	

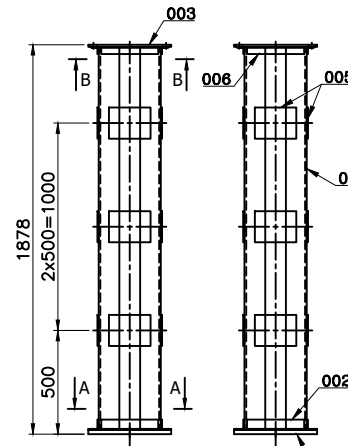
SIZE -A3

All Dimensions in 'mm'

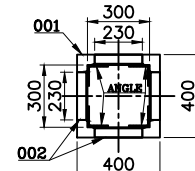
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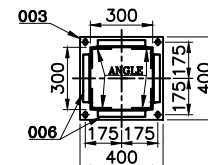
VAR-03



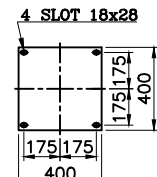
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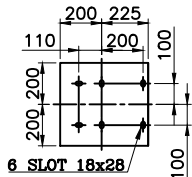
SECTION-"AA"



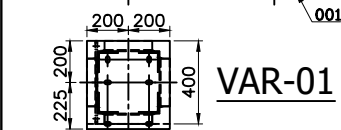
SECTION-"BB"



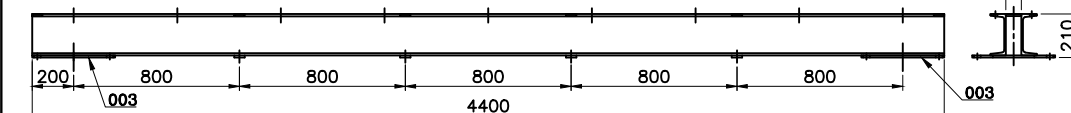
IT.-003



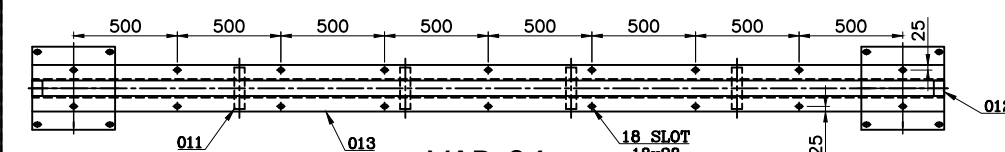
IT.-008



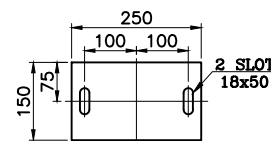
VAR-01



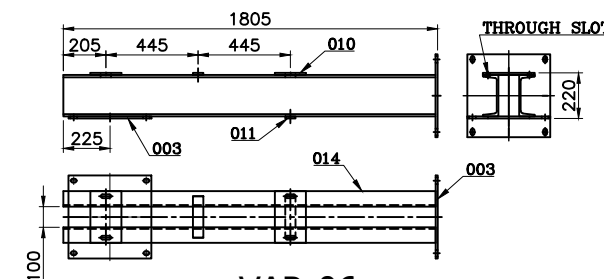
VAR-04



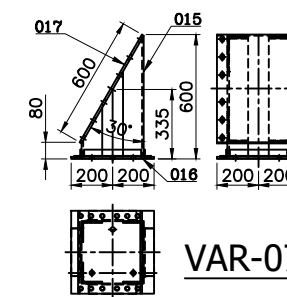
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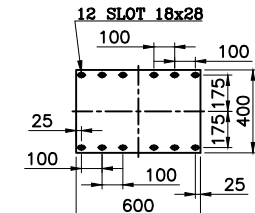
IT.-010



VAR-06



VAR-07



IT.-017

50.81	112.10	273.14	225.99	225.52	138.40	242.73	—VAR. WT. IN KG.					
001							TOP PLATE	017	10 TK x 400 x 600 LG. STRUCTURE STEEL PLATE	SEE DETAIL	18.731	
001							SOLIDW PLATE	016	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL	12.770	
004								015	ISA 8TK. x100 x100 x 585 LG.	S.C.O.	3.933	
										AA 101.06	001	
002								014	ISMC 200 x75 x6.2 x11.4x 1795 .G.	S.C.O.	40.029	
	002	002						013	ISMC 200 x75 x6.2 x11.4x 4400 .G.	S.C.O.	98.120	
		006						012	10 TK x 50 x 75 LG. STRUCTURE STEEL PLATE	S.C.O.	0.297	
002	003	004	004					011	10 TK x 50 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.	0.785	
										AA 101.06	001	
002							1 LG/DWC PLATE	010	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL	7.813	
				002				009	ISMC 150 x75 x5.7 x9x 4400 .G.	S.C.O.	73.920	
										AA 101.06	001	
						001	TOP PLATE	008	10 TK x 400 x 425 LG. STRUCTURE STEEL PLATE	SEE DETAIL	14.140	
										AA 101.06	001	
						004		007	ISA 8TK. x100 x100 x 1848 LG.	S.C.O.	15.215	
										AA 101.06	001	
						004		006	ISA 8TK. x100 x100 x 275 LG.	S.C.O.	0.715	
										AA 101.06	001	
						012	BATTERY PLATE	005	6 IK x 150 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.	1.413	
										AA 101.06	001	
002	006	002	006	001	001			004	ISA 8TK. x100 x100 x 3470 LG.	S.C.O.	38.871	
								003	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL	12.727	
004					004	004		002	ISA 8TK. x 50 x 50 x 275 LG.	S.C.O.	1.045	
										AA 101.06	001	
					001	001	BASE PLATE	001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL	25.120	
										AA 101.06	001	
VAR 06	VAR 06	VAR 05	VAR 04	VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. MAT. CODE VAR. MAT. SPCN.	WT. QTY.

TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



RUDRAPUR

	NAME	SIGN	DATE	NO. OF VAR
DRN	SUNNY		30/09/21	
CKD	SANJAY		30/09/21	
APPD	RUPESH		30/09/21	

DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—

TITLE	W.ASSY. OF STRUCTURE FOR TYPE-R ISOLATED PHASE BUSDUCT
-------	---

DRAWING NO.	31901617019
-------------	-------------

SHT. NO.	02	NO. OF SHT.	02
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SIZE -A3

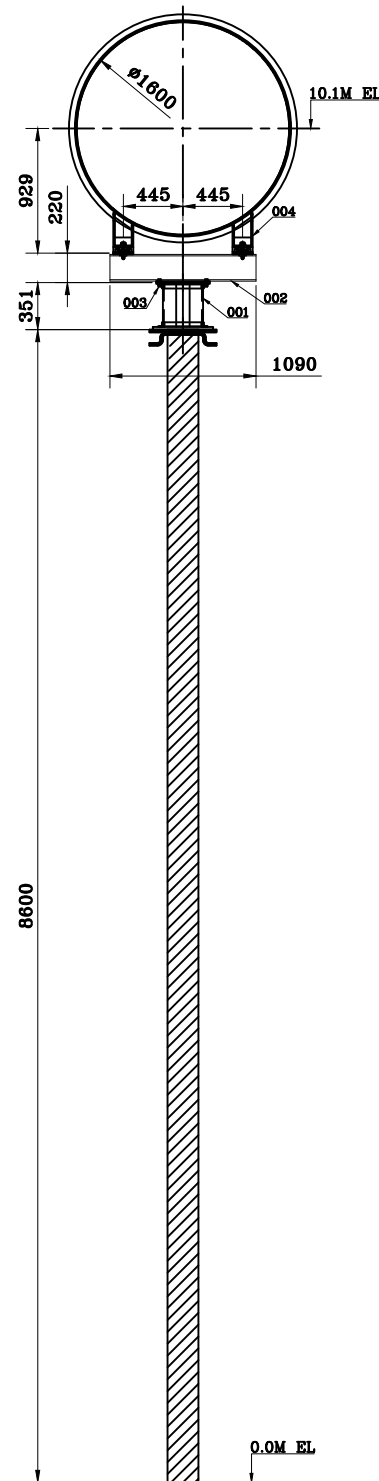
Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\CHAMBER STRUCTURE.dwg Printed On :17-12-2021 09:19:58

First Angle Projection

All Dimensions in 'mm'

80021910618

DRAWING NO.



VAR-00

TYPE-0
FOR IPBD POCKET NO.-
1E58, 2E56, 3E48, 4E62 & 5E56

TOTAL NO. OF SET = 05 NOS.

WT. OF VAR.00 = 126.20 Kg.

001	--	004	SUPPORT LEG ARRGT.	31001000226	01	--	001
004	--	003	8.8 STEEL-ZPP (SET) SCRU HEX A M16X50 LG.				0.187
001	--	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02		66.66
001	--	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		46.72
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
	RUDRAPUR		CKD	SANJAY		30/09/21	
			APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR. m	SCALE -	WEIGHT(KG) -	REF. TO ASSY. DRG. -		ITEM NO. -	NO. OF ITEM -
TITLE ASSY. OF STRUCTURE FOR TYPE-0 ISOLATED PHASE BUSDUCT				DRAWING NO. 31901617008		REV. 00	
		SHT. NO.	01	NO. OF SHT.		02	

SIZE -A3

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

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\MAIN.dwg Printed On :17-12-2021 09:20:04

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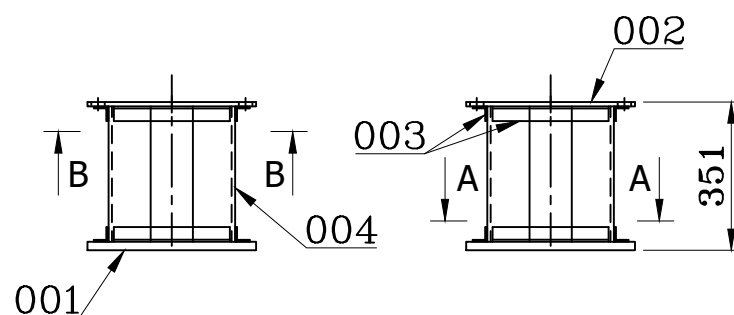
INVENTORY NO. SIGN. & DATE REF. DRG. NO.

First Angle Projection

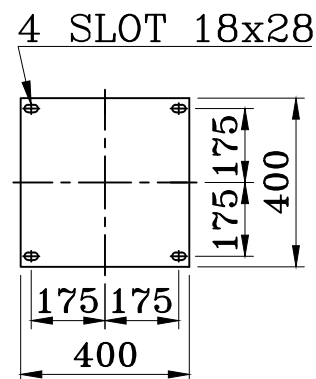
All Dimensions in 'mm'

80021910618

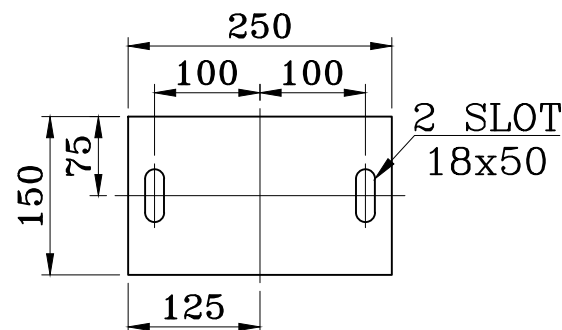
DRAWING NO.



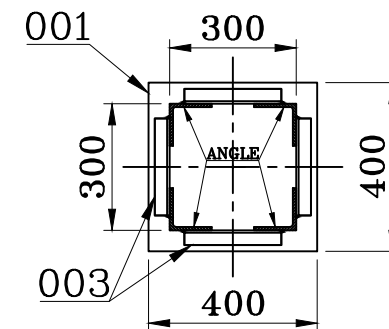
VAR-01



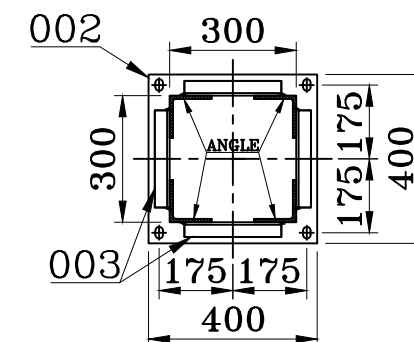
IT.-002



IT.-006

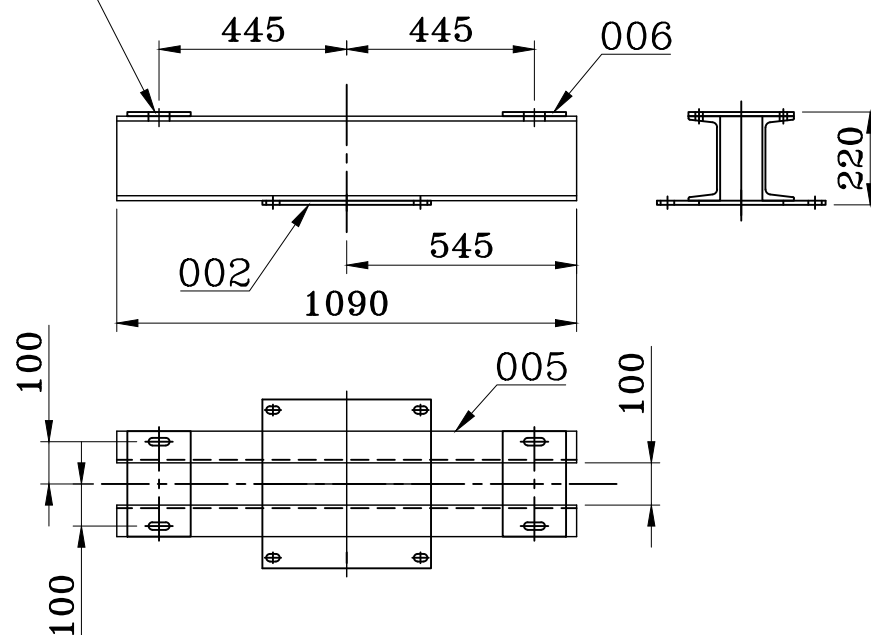


SECTION-"AA"



SECTION-"BB"

SLOTS ALSO CUT
IN CHANNEL



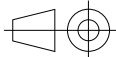
VAR-02

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLOMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

REV.	DATE	ALTERED	—
—	—	CHECKED	—
—	—	APPD.	—

66.66	46.72	←VAR. WT. IN KG.						
002		LEG / DMC PLATE	006	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	2.813
002			005	ISMC 200 x75 x6.2 x11.4x 1090 LG.	S.C.O.		AA 10108	24.307
	004		004	ISA 8TK. x100 x100 x 331 LG.	S.C.O.		AA 10108	4.005
	008		003	ISA 5TK. x 35 x 35 x 275 LG.	S.C.O.		AA 10108	0.715
001	001	TOP PLATE	002	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	12.424
	001	BOTTOM PLATE	001	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	12.560
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
	BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR				NAME	SIGN	DATE	NO. OF VAR
				DRN	SUNNY		30/09/21	
				CKD	SANJAY		30/09/21	
				APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—		—	—
TITLE					DRAWING NO.			REV.
W.A. OF STRUCTURE FOR TYPE-E ISOLATED PHASE BUSDUCT					31901617008			00
					SHT. NO. 02		NO. OF SHT. 02	

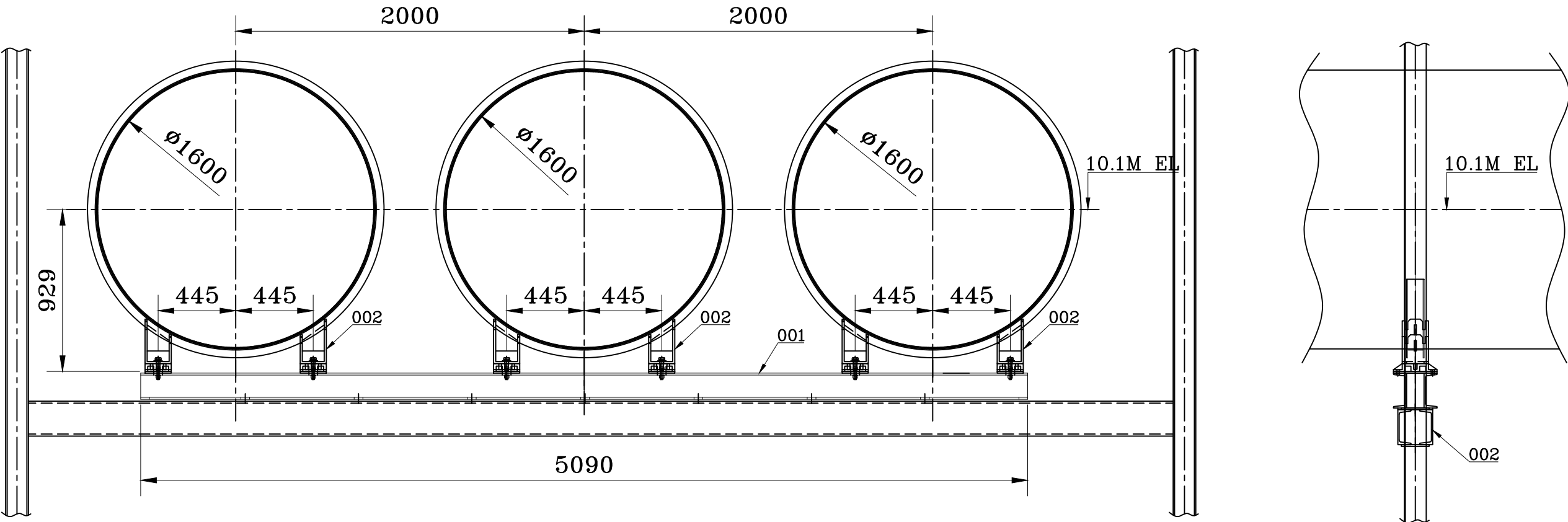
SIZE -A3

First Angle Projection

All Dimensions in 'mm'

31901617007

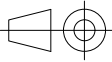
DRAWING NO.



VAR-00

WT. OF VAR.00 = 192.22 Kg.

003	--	002	SUPPORT LEG ARRGT.	31001000226	01	--	001
001	--	001	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	01	--	192.22
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR	
		DRN	SUNNY		30/09/21		
		CKD	SANJAY		30/09/21		
		APPD	RUPESH		30/09/21		
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
ASSY. OF STRUCTURE FOR TYPE-G ISOLATED PHASE BUSDUCT					31901617007		00
					SHT. NO. 01		NO. OF SHT. 02

TYPE-F
FOR IPBD POCKET NO.-

1H1-1H2, 1H3-1H4,
2H1-2H2, 2H3-2H4,
3H1-3H2, 3H3-3H4,
4H1-4H2, 4H3-4H4,
5H1-5H2, 5H3-5H4,

TOTAL NO. OF SET = 10 NOS.

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

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\MAIN.dwg Printed On :17-12-2021 09:20:13

SIZE -A3

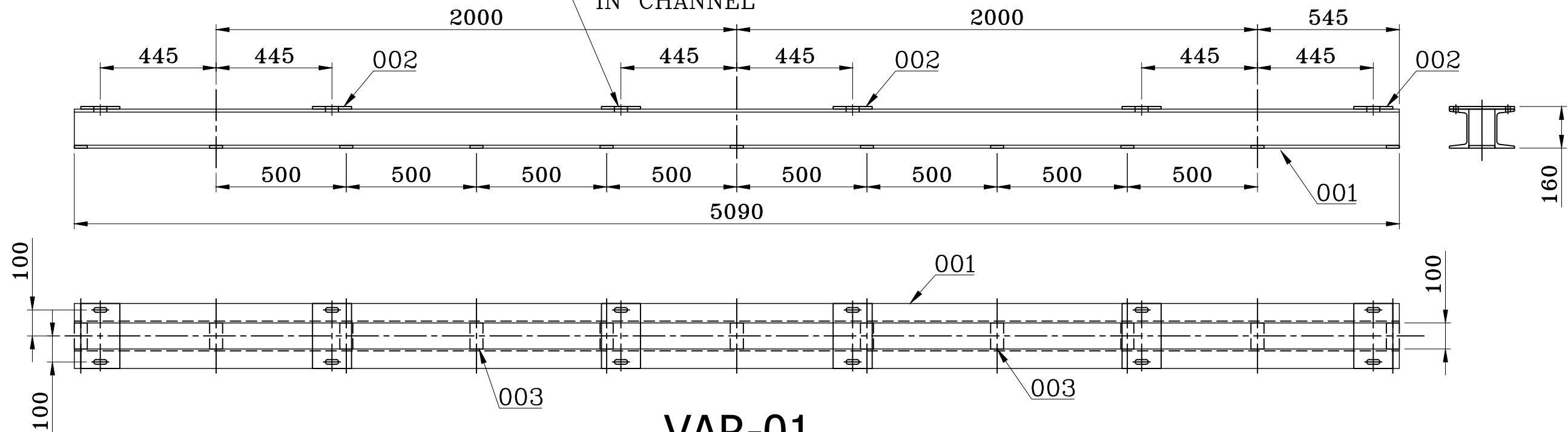
First Angle Projection

All Dimensions in 'mm'

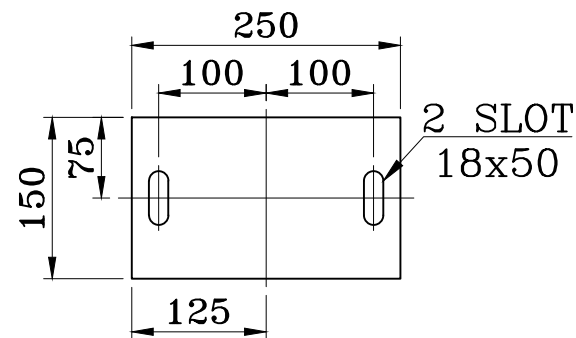
20021910618

DRAWING NO.

SLOTS ALSO CUT
IN CHANNEL



VAR-01



IT.-002

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLOMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

192.22	< VAR. WT. IN KG.						
011		003	10 TK x 50 x 100 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	0.393
006	LEG / DMC PLATE	002	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	2.813
002		001	ISM 150 x75 x5.7 x9x 5090 LG.	S.C.O.		AA 101 08	85.512
VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MAT. CODE	WT.
					VAR.	MAT. SPCN.	QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
	RUDRAPUR		CKD	SANJAY		30/09/21	
			APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE	m						
TITLE				DRAWING NO.		REV.	
W.A. OF STRUCTURE FOR TYPE-F ISOLATED PHASE BUSDUCT				31901617007		00	
		SHT. NO.	02	NO. OF SHT.		02	

SIZE -A3

First Angle Projection

All Dimensions in 'mm'

90021910613

DRAWING NO.

TYPE-F

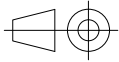
FOR IPBD POCKET NO.-

1E12-1E13,
2E12-2E13,
3E12-3E13,
4E12-4E13,
5E12-5E13

TOTAL NO. OF SET = 05 NOS.

WT. OF VAR.00 = 436.91 Kg.

003	--	004	SUPPORT LEG ARRGT.	31001000226	01	--	001
008	--	003	8.8 STEEL-ZPP (SET)				0.187
			SCRU HEX A M16X50 LG.				001
001	--	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02		308.13
							001
002	--	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		51.56
							001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
	RUDRAPUR		CKD	SANJAY		30/09/21	
			APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE -	m		-	-		-	-
TITLE				DRAWING NO.		REV.	
ASSY. OF STRUCTURE FOR TYPE-F ISOLATED PHASE BUSDUCT				31901617006		00	
		SHT. NO.	01	NO. OF SHT.		02	

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

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

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

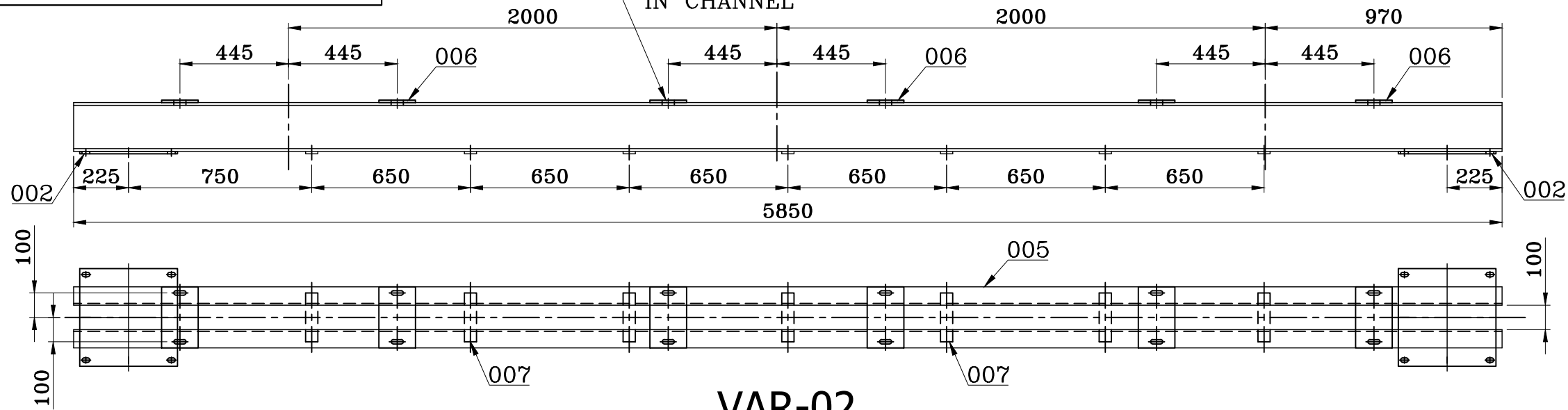
First Angle Projection

All Dimensions in 'mm'

90021910618

DRAWING NO.

SLOTS ALSO CUT
IN CHANNEL



VAR-02

VAR-01

IT.-002

IT.-006

SECTION-"AA"

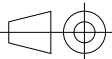
SECTION-"BB"

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLOMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

REV.	DATE	ALTERED —
—	—	CHECKED —
—	—	APPD. —

308.13	51.56	VAR. WT. IN KG.						
007			007	10 TK x 50 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	0.785
006		LEG / DMC PLATE	006	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	2.813
002			005	ISMC 200 x75 x6.2 x11.4x 5850 LG.	S.C.O.		AA 10108	130.455
	004		004	ISA 8TK. x100 x100 x 431 LG.	S.C.O.		AA 10108	5.215
	008		003	ISA 5TK. x 35 x 35 x 275 LG.	S.C.O.		AA 10108	0.715
002	001	TOP PLATE	002	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	12.424
	001	BOTTOM PLATE	001	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	12.560
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR	
		DRN	SUNNY		30/09/21		
		CKD	SANJAY		30/09/21		
		APPD	RUPESH		30/09/21		
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
<u>W.A. OF STRUCTURE FOR TYPE-F</u> <u>ISOLATED PHASE BUSDUCT</u>					31901617006		00
					SHT. NO. 02		NO. OF SHT. 02

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\MAIN.dwg Printed On :17-12-2021 09:20:28

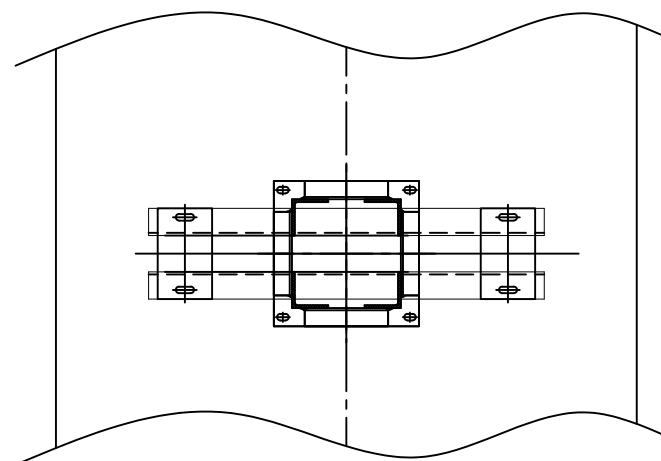
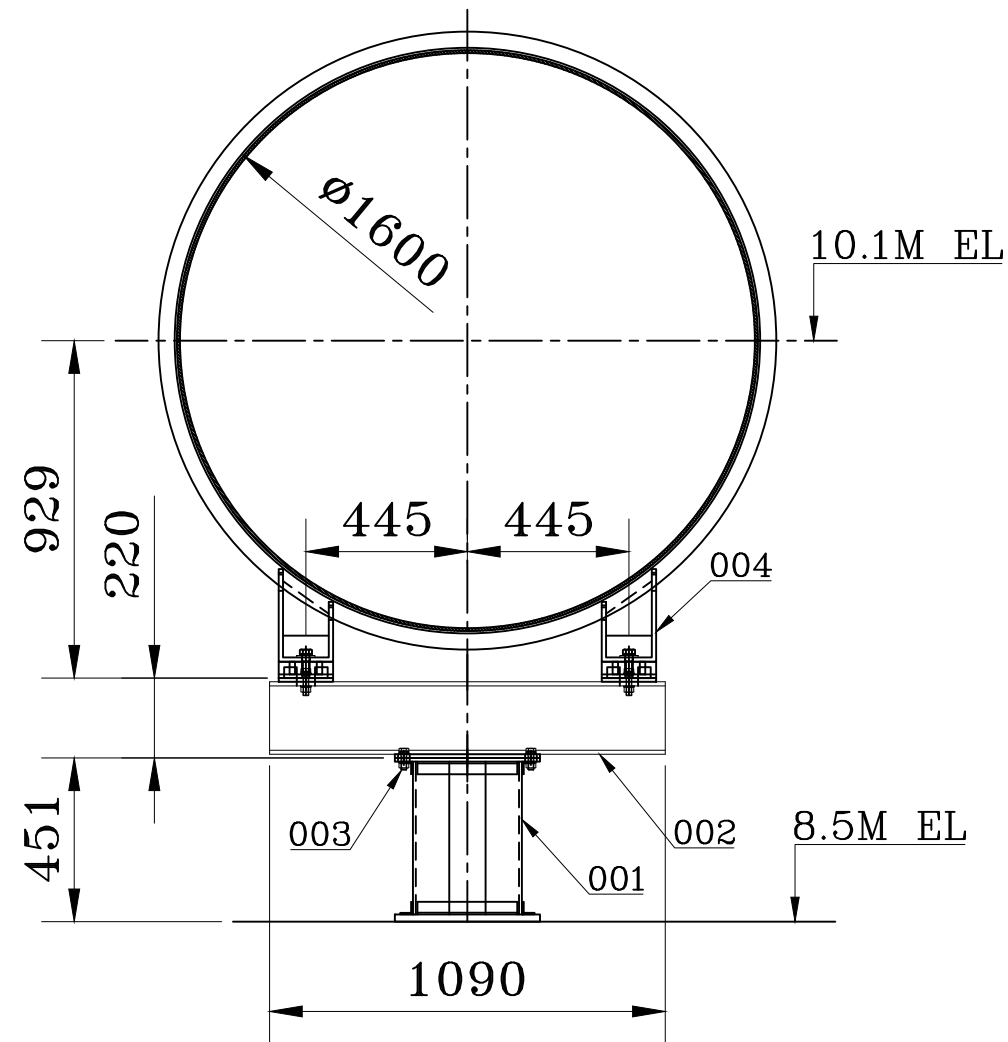
SIZE -A3

First Angle Projection

All Dimensions in 'mm'

31901617005

DRAWING NO.



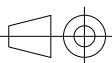
VAR-00

TYPE-E
FOR IPBD POCKET NO.-
1E9, 2E9, 3E9, 4E9 & 5E9

TOTAL NO. OF SET = 05 NOS.

WT. OF VAR.00 = 131.00 Kg.

001	--	004	SUPPORT LEG ARRGT.	31001000226	01	--	001
004	--	003	8.8 STEEL-ZPP (SET)				0.187
			SCRU HEX A M16X50 LG.				001
001	--	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02		66.66
							001
001	--	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		51.56
							001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR
			DRN	SUNNY		30/09/21	
			CKD	SANJAY		30/09/21	
			APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
ASSY. OF STRUCTURE FOR TYPE-E ISOLATED PHASE BUSDUCT					31901617005		00
					SHT. NO. 01		NO. OF SHT. 02

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\MAIN.dwg Printed On :17-12-2021 09:20:33

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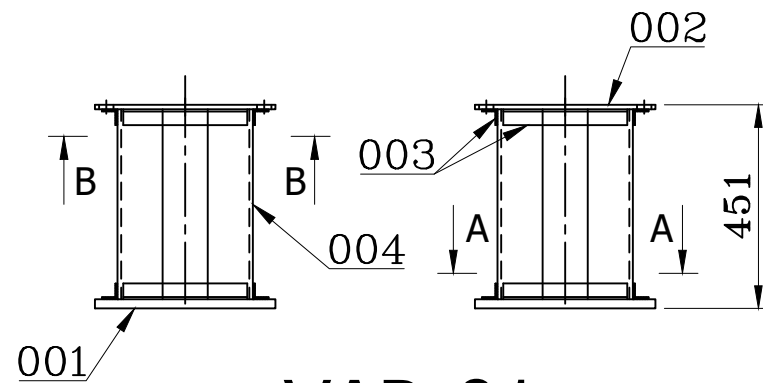
INVENTORY NO. SIGN. & DATE REF. DRG. NO.

First Angle Projection

All Dimensions in 'mm'

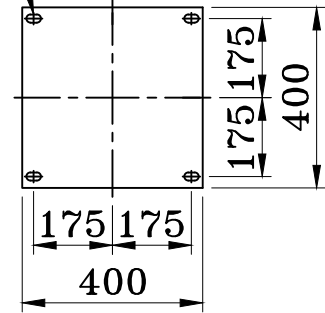
90021910618

DRAWING NO.

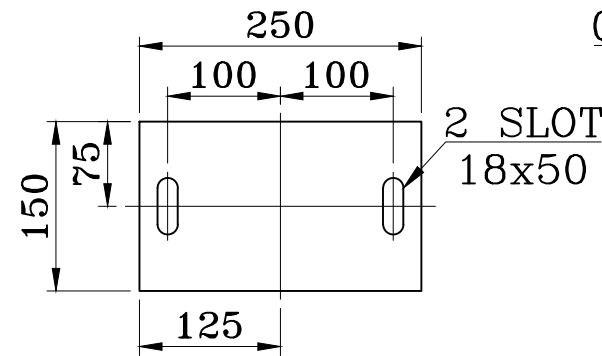


VAR-01

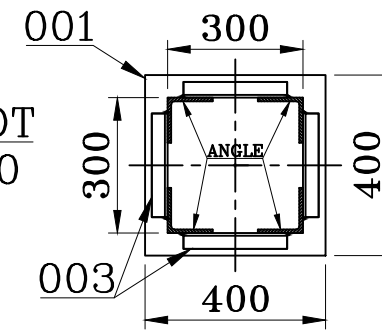
4 SLOT 18x28



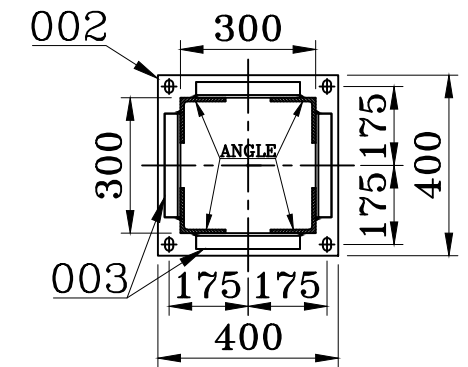
IT-002



IT-006

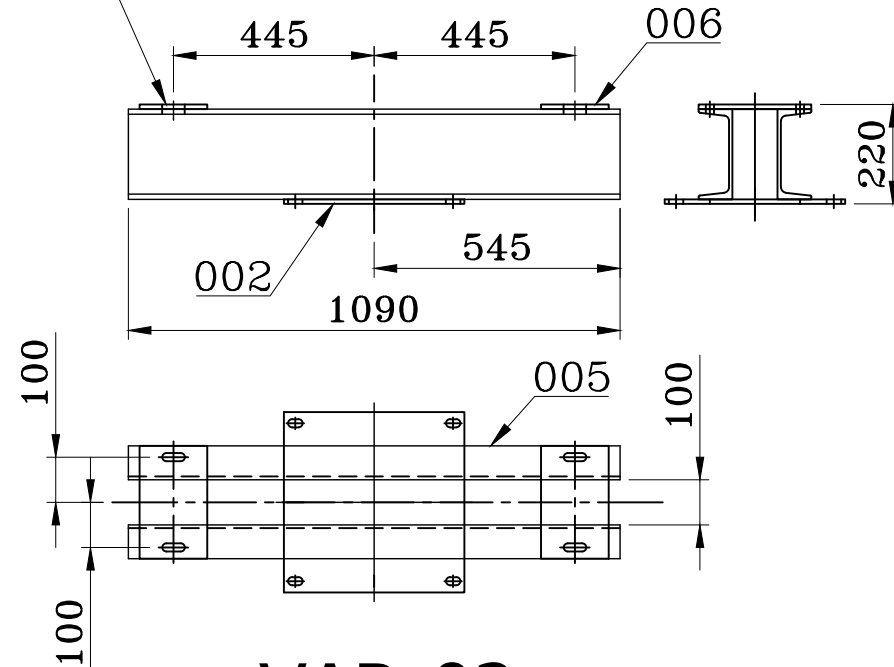


SECTION-"AA"



SECTION-"BB"

SLOTS ALSO CUT
IN CHANNEL



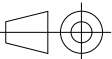
VAR-02

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLOMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

REV.	DATE	ALTERED	—
—	—	CHECKED	—
—	—	APPD.	—

66.66	51.56	←VAR. WT. IN KG.						
002		LEG / DMC PLATE	006	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	2.813
002			005	ISMC 200 x75 x6.2 x11.4x 1090 LG.	S.C.O.		AA 10108	24.307
	004		004	ISA 8TK. x100 x100 x 431 LG.	S.C.O.		AA 10108	5.215
	008		003	ISA 5TK. x 35 x 35 x 275 LG.	S.C.O.		AA 10108	0.715
001	001	TOP PLATE	002	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	12.424
	001	BOTTOM PLATE	001	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	12.560
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
	BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR				NAME	SIGN	DATE	NO. OF VAR
				DRN	SUNNY		30/09/21	
				CKD	SANJAY		30/09/21	
				APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—		—	—
TITLE					DRAWING NO.			REV.
W.A. OF STRUCTURE FOR TYPE-E ISOLATED PHASE BUSDUCT					31901617005			00
					SHT. NO. 02		NO. OF SHT. 02	

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\MAIN.dwg Printed On :17-12-2021 09:20:38

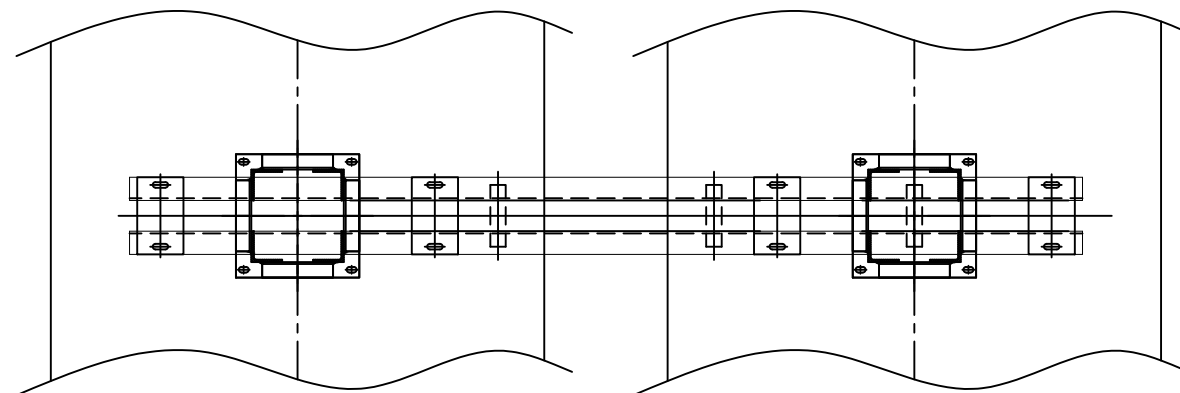
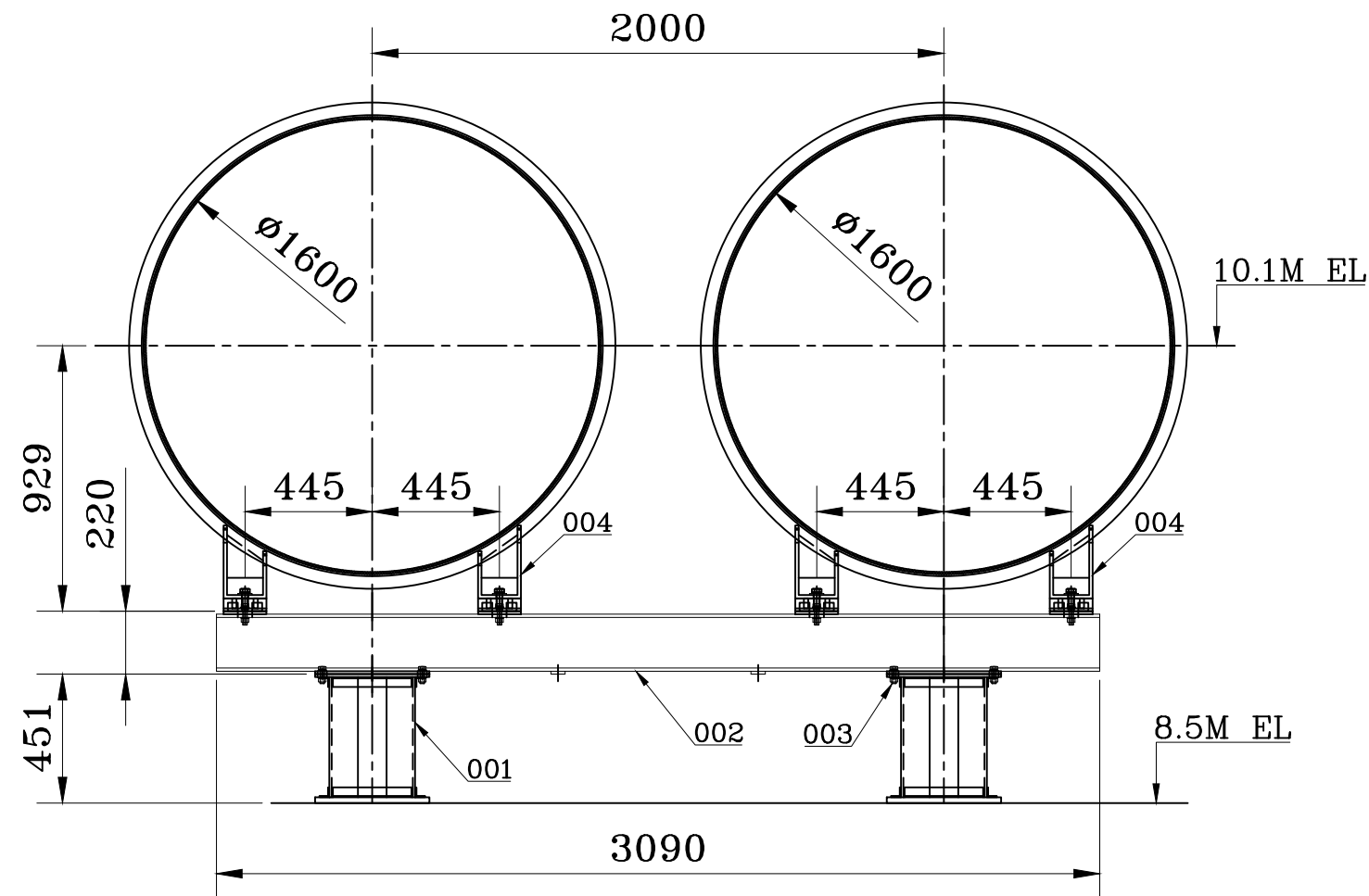
SIZE -A3

First Angle Projection

All Dimensions in 'mm'

31901617004

DRAWING NO.



VAR-00

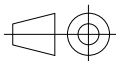
REV.	DATE	ALTERED	—
—	—	CHECKED	—
—	—	APPD.	—

TYPE-D
FOR IPBD POCKET NO.—1E10-1E11,
2E10-2E11,
3E10-3E11,
4E10-4E11,
5E10-5E11

TOTAL NO. OF SET = 05 NOS.

WT. OF VAR.00 = 304.25 Kg.

002	--	004	SUPPORT LEG ARRGT.	31001000226	01	--	001
008	--	003	8.8 STEEL-ZPP (SET)				0.187
001	--	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	01		175.48
002	--	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	00		51.56
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
	RUDRAPUR		CKD	SANJAY		30/09/21	—
			APPD	RUPESH		30/09/21	—
DEPT.	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
BDE	m		—	—		—	—
CODE				DRAWING NO.		REV.	
—				ASSY. OF STRUCTURE FOR TYPE-D ISOLATED PHASE BUSDUCT		31901617004	
				SHT. NO.	01	NO. OF SHT.	02

SIZE -A3

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

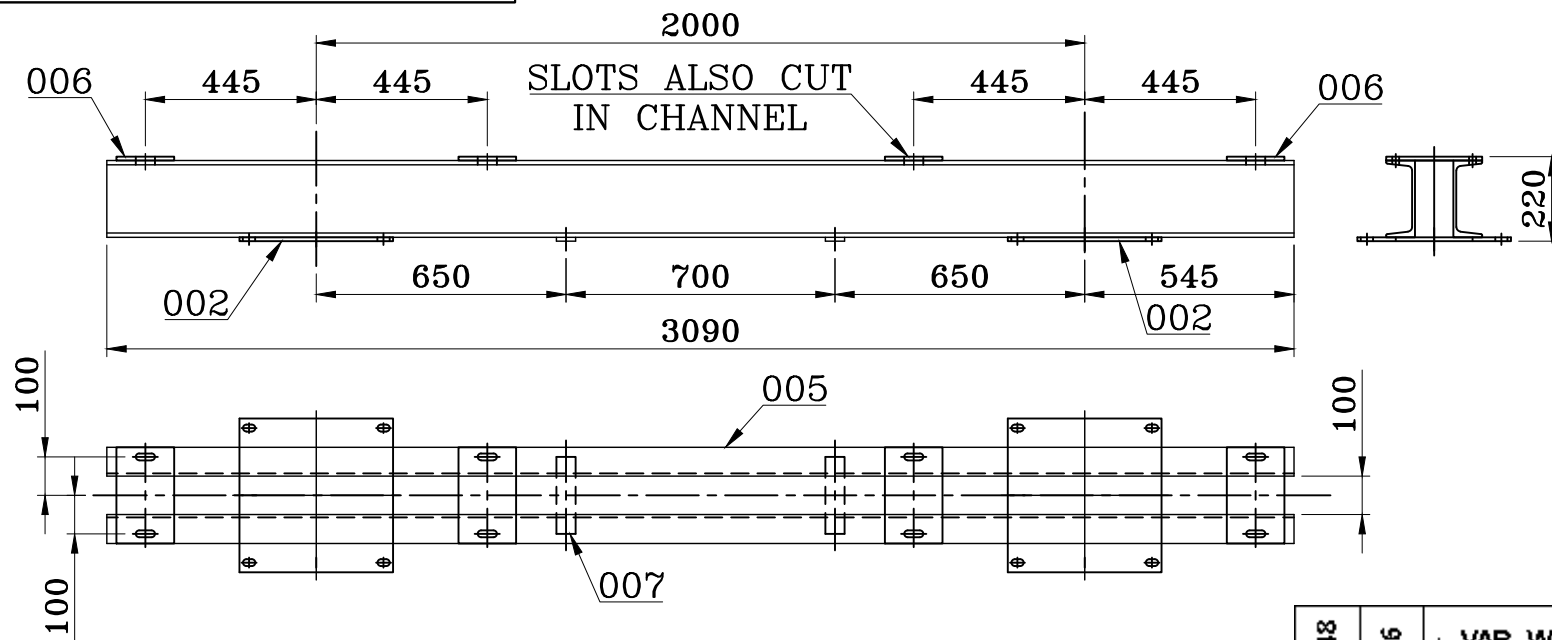
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First Angle Projection

All Dimensions in 'mm'

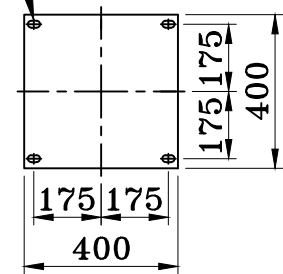
31901617004

DRAWING NO.

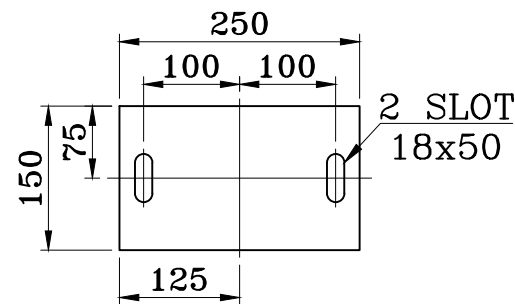


VAR-02

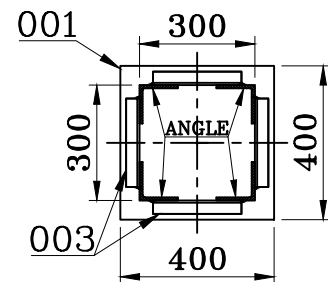
4 SLOT 18x28



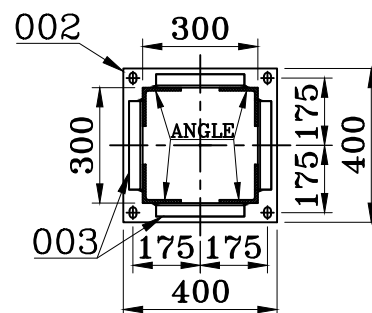
IT.-002



IT.-006



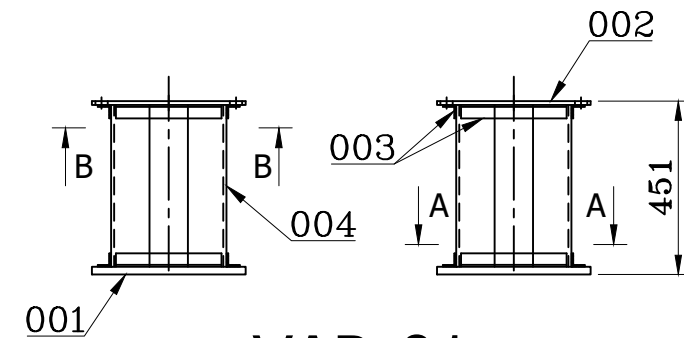
SECTION-"AA"



SECTION-"BB"

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLOMNN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.



VAR-01

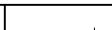
175.48	51.56	VAR. WT. IN KG.						
002			007	10 TK x 50 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	0.785
004		LEG / DMC PLATE	006	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	2.813
002			005	ISM 200 x75 x6.2 x11.4x 3090 LG.	S.C.O.		AA 10108	68.907
	004		004	ISA 8TK. x100 x100 x 431 LG.	S.C.O.		AA 10108	5.215
	008		003	ISA 5TK. x 35 x 35 x 275 LG.	S.C.O.		AA 10108	0.715
002	001	TOP PLATE	002	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	12.424
	001	BOTTOM PLATE	001	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	12.560
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE	UNTOL.DIMS.GR. m		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —			—	—	—	—	—
TITLE <u>W.A. OF STRUCTURE FOR TYPE-D</u> <u>ISOLATED PHASE BUSDUCT</u>					DRAWING NO. 31901617004		REV. 00
					SHT. NO. 02		NO. OF SHT. 02

SIZE -A3

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

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\MAIN.dwg Printed On :17-12-2021 09:20:48

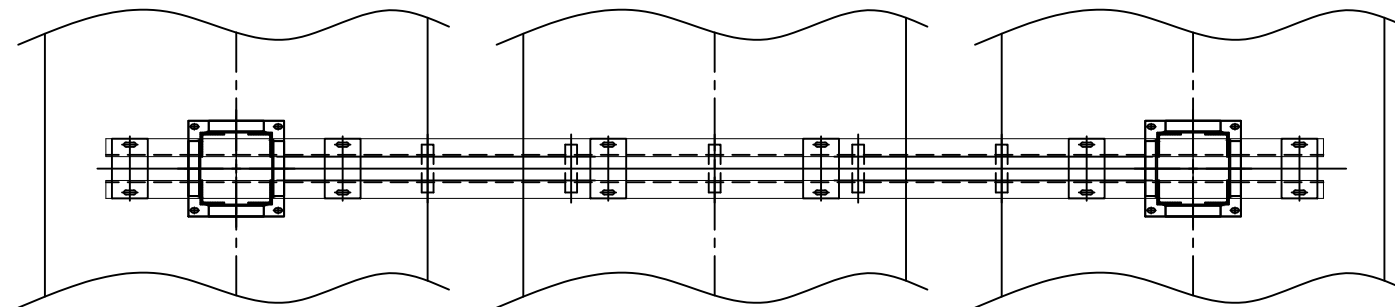
All Dimensions in 'mm'

DRAWING NO.

FOR IPBD POCKET NO.-

TOTAL NO. OF SET = 25 NOS.

WT. OF VAR.00 = 401.44 Kg.



VAR-00

003	--	004	SUPPORT LEG ARRGT.	31001000226	01		--	53
008	--	003	8.8 STEEL-ZPP (SET) SCRU HEX A M16X50 LG.				001	
							0.187	
001	--	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02		001	
							272.67	
002	--	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		001	
							51.56	
							001	
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO.	MATL.CODE	WT.	53
					VAR.	MATL.SPCN.	QTY.	

NAME OF PROJECT	<u>5x800 MW YADADRI TPS, NALGONDA</u>
-----------------	--

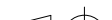
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

	NAME	SIGN	DATE	NO. OF VAR
DRN	SUNNY		30/09/21	
CKD	SANJAY		30/09/21	
APPD	RUPESH		30/09/21	

DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE <u>ASSY. OF STRUCTURE FOR TYPE—C</u> <u>ISOLATED PHASE BUSDUCT</u>					DRAWING NO. 31901617003		REV. 00
					SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

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SIGN. & DATE _____ TREF. DRG. NO. _____

INVENTORY NO.

Computer File:- PC: kupesn kumar Patra: D:\JADADR\90\JFSD STRUCTURE\MAIN.qwg Printed On: 17-12-2021 09:20:35

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SIGN. & DATE REF. DRG. NO.

INVENTORY NO.

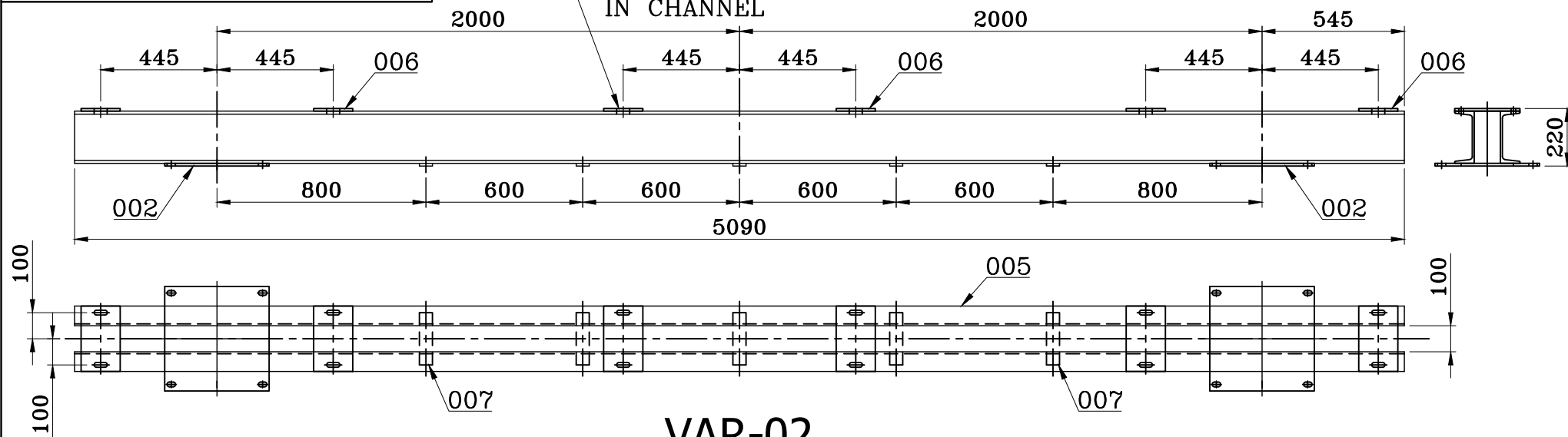
First Angle Projection

All Dimensions in 'mm'

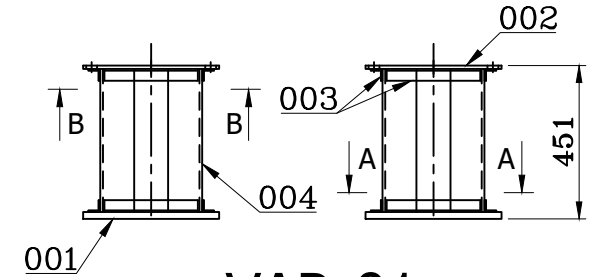
80021910618

DRAWING NO.

SLOTS ALSO CUT
IN CHANNEL

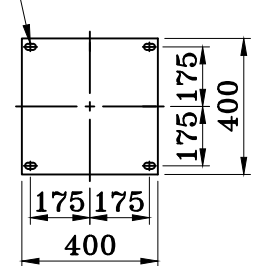


VAR-02

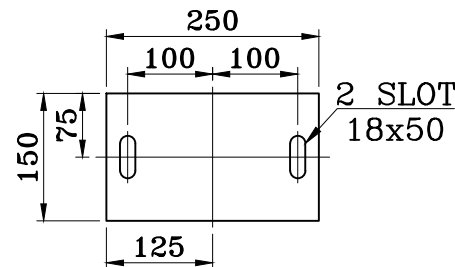


VAR-01

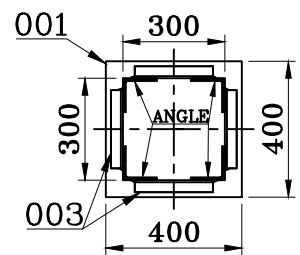
4 SLOT 18x28



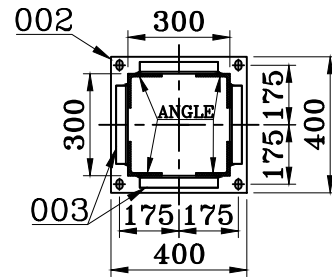
IT.-002



IT.-006



SECTION-"AA"



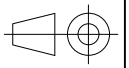
SECTION-"BB"

NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLOMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.

REV.	DATE	ALTERED —
—	—	CHECKED —
—	—	APPD. —

272.67	51.56	VAR. WT. IN KG.						
005			007	10 TK x 50 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	0.785
006		LEG / DMC PLATE	006	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	2.813
002			005	ISMC 200 x75 x6.2 x11.4x 5090 LG.	S.C.O.		AA 10108	113.507
	004		004	ISA 8TK. x100 x100 x 431 LG.	S.C.O.		AA 10108	5.215
	008		003	ISA 5TK. x 35 x 35 x 275 LG.	S.C.O.		AA 10108	0.715
002	001	TOP PLATE	002	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	12.424
	001	BOTTOM PLATE	001	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	12.560
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
 BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR		
		CKD	SANJAY		30/09/21			
		APPD	RUPESH		30/09/21			
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM		
CODE —	m		—	—	—			
TITLE					DRAWING NO.	REV.		
W.A. OF STRUCTURE FOR TYPE-C ISOLATED PHASE BUSDUCT					31901617003	00		
					SHT. NO. 02	NO. OF SHT. 02		

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\IPBD STRUCTURE\MAIN.dwg Printed On :17-12-2021 09:20:56

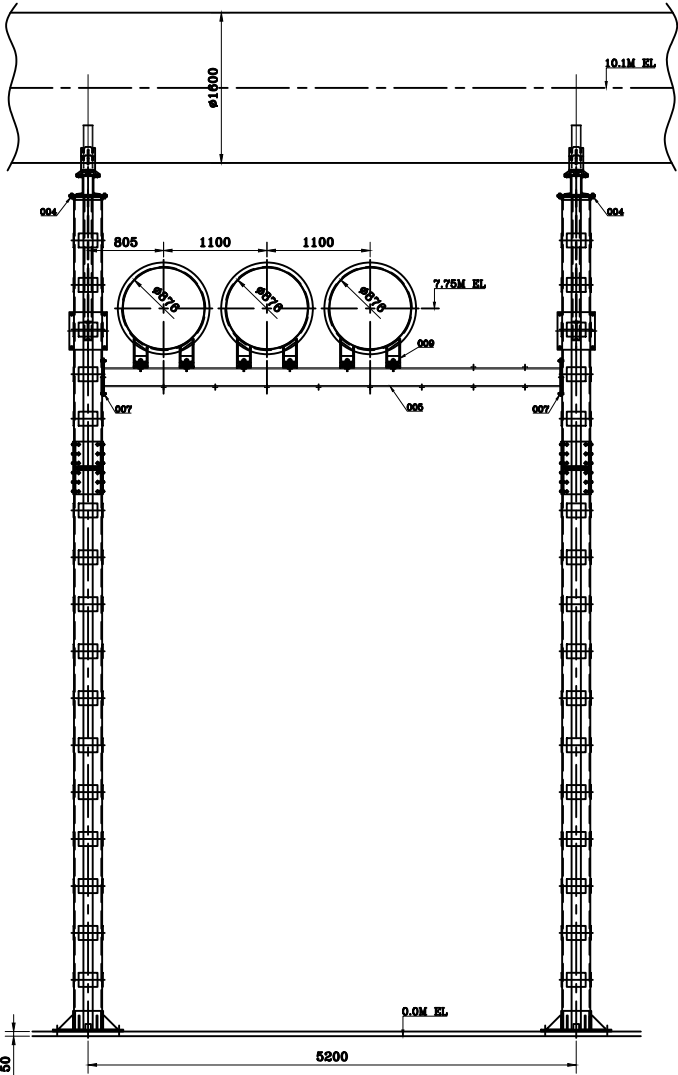
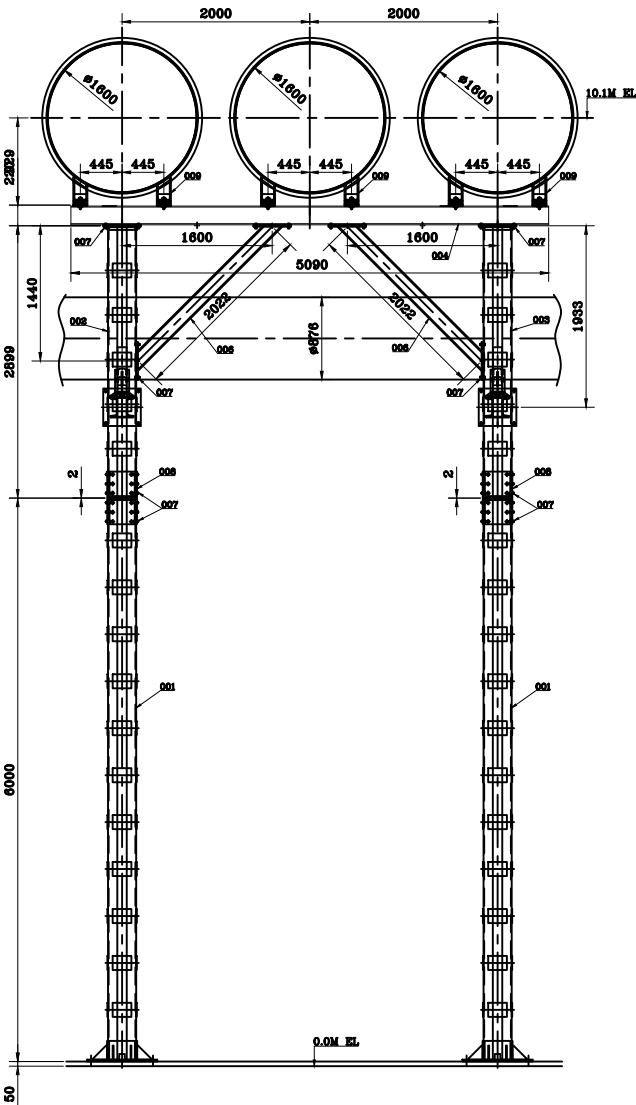
SIZE -A3

First Angle Projection

All Dimensions in 'mm'

31901617002

DRAWING NO.



VAR-00

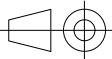
TYPE-B
FOR IPBD POCKET NO.-

1P7-1P8-1P9-1P10,
2P7-2P8-2P9-2P10,
3P7-3P8-3P9-3P10,
4P7-4P8-4P9-4P10,
5P7-5P8-5P9-5P10

TOTAL NO. OF SET = 5 NOS.

WT. OF VAR.00 = 4224.42 Kg.

012		009	SUPPORT LEG ARRGT.	31001000226	01		001
016	--	008	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	013		9.386
256	--	007	8.8 STEEL-ZPP (SET) SCRU HEX A M16X50 LG.				0.187
004	--	006	W.A. OF TIE BEAM	THIS DRG. SHEET 02 OF 02	06		55.18
002	--	005	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	05		266.33
002	--	004	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	04		295.16
002	--	003	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	03		206.52
002	--	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02		206.52
004	--	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		464.15
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR	
		DRN	SUNNY		30/09/21		
		CKD	SANJAY		30/09/21		
		APPD	RUPESH		30/09/21		
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
<u>ASSY. OF STRUCTURE FOR TYPE-B</u> <u>ISOLATED PHASE BUSDUCT</u>					31901617002		00
					SHT. NO. 01		NO. OF SHT. 02

SIZE -A3

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SIGN. & DATE

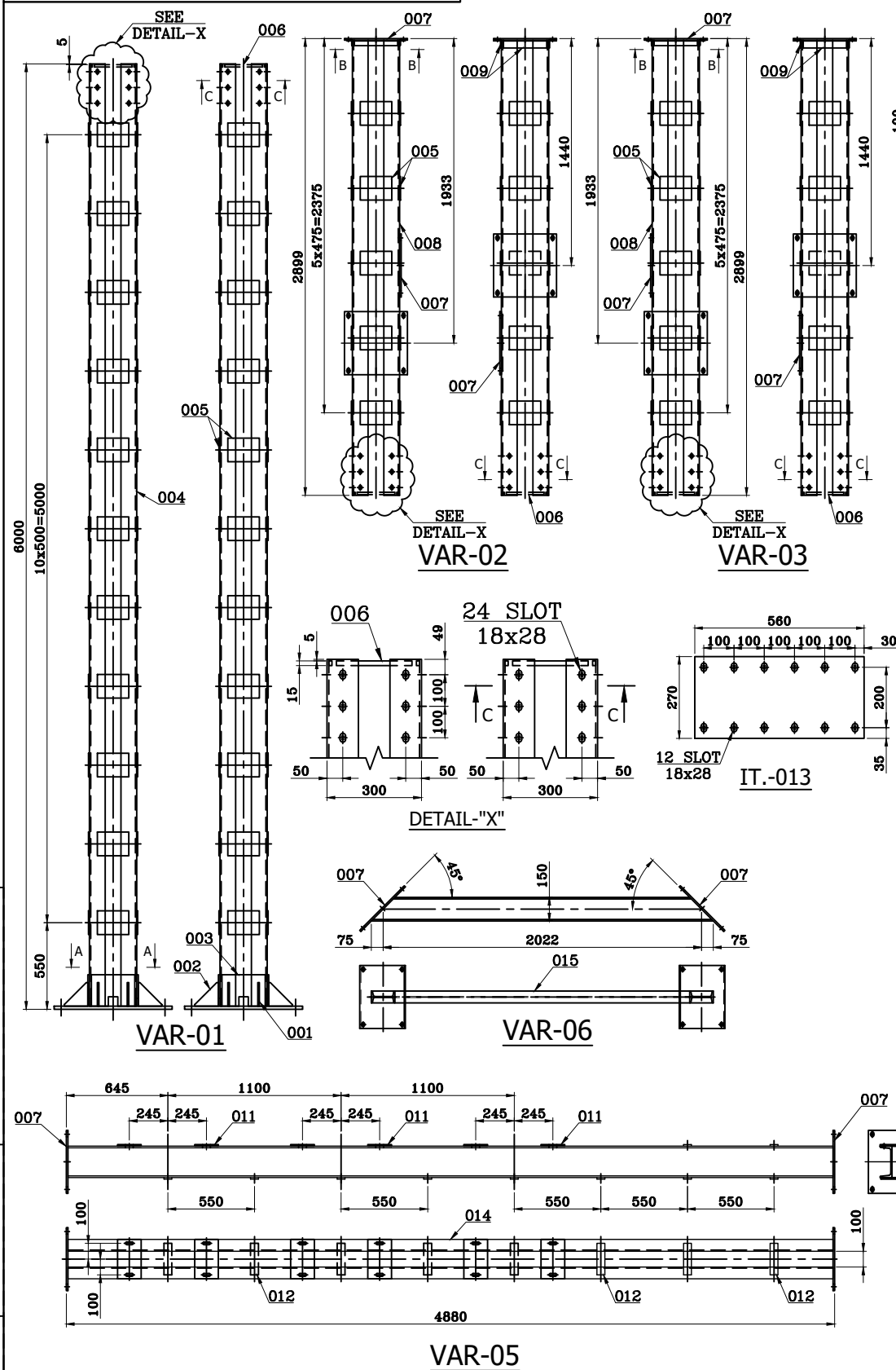
INVENTORY NO.

REF. DRG. NO.

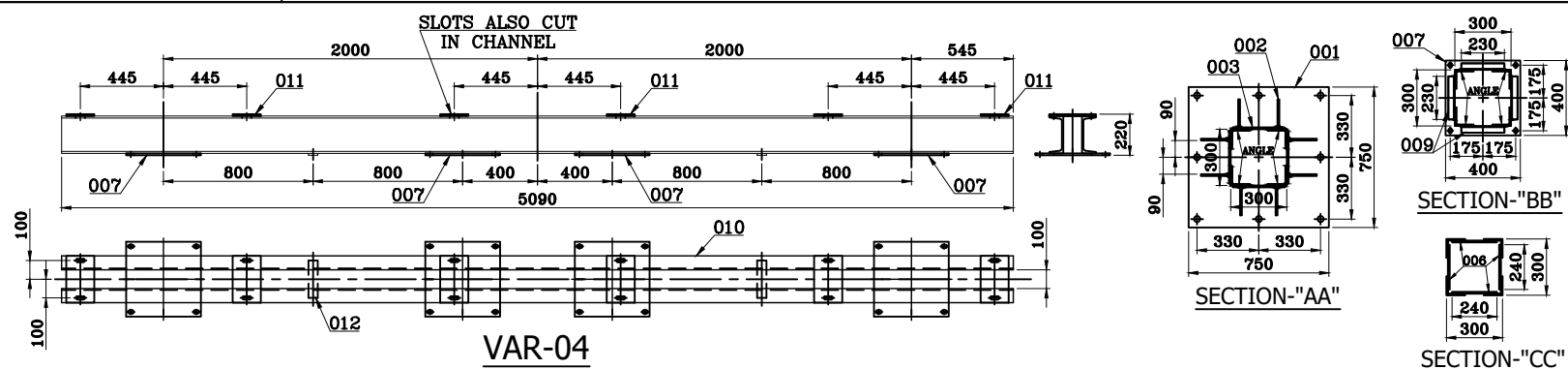
All Dimensions in 'mm'

DRAWING NO.

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

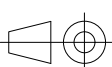


1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. THE MAX. GAP (CL. TO CL.) BETWEEN BATTEN PLATES WILL BE 500 MM IN COLUMN ASSY.
3. MARK BOM NO. ON EVERY VAR. NEAR EITHER END BY DEPOSITING METAL BY ARC WELDING PROCESS.



55.18	266.33	295.16	206.52	206.52	464.15	VAR. WT. IN KG.						
001						015	ISM 150 x75 x5 x8x 2172 LG.	SFF DETAIL		AA 10108	30.330	
	002					014	ISM 200 x75 x6.2 x11.4x 4860 LG.	S.C.O.		AA 10108	108.378	
						013	8 TK x 270 x 560 LG. STRUCTURE STEEL PLATE	SLL DETAIL		AA 10108	9.386	
	010	002				012	10 TK x 50 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	0.785	
	006	006				011	10 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	7.813	
		002				010	ISM 200 x75 x6.2 x11.4x 5090 LG.	S.C.O.		AA 10108	113.507	
			004	004		009	ISA 51K x 35 x 35 x 275 LG.	S.C.O.		AA 10108	0.715	
			004	004		008	ISA 8TK x100 x100 x 2889 LG.	S.C.O.		AA 10108	34.957	
007	007	004	003	003		007	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SLL DETAIL		AA 10108	12.724	
			004	004	004	006	10 TK x 15 x 240 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	0.283	
			018	018	044	005	6 TK x 150 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	1.413	
					004	004	ISA 8TK x100 x100 x 5980 LG.	S.C.O.		AA 10108	72.358	
					004	003	10 TK x 200 x 275 LG. STRUCTURE STEEL PLATE	SFF DETAIL		AA 10108	4.035	
					008	002	10 TK x 150 x 150 LG. STRUCTURE STEEL PLATE	SLL DETAIL		AA 10108	0.957	
					001	001	20 TK x 750 x 750 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	87.302	
VAR 06	VAR 05	VAR 04	VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPON.	WT. QTY.

NAME OF PROJECT	<u>5x800 MW YADADRI TPS, NALGONDA</u>
NAME OF CUSTOMER	<u>TELANGANA STATE POWER GENERATION CORPORATION LTD</u> <u>TELANGANA, INDIA</u>

 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR					NAME	SIGN	DATE	NO. OF VAR
				DRN	SUNNY		30/09/21	
				CKD	SANJAY		30/09/21	
				APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR. m		SCALE —	WEIGHT(KG) —	REF. TO ASSY. DRG. —		ITEM NO. —	NO. OF ITEM —
CODE —								
TITLE W.A. OF STRUCTURE FOR TYPE-B ISOLATED PHASE BUSDUCT					DRAWING NO. 31901617002			REV. 00
					SHT. NO. 02		NO. OF SHT. 02	

SIZE -A3

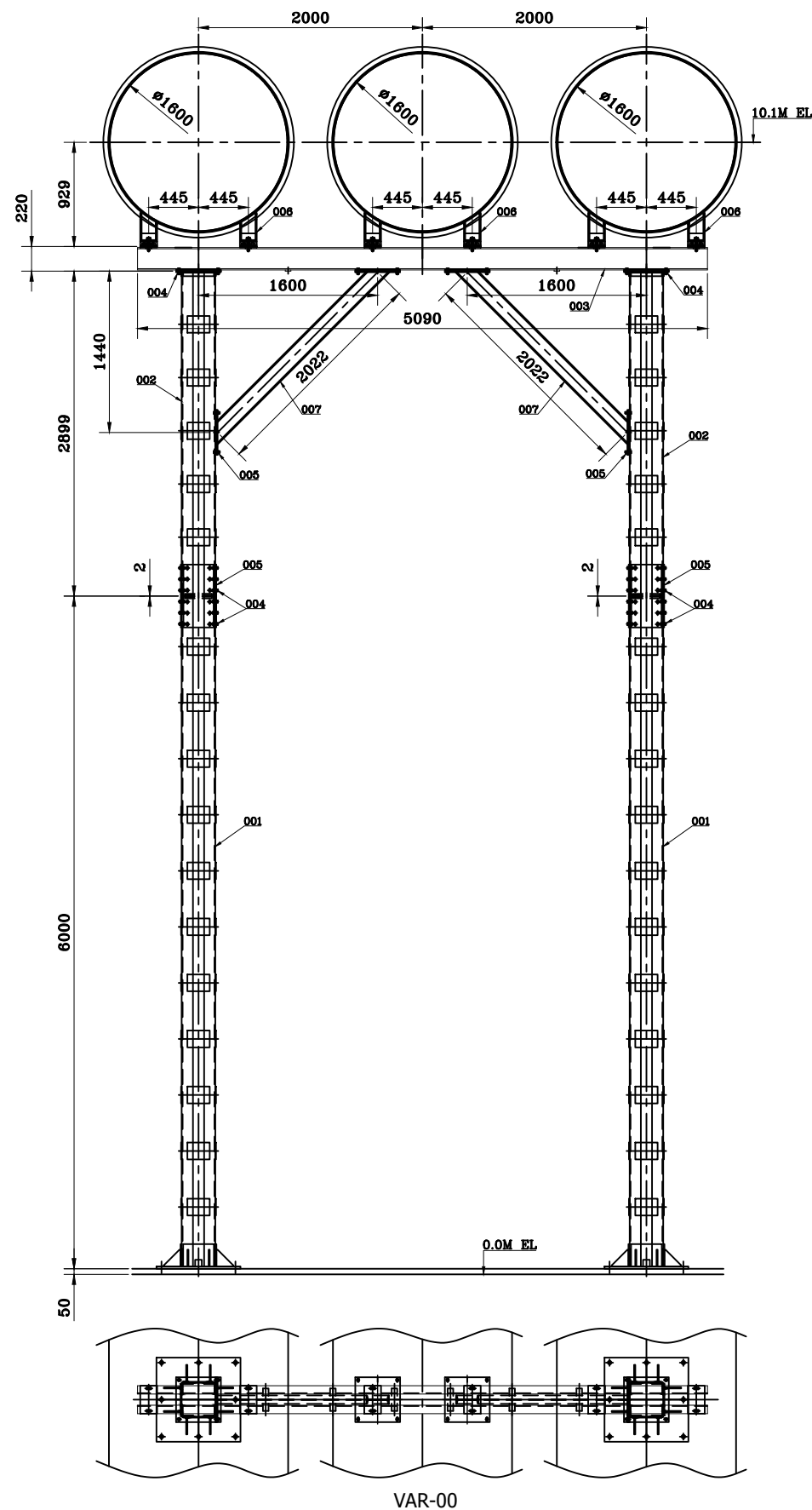
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First Angle Projection

All Dimensions in 'mm'

10021910618

DRAWING NO.



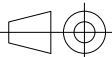
TYPE-A
FOR IPBD POCKET NO.-

1P1-1P2, 1P3-1P4, 1P5-1P6, 1P11-1P12,
2P1-2P2, 2P3-2P4, 2P5-2P6, 2P11-2P12,
3P1-3P2, 3P3-3P4, 3P5-3P6, 3P11-3P12,
4P1-4P2, 4P3-4P4, 4P5-4P6, 4P11-4P12,
5P1-5P2, 5P3-5P4, 5P5-5P6, 5P11-5P12

TOTAL NO. OF SET = 20 NOS.

WT. OF VAR.00 = 1822.36 Kg.

002	--	007	W.A. OF TIE BEAM	THIS DRG. SHEET 02 OF 02	04		55.18	
003	--	006	SUPPORT LEG ARRGT.	31001000226	01		--	
008	--	005	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	013		9.386	
120	--	004	8.8 STEEL-ZPP (SET) SCRU HEX A M16X50 LG.				0.187	
001	--	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	03		295.16	
002	--	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02		195.51	
002	--	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		464.15	
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	SG

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR
			DRN	SUNNY		30/09/21	
			CKD	SANJAY		30/09/21	
			APPD	RUPESH		30/09/21	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
ASSY. OF STRUCTURE FOR TYPE-A ISOLATED PHASE BUSDUCT					31901617001		00
					SHT. NO. 01		NO. OF SHT. 02

SIZE -A3

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SIGN. & DATE

REF. DRG. NO.

INVENTORY NO.

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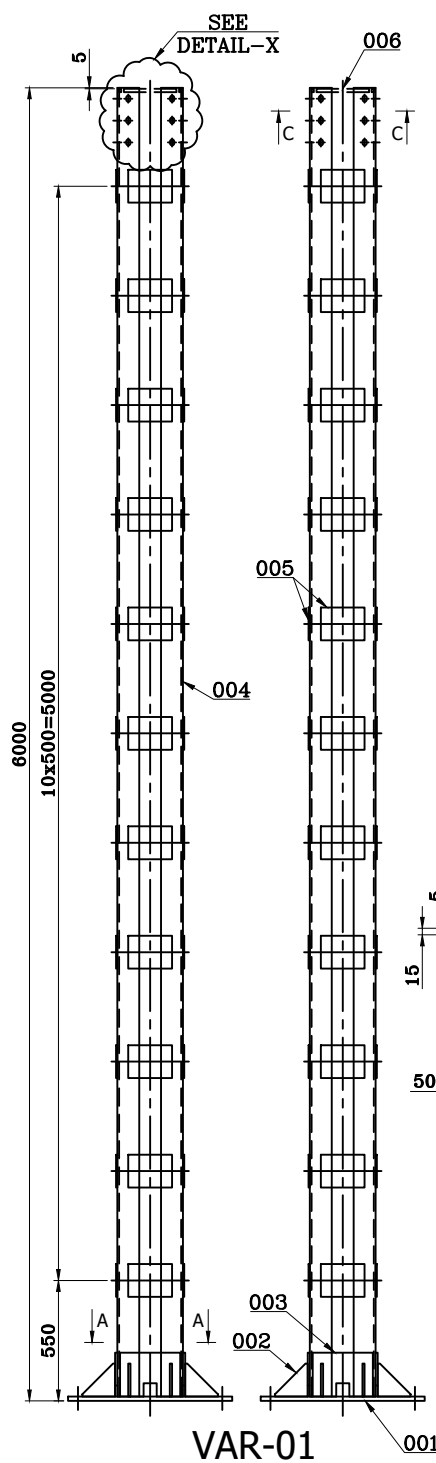
All Dimensions in 'mm'

DRAWING NO.

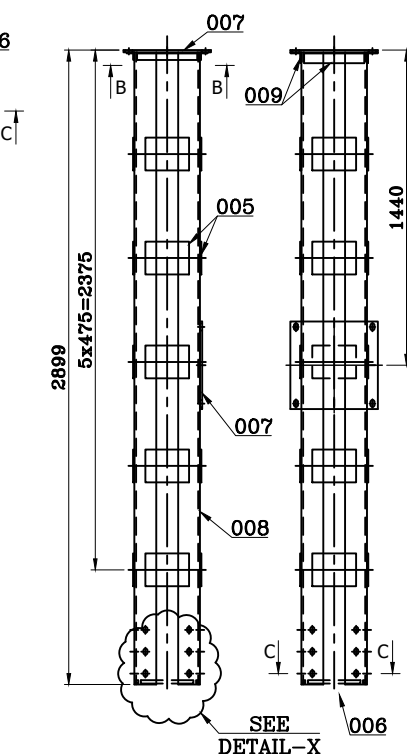
THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

SIGN. & DATE TREF. DRG. NO.

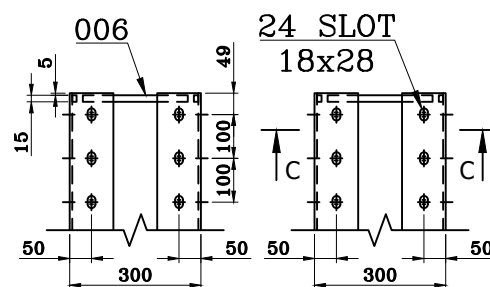
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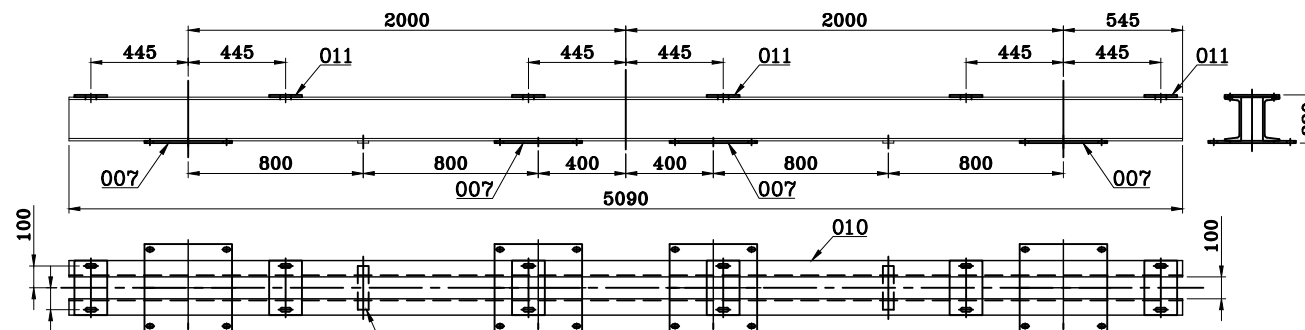
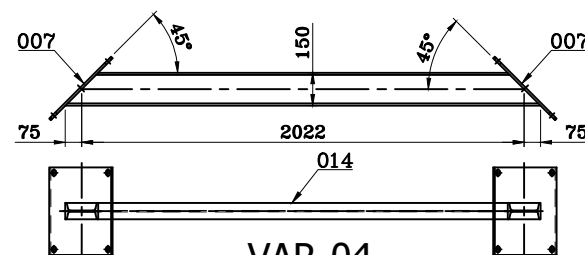
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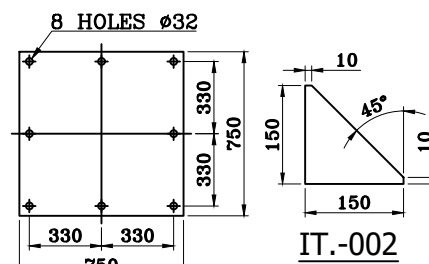
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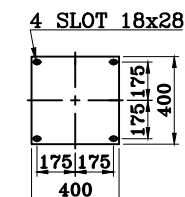
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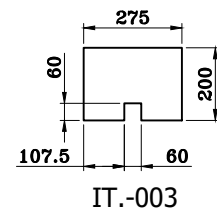
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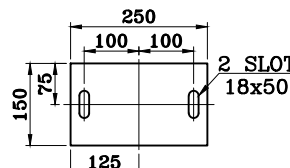
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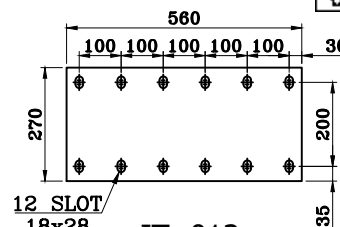
IT.-007



IT.-003



IT.-011



IT.-013

REV.	DATE	ALTERED —
—	—	CHECKED —
		APPD. —

55.18	295.16	195.51	464.15	* VAR. WT. IN KG.						
001					014	ISMB 150 x75 x5 x8x 2172 LG.	SEE DETAIL		30.330	
					013	8 TK x 270 x 560 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	0.001	
	002				012	10 IK x 50 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.	AA 101 08	0.785	
	006			LEG / DMC PLATE	011	10 IK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	2.813	
	002				010	ISM 200 x75 x6.2 x11.4x 5090 LG.	S.C.O.	AA 101 08	113.507	
		004			009	ISA 5TK. x 35 x 35 x 275 LG.	S.C.O.	AA 101 08	0.715	
		004			008	ISA 8TK. x100 x100 x 2889 LG.	S.C.O.	AA 101 08	34.957	
002	001	002		TOP PLATF	007	10 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	12.424	
		001	001		006	10 TK x 15 x 240 LG. STRUCTURE STEEL PLATE	S.C.O.	AA 101 08	0.283	
		019	011	RATTEN PLATF	005	6 TK x 150 x 200 LG. STRUCTURE STEEL PLATE	S.C.O.	AA 101 08	1.413	
			001		004	ISA 8IK. x100 x100 x 5980 LG.	S.C.O.	AA 101 08	12.358	
			004	BOTTOMSUL SUPPORT PLATL	003	10 TK x 200 x 275 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	4.035	
			008	BRACING PLAIL	002	10 TK x 150 x 150 LG. STRUCTURE STEEL PLATF	SEE DETAIL	AA 101 08	0.997	
			001	BASE PLATE	001	20 TK x 750 x 750 LG. STRUCTURE STEEL PLATF	SEE DETAIL	AA 101 08	87.302	
VAR 04	VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCLN.	WT. QTY.

NAME OF PROJECT	5x800 MW YADADRI TPS, NALGONDA
-----------------	---------------------------------------

NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

	NAME	SIGN	DATE	NO. OF VAR —
DRN	SUNNY		30/09/21	
CKD	SANJAY		30/09/21	
APPD	RUPESH		30/09/21	

DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—

W.A. OF STRUCTURE FOR TYPE-A ISOLATED PHASE BUSDUCT

DRAWING NO.

31901617001

SHT. NO.	02
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NO. OF SHT.	02
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00

SIZE -A3

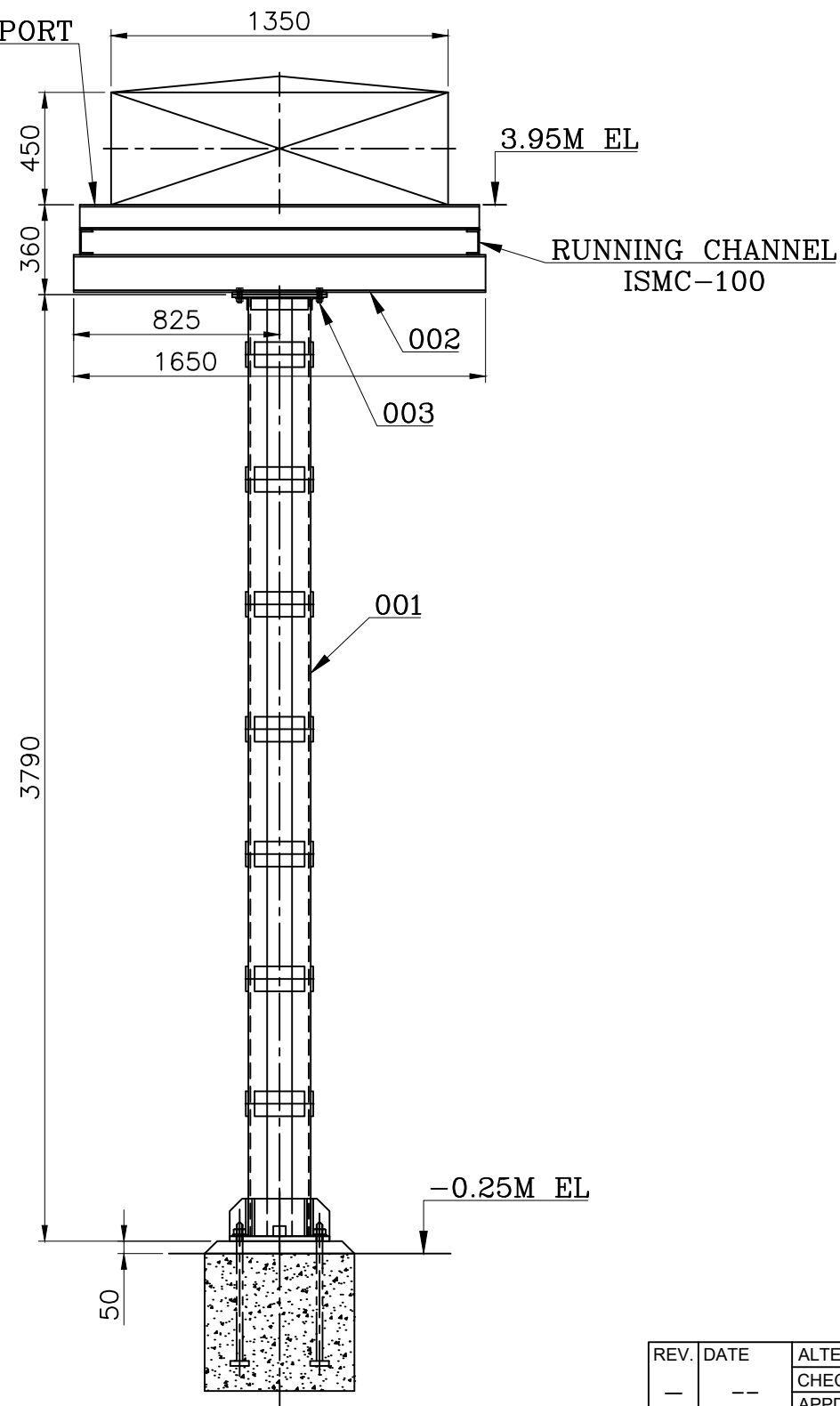
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First Angle Projection

All Dimensions in 'mm'

32951617019

DRAWING NO.

INSULATOR SUPPORT
CHANNELRUNNING CHANNEL
ISMC-100

001

002
003

-0.25M EL

VAR.00

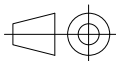
TYPE-19
FOR SPBD AHP ER-1 POCKET NO.- P1 & P2
FOR SPBD AHP ER-2 POCKET NO.- P1 & P2
FOR SPBD AHP ER-3 POCKET NO.- P1 & P2

TOTAL NO. OF SET:- 6 NOS.

WT. FOR VAR.00 = 247.00 KGS.

004	-	003	FASTENER SET M16x55 LG 8.8 STEEL ZPP	31001000228	-	-	0.187
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SH-02 OF 02	04	-	001
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	02	-	001
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	01	-	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.

BILL OF QUANTITY

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR	
		DRN	SUNNY		15/04/23		
		CKD	SANJAY		15/04/23		
		APPD	RUPESH		15/04/23		
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
ASSY. OF STRUCTURE FOR TYPE-19 SPBD AHP-ER-1 & AHP-ER-2					32951617019		00
					SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

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

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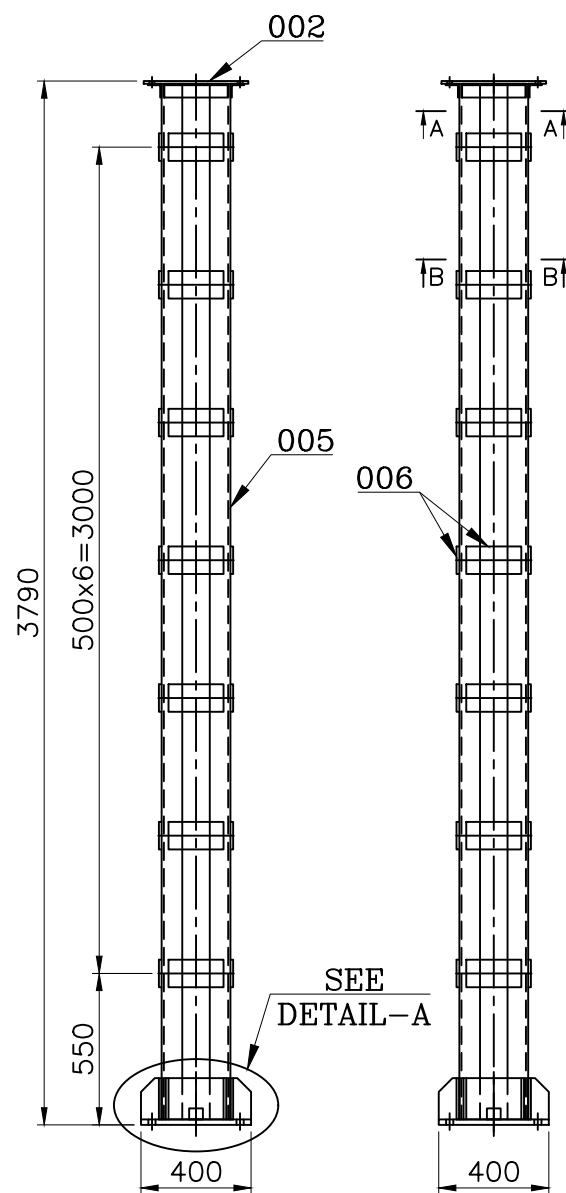
All Dimensions in 'mm'

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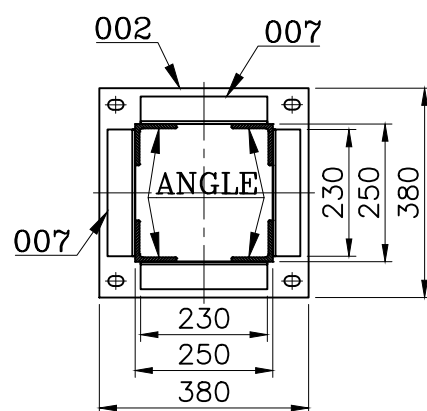
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SIGN. & DATE _____ TREF. DRG. NO. _____

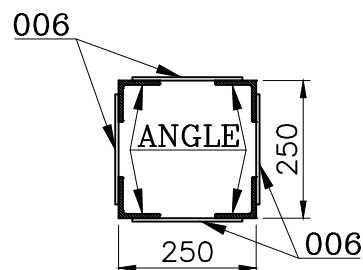
INVENTORY NO.



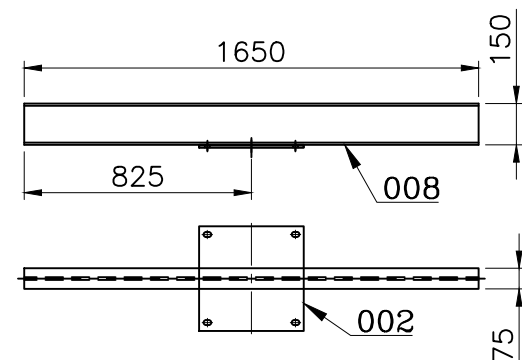
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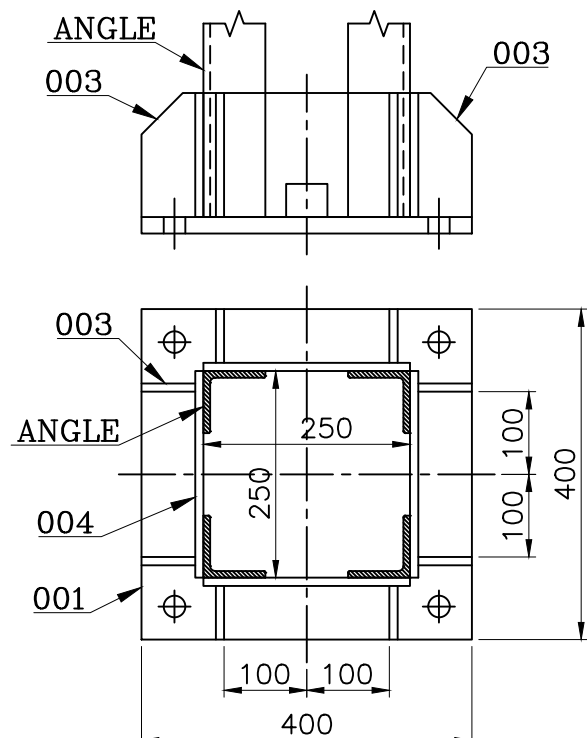
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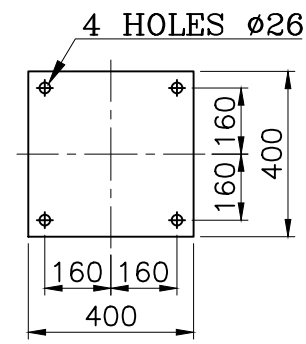
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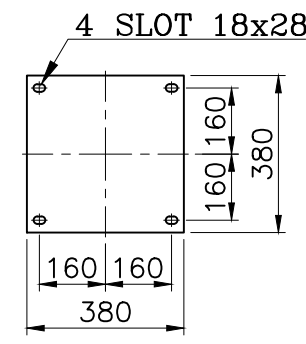
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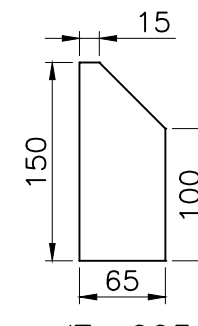
DETAIL-A



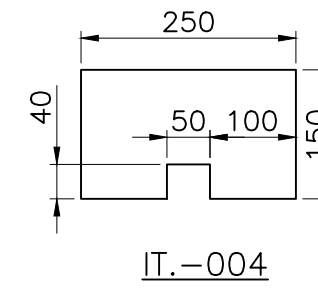
IT.-001



IT.-002



IT.-003



IT.-004

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.

35.95	210.31	← VAR. WT. IN KG.						
001			008	ISMB 150 x75 x5 x8x 1650 LG.	S.C.O.		AA 101 08	24.750 001
	004		007	ISA STK. x 50 x 50 x 230 LG.	S.C.O.		AA 101 08	0.874 001
	028	SIDE PLATE	006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.942 001
	004		005	ISA 8TK. x75 x75 x 3760 LG.	S.C.O.		AA 101 08	33.464 001
	004	-	004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	1.751 001
	008	-	003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.449 001
001	001	TOP PLATE	002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199 001
	001	BASE PLATE	001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	24.787 001
VAR 02	VAR 01	REMARKS	ITEM	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT	<u>5x800 MW YADADRI TPS, NALGONDA</u>
NAME OF CUSTOMER	<u>TELANGANA STATE POWER GENERATION CORPORATION LTD</u> <u>TELANGANA, INDIA</u>

 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR		NAME	SIGN	DATE	NO. OF VAR —
	DRN	SUNNY		15/04/23	
	CKD	SANJAY		15/04/23	
	APPD	RUPESH		15/04/23	

DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—

TITLE	W.ASSY. OF STRUCTURE FOR TYPE-19 SPBD AHP-ER-1 & AHP-ER-2
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DRAWING NO.	32951617019
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SHT. NO.	02	NO. OF SHT.	02
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SIZE -A3

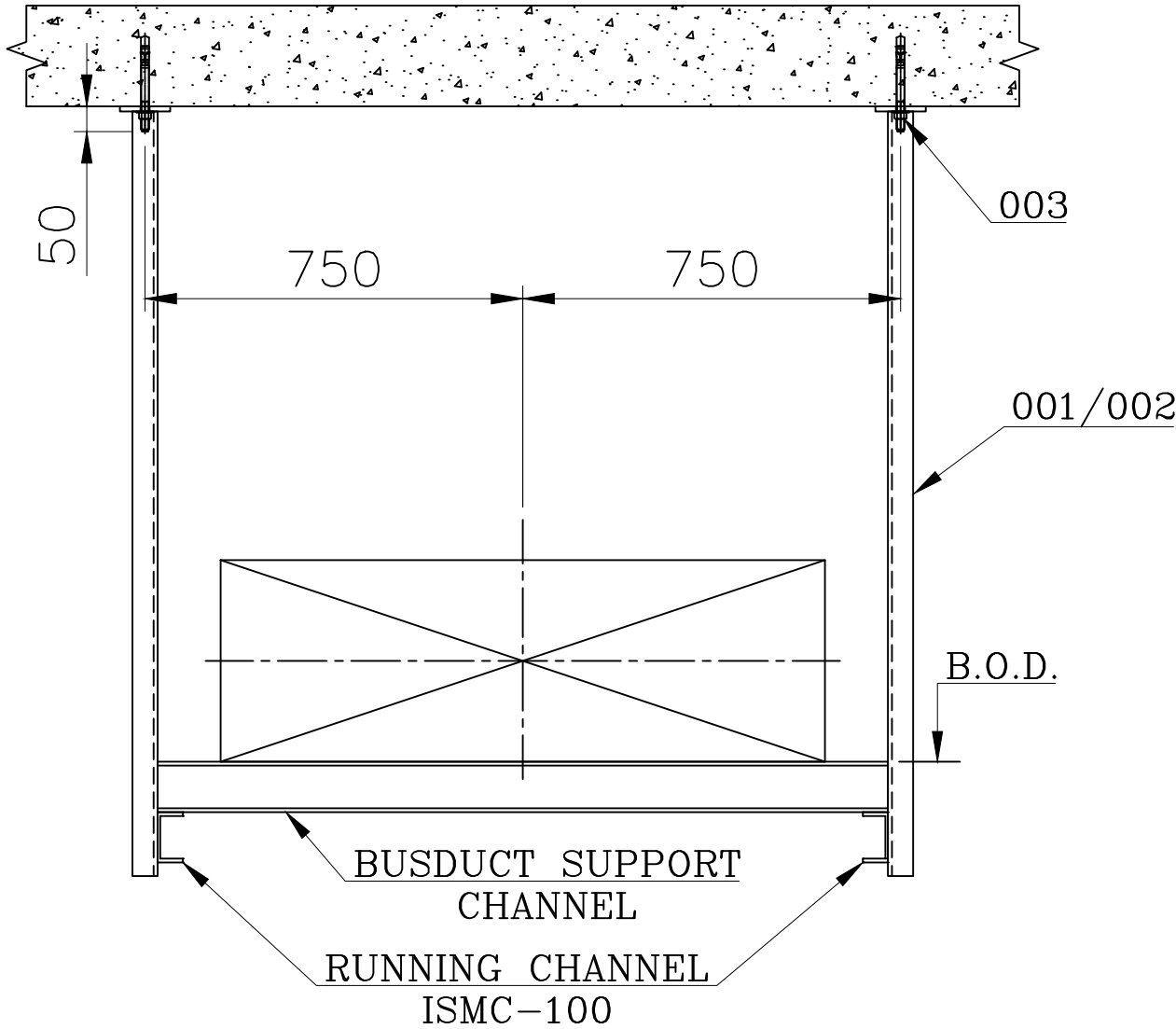
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First Angle Projection

All Dimensions in 'mm'

32951617020

DRAWING NO.



TYPE-18

SPBD	AHP	ER-1	VAR.00	=	4	SET
SPBD	AHP	ER-1	VAR.01	=	2	SET
SPBD	AHP	ER-2	VAR.00	=	4	SET
SPBD	AHP	ER-2	VAR.01	=	4	SET
SPBD	AHP	ER-3	VAR.00	=	4	SET
SPBD	AHP	ER-3	VAR.01	=	4	SET

TOTAL NO. OF SET:-
VAR.00 = 12 NOS.
VAR.01 = 10 NOS.

004	004	-	003	ANCHORE FASTENER M16x165 LG.	-	-	-	-
002	-	-	002	W.A. OF HANGER 2850 LG.	THIS DRG. SH-02 OF 02	03	-	28.43
-	002	-	001	W.A. OF HANGER 2200 LG.	THIS DRG. SH-02 OF 02	02	-	22.21
VAR 01	VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
	BHARAT HEAVY ELECTRICALS LTD.				DRN	SUNNY	SIGN	DATE
	RUDRAPUR				CKD	SANJAY		15/04/23
					APPD	RUPESH		15/04/23
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM		
CODE	m							
TITLE				DRAWING NO.		REV.		
ASSY. OF STRUCTURE FOR TYPE-20 FOR SPBD AHP-ER-1 & AHP-ER-1				32951617020		00		
		SHT. NO.	01	NO. OF SHT.		02		

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

First Angle Projection

All Dimensions in 'mm'

32951617020

DRAWING NO.

001

A

002/003/004

005/006

A

001

VAR.02/03

CHANNEL

001

25

25

50

50

100

200

2 HOLE

ø18

SECTION-"AA"

Z6

Z6

TABLE-1

VAR.	DIM - 'A'
02	2200
03	2850

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.

03

02

VAR. NO.

28.43

22.21

WEIGHT IN KG.

001		003	ISMC 100 x50 x5 x7.7x 2842 LG.	S.C.O.			27.170
	001	002	ISMC 100 x50 x5 x7.7x 2192 LG.	S.C.O.		AA 101 08	001
							20.956
						AA 101 08	001
001	001	001	8 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL			1.256
						AA 101 08	001

VAR

VAR

REMARKS

ITEM NO.

DESCRIPTION

DRAWING NO.

IT. NO.

MAT. CODE

WT.

03

02

VAR.

MAT. SPCN.

QTY.

NAME OF PROJECT

5x800 MW YADADRI TPS, NALGONDA

NAME OF CUSTOMER

TELANGANA STATE POWER GENERATION CORPORATION LTD

TELANGANA, INDIA

BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DRN

SUNNY

15/04/23

CKD

SANJAY

15/04/23

APPD

RUPESH

15/04/23

DEPT.

BDE

CODE

UNTOL.DIMS.GR.

m

SCALE

WEIGHT(KG)

REF. TO ASSY. DRG.

ITEM NO.

NO. OF ITEM

TITLE

W.ASSY. OF STRUCTURE FOR TYPE-20 FOR SPBD AHP-ER-1 & AHP-ER-2

DRAWING NO.

32951617020

REV.

00

SHT. NO.

02

NO. OF SHT.

02

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR BOP CHP AHP.dwg Printed On :6/20/2023 1:39:34 PM

First Angle Projection

All Dimensions in 'mm'

32951617009

DRAWING NO.

5000

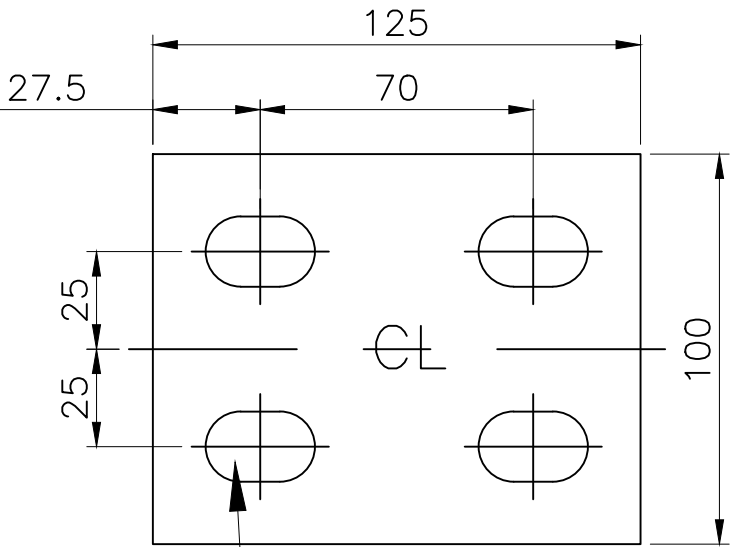
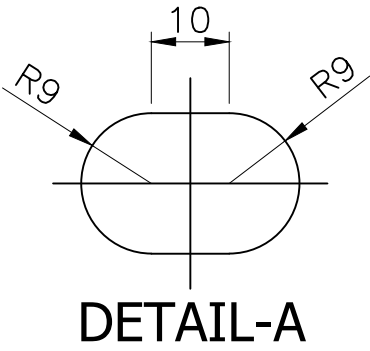
34

34

25
25

2x2 HOLE $\phi 18$

ITEM-001



4-SLOT SEE
DETAIL-A

ITEM-002

		002	8 TK x 100 x 125 LG. STRUCTURE STEEL PLATE	SEE DETAIL			0.676
		001	ISMC 100 x50 x5 x7.7x 5000 LG.	SEE DETAIL		AA 10108	47.800
VAR 00	REMARKS	ITEM	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.
RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		25/08/21	
APPD	RUPESH		25/08/21	

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

DEPT.	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
BDE	m	-	-	-	-	-
CODE						
TITLE	W.ASSY. OF RUNNING/SUPPORT CHANNEL SEGREGATED PHASE BUSDUCT			DRAWING NO. 32951617009	REV. 00	
	SHT. NO. 01	NO. OF SHT. 01				

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

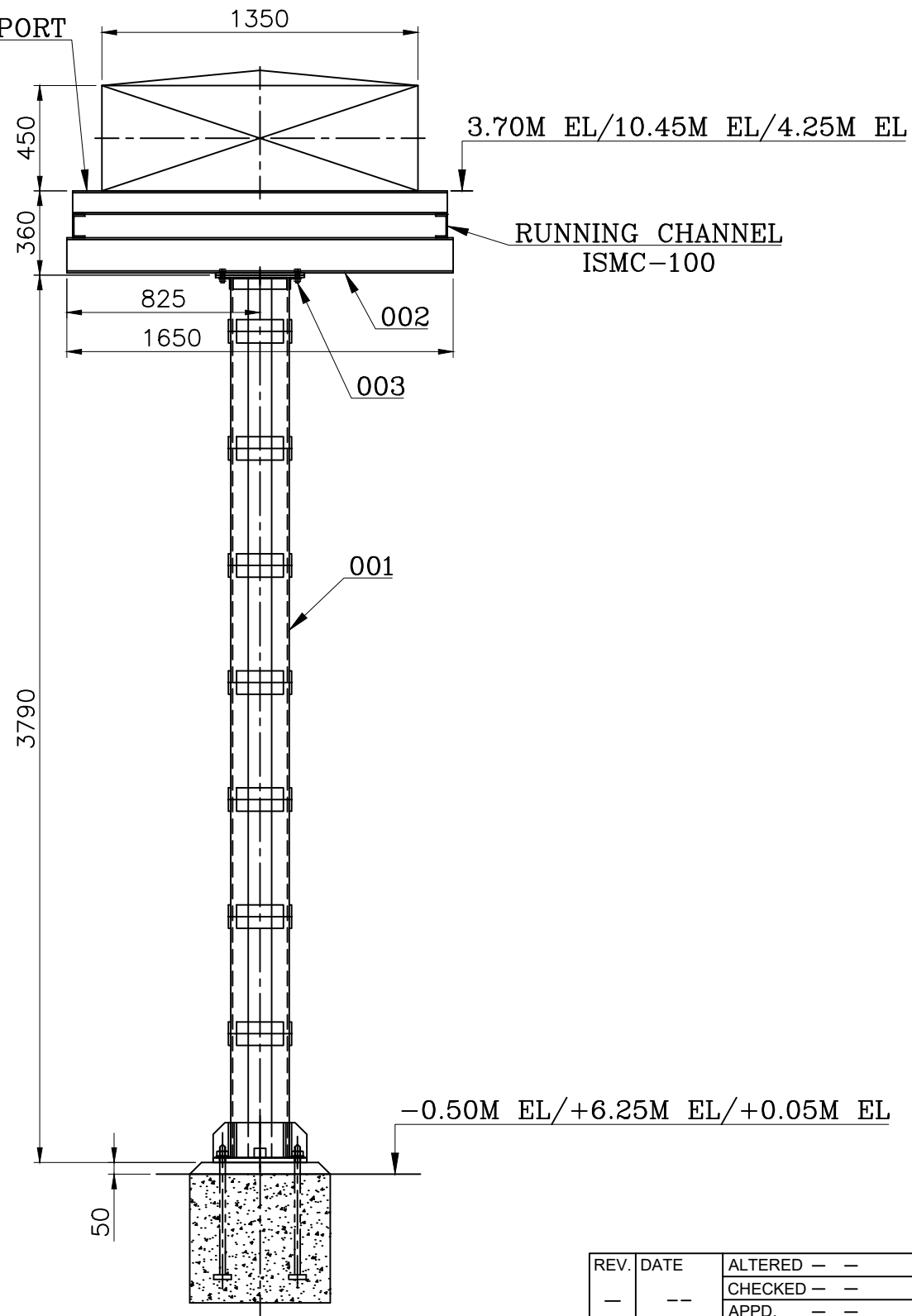
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First Angle Projection

All Dimensions in 'mm'

32951617015

DRAWING NO.

INSULATOR SUPPORT
CHANNEL

VAR.00

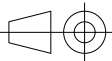
TYPE-15
FOR SPBD BOP STAGE-1 POCKET NO.- P1 & P2
FOR SPBD CHP ER-3 POCKET NO.- P1 TO P4
FOR SPBD CHP ER-5 POCKET NO.- P3 & P4

TOTAL NO. OF SET:- 8 NOS.

WT. FOR VAR.00 = 247.00 KGS.

004	-	003	FASTENER SET M16x55 LG 8.8 STEEL ZPP	31001000228	-	-	0.187
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SH-02 OF 02	04	-	35.95
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	02	-	210.31
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.

BILL OF QUANTITY

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR		
		DRN	SUNNY		25/01/23			
		CKD	SANJAY		25/01/23			
		APPD	RUPESH		25/01/23			
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	
CODE —	m		—	—	—	—	—	
TITLE					DRAWING NO.		REV.	
ASSY. OF STRUCTURE FOR TYPE-15 SPBD BOP & CHP					32951617015		00	
			SHT. NO.	01	NO. OF SHT.			02

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

Computer File:- PC: Rupesh Kumar Path: \\10.27.2.12\\Shared\\RUPESH\\YADADRI AHP CHP\\YADADRI SPBD STRUCTURE FOR BOP CHP.dwg Printed On :1/30/2023 2:28:39 PM

First Angle Projection

All Dimensions in 'mm'

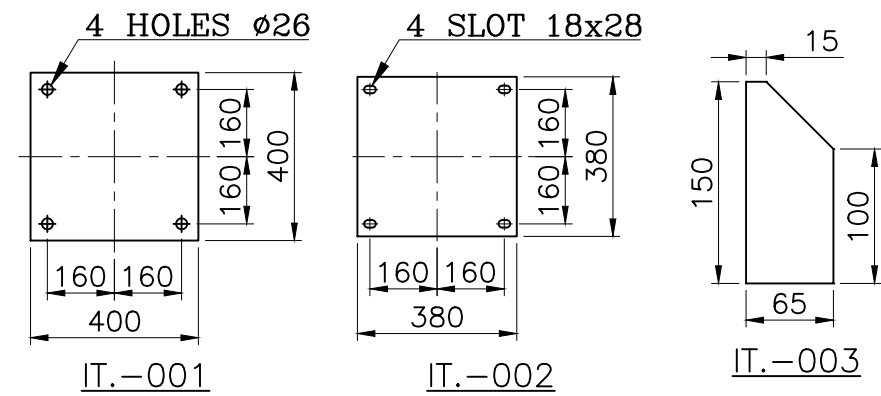
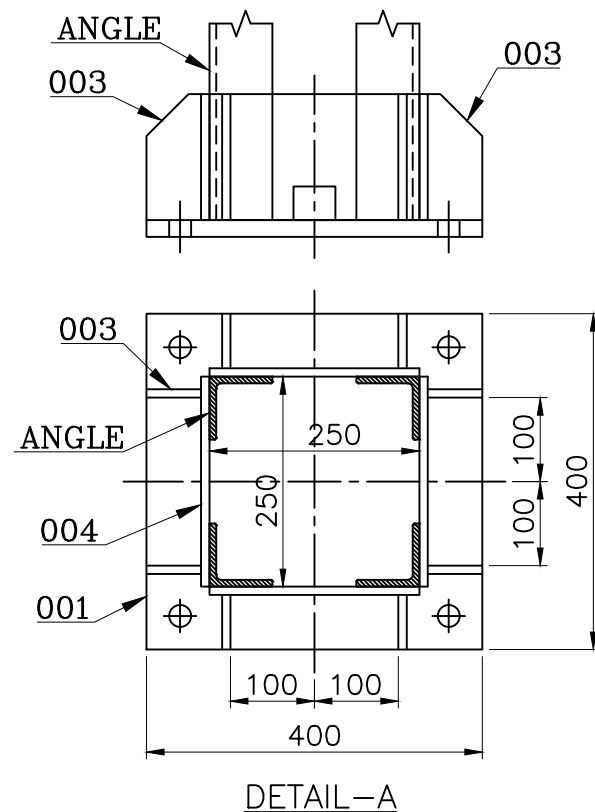
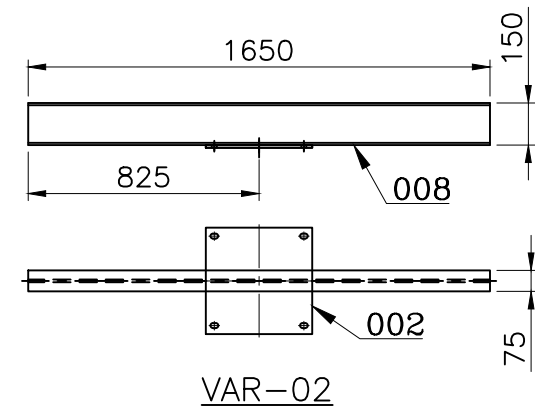
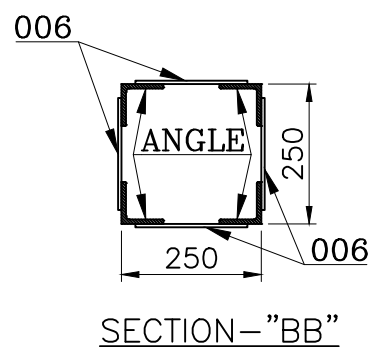
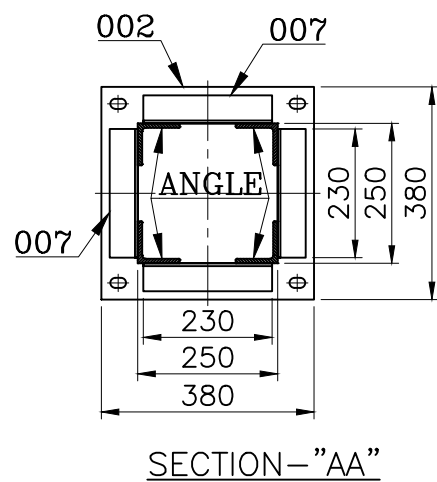
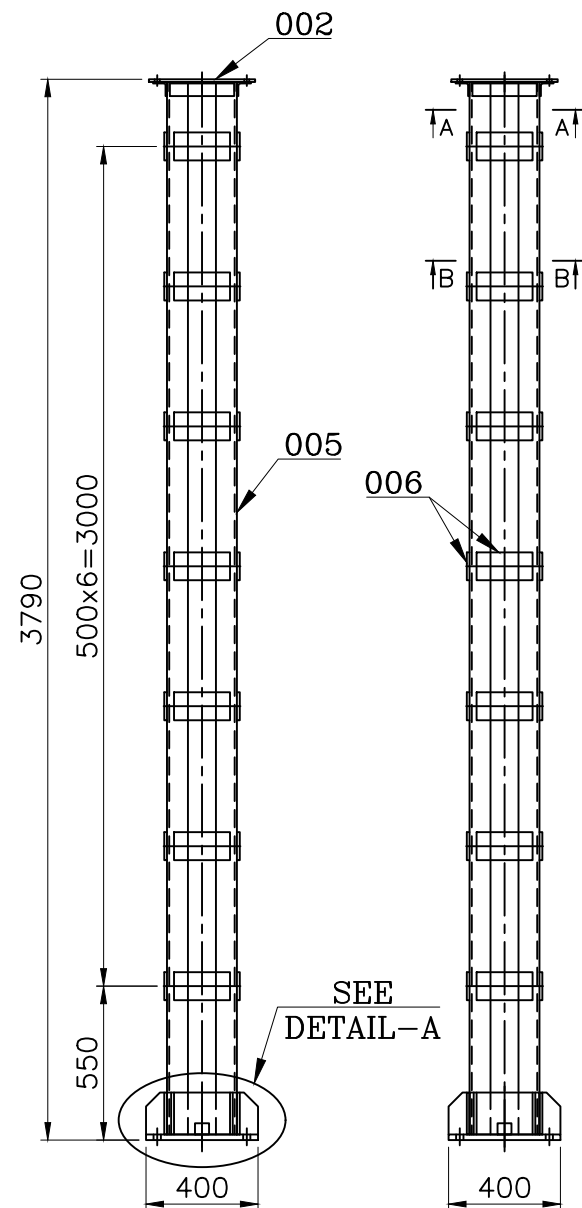
32951617015

DRAWING NO.

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

SIGN. & DATE

INVENTORY NO.



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.

35.95	210.31	← VAR. WT. IN 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	0.871 001	
	028	SIDE PLATE 006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.942 001	
	004	005	ISA 8TK. x75 x75 x 3760 LG.	S.C.O.		AA 101 08	33.464 001	
	004	-	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	1.751 001	
	008	-	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.149 001	
001	001	TOP PLATE 002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199 001	
	001	BASE PLATE 001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	24.787 001	
VAR 02	VAR 01	REMARKS	ITEM	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
—	m	—	—	—	—	—
TITLE				DRAWING NO.	REV.	
W.ASSY. OF STRUCTURE FOR TYPE-15 SPBD BOP & CHP				32951617015	00	
				SHT. NO. 02	NO. OF SHT. 02	

SIZE -A3

First Angle Projection

All Dimensions in 'mm'

32951617016

DRAWING NO.

INSULATOR SUPPORT
CHANNEL

1350

5.90M EL / 8.65M EL

RUNNING CHANNEL
ISMC-100

450
360

825
1650

002
004

3990

001

1.50M EL / 4.25M EL

50

VAR.00

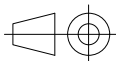
TYPE-16
FOR SPBD BOP STAGE-2 POCKET NO.- P1 & P2
FOR SPBD CHP ER-4 POCKET NO.- P1 TO P4

TOTAL NO. OF SET:- 06 NOS.

WT. FOR VAR.00 = 360.85 KGS.

012	-	004	FASTENER SET M16x55 LG 8.8 STEEL ZPP	31001000228	-	-	0.187
					04	-	001
001	-	003	W.A. OF TIE BEAM	THIS DRG. SH-02 OF 02	-	-	42.66
					03	-	001
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SH-02 OF 02	-	-	88.25
					02	-	001
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	-	-	227.69
					01	-	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.

BILL OF QUANTITY

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
	RUDRAPUR		CKD	SANJAY		25/01/23	-
			APPD	RUPESH		25/01/23	-
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	
CODE -	m		-	-	-	-	-
TITLE				DRAWING NO.	REV.		
ASSY. OF STRUCTURE FOR TYPE-16 SPBD BOP & CHP				32951617016	00		
				SHT. NO. 01	NO. OF SHT. 02		

SIZE -A3

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

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

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THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED.
IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

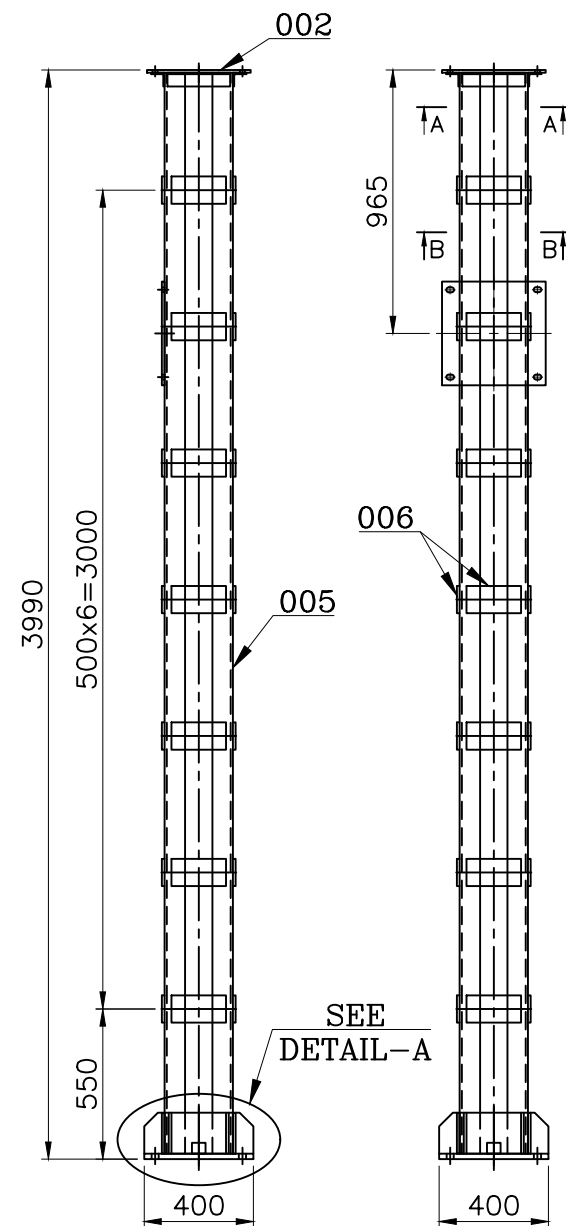
INVENTORY NO. SIGN. & DATE REF. DRG. NO.

First Angle Projection

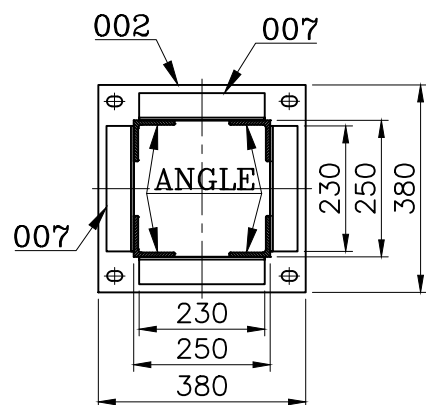
All Dimensions in 'mm'

32951617016

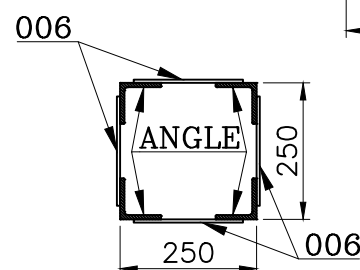
DRAWING NO.



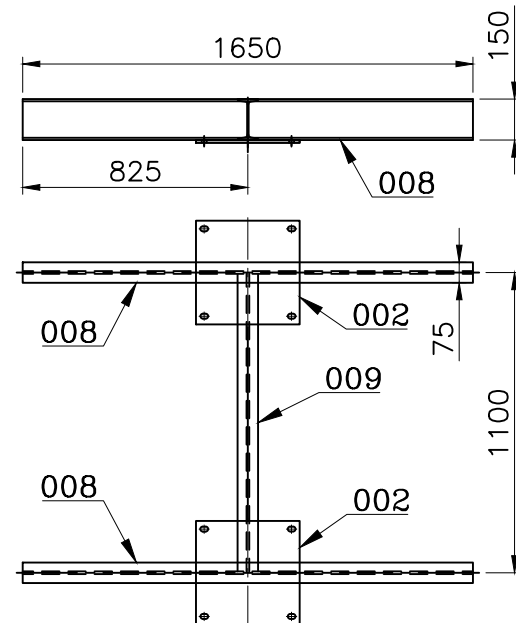
VAR-01



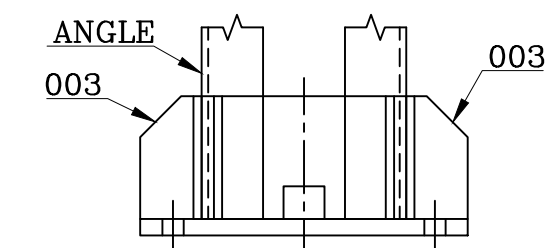
SECTION-AA



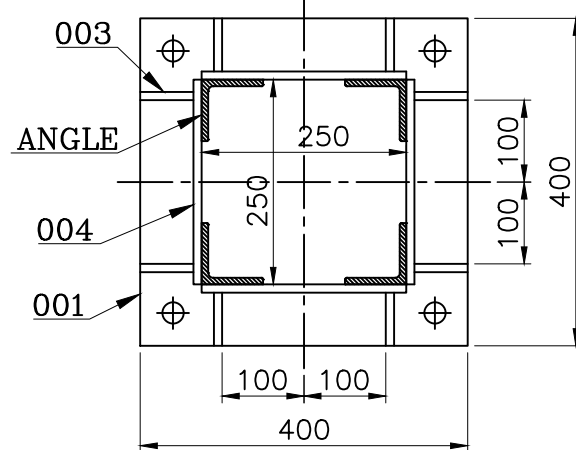
SECTION-BB



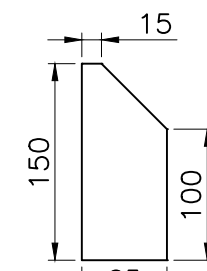
VAR-02



IT-003



DETAIL-A



IT-003

VAR-03

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.

42.66	88.25	227.69	VAR. WT. IN KG.						
001				010	ISMB 150 x75 x5 x8x 1501 LG.	SEE DETAIL		AA 101 08	20.265
	001			009	ISMB 150 x75 x5 x8x 1090 LG.	S.C.D.		AA 101 08	16.350
	002			008	ISMB 150 x75 x5 x8x 1650 LG.	S.C.D.		AA 101 08	24.750
		004		007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.D.		AA 101 08	0.871
		027	SIDE PLATE	006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.942
		004		005	ISA 8TK. x75 x75 x 3960 LG.	S.C.D.		AA 101 08	35.244
		004	-	004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	1.751
		008	-	003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.449
002	002	002	TOP PLATE	002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199
		001	BASE PLATE	001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	24.787
VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPQN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m					
TITLE	W.ASSY. OF STRUCTURE FOR TYPE-16 SPBD BOP & CHP	DRAWING NO.	32951617016	REV.	00	
SHT. NO.	02	NO. OF SHT.	02			

SIZE -A3

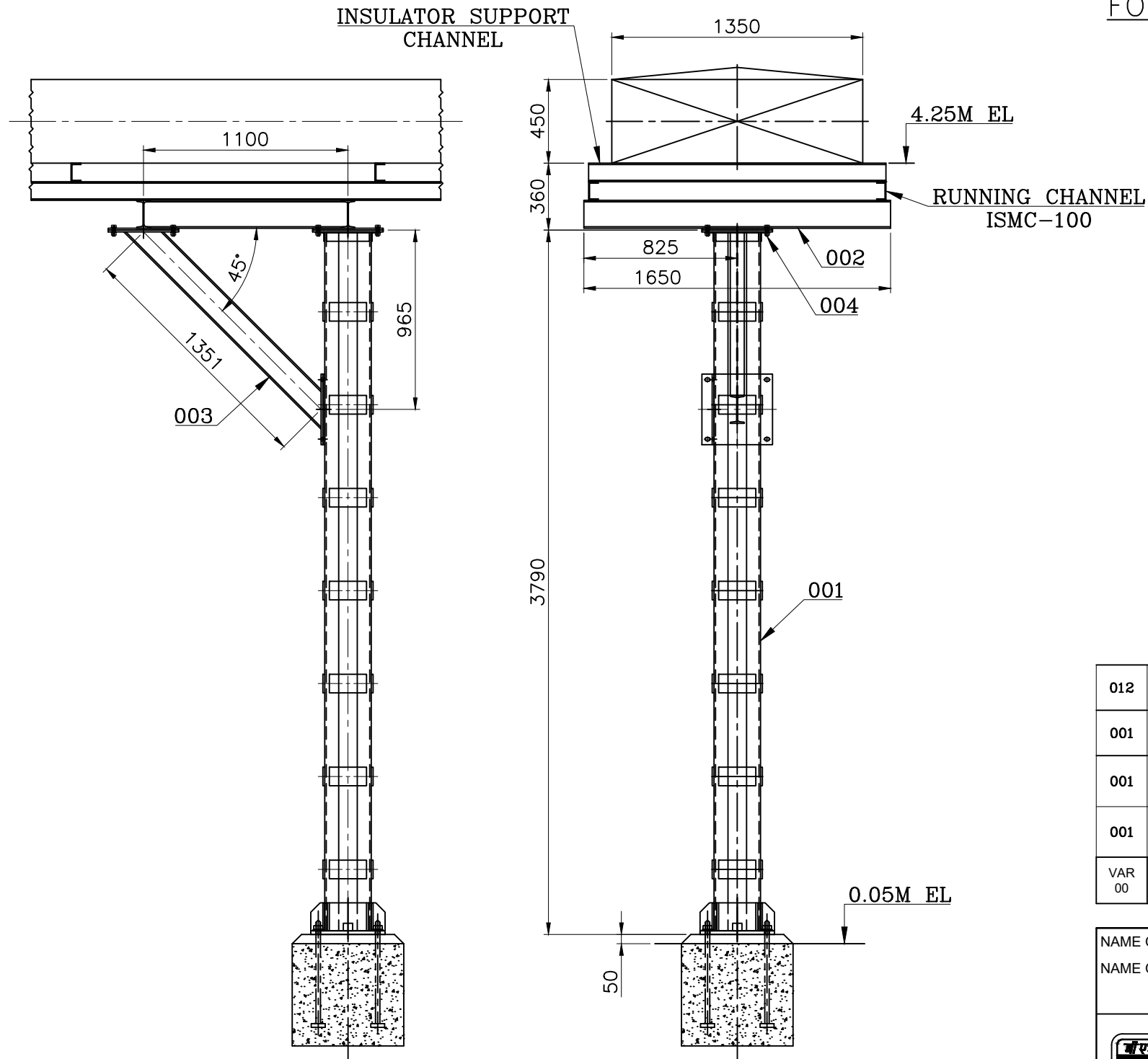
First Angle Projection

All Dimensions in 'mm'

32951617017

DRAWING NO.

TYPE-17
FOR SPBD CHP ER-5 POCKET NO.- P1 & P2

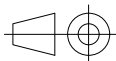


TOTAL NO. OF SET:- 02 NOS.

WT. FOR VAR.00 = 353.73 KGS.

012	-	004	FASTENER SET M16x55 LG 8.8 STEEL ZPP	31001000228	-	-	0.187
					04	-	001
001	-	003	W.A. OF TIE BEAM	THIS DRG. SH-02 OF 02	-	-	42.66
					03	-	001
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SH-02 OF 02	-	-	88.25
					02	-	001
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	-	-	220.57
					01	-	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO.	MATL. CODE	WT(KG)
					VAR	MATL. SPECN.	QTY.

BILL OF QUANTITY

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD					
		TELANGANA, INDIA					
 BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR	
		CKD	SANJAY		25/01/23		
		APPD	RUPESH		25/01/23		
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE	m		-			-	-
TITLE				DRAWING NO.		REV.	
ASSY. OF STRUCTURE FOR TYPE-17 SPBD BOP & CHP				32951617017		00	
		SHT. NO.	01	NO. OF SHT.		02	

SIZE -A3

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SIGN. & DATE

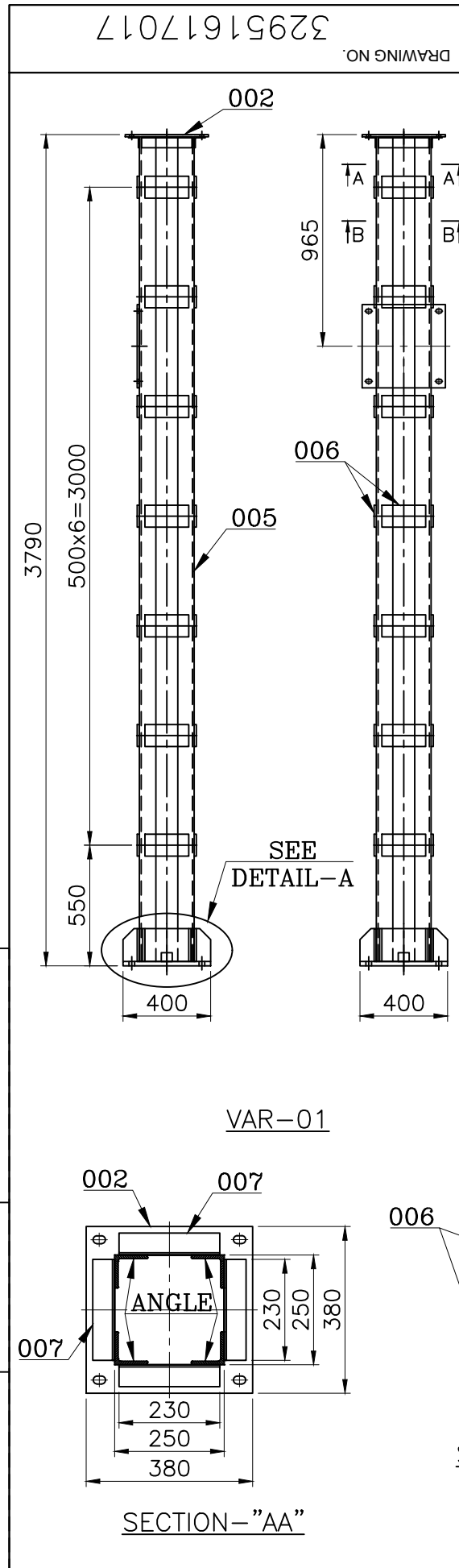
INVENTORY NO.

REF. DRG. NO.

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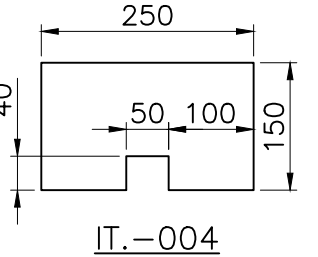
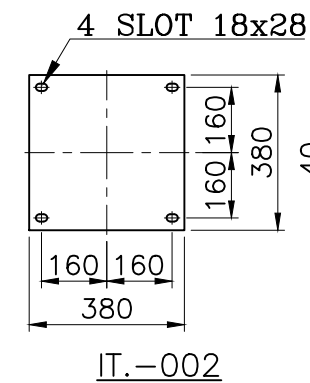
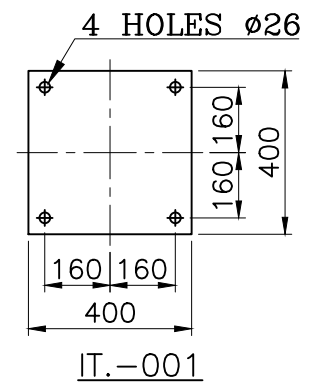
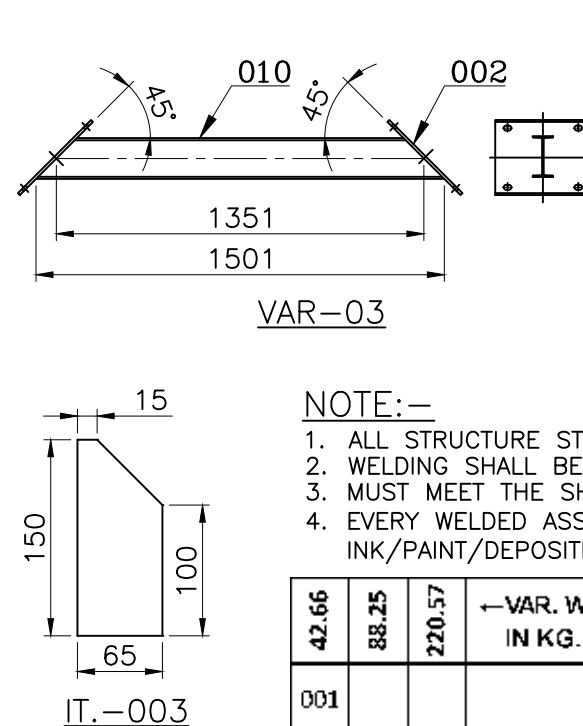
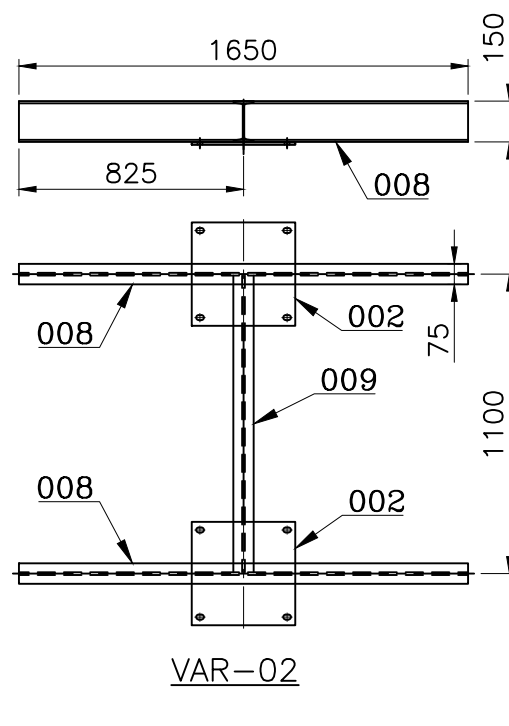
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INVENTORY NO. SIGN. & DATE REF. DRG. NO.



First Angle Projection

All Dimensions in 'mm'



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.

42.66	88.25	220.57	VAR. WT. IN KG.						
001				010	ISMB 150 x75 x5 x8x 1501 LG.	SEE DETAIL	AA 101 08	20.265	001
	001			009	ISMB 150 x75 x5 x8x 1090 LG.	S.C.D.	AA 101 08	16.350	001
	002			008	ISMB 150 x75 x5 x8x 1650 LG.	S.C.D.	AA 101 08	24.750	001
	004			007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.D.	AA 101 08	0.871	001
	027	SIDE PLATE		006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	0.942	001
	004			005	ISA 8TK. x75 x75 x 3760 LG.	S.C.D.	AA 101 08	33.464	001
	004	-		004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	1.751	001
	008	-		003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	0.449	001
002	002	002	TOP PLATE	002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	11.199	001
	001	001	BASE PLATE	001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	24.787	001
VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCH.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE CODE	UNTOL.DIMS.GR. m	SCALE -	WEIGHT(KG) -	DRN SUNNY	SIGN	DATE 25/01/23	NO. OF VAR
				CKD SANJAY		25/01/23	
				APPD RUPESH		25/01/23	
TITLE W.ASSY. OF STRUCTURE FOR TYPE-17 SPBD BOP & CHP	DRAWING NO. 32951617017	REV. 00		REF. TO ASSY. DRG. -	ITEM NO. -	NO. OF ITEM	
	SHT. NO. 02	NO. OF SHT. 02					

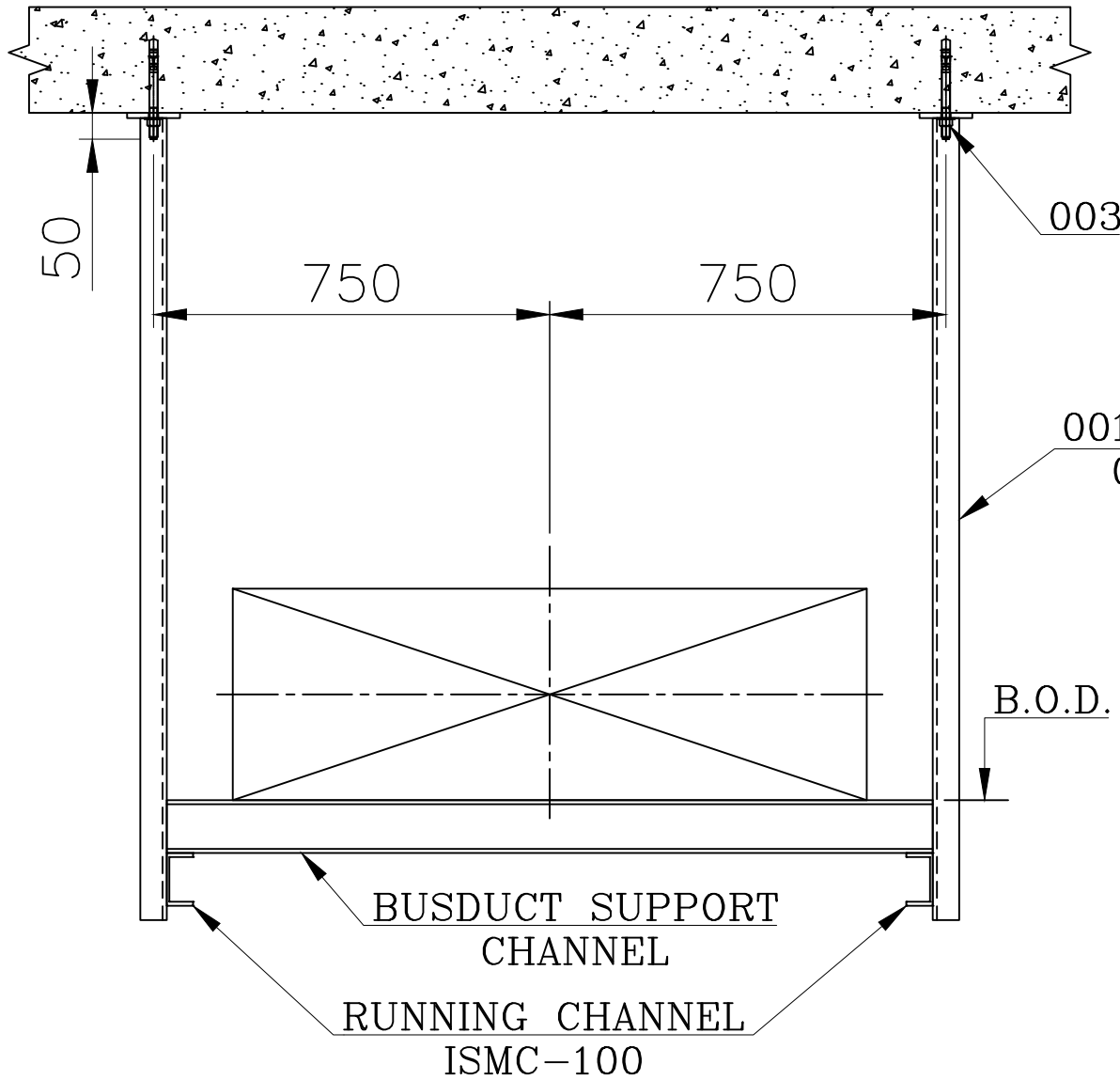
SIZE -A3

First Angle Projection

All Dimensions in 'mm'

32951617018

DRAWING NO.



VAR.00/01/02/03/04

WT. FOR VAR.00 = 254.13 KGS.

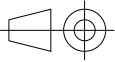
REV.	DATE	ALTERED	—	—
—	—	CHECKED	—	—
—	—	APPD.	—	—

SPBD	BOP	STAGE-1	VAR.01	=	6	SET
SPBD	BOP	STAGE-1	VAR.02	=	4	SET
SPBD	BOP	STAGE-2	VAR.00	=	6	SET
SPBD	BOP	STAGE-2	VAR.02	=	4	SET
SPBD	CHP	ER-3	VAR.03	=	10	SET
SPBD	CHP	ER-3	VAR.04	=	8	SET
SPBD	CHP	ER-4	VAR.04	=	15	SET
SPBD	CHP	ER-5	VAR.04	=	15	SET

TOTAL NO. OF SET:-
VAR.00 = 06 NOS.
VAR.01 = 06 NOS.
VAR.02 = 08 NOS.
VAR.03 = 10 NOS.
VAR.04 = 38 NOS.

004	004	004	004	004	—	006	ANCHORE FASTENER M16x165 LG.	—	—	—	26.51
002	—	—	—	—	—	005	W.A. OF HANGER 2725 LG.	THIS DRG. SH-02 OF 02	—	—	27.23
—	002	—	—	—	—	004	W.A. OF HANGER 2425 LG.	THIS DRG. SH-02 OF 02	—	—	24.36
—	—	002	—	—	—	003	W.A. OF HANGER 2000 LG.	THIS DRG. SH-02 OF 02	—	—	20.30
—	—	—	002	—	—	002	W.A. OF HANGER 1600 LG.	THIS DRG. SH-02 OF 02	—	—	16.48
—	—	—	—	002	—	001	W.A. OF HANGER 1400 LG.	THIS DRG. SH-02 OF 02	—	—	14.56
VAR 04	VAR 03	VAR 02	VAR 01	VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.

BILL OF QUANTITY

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR	
		DRN	SUNNY		25/01/23		
		CKD	SANJAY		25/01/23		
		APPD	RUPESH		25/01/23		
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
ASSY. OF STRUCTURE FOR TYPE-18 FOR SPBD BOP & CHP					32951617018		00
					SHT. NO.	NO. OF SHT.	
					01	02	

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

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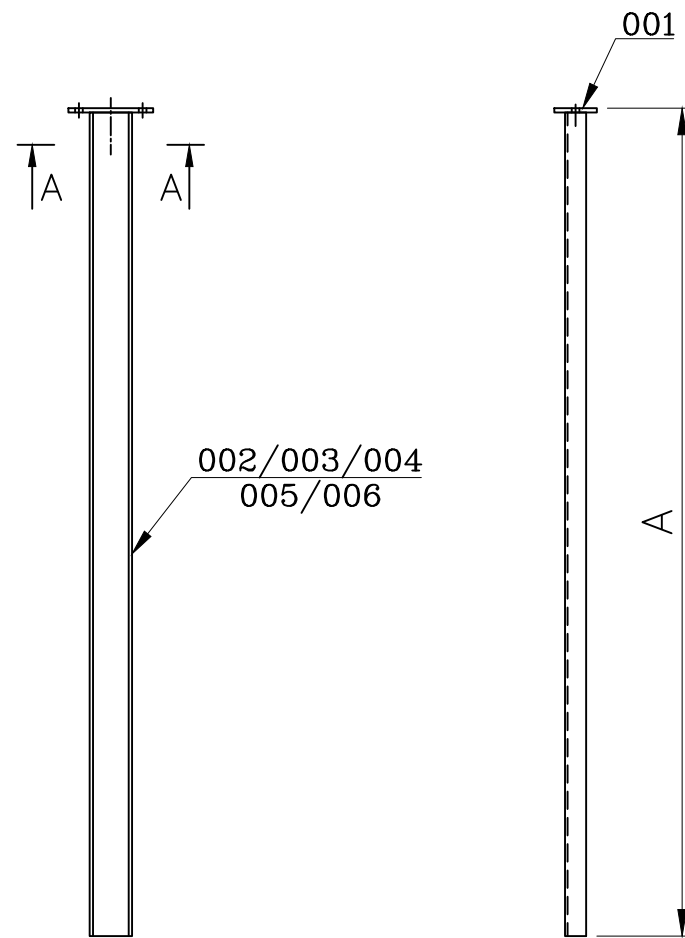
INVENTORY NO. SIGN. & DATE REF. DRG. NO.

First Angle Projection

All Dimensions in 'mm'

32951617018

DRAWING NO.



VAR.05/06/07/08/09

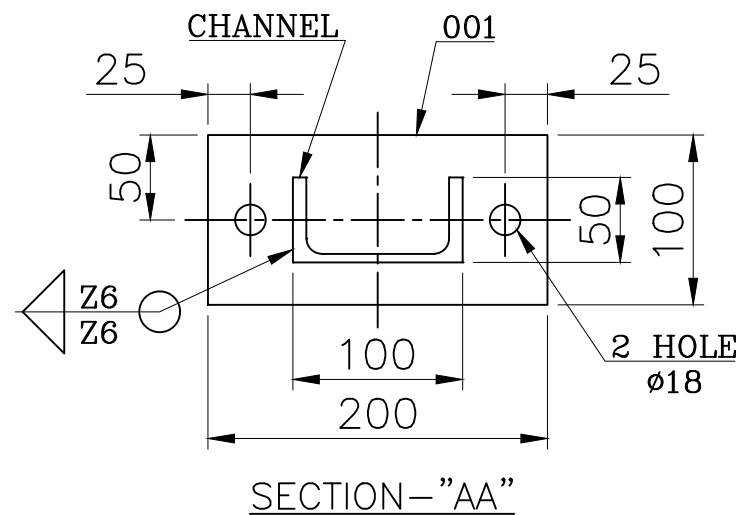


TABLE-1

VAR.	DIM - 'A'
05	1400
06	1600
07	2000
08	2425
09	2725

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.

09	08	07	06	05	VAR. NO.	
27.23	24.36	20.30	16.48	14.56	WEIGHT IN KG.	
001						006 ISMC 100 x50 x5 x7.7x 2717 LG. S.C.O. 25.975
	001					005 ISMC 100 x50 x5 x7.7x 2417 LG. S.C.O. 23.107
		001				004 ISMC 100 x50 x5 x7.7x 1992 LG. S.C.O. 19.044
			001			003 ISMC 100 x50 x5 x7.7x 1592 LG. S.C.O. 15.220
				001		002 ISMC 100 x50 x5 x7.7x 1392 LG. S.C.O. 13.308
001	001	001	001	001		001 8 TK x 100 x 200 LG. SEE DETAIL 1.256
VAR 09	VAR 08	VAR 07	VAR 06	VAR 05	REMARKS	ITEM NO. DESCRIPTION DRAWING NO. IT. NO. MAT. CODE WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		25/01/23	
APPD	SANJAY		25/01/23	
	RUPESH		25/01/23	

DEPT. BDE	UNTOL.DIMS.GR. m		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —			—	—	—	—	—
TITLE W.ASSY. OF STRUCTURE FOR TYPE-18 FOR SPBD BOP & CHP					DRAWING NO. 32951617018		REV. 00
					SHT. NO. 02		NO. OF SHT. 02

SIZE -A3

First Angle Projection

All Dimensions in 'mm'

32951617009

DRAWING NO.

5000

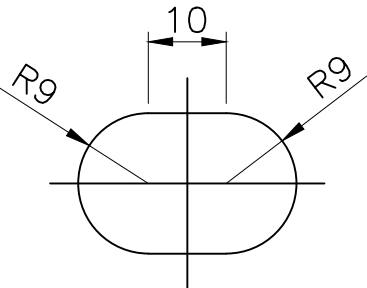
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34

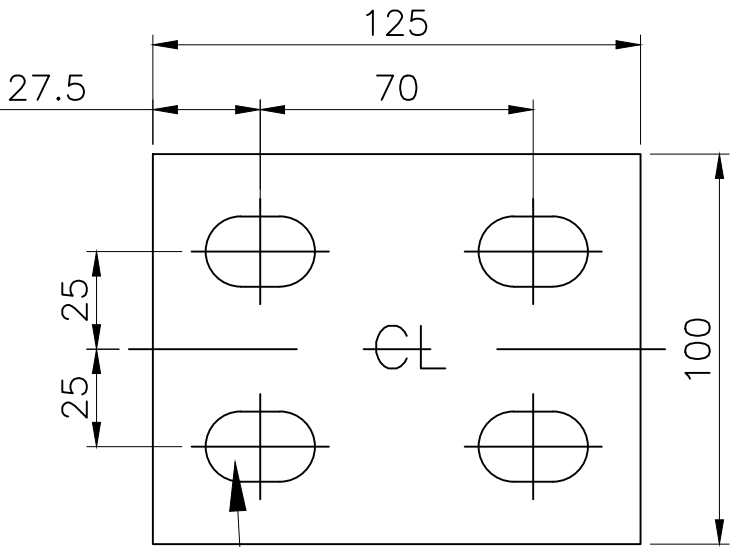
25
25

2x2 HOLE $\phi 18$

ITEM-001



DETAIL-A



4-SLOT SEE
DETAIL-A

ITEM-002

		002	8 TK x 100 x 125 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	0.676
		001	ISM 100 x 50 x 5 x 7.7 x 5000 LG.	SEE DETAIL		AA 10108	47.800
VAR 00	REMARKS	ITEM	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.
RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		25/08/21	
APPD	RUPESH		25/08/21	

REV.	DATE	ALTERED —
—	—	CHECKED —
		APPD. —

DEPT. BDE	UNTOL.DIMS.GR. m	SCALE —	WEIGHT(KG) —	REF. TO ASSY. DRG. —	ITEM NO. —	NO. OF ITEM —
CODE —						
TITLE W.ASSY. OF RUNNING/SUPPORT CHANNEL SEGREGATED PHASE BUSDUCT				DRAWING NO. 32951617009		REV. 00
				SHT. NO. 01	NO. OF SHT. 01	

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

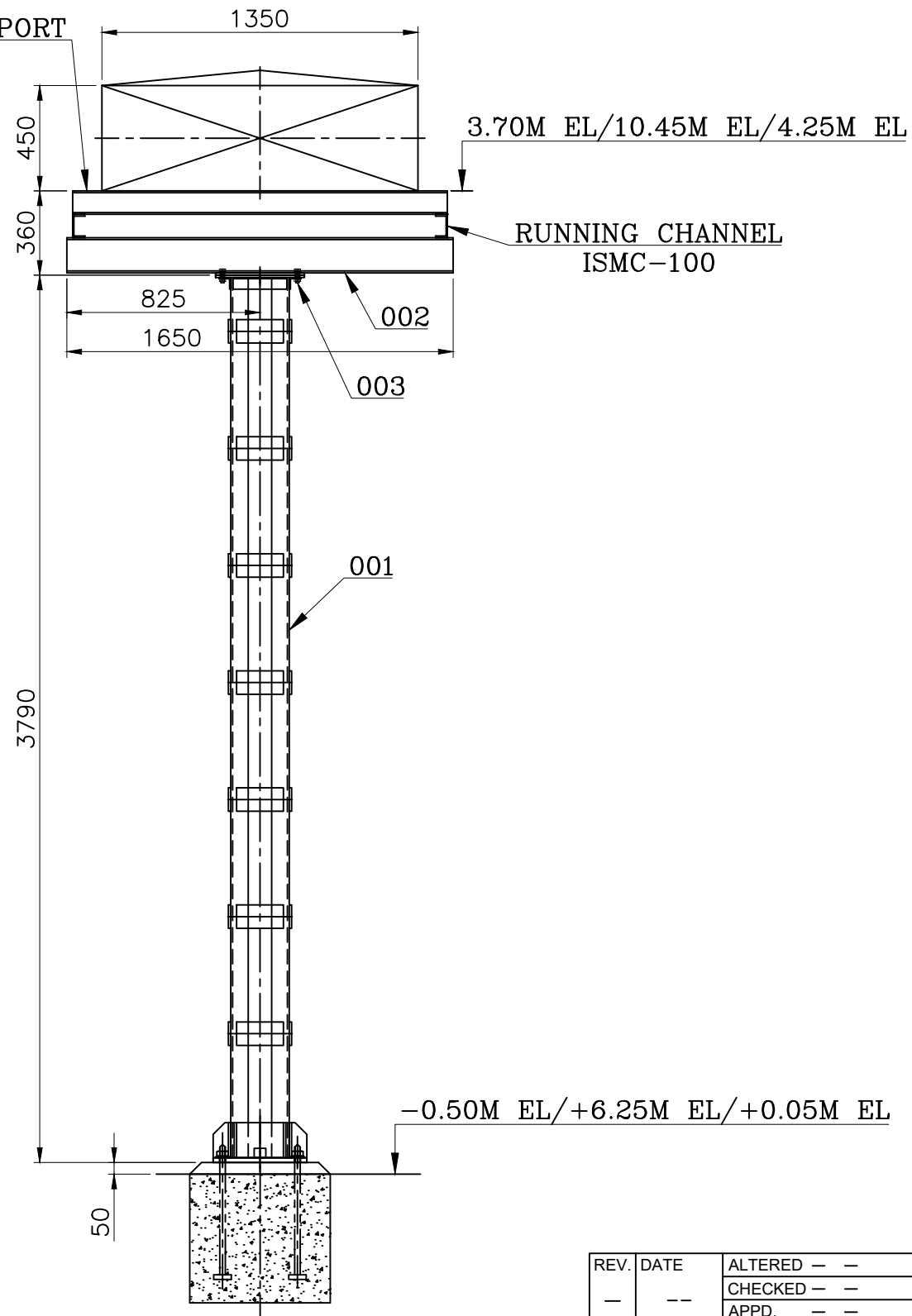
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First Angle Projection

All Dimensions in 'mm'

32951617015

DRAWING NO.

INSULATOR SUPPORT
CHANNEL

VAR.00

-0.50M EL/+6.25M EL/+0.05M EL

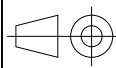
TYPE-15
FOR SPBD BOP STAGE-1 POCKET NO.- P1 & P2
FOR SPBD CHP ER-3 POCKET NO.- P1 TO P4
FOR SPBD CHP ER-5 POCKET NO.- P3 & P4

TOTAL NO. OF SET:- 8 NOS.

WT. FOR VAR.00 = 247.00 KGS.

004	-	003	FASTENER SET M16x55 LG 8.8 STEEL ZPP	31001000228	-	-	0.187
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SH-02 OF 02	04	-	001
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	02	-	001
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	01	-	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.

BILL OF QUANTITY

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
 BHARAT HEAVY ELECTRICALS LTD.		RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR
				DRN	SUNNY		25/01/23	
				CKD	SANJAY		25/01/23	
		APPD	RUPESH		25/01/23	—		
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	
CODE —	m		—	—	—	—	—	
TITLE					DRAWING NO.		REV.	
ASSY. OF STRUCTURE FOR TYPE-15 SPBD BOP & CHP					32951617015		00	
					SHT. NO. 01		NO. OF SHT. 02	

SIZE -A3

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR BOP CHP AHP.dwg Printed On :8/23/2023 10:07:21 AM

First Angle Projection

All Dimensions in 'mm'

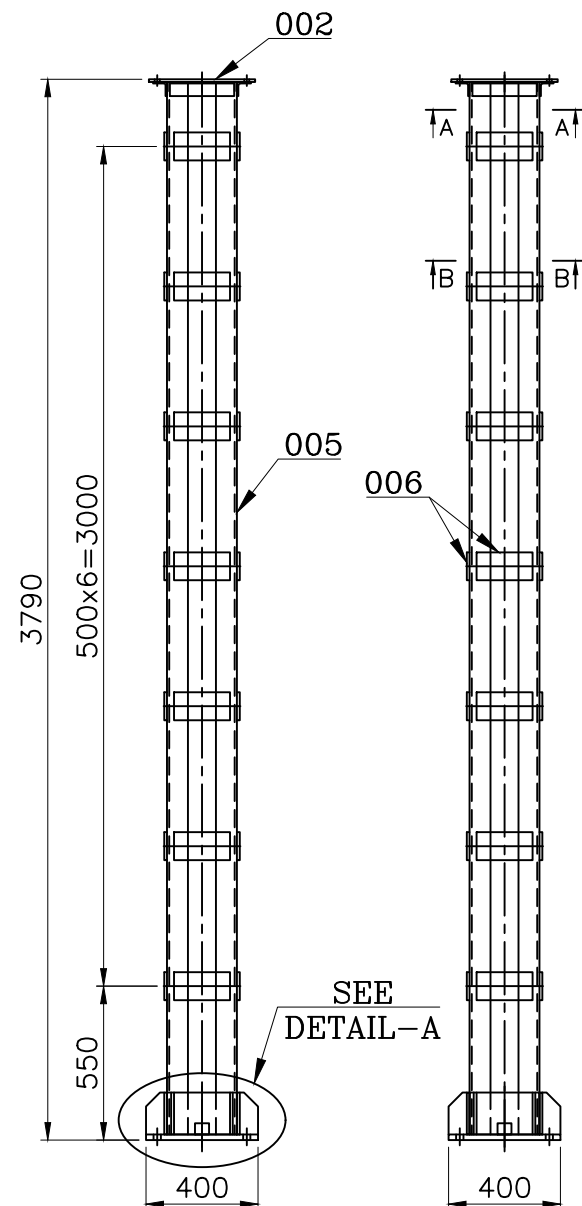
32951617015

DRAWING NO.

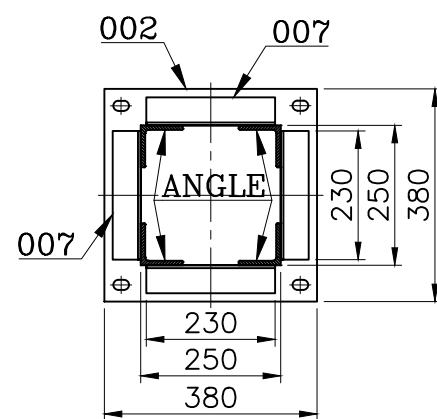
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SIGN. & DATE

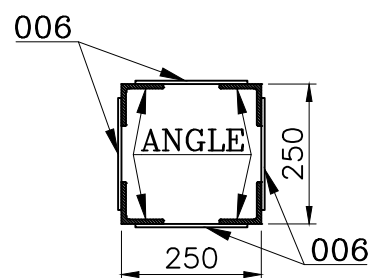
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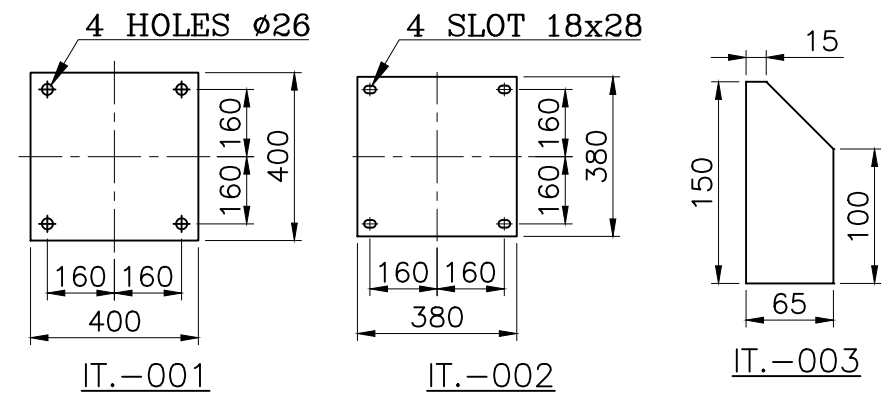
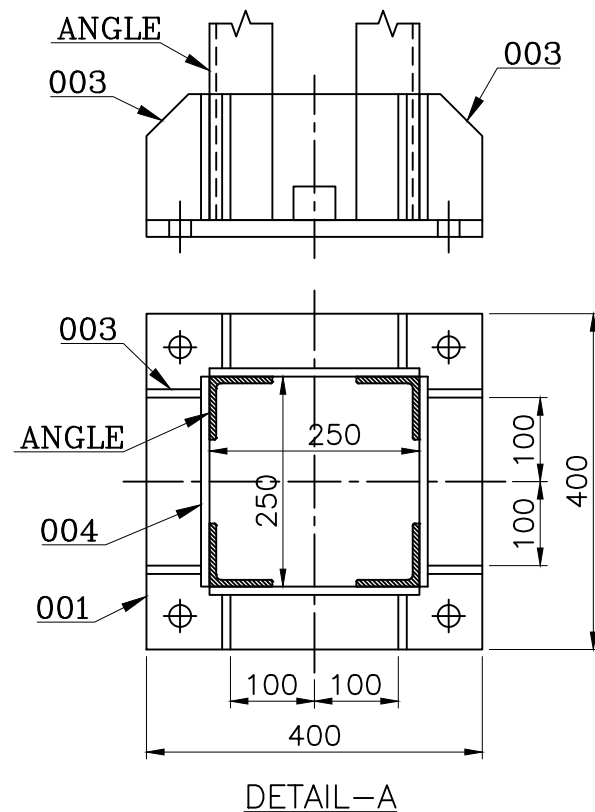
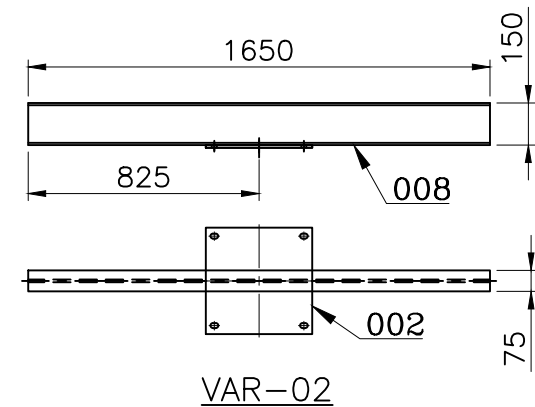
VAR-01



SECTION-"AA"



SECTION-"BB"



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.

35.95	210.31	← VAR. WT. IN 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	
	028	SIDE PLATE 006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.942 001	
	004	005	ISA 8TK. x75 x75 x 3760 LG.	S.C.O.		AA 101 08	33.464 001	
	004	-	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	1.751 001	
	008	-	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.449 001	
001	001	TOP PLATE 002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199 001	
	001	BASE PLATE 001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	24.787 001	
VAR 02	VAR 01	REMARKS	ITEM	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCL.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA

NAME OF CUSTOMER
TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA

BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT.	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
BDE	m					
CODE						
TITLE	W.ASSY. OF STRUCTURE FOR TYPE-15 SPBD BOP & CHP			DRAWING NO.	REV.	
				32951617015	00	
				SHT. NO. 02	NO. OF SHT.	02

SIZE -A3

First Angle Projection

All Dimensions in 'mm'

32951617016

DRAWING NO.

INSULATOR SUPPORT
CHANNEL

1350

5.90M EL / 8.65M EL

RUNNING CHANNEL
ISMC-100

450
360

825
1650

002
004

3990

001

1.50M EL / 4.25M EL

50

VAR.00

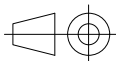
TYPE-16
FOR SPBD BOP STAGE-2 POCKET NO.- P1 & P2
FOR SPBD CHP ER-4 POCKET NO.- P1 TO P4

TOTAL NO. OF SET:- 06 NOS.

WT. FOR VAR.00 = 360.85 KGS.

012	-	004	FASTENER SET M16x55 LG 8.8 STEEL ZPP	31001000228	-	-	0.187
					04	-	001
001	-	003	W.A. OF TIE BEAM	THIS DRG. SH-02 OF 02	-	-	42.66
					03	-	001
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SH-02 OF 02	-	-	88.25
					02	-	001
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	-	-	227.69
					01	-	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.

BILL OF QUANTITY

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
	RUDRAPUR		CKD	SANJAY		25/01/23	-
			APPD	RUPESH		25/01/23	-
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	
CODE -	m		-	-	-	-	-
TITLE				DRAWING NO.	REV.		
ASSY. OF STRUCTURE FOR TYPE-16 SPBD BOP & CHP				32951617016	00		
				SHT. NO. 01	NO. OF SHT. 02		

SIZE -A3

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

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR BOP CHP AHP.dwg Printed On :8/23/2023 10:07:22 AM

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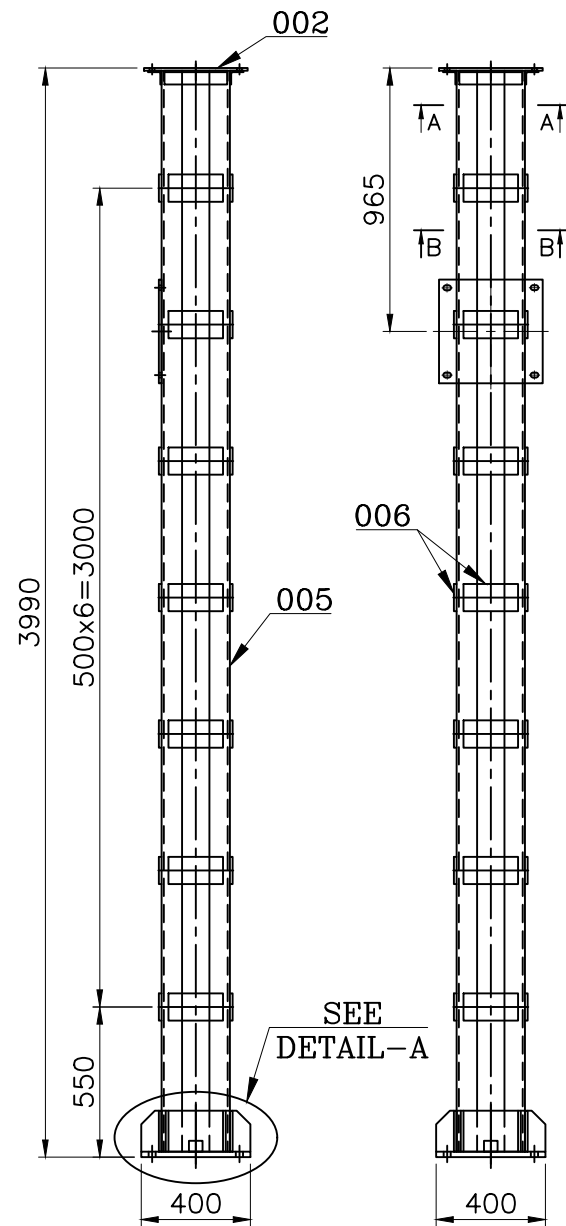
INVENTORY NO. SIGN. & DATE REF. DRG. NO.

First Angle Projection

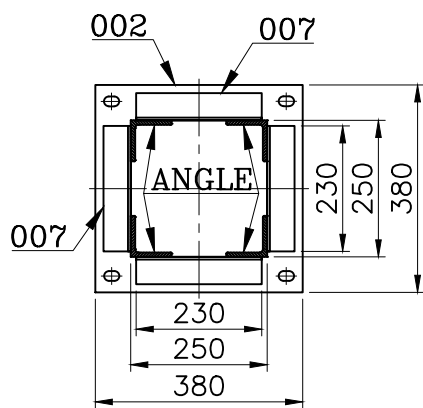
All Dimensions in 'mm'

32951617016

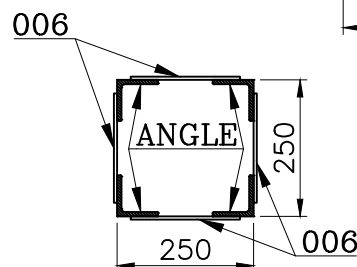
DRAWING NO.



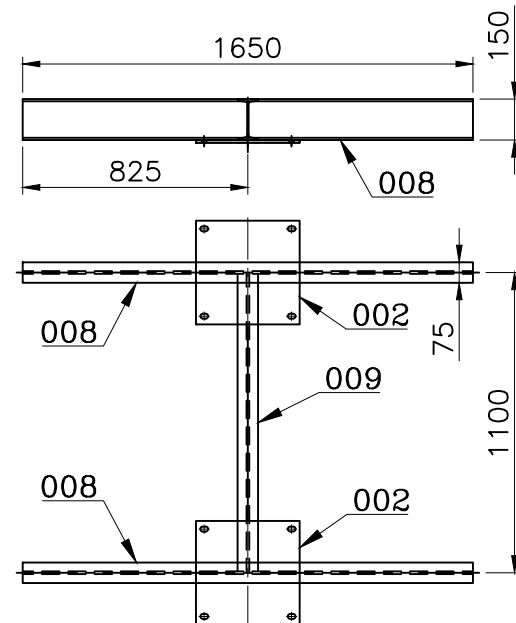
VAR-01



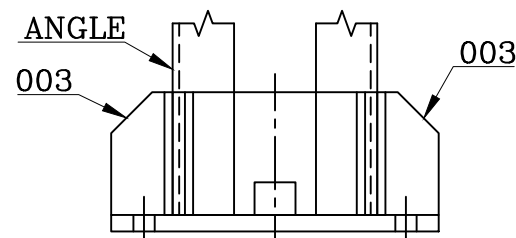
SECTION-AA



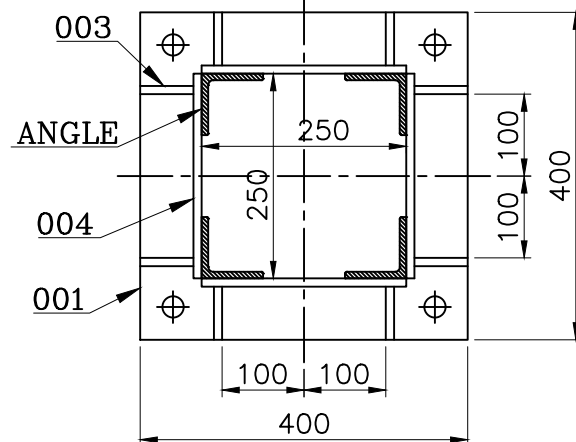
SECTION-BB



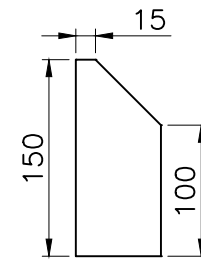
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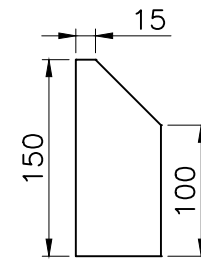
IT.-003



DETAIL-A



VAR-03



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.

42.66	88.25	227.69	VAR. WT. IN KG.						
001				010	ISMB 150 x75 x5 x8x 1501 LG.	SEE DETAIL		AA 101 08	20.265
	001			009	ISMB 150 x75 x5 x8x 1090 LG.	S.C.D.		AA 101 08	16.350
	002			008	ISMB 150 x75 x5 x8x 1650 LG.	S.C.D.		AA 101 08	24.750
		004		007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.D.		AA 101 08	0.871
		027	SIDE PLATE	006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.942
		004		005	ISA 8TK. x75 x75 x 3960 LG.	S.C.D.		AA 101 08	35.244
		004	-	004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	1.751
		008	-	003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.449
002	002	002	TOP PLATE	002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199
		001	BASE PLATE	001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	24.787
VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCH.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m					
TITLE	W.ASSY. OF STRUCTURE FOR TYPE-16 SPBD BOP & CHP			DRAWING NO.	32951617016	REV. 00
SHT. NO. 02		NO. OF SHT. 02				

SIZE -A3

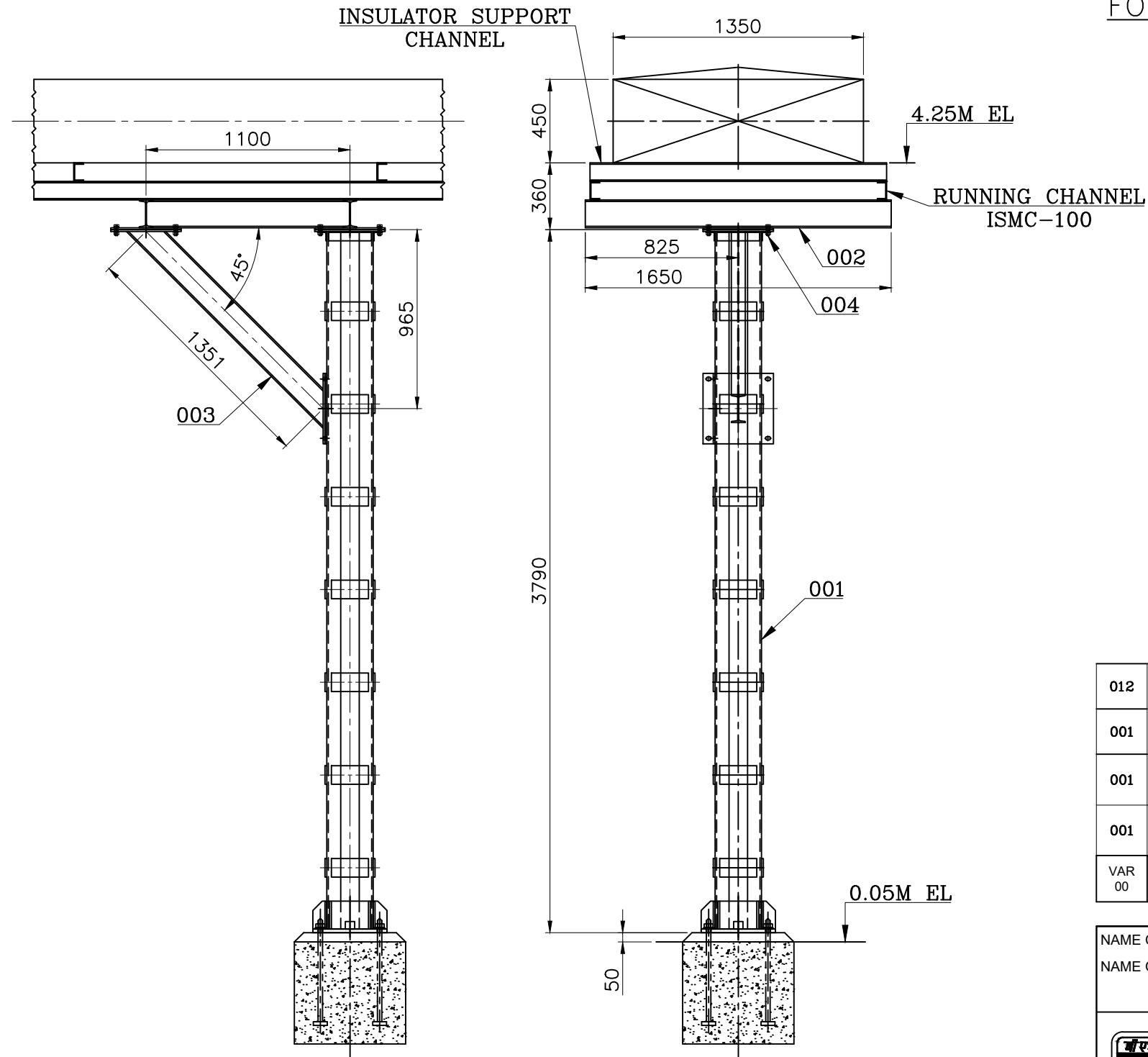
First Angle Projection

All Dimensions in 'mm'

32951617017

DRAWING NO.

TYPE-17
FOR SPBD CHP ER-5 POCKET NO.- P1 & P2

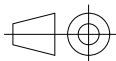


TOTAL NO. OF SET:- 02 NOS.

WT. FOR VAR.00 = 353.73 KGS.

012	-	004	FASTENER SET M16x55 LG 8.8 STEEL ZPP	31001000228	-	-	0.187
					04	-	001
001	-	003	W.A. OF TIE BEAM	THIS DRG. SH-02 OF 02	-	-	42.66
					03	-	001
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SH-02 OF 02	-	-	88.25
					02	-	001
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	-	-	220.57
					01	-	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.

BILL OF QUANTITY

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
 BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR	
		CKD	SANJAY		25/01/23	-	
		APPD	RUPESH		25/01/23	-	
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE	m		-	-		-	-
TITLE				DRAWING NO.		REV.	
ASSY. OF STRUCTURE FOR TYPE-17 SPBD BOP & CHP				32951617017		00	
SHT. NO.		01		NO. OF SHT.		02	

SIZE -A3

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

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR BOP CHP AHP.dwg Printed On :6/23/2023 10:07:23 AM

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED.
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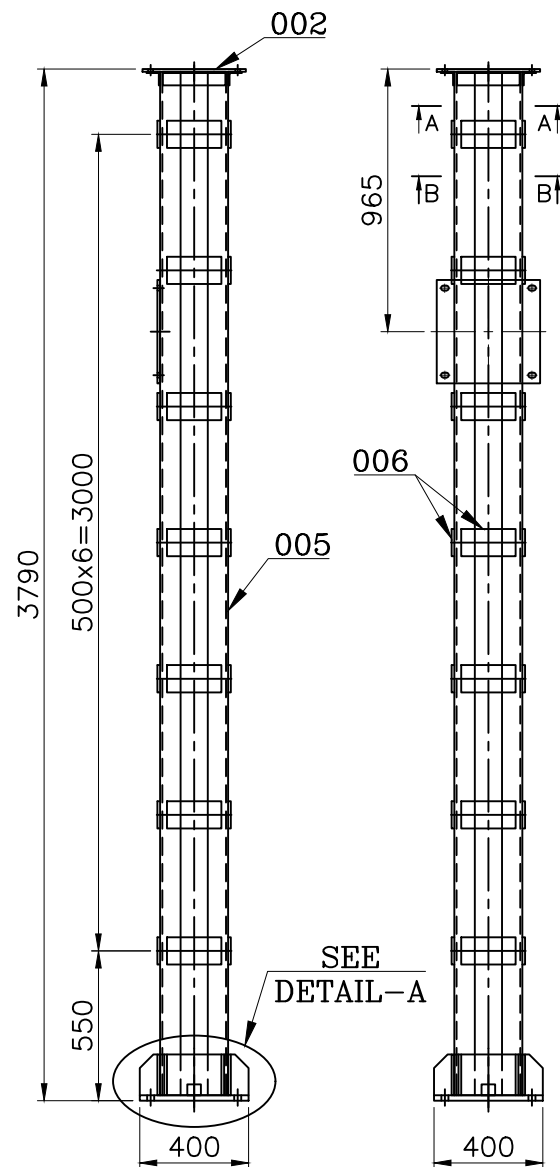
INVENTORY NO. SIGN. & DATE REF. DRG. NO.

First Angle Projection

All Dimensions in 'mm'

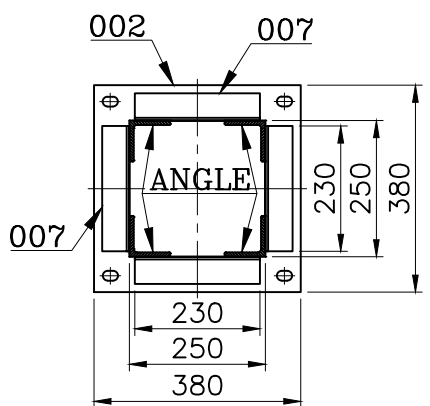
32951617017

DRAWING NO.

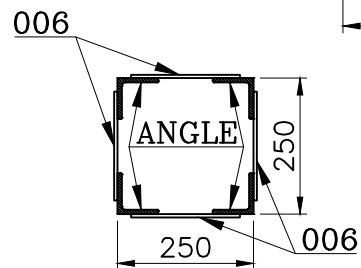


SEE
DETAIL-A

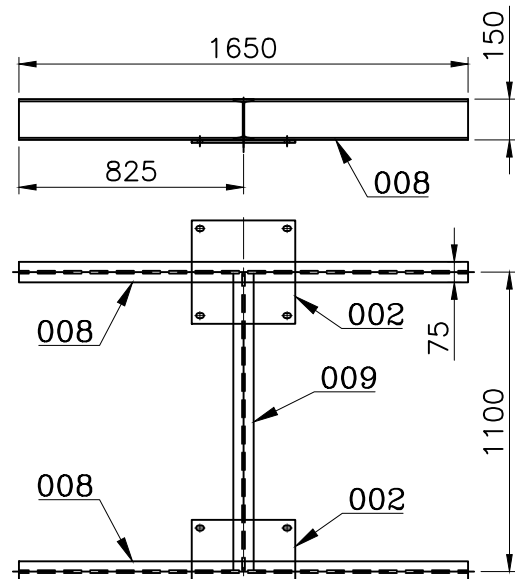
VAR-01



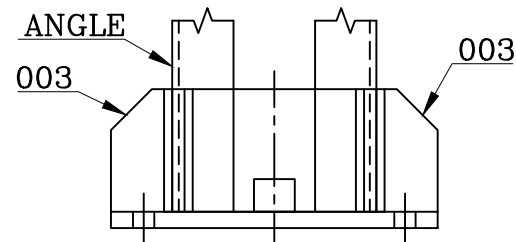
SECTION-AA



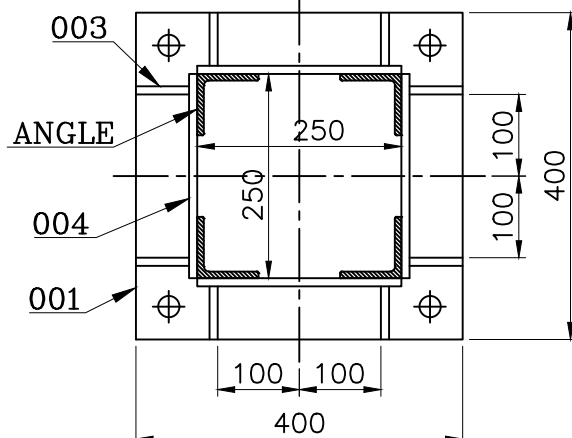
SECTION-BB



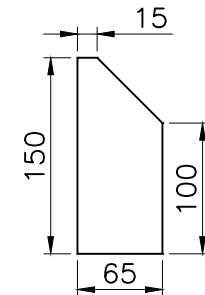
VAR-02



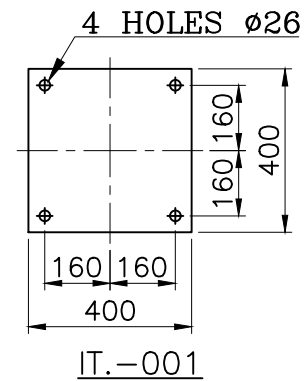
IT.-003



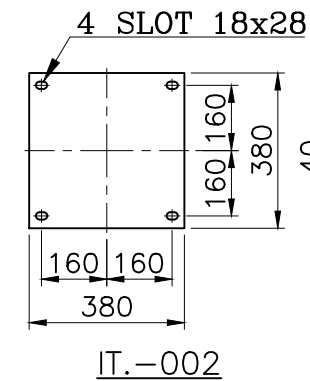
DETAIL-A



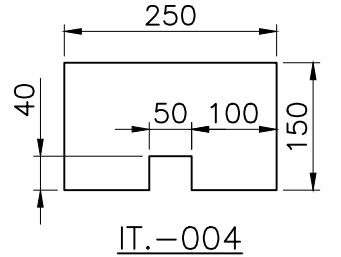
VAR-03



IT.-001



IT.-002



IT.-004

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.

42.66	88.25	220.57	VAR. WT. IN KG.						
001				010	ISMB 150 x75 x5 x8x 1501 LG.	SEE DETAIL	AA 101 08	20.265	001
	001			009	ISMB 150 x75 x5 x8x 1090 LG.	S.C.D.	AA 101 08	16.350	001
	002			008	ISMB 150 x75 x5 x8x 1650 LG.	S.C.D.	AA 101 08	24.750	001
	004			007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.D.	AA 101 08	0.871	001
	027	SIDE PLATE		006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	0.942	001
	004			005	ISA 8TK. x75 x75 x 3760 LG.	S.C.D.	AA 101 08	33.464	001
	004	-		004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	1.751	001
	008	-		003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	0.449	001
002	002	002	TOP PLATE	002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	11.199	001
	001	001	BASE PLATE	001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	24.787	001
VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE CODE	UNTOL.DIMS.GR. m	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
TITLE	W.ASSY. OF STRUCTURE FOR TYPE-17 SPBD BOP & CHP	DRAWING NO. 32951617017	REV. 00	SHT. NO. 02	NO. OF SHT. 02	

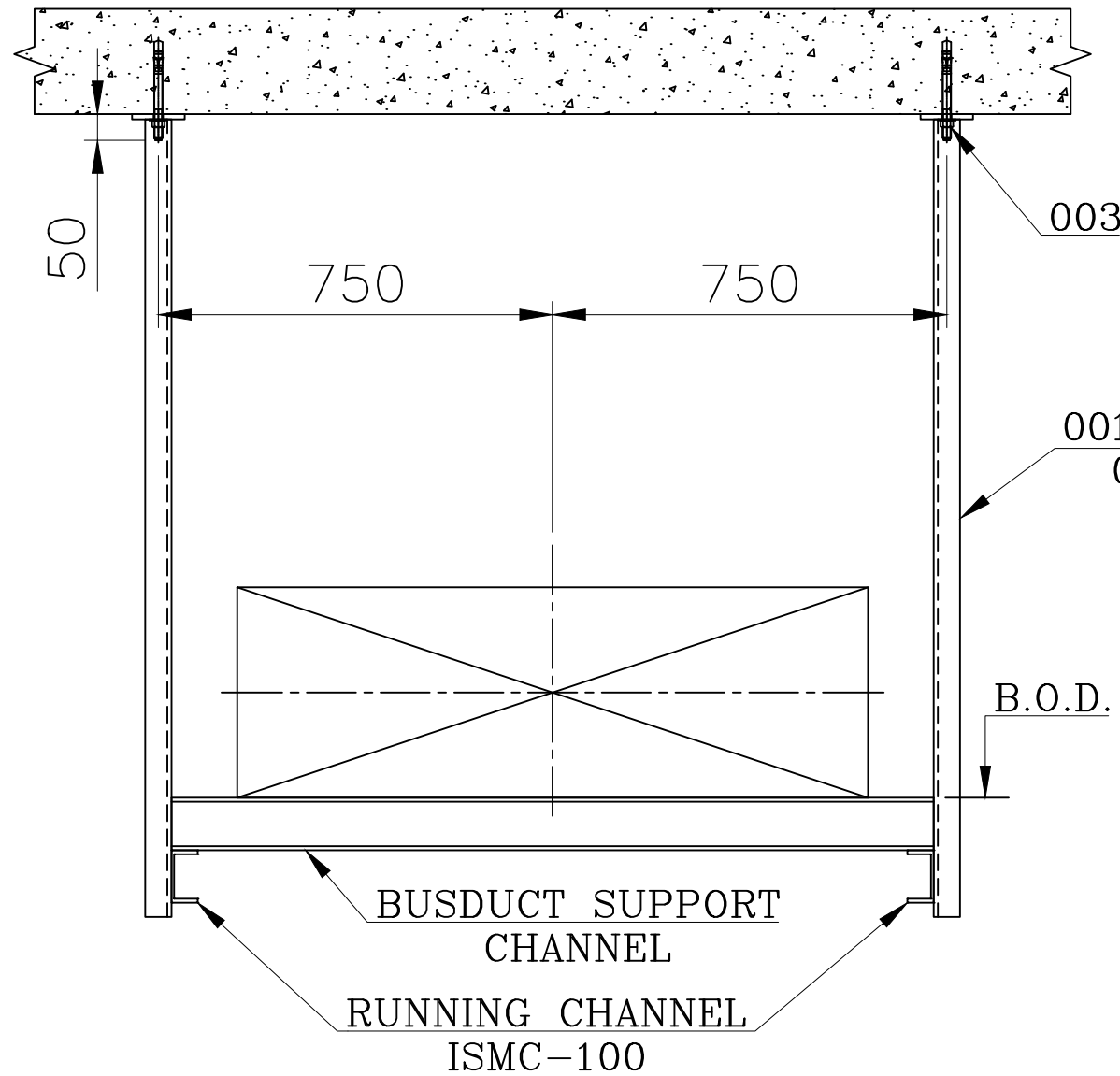
SIZE -A3

First Angle Projection

All Dimensions in 'mm'

32951617018

DRAWING NO.



TYPE-18			
SPBD BOP STAGE-1	VAR.01	=	4 SET
SPBD BOP STAGE-1	VAR.02	=	3 SET
SPBD BOP STAGE-2	VAR.00	=	4 SET
SPBD BOP STAGE-2	VAR.02	=	3 SET
SPBD CHP ER-3	VAR.03	=	8 SET
SPBD CHP ER-3	VAR.04	=	6 SET
SPBD CHP ER-4	VAR.04	=	14 SET
SPBD CHP ER-5	VAR.04	=	14 SET

TOTAL NO. OF SET:-
VAR.00 = 04 NOS.
VAR.01 = 04 NOS.
VAR.02 = 06 NOS.
VAR.03 = 08 NOS.
VAR.04 = 34 NOS.

004	004	004	004	004	-	006	ANCHORE FASTENER M16x165 LG.	-	-	-	26.51	001
002	-	-	-	-	-	005	W.A. OF HANGER 2725 LG.	THIS DRG. SH-02 OF 02	-	-	27.23	001
-	002	-	-	-	-	004	W.A. OF HANGER 2425 LG.	THIS DRG. SH-02 OF 02	-	-	24.36	001
-	-	002	-	-	-	003	W.A. OF HANGER 2000 LG.	THIS DRG. SH-02 OF 02	-	-	20.30	001
-	-	-	002	-	-	002	W.A. OF HANGER 1600 LG.	THIS DRG. SH-02 OF 02	-	-	16.48	001
-	-	-	-	002	-	001	W.A. OF HANGER 1400 LG.	THIS DRG. SH-02 OF 02	-	-	14.56	001
VAR 04	VAR 03	VAR 02	VAR 01	VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.	GS

BILL OF QUANTITY

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA				
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA				
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	25/01/23	NO. OF VAR
	RUDRAPUR		CKD	SANJAY	25/01/23	
			APPD	RUPESH	25/01/23	
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m					
TITLE				DRAWING NO.		REV.
ASSY. OF STRUCTURE FOR TYPE-18 FOR SPBD BOP & CHP				32951617018		00
				SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR BOP CHP AHP.dwg Printed On :8/23/2023 10:07:24 AM

First Angle Projection

All Dimensions in 'mm'

32951617018

DRAWING NO.

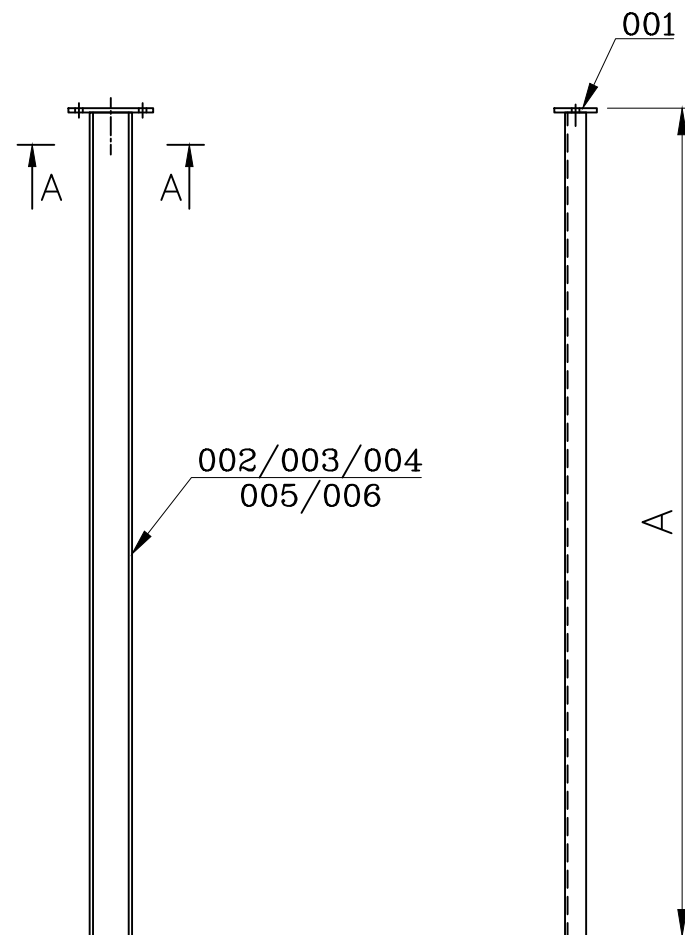


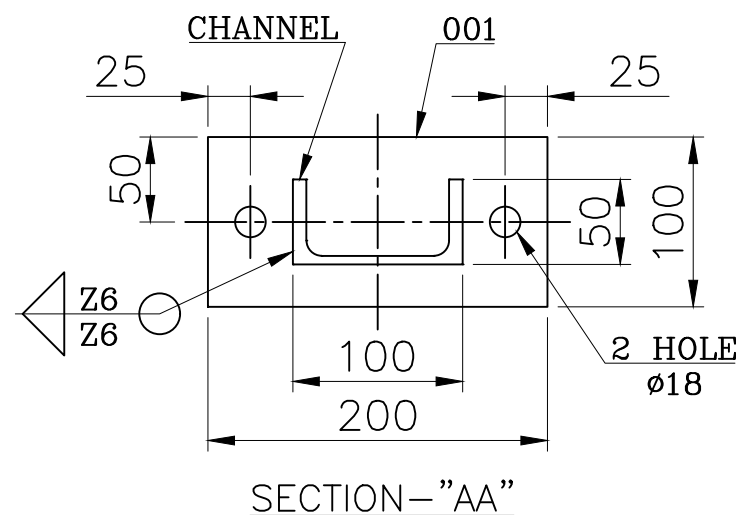
TABLE-1

VAR.	DIM - 'A'
05	1400
06	1600
07	2000
08	2425
09	2725

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.

VAR.05/06/07/08/09



09	08	07	06	05	VAR. NO.						
27.23	24.36	20.30	16.48	14.56	WEIGHT IN KG.						
001						006	ISMC 100 x50 x5 x7.7x 2717 LG.	S.C.O.		25.975	
	001					005	ISMC 100 x50 x5 x7.7x 2417 LG.	S.C.O.		23.107	
		001				004	ISMC 100 x50 x5 x7.7x 1992 LG.	S.C.O.		19.044	
			001			003	ISMC 100 x50 x5 x7.7x 1592 LG.	S.C.O.		15.220	
				001		002	ISMC 100 x50 x5 x7.7x 1392 LG.	S.C.O.		13.308	
001	001	001	001	001		001	8 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		1.256	
VAR 09	VAR 08	VAR 07	VAR 06	VAR 05	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA

NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA

BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		25/01/23	
APPD	SANJAY		25/01/23	
	RUPESH		25/01/23	

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m					
TITLE	W.ASSY. OF STRUCTURE FOR TYPE-18 FOR SPBD BOP & CHP			DRAWING NO.	32951617018	REV. 00
		SHT. NO. 02			NO. OF SHT. 02	

SIZE -A3

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SIGN. & DATE

REF. DRG. NO.

INVENTORY NO.

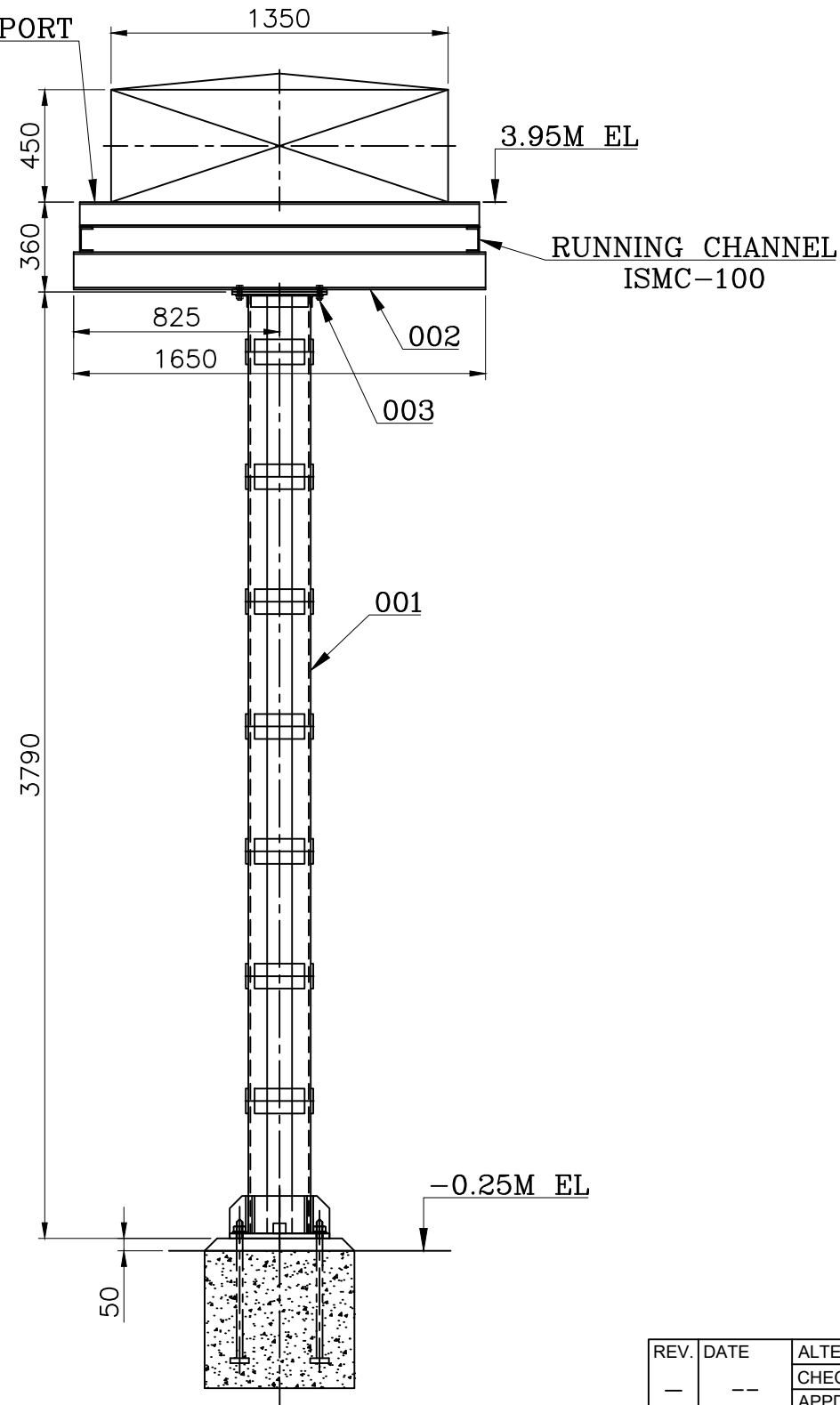
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First Angle Projection

All Dimensions in 'mm'

32951617019

DRAWING NO.

INSULATOR SUPPORT
CHANNEL

VAR.00

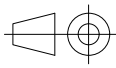
TYPE-19
FOR SPBD AHP ER-1 POCKET NO.- P1 & P2
FOR SPBD AHP ER-2 POCKET NO.- P1 & P2
FOR SPBD AHP ER-3 POCKET NO.- P1 & P2

TOTAL NO. OF SET:- 6 NOS.

WT. FOR VAR.00 = 247.00 KGS.

004	-	003	FASTENER SET M16x55 LG 8.8 STEEL ZPP	31001000228	-	-	0.187
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SH-02 OF 02	04	-	001
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	02	-	001
001	-	001	W.A. OF COLUMN	THIS DRG. SH-02 OF 02	01	-	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.

BILL OF QUANTITY

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
	RUDRAPUR		CKD	SANJAY		15/04/23	-
			APPD	RUPESH		15/04/23	-
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	REV.
CODE -	m		-	-	-	-	00
TITLE				DRAWING NO.			
ASSY. OF STRUCTURE FOR TYPE-19 SPBD AHP-ER-1 & AHP-ER-2				32951617019			
				SHT. NO. 01	NO. OF SHT. 02		

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

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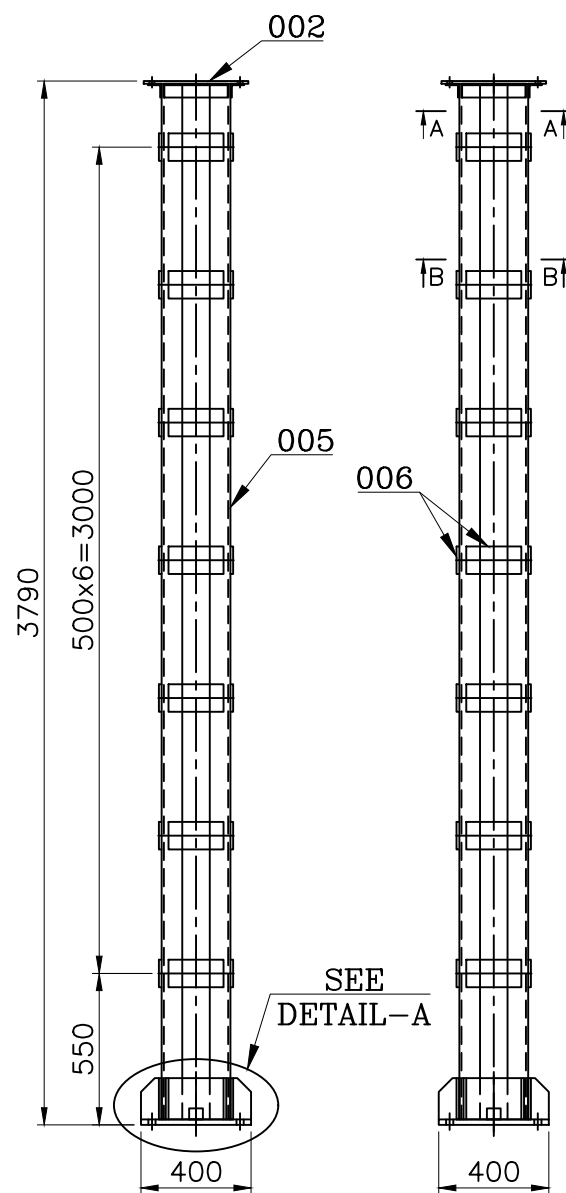
All Dimensions in 'mm'

DRAWING NO.

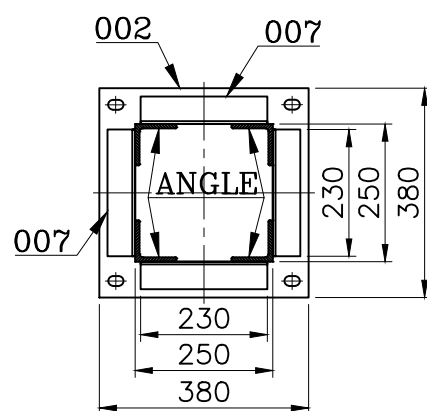
THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

SIGN. & DATE _____ TREF. DRG. NO. _____

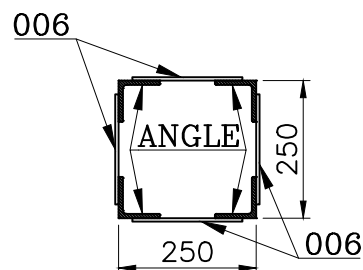
INVENTORY NO.



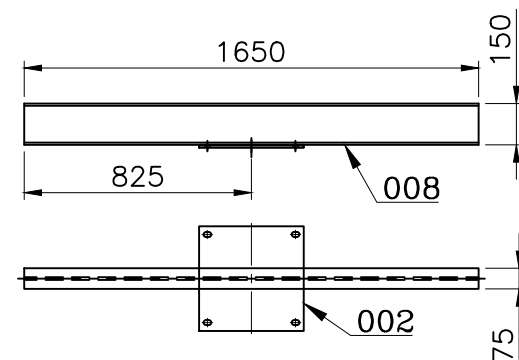
VAR-01



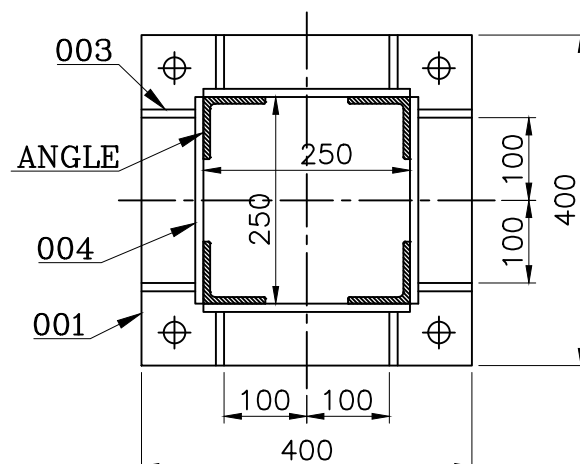
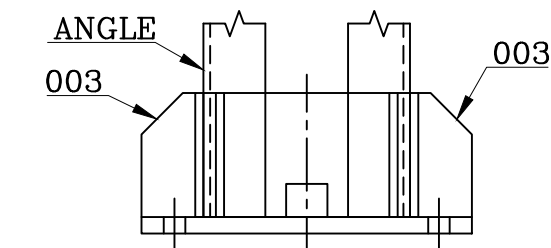
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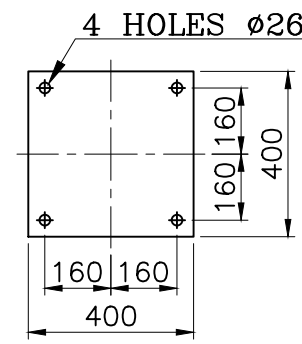
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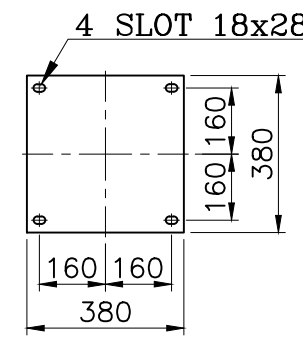
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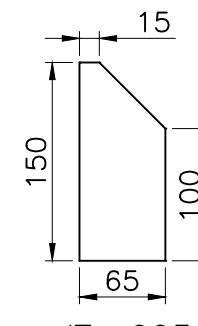
DETAIL-A



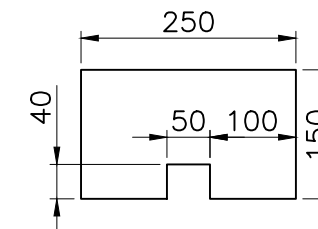
IT.-001



IT.-002



IT.-003



IT.-004

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.

35.95	210.31	← VAR. WT. IN KG.						
001			008	ISMB 150 x75 x5 x8x 1650 LG.	S.C.O.		AA 101 08	24.750 001
	004		007	ISA STK. x 50 x 50 x 230 LG.	S.C.O.		AA 101 08	0.874 001
	028	SIDE PLATE	006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.942 001
	004		005	ISA 8TK. x75 x75 x 3760 LG.	S.C.O.		AA 101 08	33.464 001
	004	-	004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	1.751 001
	008	-	003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	0.449 001
001	001	TOP PLATE	002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	11.199 001
	001	BASE PLATE	001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	24.787 001
VAR 02	VAR 01	REMARKS	ITEM	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT	5x800 MW YADADRI TPS, NALGONDA
-----------------	--------------------------------

NAME OF CUSTOMER	TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA
------------------	--



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

	NAME	SIGN	DATE	NO. OF VAR
DRN	SUNNY		15/04/23	
CKD	SANJAY		15/04/23	
APPD	RUPESH		15/04/23	

DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—

TITLE	W.ASSY. OF STRUCTURE FOR TYPE-19 SPBD AHP-ER-1 & AHP-ER-2
-------	--

DRAWING NO.	32951617019
-------------	-------------

SHT. NO.	02	NO. OF SHT.	02
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SIZE -A3

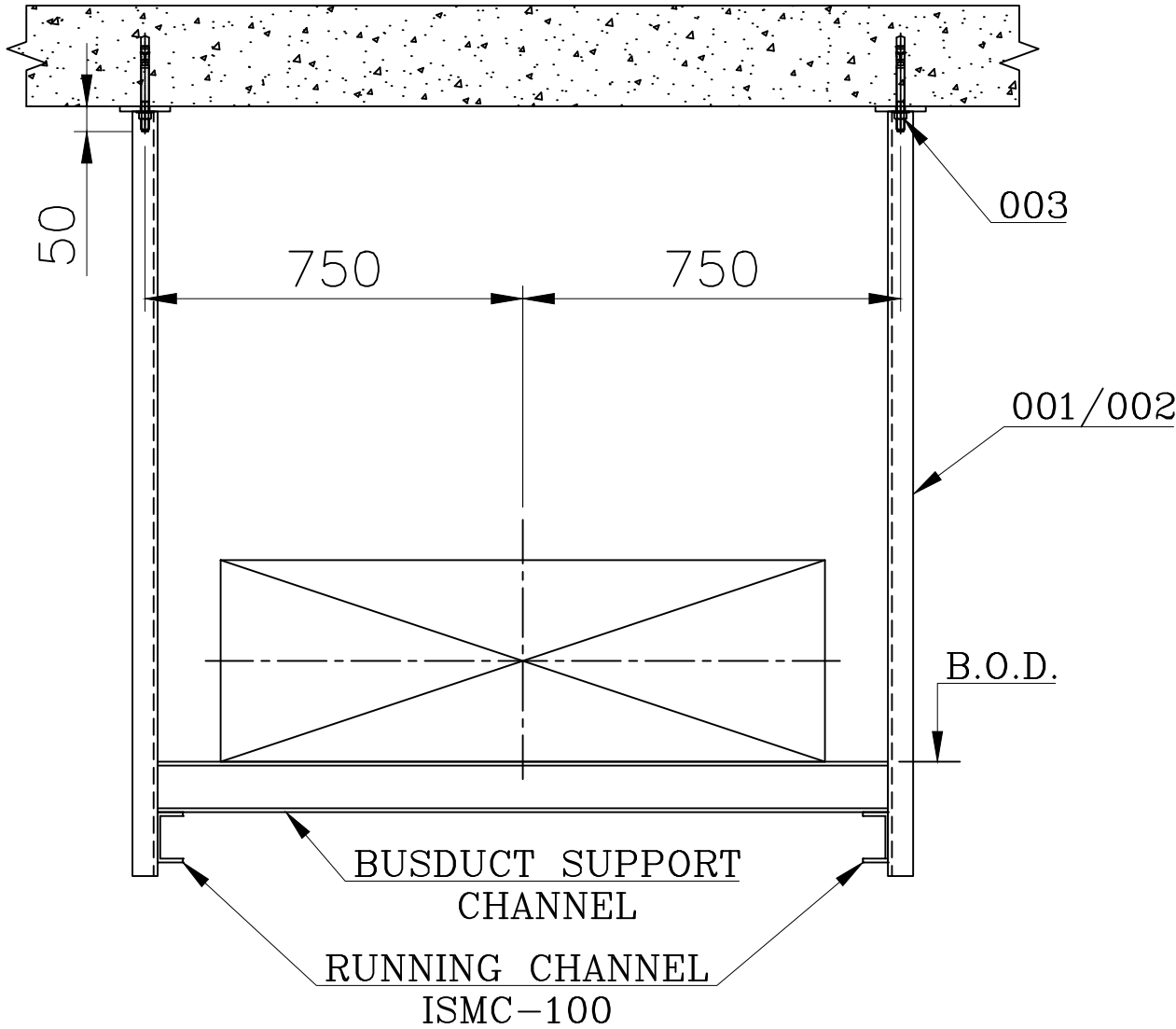
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First Angle Projection

All Dimensions in 'mm'

32951617020

DRAWING NO.

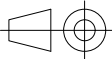


VAR.00/01

TYPE-18			
SPBD AHP ER-1	VAR.00	=	4 SET
SPBD AHP ER-1	VAR.01	=	2 SET
SPBD AHP ER-2	VAR.00	=	4 SET
SPBD AHP ER-2	VAR.01	=	4 SET
SPBD AHP ER-3	VAR.00	=	4 SET
SPBD AHP ER-3	VAR.01	=	4 SET

TOTAL NO. OF SET:-
VAR.00 = 12 NOS.
VAR.01 = 10 NOS.

004	004	-	003	ANCHORE FASTENER M16x165 LG.	-	-	-	001
002	-	-	002	W.A. OF HANGER 2850 LG.	THIS DRG. SH-02 OF 02	03	-	28.43
-	002	-	001	W.A. OF HANGER 2200 LG.	THIS DRG. SH-02 OF 02	02	-	22.21
VAR 01	VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR	MATL. CODE MATL. SPECN.	WT(KG) QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR	
		DRN	SUNNY		15/04/23	—	
		CKD	SANJAY		15/04/23		
		APPD	RUPESH		15/04/23		
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE					DRAWING NO.		REV.
ASSY. OF STRUCTURE FOR TYPE-20 FOR SPBD AHP-ER-1 & AHP-ER-1					32951617020		00
					SHT. NO.	NO. OF SHT.	
					01	02	

SIZE -A3

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SIGN. & DATE

REF. DRG. NO.

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR BOP CHP AHP.dwg Printed On :8/23/2023 10:07:26 AM

First Angle Projection

All Dimensions in 'mm'

32951617020

DRAWING NO.

001

A

002/003/004

005/006

A

001

VAR.02/03

CHANNEL

001

25

25

50

50

100

200

2 HOLE

ø18

SECTION-"AA"

Z6

Z6

TABLE-1

VAR.	DIM - 'A'
02	2200
03	2850

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.

03

02

VAR. NO.

28.43

22.21

WEIGHT IN KG.

001		003	ISMC 100 x50 x5 x7.7x 2842 LG.	S.C.O.			27.170
	001	002	ISMC 100 x50 x5 x7.7x 2192 LG.	S.C.O.		AA 101 08	001
							20.956
001	001	001	8 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	001
							1.256
						AA 101 08	001

VAR

VAR

REMARKS

ITEM NO.

DESCRIPTION

DRAWING NO.

IT. NO.

MAT. CODE

WT.

03

02

VAR.

MAT. SPCN.

QTY.

NAME OF PROJECT

5x800 MW YADADRI TPS, NALGONDA

NAME OF CUSTOMER

TELANGANA STATE POWER GENERATION CORPORATION LTD

TELANGANA, INDIA

BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DRN

SUNNY

15/04/23

CKD

SANJAY

15/04/23

APPD

RUPESH

15/04/23

DEPT.

BDE

CODE

UNTOL.DIMS.GR.

m

SCALE

WEIGHT(KG)

REF. TO ASSY. DRG.

ITEM NO.

NO. OF ITEM

TITLE

W.ASSY. OF STRUCTURE FOR TYPE-20 FOR SPBD AHP-ER-1 & AHP-ER-2

DRAWING NO.

32951617020

REV.

00

SHT. NO.

02

NO. OF SHT.

02

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR BOP CHP AHP.dwg Printed On :8/23/2023 10:07:26 AM

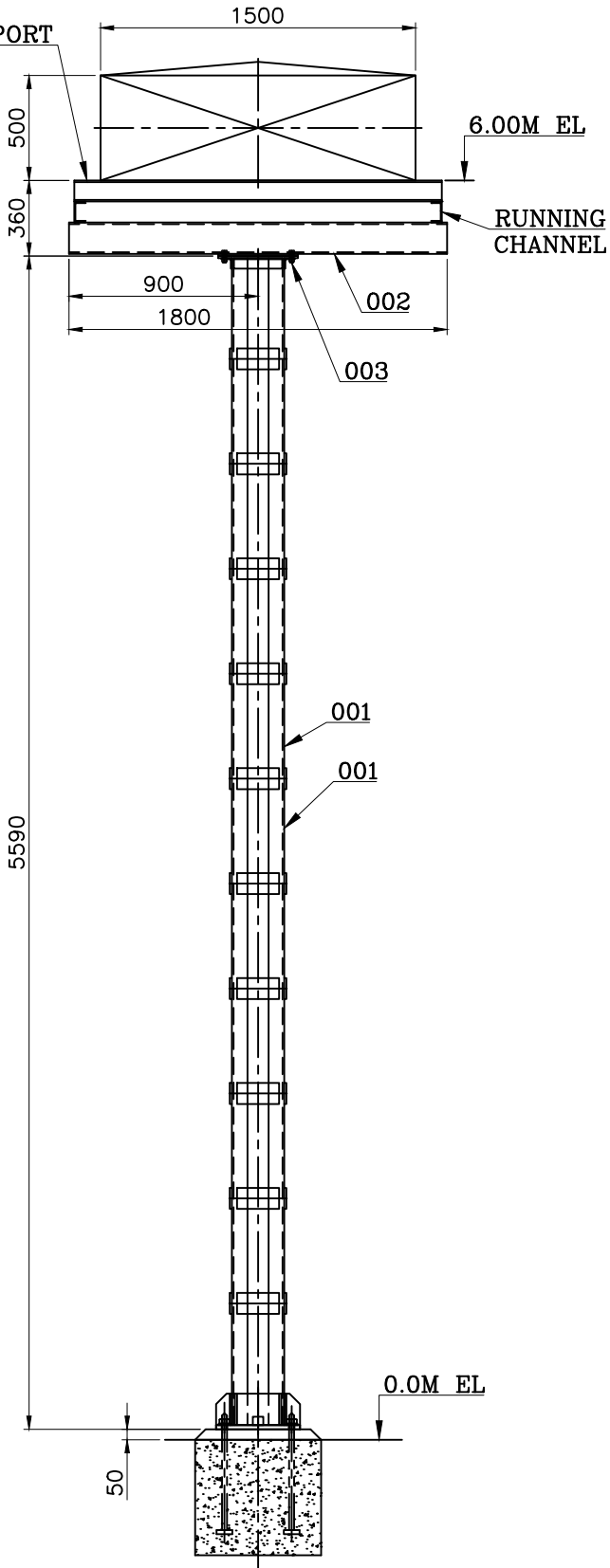
First Angle Projection

All Dimensions in 'mm'

32951617001

DRAWING NO.

INSULATOR SUPPORT
CHANNEL



VAR.00

TYPE-1
FOR SPBD POCKET NO.-
P7, P8, P43, P44
P55, P56, P67, P68, P124, P125

TOTAL NO. OF SET:-
UNIT# 1 & 2 = 04 NOS.
UNIT# 3, 4 & 5 = 06 NOS.

WT. FOR VAR.00 = 324.65 KGS.

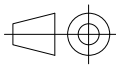
004	-	003	SCRU HEX A M16X55 LG. 8.8 STEEL-ZPP (SET)	31001000228	04	0.187	001
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02	38.20	001
001	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01	285.70	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA

	BHARAT HEAVY ELECTRICALS LTD.		NAME	SIGN	DATE	NO. OF VAR
	DRN	SUNNY			25/08/21	
	CKD	SANJAY			25/08/21	
	APPD	RUPESH			25/08/21	-

REV.	DATE	ALTERED - SANJAY
01	07.10.21	CHECKED - RUPESH
		APPD. - RUPESH

UNIT# 3, 4 & 5 QTY. ADDED.

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE -	m		-	-	-	-
TITLE				DRAWING NO.	REV.	
ASSY. OF STRUCTURE FOR TYPE-1 SEGREGATED PHASE BUSDUCT				32951617001	01	
				SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

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SIGN. & DATE

REF. DRG. NO.

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR UNIT ALL UNIT.dwg Printed On :10/20/2023 4:37:56 PM

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SIGN. & DATE

INVENTORY NO.

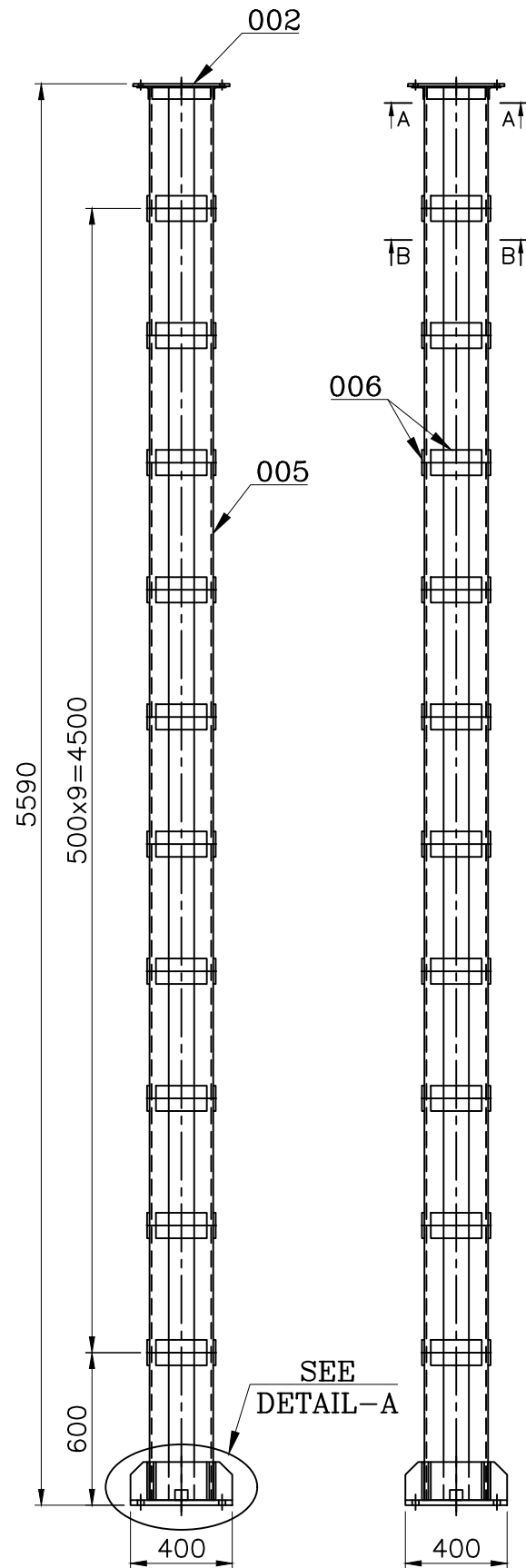
REF. DRG. NO.

32951617001

DRAWING NO.

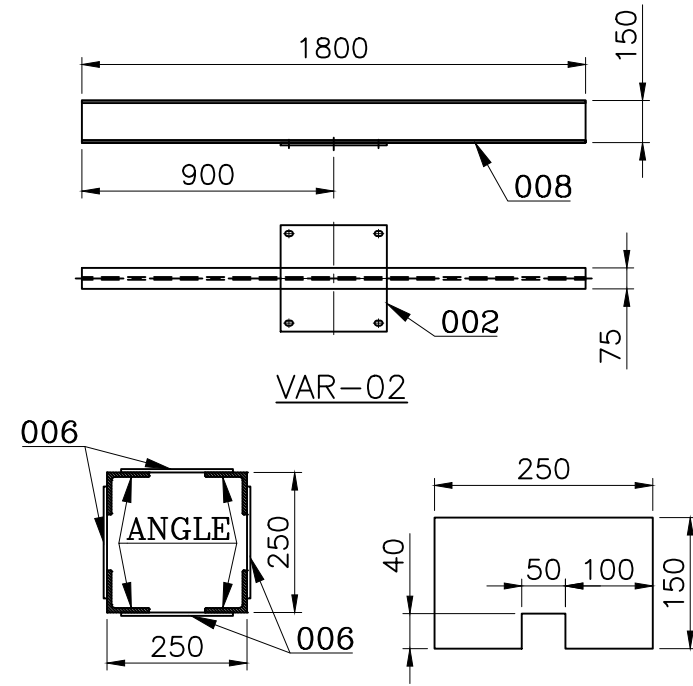
First Angle Projection

All Dimensions in 'mm'



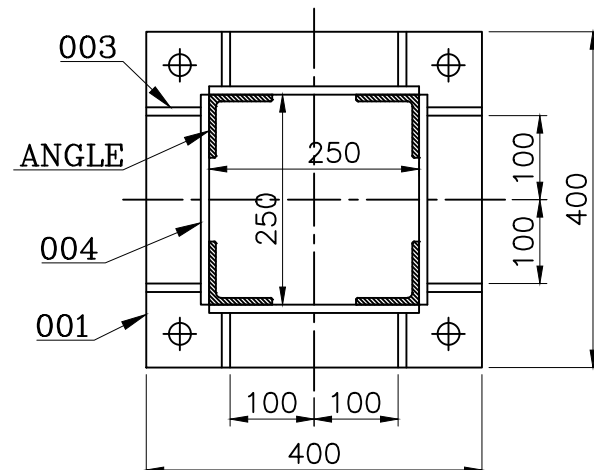
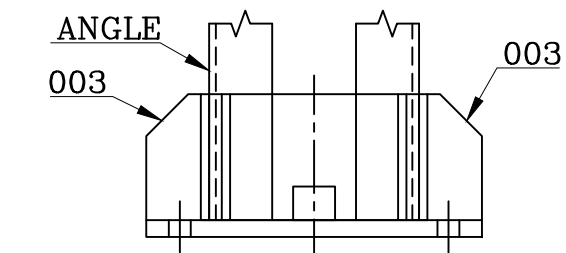
VAR-01

SEE
DETAIL-A



SECTION-"BB"

IT.-004



DETAIL-A

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.

38.20	285.70	VAR. WT. IN KG.						
001		008	ISMB 150 x75 x5 x8x 1800 LG.	S.C.O.		AA 10108	27.000	001
	004	007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 10108	0.871	001
	040	SIDE PLATE 006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	0.942	001
	004	005	ISA 8TK. x75 x75 x 5560 LG.	S.C.O.		AA 10108	49.484	001
	004	-	004 6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	1.751	001
	008	-	003 6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	0.149	001
001	001	TOP PLATE 002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	11.199	001
	001	BASE PLATE 001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	24.787	001
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPEN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE	UNTOL.DIMS.GR. m	SCALE -	WEIGHT(KG) -	REF. TO ASSY. DRG. -	ITEM NO. -	NO. OF ITEM -
TITLE W.ASSY. OF STRUCTURE FOR TYPE-1 SEGREGATED PHASE BUSDUCT	DRAWING NO. 32951617001	REV. 00	SHT. NO. 02	NO. OF SHT. 02		

SIZE -A3

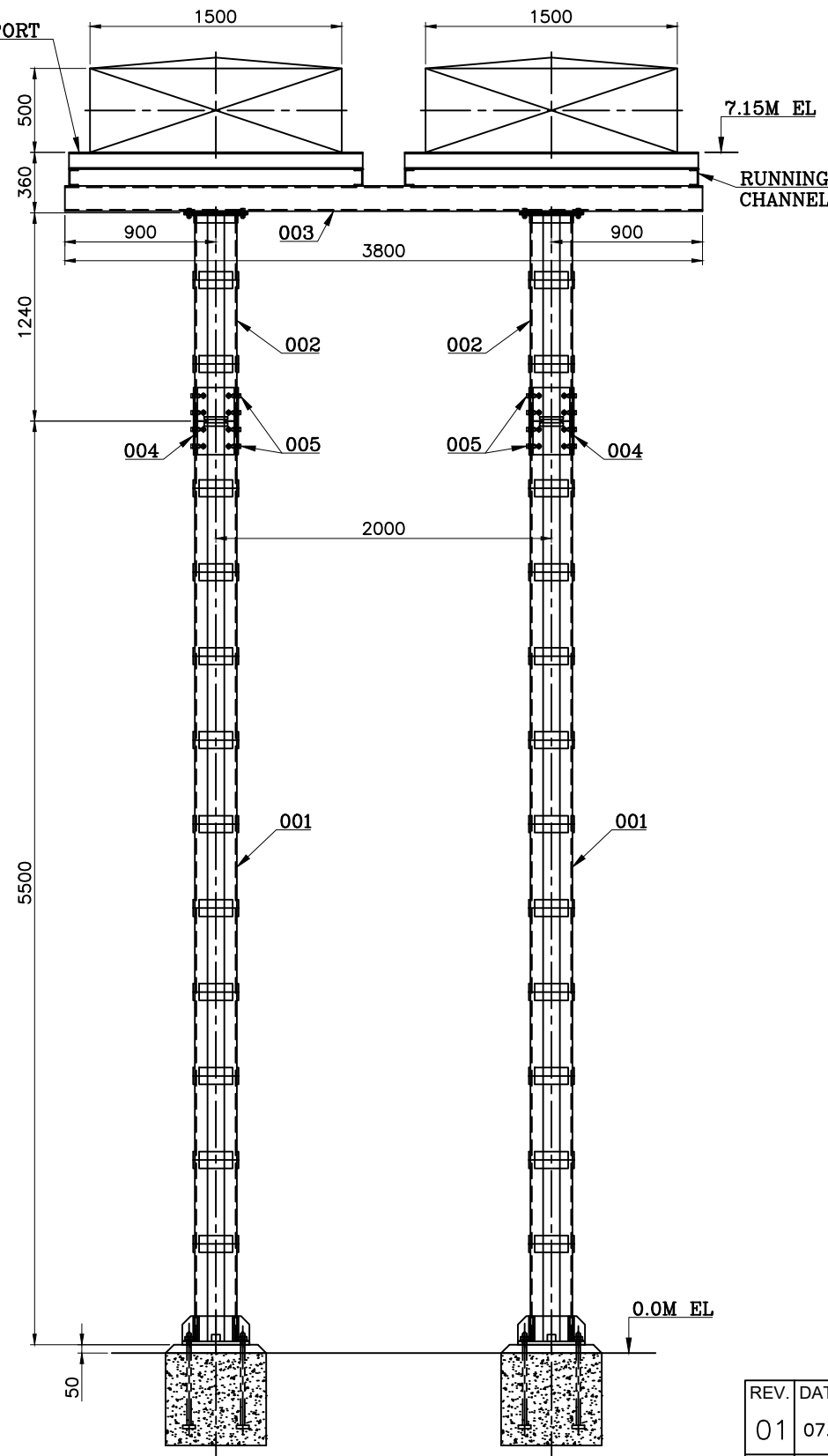
First Angle Projection

All Dimensions in 'mm'

32951617002

DRAWING NO.

INSULATOR SUPPORT CHANNEL



VAR.00

REV.	DATE	ALTERED — SANJAY
01	07.10.21	CHECKED — RUPESH
		APPD. — RUPESH

UNIT# 3, 4 & 5 QTY. ADDED.

TYPE-2
FOR SPBD POCKET NO.—
P13 TO P18
P73 TO P76
P107 TO P110

TOTAL NO. OF SET:—

UNIT# 1 & 2 = 03 NOS.

UNIT# 3, 4 & 5 = 04 NOS.

WT. FOR VAR.00 = 793.67 KGS.

072	—	005	SCRU HEX A M16X55 LG. 8.8 STEEL-ZPP (SET)	31001000228	04	0.187
008	—	004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	011	5.308
001	—	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	03	79.40
002	—	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02	66.55
002	—	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01	268.68
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN. WT. QTY.

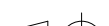
NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

NAME	SIGN	DATE	NO. OF VAR
DRN SUNNY		25/08/21	
CKD SANJAY		25/08/21	
APPD RUPESH		25/08/21	

DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	—		—	—	—	—	—
TITLE <u>ASSY. OF STRUCTURE FOR TYPE-2 SEGREGATED PHASE BUSDUCT</u>					DRAWING NO. 32951617002		REV. 01
					SHT. NO. 01		NO. OF SHT. 02

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

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SIGN. & DATE REF. DRG. NO.

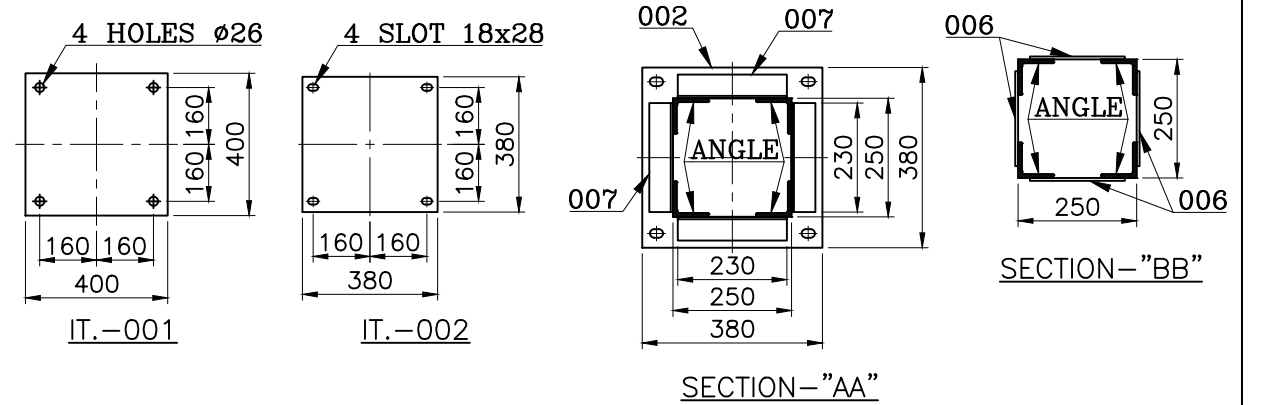
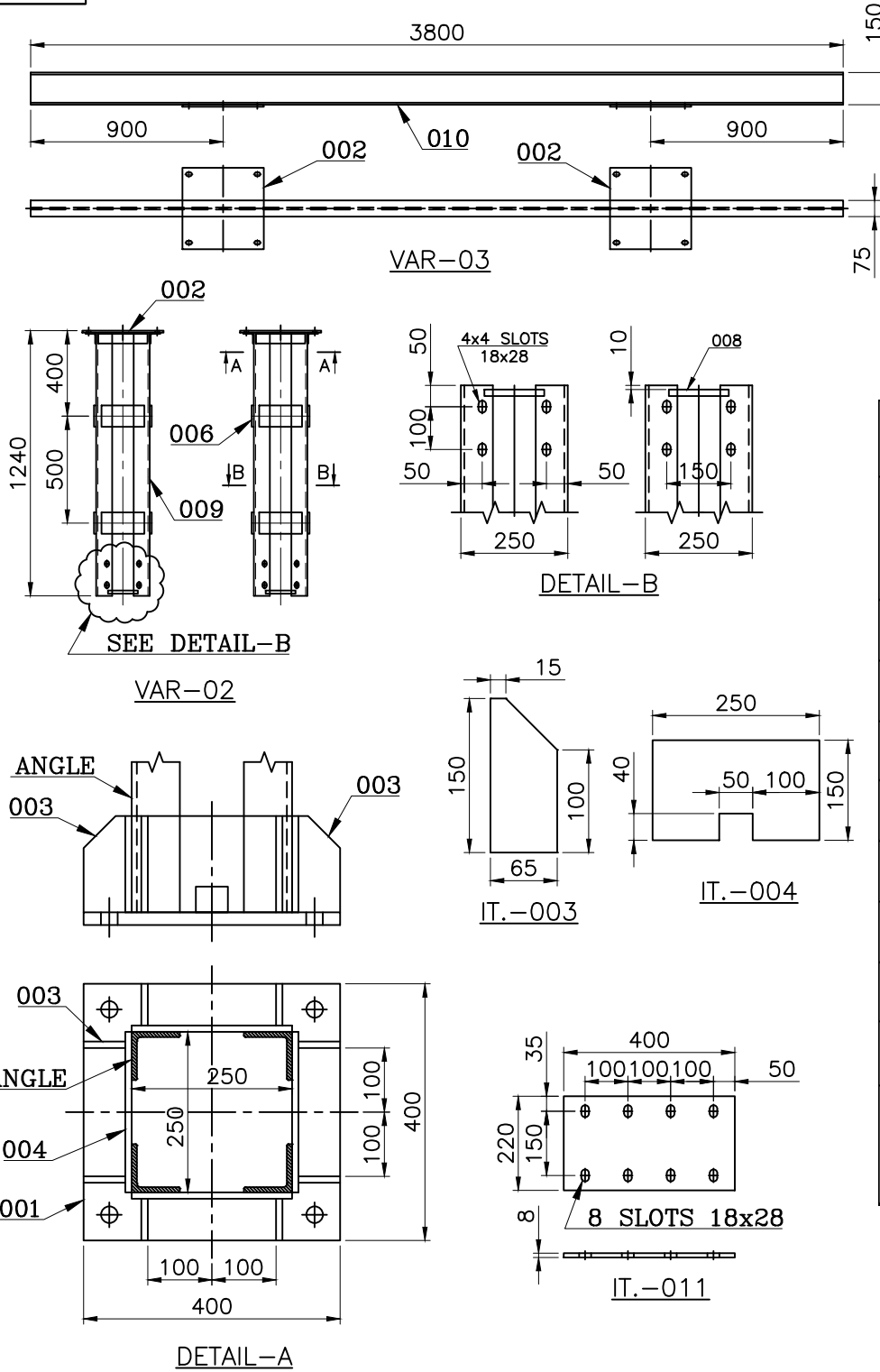
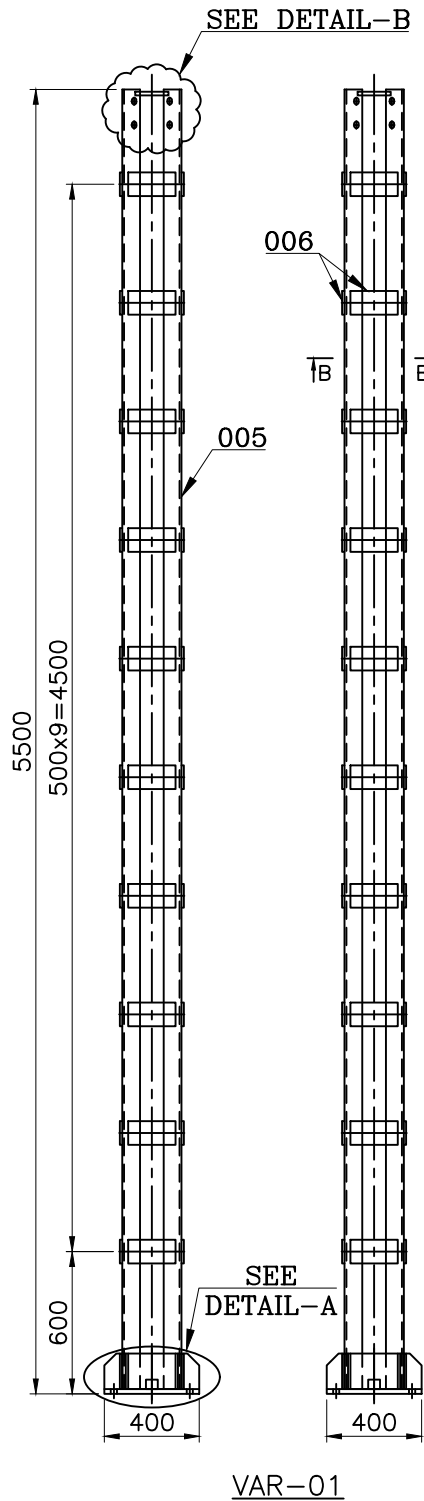
INVENTORY NO.

32951617002

DRAWING NO.

First Angle Projection

All Dimensions in 'mm'



79.40	66.55	268.68	VAR. WT. IN KG.						
001			TOP PLATE	011	8 TK x 220 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	5.308
				010	ISMB 150 x75 x5 x8x 3800 LG.	S.C.O.		AA 10108	57.000
	004			009	ISA 8TK. x75 x75 x 1230 LG.	S.C.O.		AA 10108	10.947
	004	004		008	8 TK x 15 x 140 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 10108	0.132
	004			007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 10108	0.874
	008	040	SIDE PLATE	006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	0.942
	004			005	ISA 8TK. x75 x75 x 5480 LG.	S.C.O.		AA 10108	18.772
	004			004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	1.751
	008			003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	0.449
002	001		TOP PLATE	002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	11.199
	001		BASE PLATE	001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	24.787
VAR	VAR	VAR	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MAT. CODE	WT.
03	02	01					VAR.	MAT. SPCN.	QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT.	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
BDE	m					
CODE						
TITLE						
W.ASSY. OF STRUCTURE FOR TYPE-2						
SEGREGATED PHASE BUSDUCT						
DRAWING NO.						
3295161702						
SHT. NO.	02					
NO. OF SHT.	02					

NOTE:-

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

REV.	DATE	ALTERED
		CHECKED
		APPD.

First Angle Projection

All Dimensions in 'mm'

32951617003

DRAWING NO.

INSULATOR SUPPORT CHANNEL

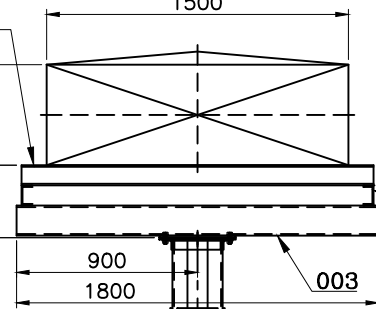
1500

500

360

1240

5500



7.15M EL

RUNNING CHANNEL

900
1800

002

004 005

001

0.0M EL

50

VAR.00

TYPE-3
FOR SPBD POCKET NO.
P1 TO P6, P9 TO P12, P19 TO P34,
P40 TO P42, P45 TO P48.
P49 TO P54, P57 TO P66, P69 TO P72,
P77, P80 TO P83, P100 TO P106,
P118 TO P123, P126 TO P129.

TOTAL NO. OF SET:-

UNIT# 1 & 2 = 33 NOS.

UNIT# 3, 4 & 5 = 43 NOS.

WT. FOR VAR.00 = 395.34 KGS.

036	-	005	SCRU HEX A M16X55 LG. 8.8 STEEL-ZPP (SET)	31001000228	04	0.187
004	-	004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	011	5.308
001	-	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	03	38.20
001	-	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02	66.55
001	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01	268.68
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN. WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		25/08/21	
APPD	SANJAY		25/08/21	
	RUPESH		25/08/21	

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE						
TITLE	ASSY. OF STRUCTURE FOR TYPE-3 SEGREGATED PHASE BUSDUCT			DRAWING NO.	32951617003	REV. 01
		SHT. NO. 01	NO. OF SHT. 02			

SIZE -A3

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SIGN. & DATE

REF. DRG. NO.

REV. 01	DATE 07.10.21	ALTERED - SANJAY CHECKED - RUPESH APPD. - RUPESH
---------	---------------	--

UNIT# 3, 4 & 5 QTY. ADDED.

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR UNIT ALL UNIT.dwg Printed On :10/20/2023 4:37:59 PM

First Angle Projection

All Dimensions in 'mm'

32951617004

DRAWING NO.

INSULATOR SUPPORT
CHANNEL

7.15M EL

1800

1675

003

006

2341

002

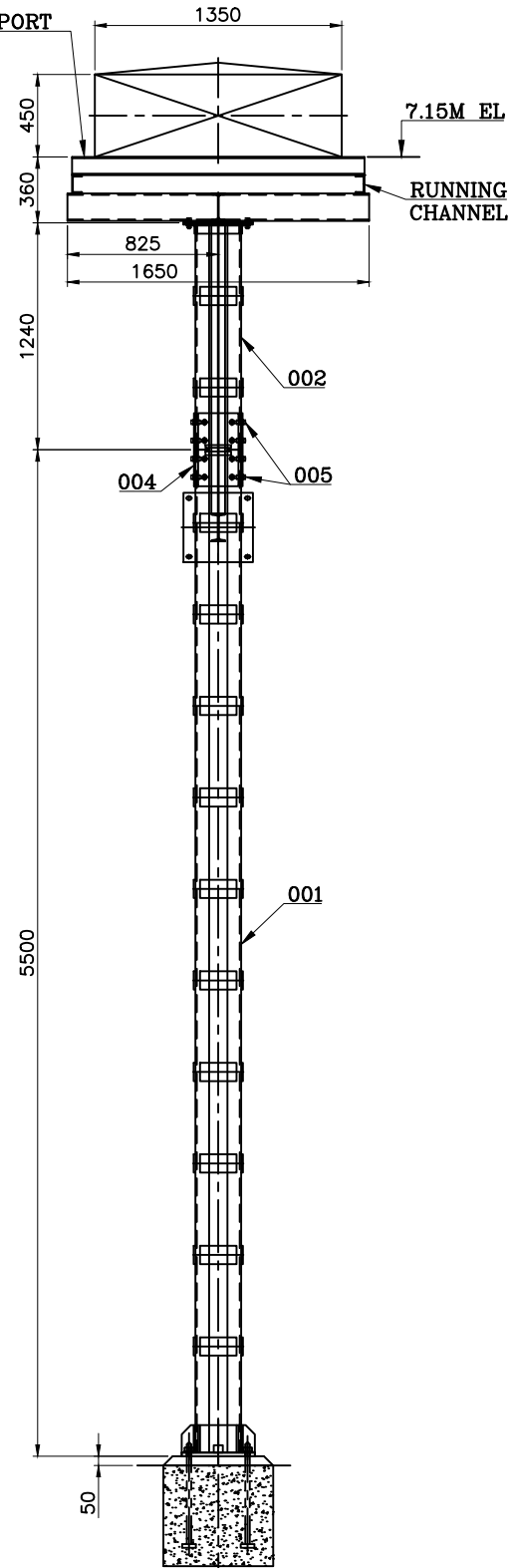
004

005

001

0.0M EL

VAR.00



TYPE-4
FOR SPBD POCKET NO.
P130, P131, P134, P135
P138, P139, P142, P143, P146, P147

TOTAL NO. OF SET:-

UNIT# 1 & 2 = 04 NOS.

UNIT# 3, 4 & 5 = 06 NOS.

WT. FOR VAR.00 = 531.27 KGS.

001	-	006	W.A. OF TIE BEAM	THIS DRG. SHEET 02 OF 02	04		57.50	001
044	-	005	SCRU HEX A M16X55 LG. 8.8 STEEL-ZPP (SET)	31001000228	04		0.187	001
004	-	004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	012		5.308	001
001	-	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	03		98.82	001
001	-	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02		66.55	001
001	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		278.94	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	0 0

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

NAME	SIGN	DATE	NO. OF VAR
DRN	SUNNY	25/08/21	
CKD	SANJAY	25/08/21	
APPD	RUPESH	25/08/21	

DEPT. BDE	UNTOL.DIMS.GR. m	SCALE -	WEIGHT(KG) -	REF. TO ASSY. DRG. -	ITEM NO. -	NO. OF ITEM -
CODE -	TITLE ASSY. OF STRUCTURE FOR TYPE-4 SEGREGATED PHASE BUSDUCT	DRAWING NO. 32951617004	REV. 01	SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

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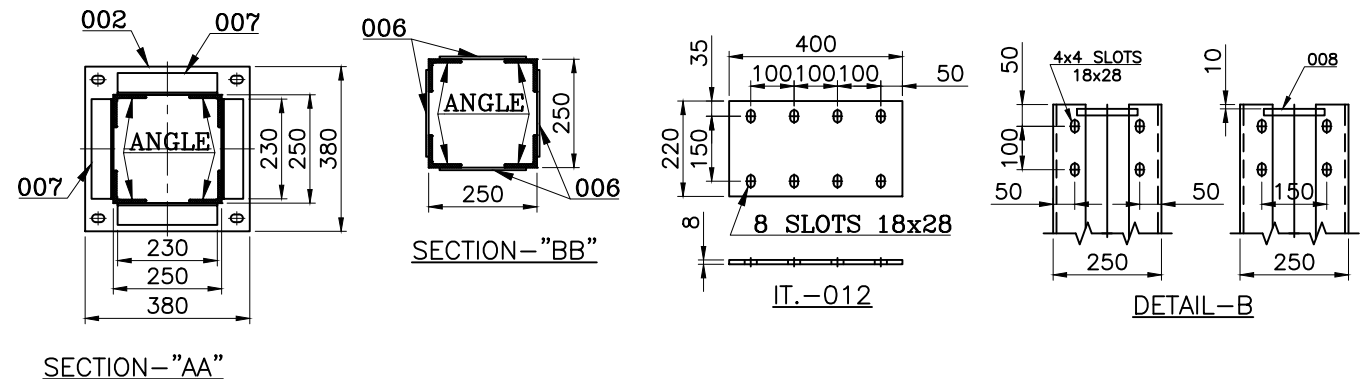
SIGN. & DATE REF. DRG. NO.

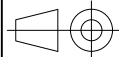
INVENTORY NO.

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR UNIT ALL UNIT.dwg Printed On :10/20/2023 4:38:00 PM

INVENTORY NO.

All Dimensions in 'mm'



NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
		BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR —
				DRN	SUNNY		25/08/21	
				CKD	SANJAY		25/08/21	
				APPD	RUPESH		25/08/21	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—		—	—
TITLE					DRAWING NO.			REV.
W.ASSY. OF STRUCTURE FOR TYPE-4 SEGREGATED PHASE BUSDUCT					32951617004			00
					SHT. NO. 02		NO. OF SHT. 02	

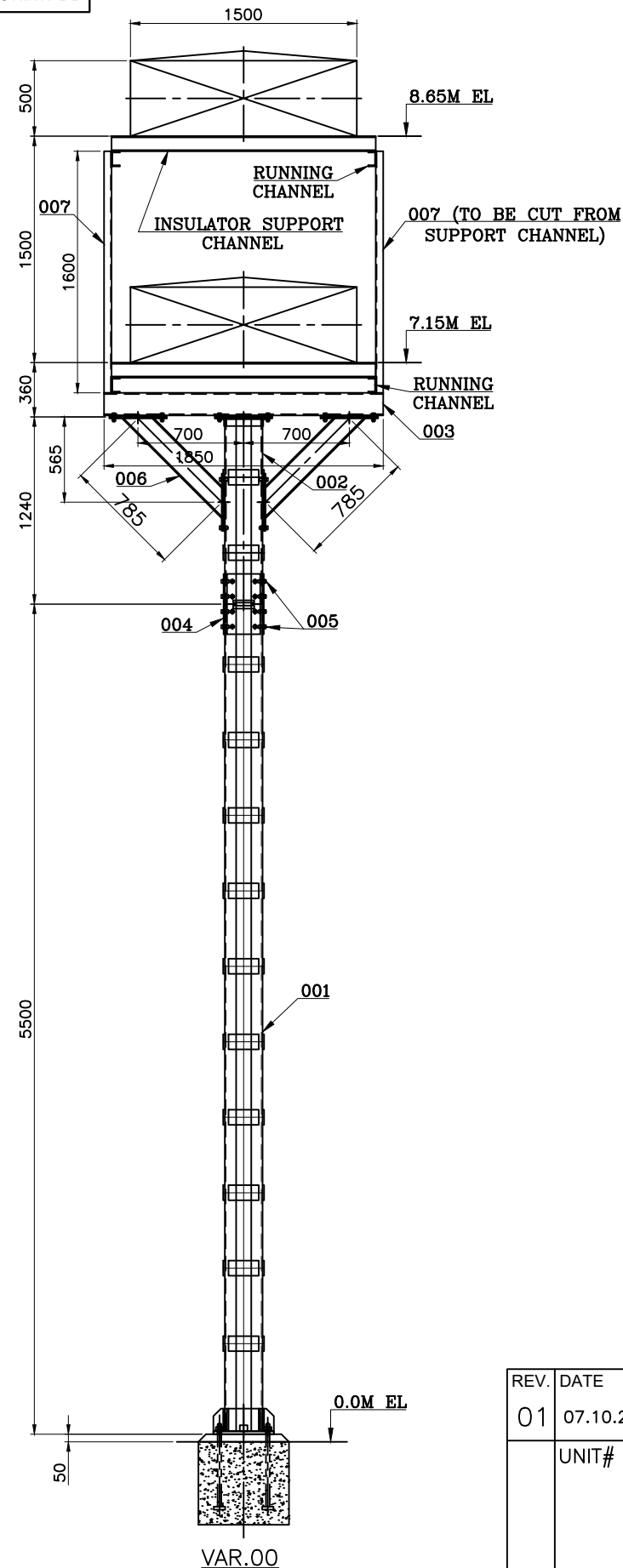
1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH RELEVANT STANDARDS.
3. MUST MEET THE SHOWING DIMENSIONS.
4. EVERY WELDED ASSY./ITEM NO. SHALL BE IDENTIFIED NEAR EITHER END BY INDELIBLE INK/PAINT/DEPOSITING METAL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

REV.	DATE	ALTERED
		CHECKED
		APPD.

SIZE -A3

All Dimensions in 'mm'

DRAWING NO.



TYPE-5
FOR SPBD POCKET NO.
P35 TO P39
P78, P79, P111 TO P117

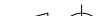
TOTAL NO. OF SET:-			
UNIT#	1 & 2	=	05 NOS.
UNIT#	3, 4 & 5	=	09 NOS.

WT. FOR VAR.00 = 535.78 KGS.

002	—	007	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	011		15.296
							001
002	—	006	W.A. OF TIE BEAM	THIS DRG. SHEET 02 OF 02	04		34.17
							001
052	—	005	SCRU HEX A M16X55 LG. 8.8 STEEL—ZPP (SET)	31001000228	04		0.187
							001
004	—	004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	012		5.308
							001
001	—	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	03		61.35
							001
001	—	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02		75.86
							001
001	—	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		268.68
							001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO.	MATL.CODE	WT.
					VAR.	MATL.SPCN.	QTY.

NAME OF PROJECT	<u>5x800 MW YADADRI TPS, NALGONDA</u>
NAME OF CUSTOMER	<u>TELANGANA STATE POWER GENERATION CORPORATION LTD</u> <u>TELANGANA, INDIA</u>

 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR		NAME	SIGN	DATE	NO. OF VAR
	DRN	SUNNY		25/08/21	
	CKD	SANJAY		25/08/21	
	APPD	RUPESH		25/08/21	
—					

DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE <u>ASSY. OF STRUCTURE FOR TYPE-5</u> <u>SEGREGATED PHASE BUSDUCT</u>					DRAWING NO.		REV.
					32951617005		01
					SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

Computer File:— PC: Rupesh Kumar Path: D:\YADADRI\90\SPBD STRUCTURE FOR UNIT ALL UNIT.dwg Printed On :10/20/2023 4:38:01 PM

All Dimensions in 'mm'

32951617005

DRAWING NO.

SEE DETAIL-B

006

↑

SEE
DETAIL-A

VAR-01

The technical drawing shows a composite beam. The top view is a rectangle with a total length of 1850 and a total height of 150. It is divided into three sections: a central section of 700 and two side sections of 225. The bottom view shows three square supports, each labeled 002, with a side view of 75. A label 010 points to the top surface of the beam.

VAR-03

VAR-02

Technical drawing of a roof structure showing a cross-section with a 45-degree slope. Dimensions include 785 and 935. Labels include 002, 013, and a detail view of a corner joint.

VAR-04

Technical drawing of part IT.-003 shows a profile with a total height of 150, a base width of 65, and a top width of 15. The right side has a vertical section of 100 and a sloped section connecting the top right corner to the base.

Technical drawing of part IT.-004 shows a U-shaped profile with an overall width of 250 and a height of 150. The base has a central cutout that is 50 units wide and 40 units deep. The distance from the left edge to the start of the cutout is 100 units, and the distance from the end of the cutout to the right edge is 100 units.

IT.-003

IT.-004

4 HOLES Ø26

IT.-001

4 SLOT 18x28

IT.-002

002 007

SECTION—"AA"

006

SECTION—"BB"

Technical drawing of a rectangular plate with the following dimensions and specifications:

- Overall width: 400
- Overall height: 220
- Top flange thickness: 35
- Bottom flange thickness: 8
- Internal width (between slots): 100, 100, 100
- Internal height (between slots): 150
- Slot specification: 8 SLOTS 18x28
- Reference: IT.-012

IT.-012

DETAIL-A

DETAIL-B

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.

34.17	61.35	75.86	268.68	VAR. WT. IN KG.					
001				013	ISMB 150 x75 x5 x8x 935 LG.	SEE DETAIL		11.775	
				012	8 TK x 220 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	001	
				011	ISMC 100 x50 x5 x7.7x 1600 LG.	S.C.O.	AA 101 08	001	
	001			010	ISMB 150 x75 x5 x8x 1850 LG.	S.C.O.	AA 101 08	001	
		004		009	ISA 8TK. x75 x75 x 1230 LG.	S.C.O.	AA 101 08	001	
		004 004		008	8 TK x 15 x 140 LG. STRUCTURE STEEL PLATE	S.C.O.	AA 101 08	001	
		004		007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.	AA 101 08	001	
		006 040	SIDE PLATE	006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	001	
		004		005	ISA 8TK. x75 x75 x 5480 LG.	S.C.O.	AA 101 08	001	
		004		004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	001	
		008		003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	001	
002	003	002	TOP PLATE	002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	001	
		001	BASE PLATE	001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL	AA 101 08	001	
VAR 04	VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. MAT. CODE VAR. MAT. SPCN.	WT. QTY.

NAME OF PROJECT

5x800 MW YADADRI TPS, NALGONDA

NAME OF CUSTOMER

TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

	NAME	SIGN	DATE	NO. OF VAR
DRN	SUNNY		25/08/21	
CKD	SANJAY		25/08/21	
APPD	RUPESH		25/08/21	

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-5</u> <u>SEGREGATED PHASE BUSDUCT</u>					DRAWING NO.		REV.
					32951617005		00
					SHT. NO. 02	NO. OF SHT. 02	

SIZE -A3

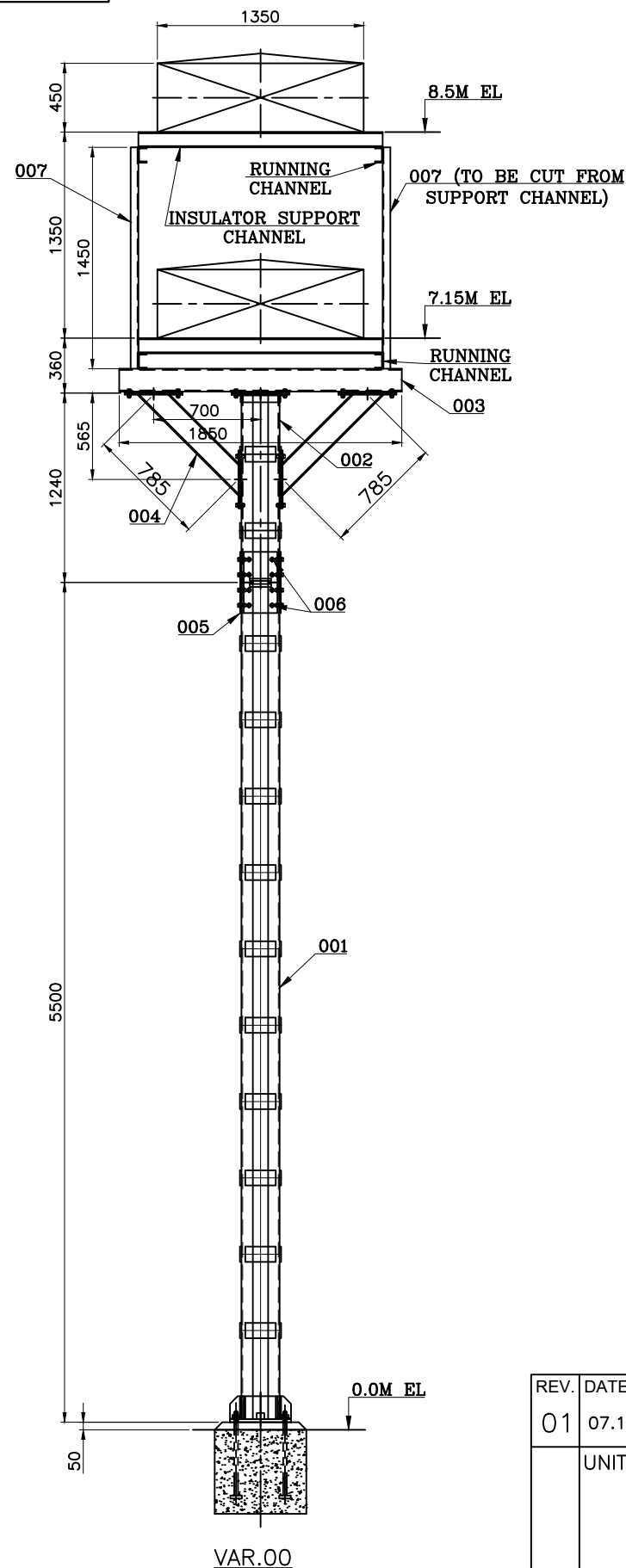
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First Angle Projection

All Dimensions in 'mm'

32951617006

DRAWING NO.

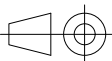


TYPE-6
FOR SPBD POCKET NO.
P132, P133, P136, P137
P140, P141, P144, P145, P48, P49

TOTAL NO. OF SET:-
UNIT# 1 & 2 = 04 NOS.
UNIT# 3, 4 & 5 = 06 NOS.

WT. FOR VAR.00 = 532.91 KGS.

002	-	007	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	011		13.862	001
002	-	006	W.A. OF TIE BEAM	THIS DRG. SHEET 02 OF 02	04		34.17	001
052	-	005	SCRU HEX A M16X55 LG. 8.8 STEEL-ZPP (SET)	31001000228	04		0.187	001
004	-	004	CONNECTING PLATE	THIS DRG. SHEET 02 OF 02	012		5.308	001
001	-	003	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	03		61.35	001
001	-	002	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	02		75.86	001
001	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		268.68	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	00

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
	BHARAT HEAVY ELECTRICALS LTD.				NAME	SIGN	DATE	NO. OF VAR
	RUDRAPUR			DRN	SUNNY		25/08/21	
				CKD	SANJAY		25/08/21	
				APPD	RUPESH		25/08/21	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—		—	—
TITLE					DRAWING NO.			REV.
<u>ASSY. OF STRUCTURE FOR TYPE-6</u> <u>SEGREGATED PHASE BUSDUCT</u>					32951617006			01
					SHT. NO. 01		NO. OF SHT. 02	

SIZE -A3

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

SIGN. & DATE

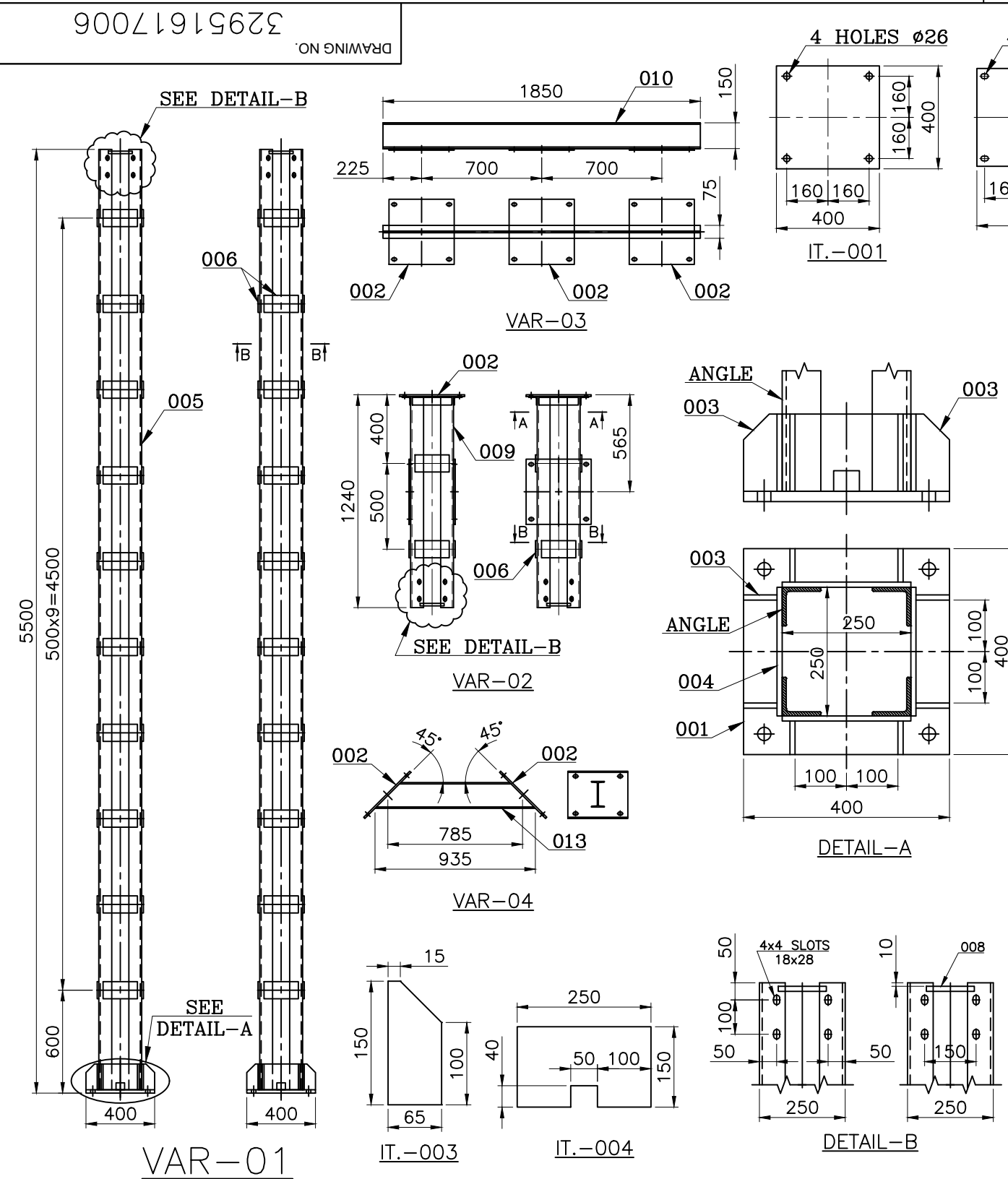
INVENTORY NO.

REF. DRG. NO.

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



All Dimensions in 'mm'

34.17	61.35	75.86	268.68	VAR. WT. IN KG.						
001					013	ISMB 150 x75 x5 x8x 935 LG.	SEE DETAIL			11.775
					012	8 TK x 220 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	001
					011	ISMC 100 x50 x5 x7.7x 1450 LG.	S.C.O.		AA 101 08	001
	001				010	ISMB 150 x75 x5 x8x 1850 LG.	S.C.O.		AA 101 08	001
	004				009	ISA 8TK. x75 x75 x 1230 LG.	S.C.O.		AA 101 08	001
	004	004			008	8 TK x 15 x 140 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	001
	004				007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 101 08	001
	006	040	SIDE PLATE		006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	001
		004			005	ISA 8TK. x75 x75 x 5480 LG.	S.C.O.		AA 101 08	001
		004			004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	001
		008			003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	001
002	003	002		TOP PLATE	002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	001
		001	BASE PLATE		001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	001
VAR 04	VAR 03	VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

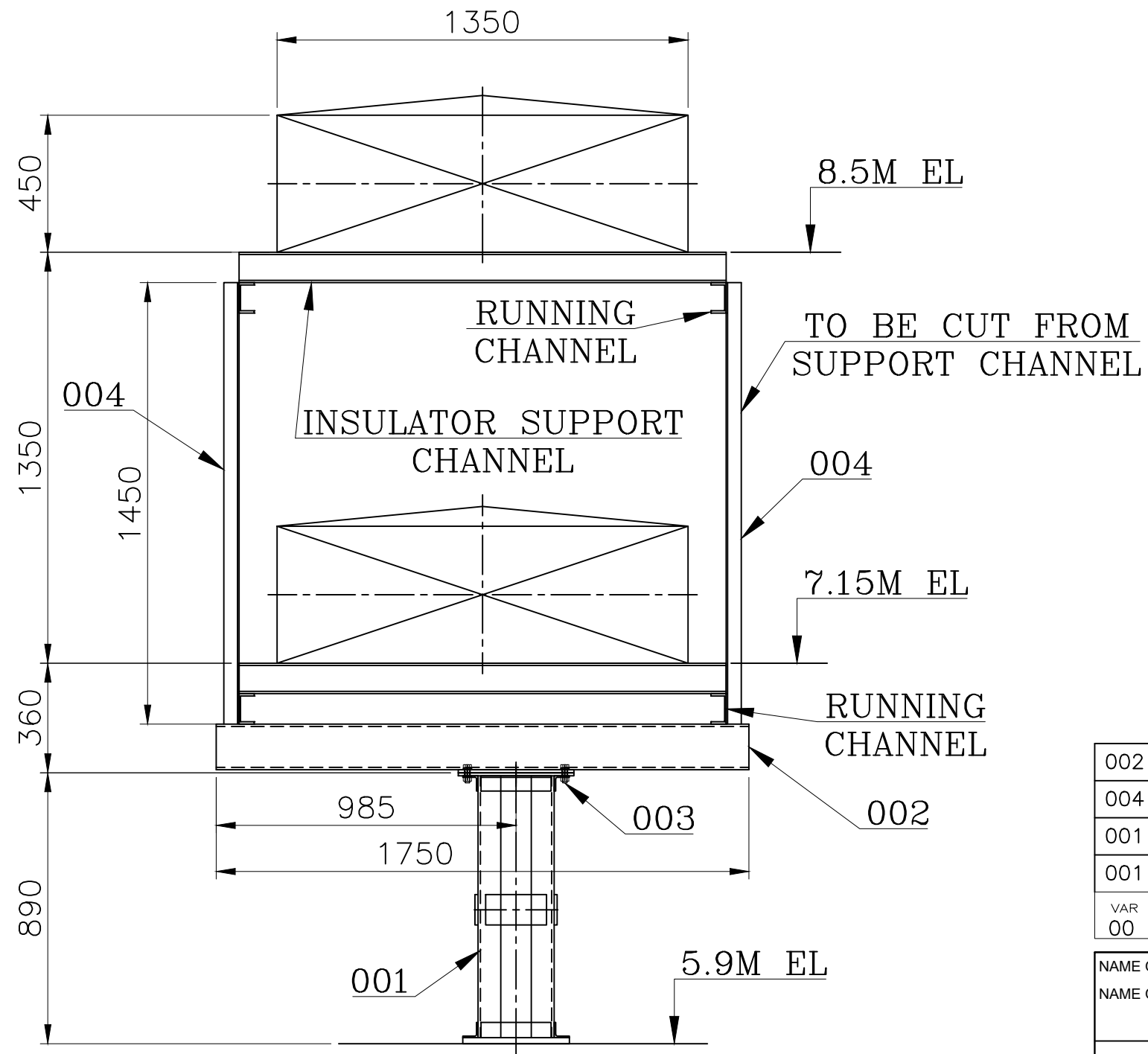
RUDRAPUR

DEPT. CODE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
BDE	m					
TITLE				DRAWING NO.	REV.	
W.ASSY. OF STRUCTURE FOR TYPE-6 SEGREGATED PHASE BUSDUCT				32951617006	00	
				SHT. NO. 02	NO. OF SHT. 02	

SIZE -A3

All Dimensions in 'mm'

DRAWING NO.



VAR.00

REV.	DATE	ALTERED – SANJAY
01	07.10.21	CHECKED – RUPESH
		APPD. – RUPESH
	UNIT# 3, 4 & 5 QTY. ADDED.	

TYPE-7
FOR SPBD POCKET NO.
E1 & E2
E3 TO E5

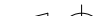
TOTAL NO. OF SET:-			
UNIT#	1 & 2	=	02 NOS.
UNIT#	3, 4 & 5	=	03 NOS.

WT. FOR VAR.00 = 137.73 KGS.

002	—	004	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	007		13.862	U U
004	—	003	SCRU HEX A M16X55 LG. 8.8 STEEL—ZPP (SET)	31001000228			001	
							0.187	
001	—	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	04		001	
							37.45	
001	—	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02		001	
							71.81	
001	—	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		001	
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO.	MATL.CODE	WT.	U U
					VAR.	MATL.SPCN.	QTY.	

NAME OF PROJECT	<u>5x800 MW YADADRI TPS, NALGONDA</u>
NAME OF CUSTOMER	<u>TELANGANA STATE POWER GENERATION CORPORATION LTD</u> <u>TELANGANA, INDIA</u>

 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR		NAME	SIGN	DATE	NO. OF VAR —
	DRN	SUNNY		25/08/21	
	CKD	SANJAY		25/08/21	
	APPD	RUPESH		25/08/21	

DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE —	m		—	—	—	—	—
TITLE <u>ASSY. OF STRUCTURE FOR TYPE-7</u> <u>SEGREGATED PHASE BUSDUCT</u>					DRAWING NO.		REV.
					32951617007		01
					SHT. NO. 01	NO. OF SHT. 02	

SIZE -A3

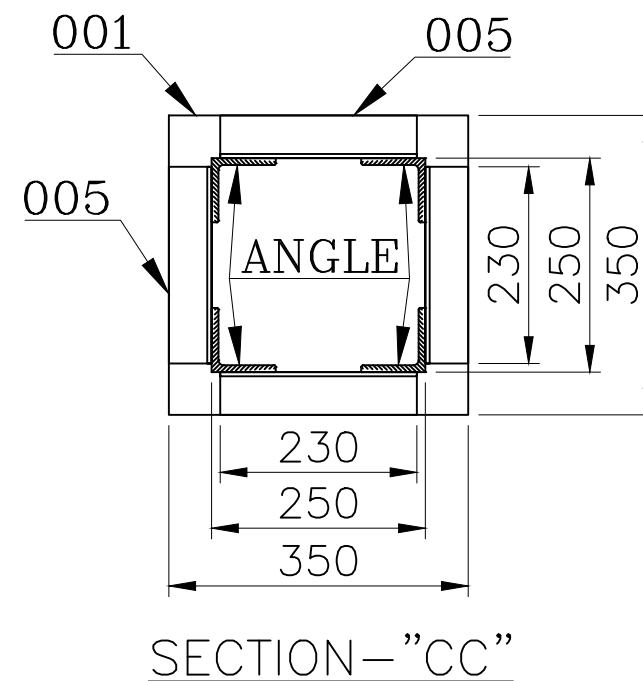
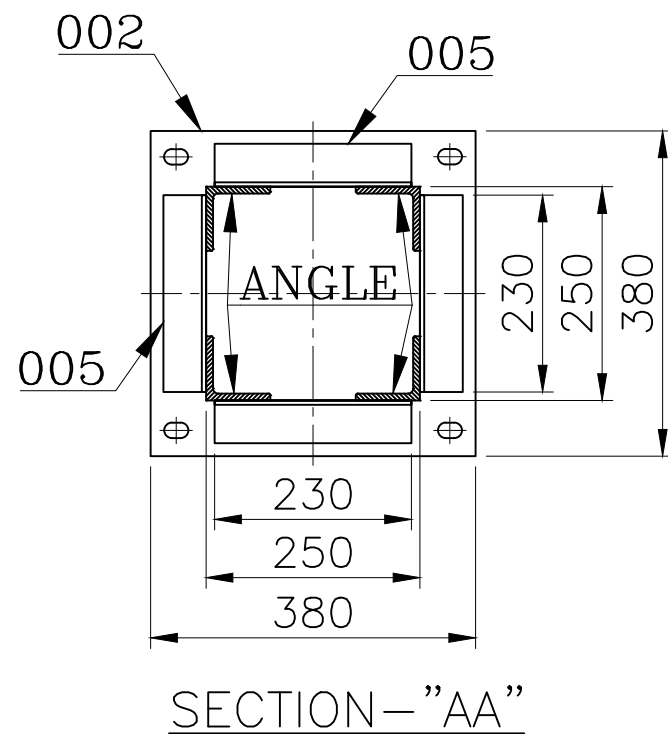
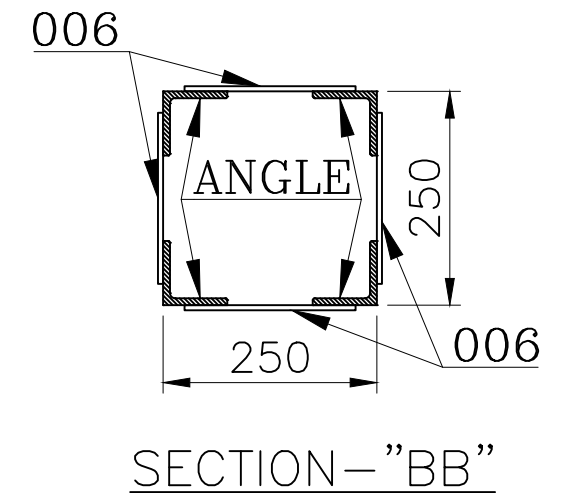
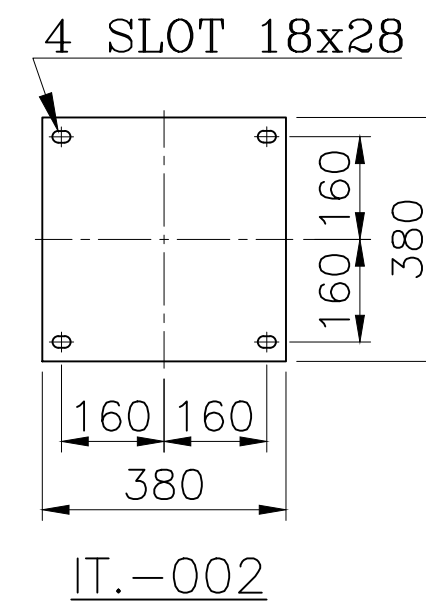
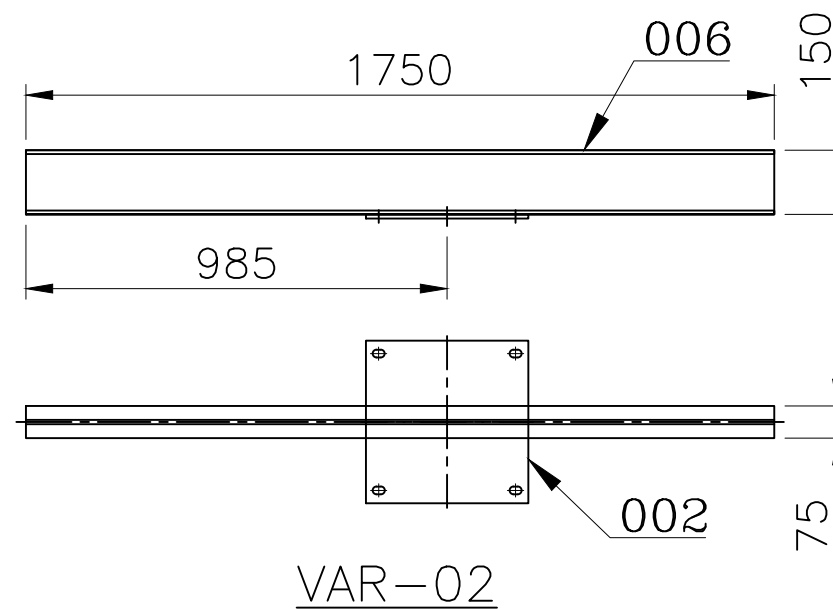
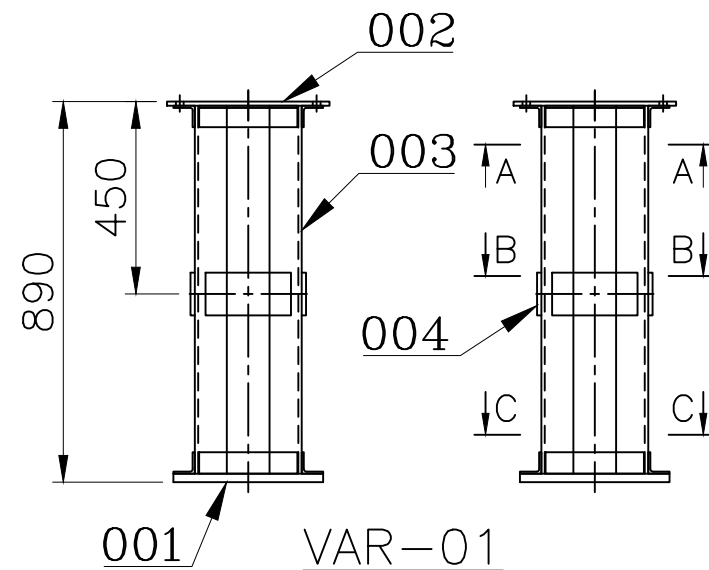
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First Angle Projection

All Dimensions in 'mm'

32951617007

DRAWING NO.



37.45	71.81	←VAR. WT. IN KG.						
		007	ISMC 100 x50 x5 x7.7x 1450 LG.	S.C.O.		AA 10108	13.862 001	
001		006	ISMB 150 x75 x5 x8x 1750 LG.	S.C.O.		AA 10108	26.250 001	
	008	005	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 10108	0.874 001	
	004	SIDE PLATE 004	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	0.942 001	
	004	003	ISA 8TK. x75 x75 x 860 LG.	S.C.O.		AA 10108	7.654 001	
001	001	TOP PLATE 002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	11.199 001	
	001	BASE PLATE 001	20 TK x 350 x 350 LG. STRUCTURE STEEL PLATE			AA 10108	19.233 001	
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m					
TITLE				DRAWING NO.	REV.	
W.ASSY. OF STRUCTURE FOR TYPE-7 SEGREGATED PHASE BUSDUCT				32951617007	00	
				SHT. NO. 02	NO. OF SHT. 02	

SIZE -A3

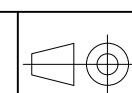
NOTE:-

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

REV.	DATE	ALTERED
		CHECKED
		APPD.

DEPT. BDE
CODE

UNTOL.DIMS.GR.
m



SCALE
-

WEIGHT(KG)
-

REF. TO ASSY. DRG.
-

ITEM NO.
-

NO. OF ITEM
-

REV.
00

First Angle Projection

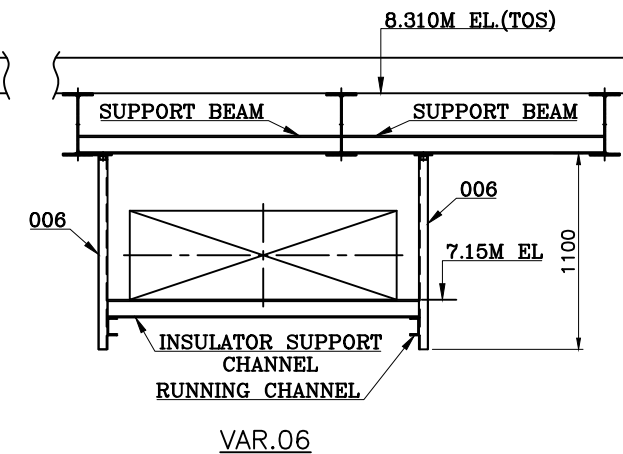
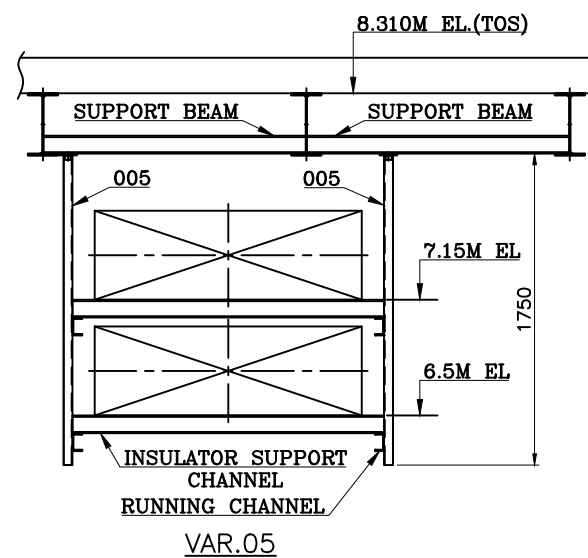
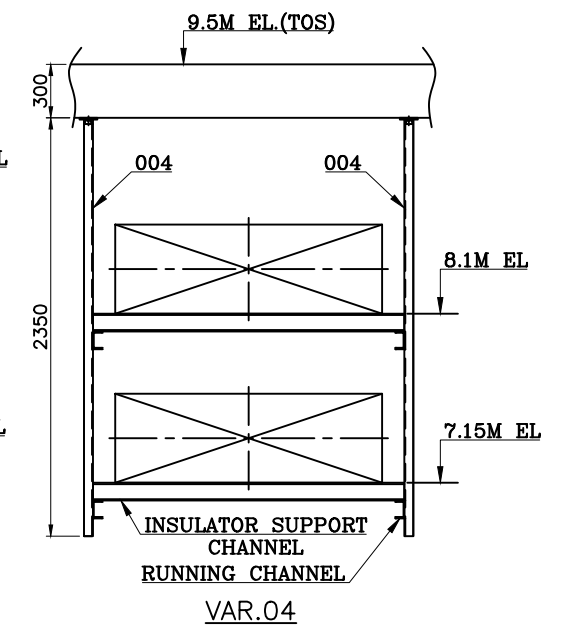
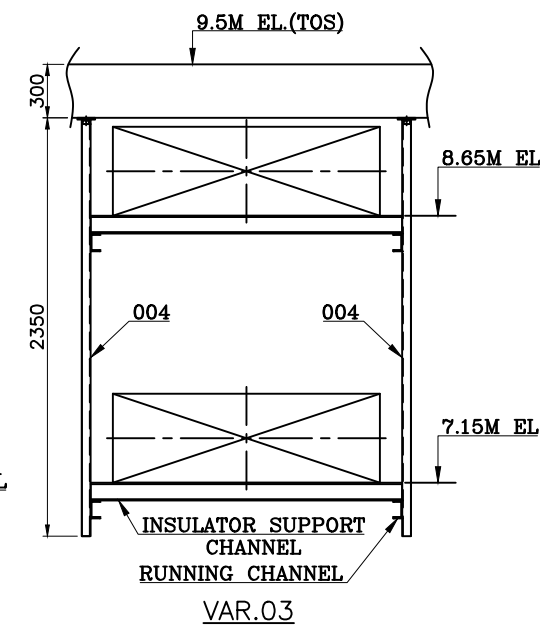
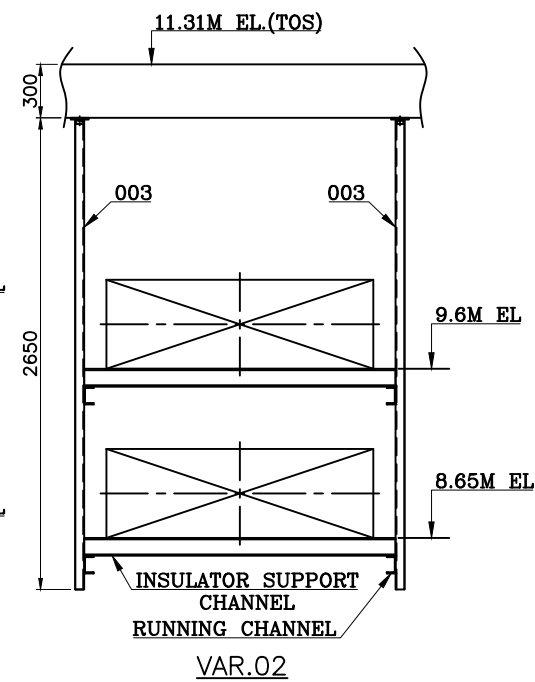
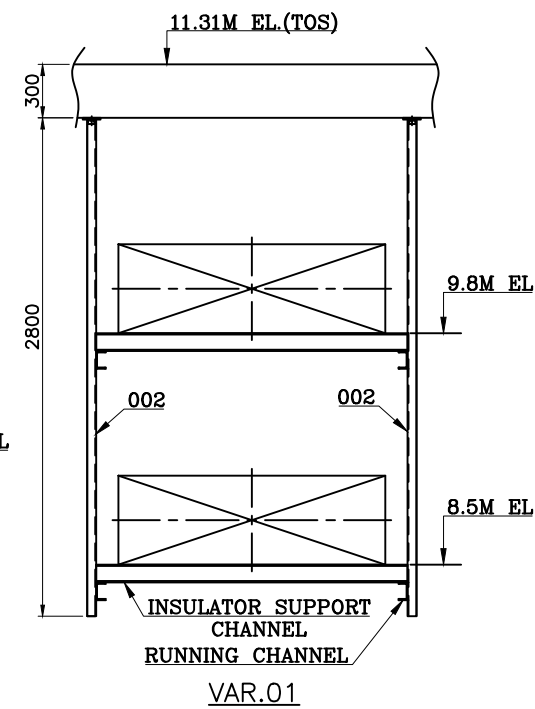
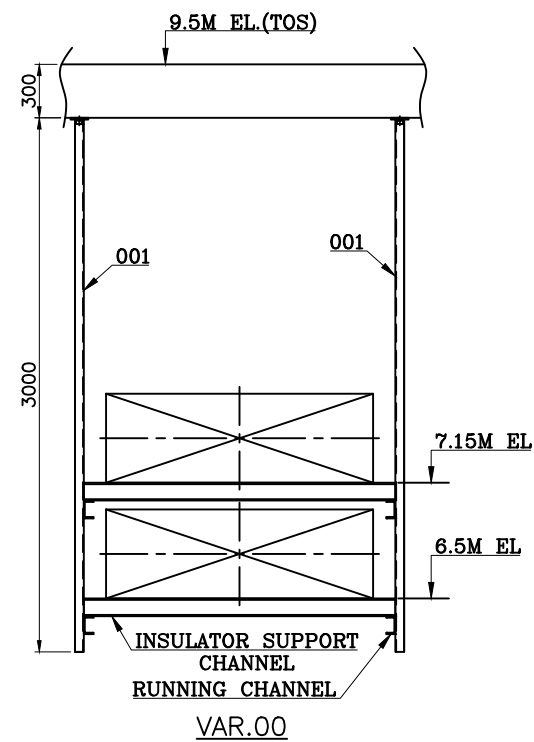
All Dimensions in 'mm'

32951617008

DRAWING NO.

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

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



NOTE:

- 1) HANGER / VERTICAL SUPPORTS ARE PLACED AT 1.5 TO 2 METER (APPROX.).

002	--	--	--	--	--	--	--	006	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	12		12.01	001
--	002	--	--	--	--	--	--	005	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	11		18.22	001
--	--	002	002	--	--	--	--	004	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	10		23.96	001
--	--	--	--	002	--	--	--	003	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	09		26.82	001
--	--	--	--	--	002	--	--	002	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	08		28.26	001
--	--	--	--	--	--	002	--	001	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	07		30.17	001
VAR 06	VAR 05	VAR 04	VAR 03	VAR 02	VAR 01	VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	00

TOTAL NO. OF SET		
	UNIT#1&2	UNIT#3,4&5
VAR.00	05 NOS.	05 NOS.
VAR.01	10 NOS.	05 NOS.
VAR.02	20 NOS.	60 NOS.
VAR.03	05 NOS.	--
VAR.04	05 NOS.	05 NOS.
VAR.05	50 NOS.	75 NOS.
VAR.06	20 NOS.	30 NOS.

TYPE-8

REV.	DATE	ALTERED - SANJAY
01	07.10.21	CHECKED - RUPESH
		APPD. - RUPESH

UNIT# 3, 4 & 5 QTY. ADDED.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m					
TITLE	ASSY. OF STRUCTURE FOR TYPE-8 SEGREGATED PHASE BUSDUCT			DRAWING NO.	32951617008	REV. 01
SHT. NO. 01		NO. OF SHT. 02				

SIZE -A3

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR UNIT ALL UNIT.dwg Printed On :10/20/2023 4:38:05 PM

First Angle Projection

All Dimensions in 'mm'

32951617008

DRAWING NO.

001

004/005/
006/007/
008/009

3000=VAR.07, 2800=VAR.08
2650=VAR.09, 2350=VAR.10
1750=VAR.11, 1100=VAR.12

VAR-07 TO 12

CHANNEL

001

002

003

SECTION-"AA"

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.

12	11	10	09	08	07	←VAR. NO.						
12.01	18.22	23.96	26.82	28.26	30.17	←WEIGHT IN KG.						
001							009	ISMC 100 x50 x5 x7.7x 1090 LG.	S.C.O.		AA 101 08	10.420
	001						008	ISMC 100 x50 x5 x7.7x 1740 LG.	S.C.O.		AA 101 08	16.634
		001					007	ISMC 100 x50 x5 x7.7x 2340 LG.	S.C.O.		AA 101 08	22.370
			001				006	ISMC 100 x50 x5 x7.7x 2640 LG.	S.C.O.		AA 101 08	25.238
				001			005	ISMC 100 x50 x5 x7.7x 2790 LG.	S.C.O.		AA 101 08	26.672
					001		004	ISMC 100 x50 x5 x7.7x 2990 LG.	S.C.O.		AA 101 08	28.584
002	002	002	002	002	002		003	ISA 5TK. x 25 x 25 x 40 LG.	S.C.O.		AA 101 08	0.072
001	001	001	001	001	001		002	ISA 5TK. x 25 x 25 x 60 LG.	S.C.O.		AA 101 08	0.108
001	001	001	001	001	001		001	10 TK x 100 x 170 LG. STRUCTURE STEEL PLATE	S.C.O.		AA 101 08	1.335
VAR 12	VAR 11	VAR 10	VAR 09	VAR 08	VAR 07	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT5x800 MW YADADRI TPS, NALGONDA

NAME OF CUSTOMERTELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA

DEPT. BDE

CODE

UNTOL.DIMS.GR.m

SCALE

WEIGHT(KG)

DRN

CKD

APPD

NAME

SUNNY

SANJAY

RUPESH

SIGN

DATE

25/08/21

25/08/21

25/08/21

NO. OF VAR

W.ASSY. OF STRUCTURE FOR TYPE-8
SEGREGATED PHASE BUSDUCT

DRAWING NO.
32951617008

SHT. NO. 02

REV.

00

NO. OF SHT. 02

Computer File:- PC: Rupeesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR UNIT ALL UNIT.dwg Printed On :10/20/2023 4:38:06 PM

SIZE -A3

First Angle Projection

All Dimensions in 'mm'

32951617009

DRAWING NO.

5000

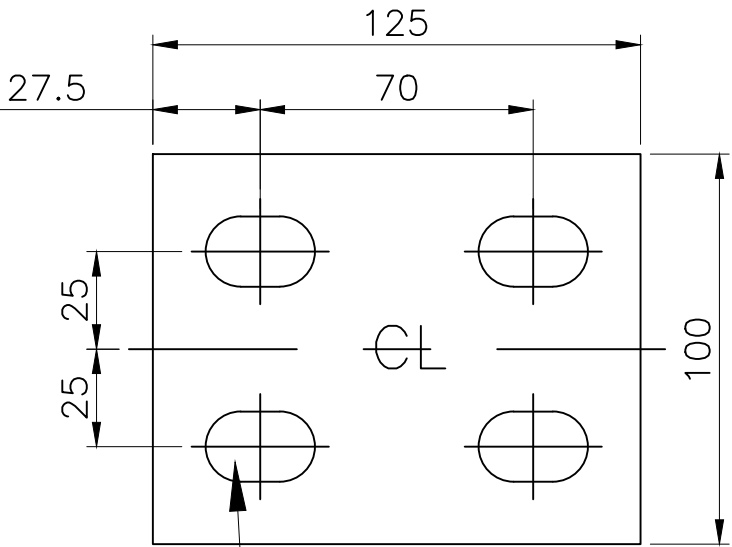
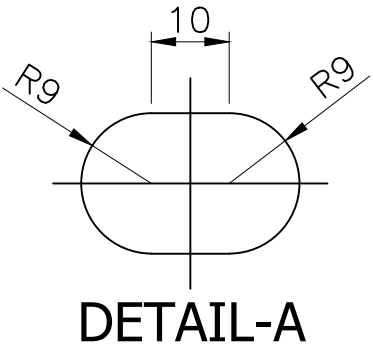
34

34

25
25

2x2 HOLE $\phi 18$

ITEM-001



4-SLOT SEE
DETAIL-A

ITEM-002

		002	8 TK x 100 x 125 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	0.676
		001	ISMC 100 x50 x5 x7.7x 5000 LG.	SEE DETAIL		AA 10108	47.800
VAR 00	REMARKS	ITEM	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.
RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		25/08/21	
APPD	RUPESH		25/08/21	

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

DEPT.	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
BDE	m		-	-	-	-
CODE						
TITLE				DRAWING NO.	REV.	
W.ASSY. OF RUNNING/SUPPORT CHANNEL SEGREGATED PHASE BUSDUCT				32951617009	00	
				SHT. NO. 01	NO. OF SHT. 01	

SIZE -A3

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SIGN. & DATE

INVENTORY NO.

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR UNIT ALL UNIT.dwg Printed On :10/20/2023 4:38:06 PM

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SIGN. & DATE

INVENTORY NO.

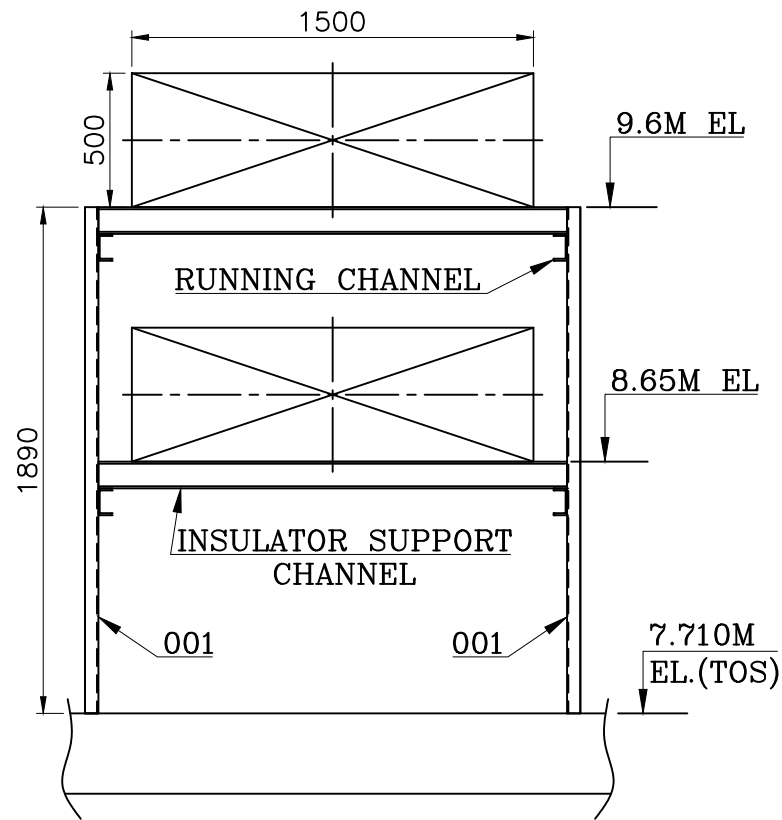
REF. DRG. NO.

First Angle Projection

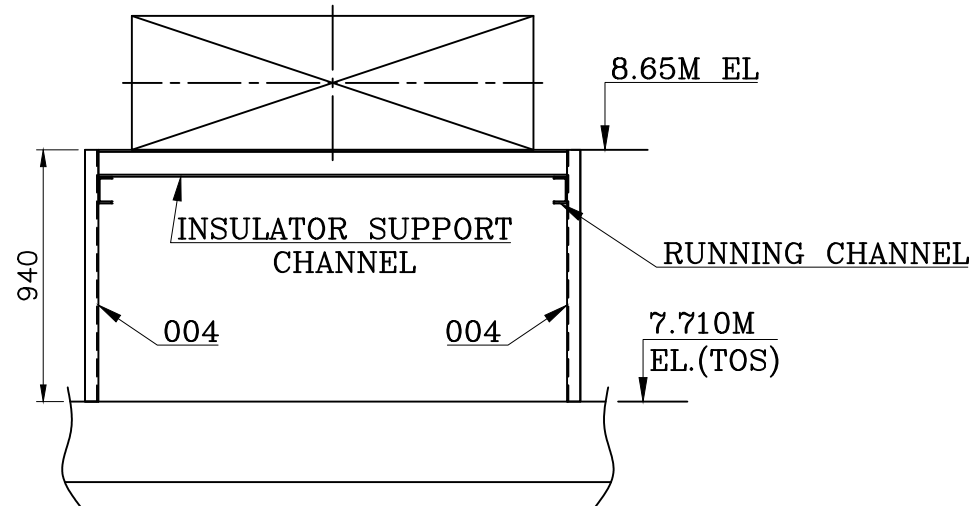
All Dimensions in 'mm'

32951617010

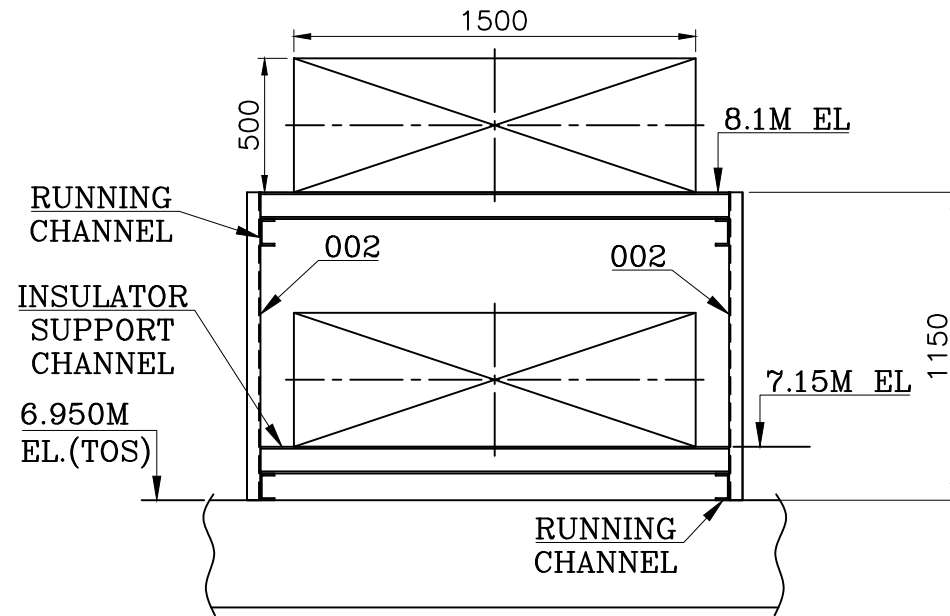
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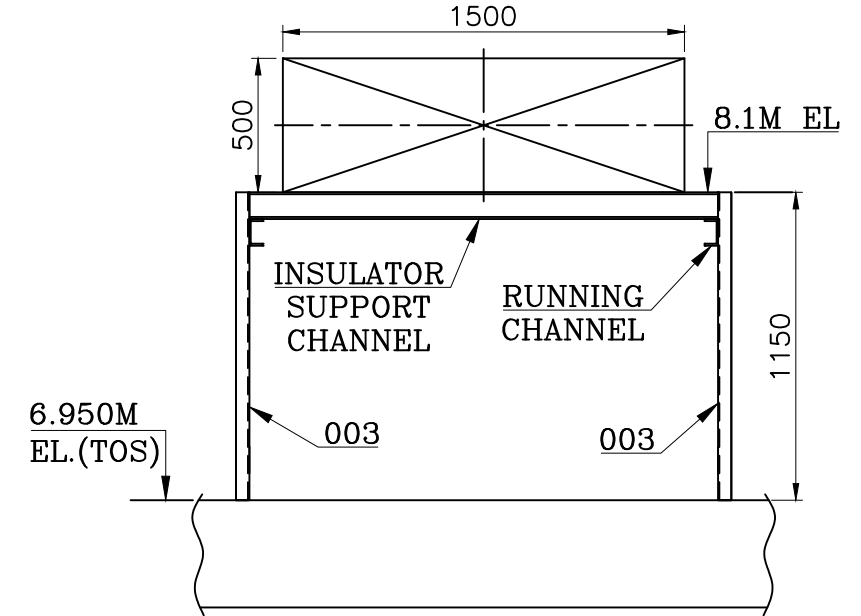
VAR.00



VAR.03



VAR.01

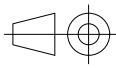


VAR.02

TYPE-10

TOTAL NO. OF SET		
	UNIT#1&2	UNIT#3,4&5
VAR.00	16 NOS.	30 NOS.
VAR.01	40 NOS.	75 NOS.
VAR.02	06 NOS.	--
VAR.03	--	10 NOS.

002	--	--	--	CUT FROM RUNNING CHANNEL AT SITE	004	W.A. OF HANGER ISMC 100x50x5x7.7x990 LG.	S.C.O.			9.464	
--	002	--	--	CUT FROM RUNNING CHANNEL AT SITE	003	W.A. OF HANGER ISMC 100x50x5x7.7x1150 LG.	S.C.O.			10.994	
--	--	002	--	CUT FROM RUNNING CHANNEL AT SITE	002	W.A. OF HANGER ISMC 100x50x5x7.7x1150 LG.	S.C.O.			10.994	
--	--	--	002	CUT FROM RUNNING CHANNEL AT SITE	001	W.A. OF HANGER ISMC 100x50x5x7.7x1890 LG.	S.C.O.			18.060	
VAR 03	VAR 02	VAR 01	VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	U

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA											
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD											
TELANGANA, INDIA											
 BHARAT HEAVY ELECTRICALS LTD.						DRN	SUNNY	SIGN	DATE	NO. OF VAR	
						CKD	SANJAY		25/08/21		
						APPD	RUPESH		25/08/21		
RUDRAPUR						DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.
						CODE	m		-	-	-
TITLE						DRAWING NO.				REV.	
ASSY. OF STRUCTURE FOR TYPE-8 SEGREGATED PHASE BUSDUCT						32951617010				01	
						SHT. NO.	01	NO. OF SHT.		02	

REV.	DATE	ALTERED - SANJAY
01	07.10.21	CHECKED - RUPESH
		APPD. - RUPESH
UNIT# 3, 4 & 5 QTY. ADDED.		

SIZE -A3

First Angle Projection

All Dimensions in 'mm'

32951617011

DRAWING NO.

INSULATOR SUPPORT CHANNEL

1500

500

6.5M EL

360

RUNNING CHANNEL

900

1800

002

003

001

6090

0.0M EL

50

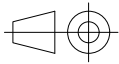
VAR.00

TYPE-11
FOR SPBD POCKET NO.-
P85 TO P99

TOTAL NO. OF SET:-
UNIT# 3, 4 & 5 = 15 NOS.

WT. FOR VAR.00 = 346.21 KGS.

004	-	003	SCRU HEX A M16X55 LG. 8.8 STEEL-ZPP (SET)	31001000228	04		0.187	001
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02		38.20	001
001	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01		307.26	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.	00

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
 BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR			NAME	SIGN	DATE	NO. OF VAR		
		DRN	SUNNY		07/10/21			
		CKD	SANJAY		07/10/21			
		APPD	RUPESH		07/10/21			
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM	
CODE —	m		—	—	—	—	—	
TITLE					DRAWING NO.		REV.	
ASSY. OF STRUCTURE FOR TYPE-11 SEGREGATED PHASE BUSDUCT					32951617011		00	
					SHT. NO.	NO. OF SHT.		
					01	02		

SIZE -A3

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SIGN. & DATE

REF. DRG. NO.

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SIGN. & DATE REF. DRG. NO.

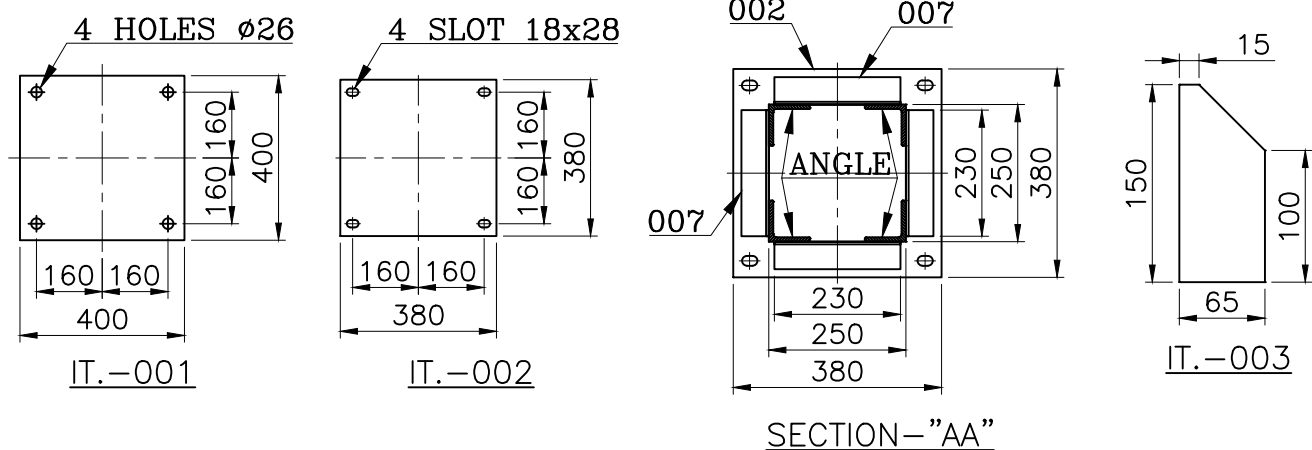
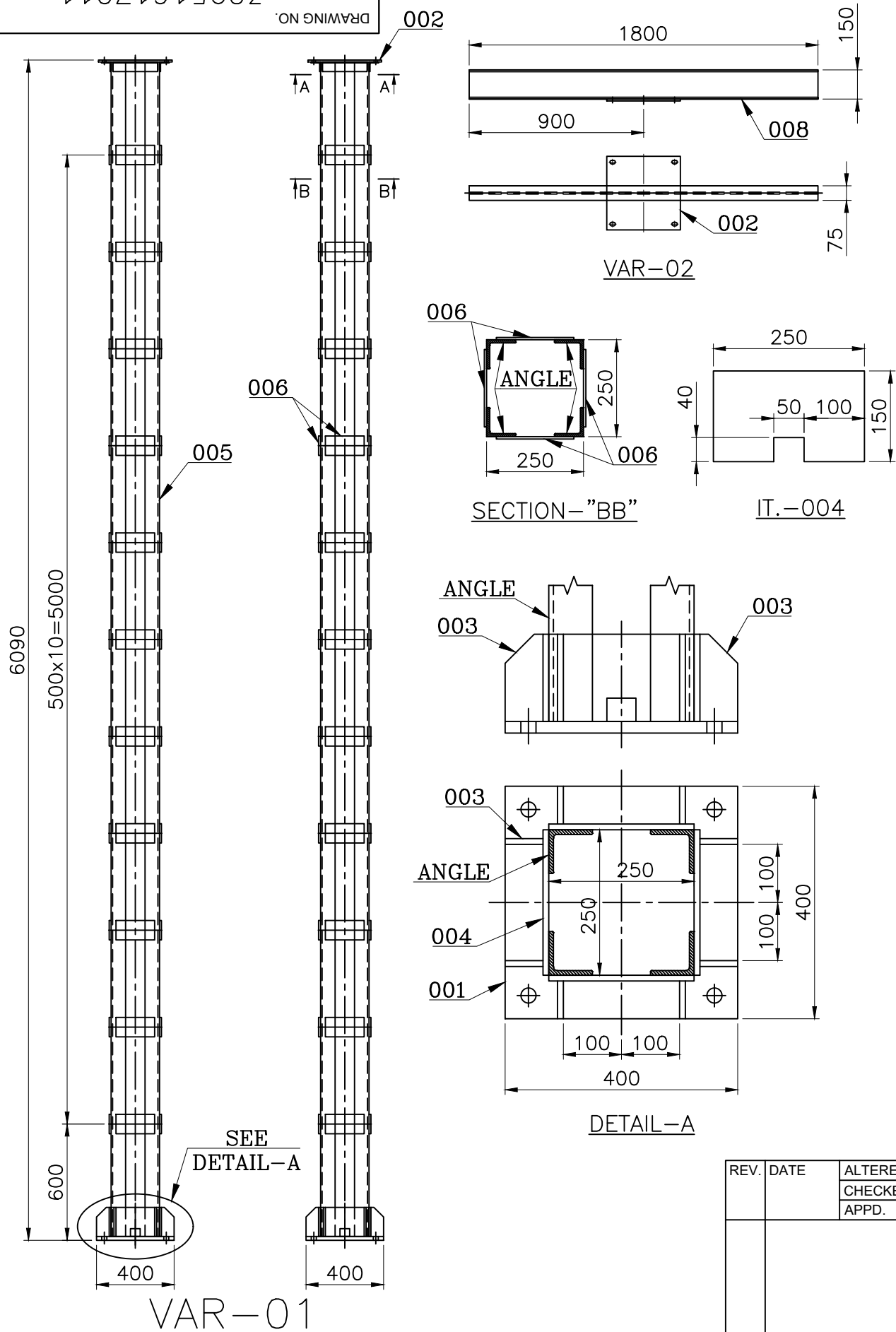
INVENTORY NO.

First Angle Projection

All Dimensions in 'mm'

32951617011

DRAWING NO.



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.

38.20	307.26	VAR. WT. IN KG.					
001		008	ISMB 150 x75 x5 x8x 1800 LG.	S.C.O.		AA 10108	27.000 001
	004	007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.		AA 10108	0.874 001
	044	006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	0.942 001
	004	005	ISA 8TK. x75 x75 x 6060 LG.	S.C.O.		AA 10108	53.934 001
	004	004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	1.751 001
	008	003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	0.449 001
001	001	TOP PLATE 002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	11.199 001
	001	BASE PLATE 001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 10108	24.787 001
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCL. WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
—	m	—	—	—	—	—
TITLE	DRAWING NO.	REV.	SHT. NO.	NO. OF SHT.		
W.ASSY. OF STRUCTURE FOR TYPE-11 SEGREGATED PHASE BUSDUCT	32951617011	00	02	02		

SIZE -A3

First Angle Projection

All Dimensions in 'mm'

32951617012

DRAWING NO.

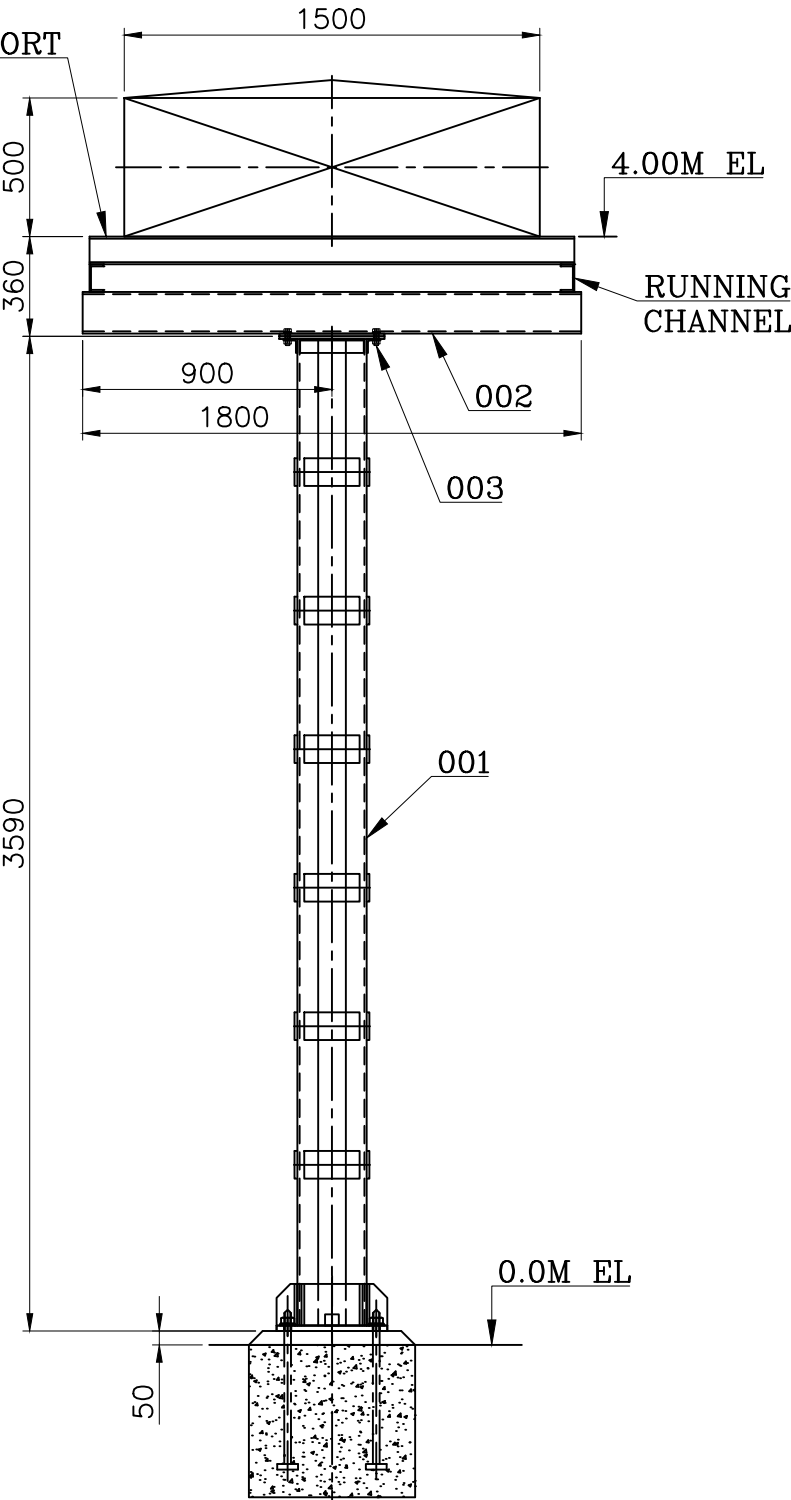
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SIGN. & DATE

INVENTORY NO.

REF. DRG. NO.

INSULATOR SUPPORT
CHANNEL



VAR.00

TYPE-12
FOR SPBD POCKET NO.-
P84

TOTAL NO. OF SET:-
UNIT# 3, 4 & 5 = 01 NOS.

WT. FOR VAR.00 = 238.37 KGS.

004	-	003	SCRU HEX A M16X55 LG. 8.8 STEEL-ZPP (SET)	31001000228	04	0.187	001
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02	38.20	001
001	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01	199.42	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.
RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		07/10/21	
APPD	RUPESH		07/10/21	

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m					
TITLE	ASSY. OF STRUCTURE FOR TYPE-12 SEGREGATED PHASE BUSDUCT			DRAWING NO.	32951617012	REV. 00
		SHT. NO. 01	NO. OF SHT. 02			

SIZE -A3

First Angle Projection

All Dimensions in 'mm'

32951617012

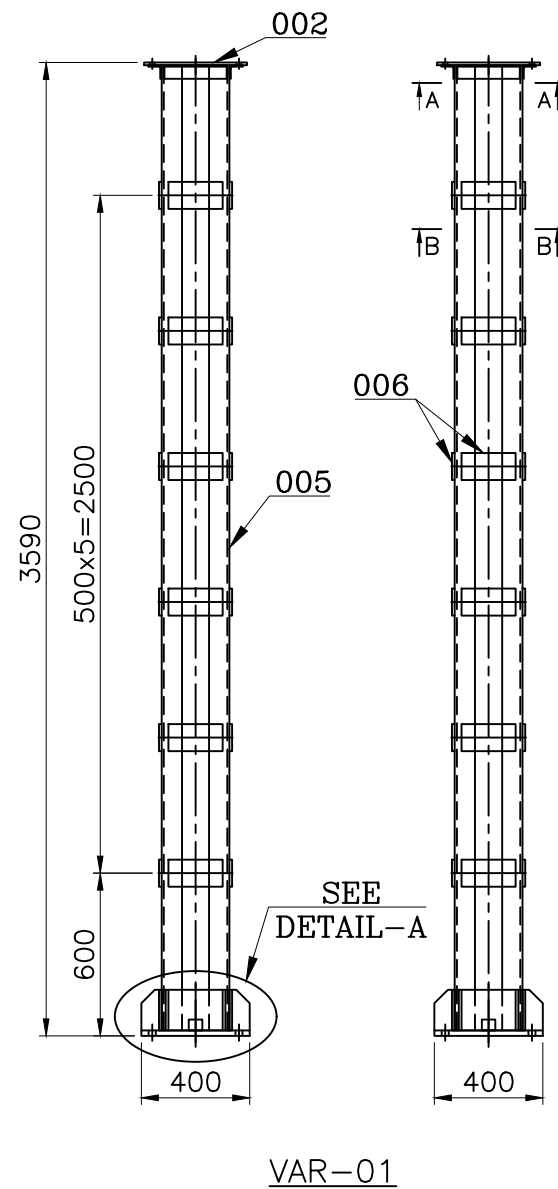
DRAWING NO.

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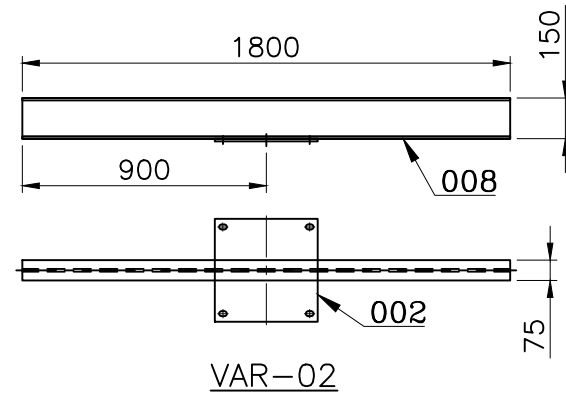
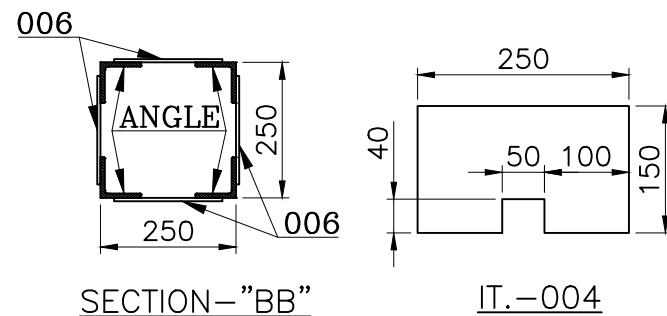
SIGN. & DATE

INVENTORY NO.

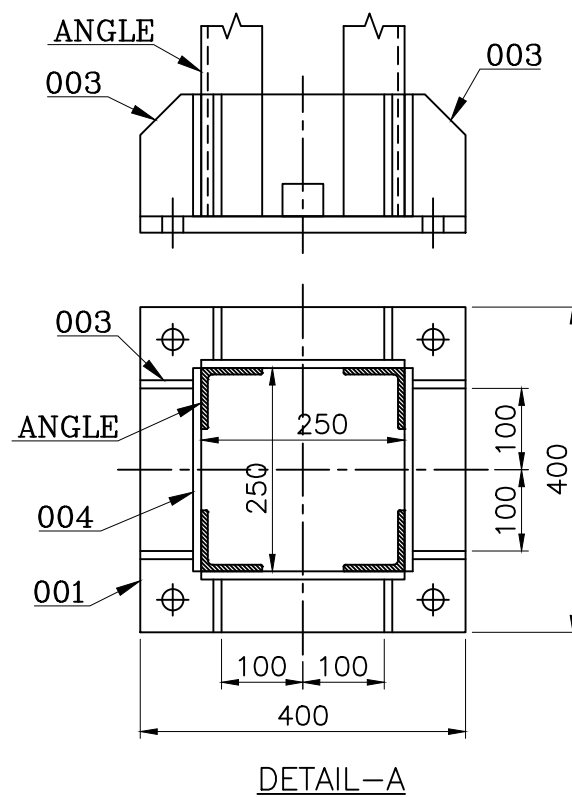
REF. DRG. NO.



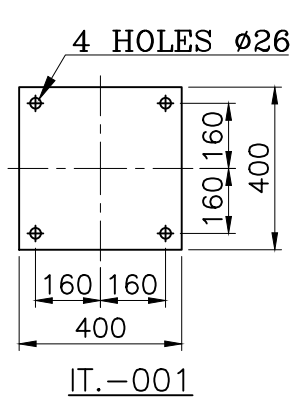
VAR-01



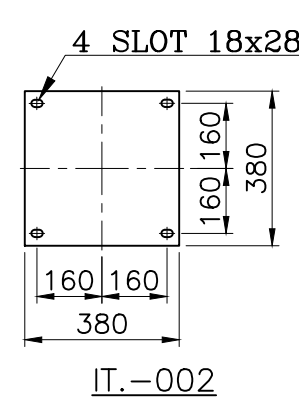
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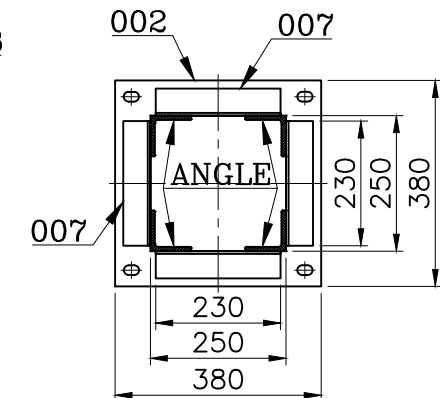
DETAIL-A



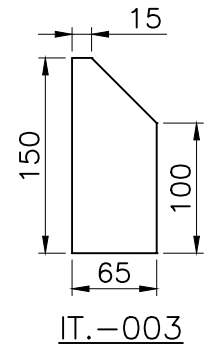
IT.-001



IT.-002



SECTION-"AA"



IT.-003

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.

VAR. WT. IN KG.	38.20	199.42	VAR. WT. IN KG.
001	008	ISMB 150 x 75 x 5 x 8 x 1800 LG.	S.C.O.
004	007	ISA 5TK. x 50 x 50 x 230 LG.	S.C.O.
024	006	6 TK x 100 x 200 LG. STRUCTURE STEEL PLATE	SEE DETAIL
004	005	ISA 8TK. x 75 x 75 x 3560 LG.	S.C.O.
004	004	6 TK x 150 x 250 LG. STRUCTURE STEEL PLATE	SEE DETAIL
008	003	6 TK x 65 x 150 LG. STRUCTURE STEEL PLATE	SEE DETAIL
001	002	10 TK x 380 x 380 LG. STRUCTURE STEEL PLATE	SEE DETAIL
001	001	20 TK x 400 x 400 LG. STRUCTURE STEEL PLATE	SEE DETAIL
VAR 02	VAR 01	REMARKS	ITEM NO.
DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE
WT. QTY.			

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m	—	—	—	—	—
TITLE	W.ASSY. OF STRUCTURE FOR TYPE-12 SEGREGATED PHASE BUSDUCT	DRAWING NO.	32951617012	REV.	00	
SHT. NO.	02	NO. OF SHT.	02			

SIZE -A3

First Angle Projection

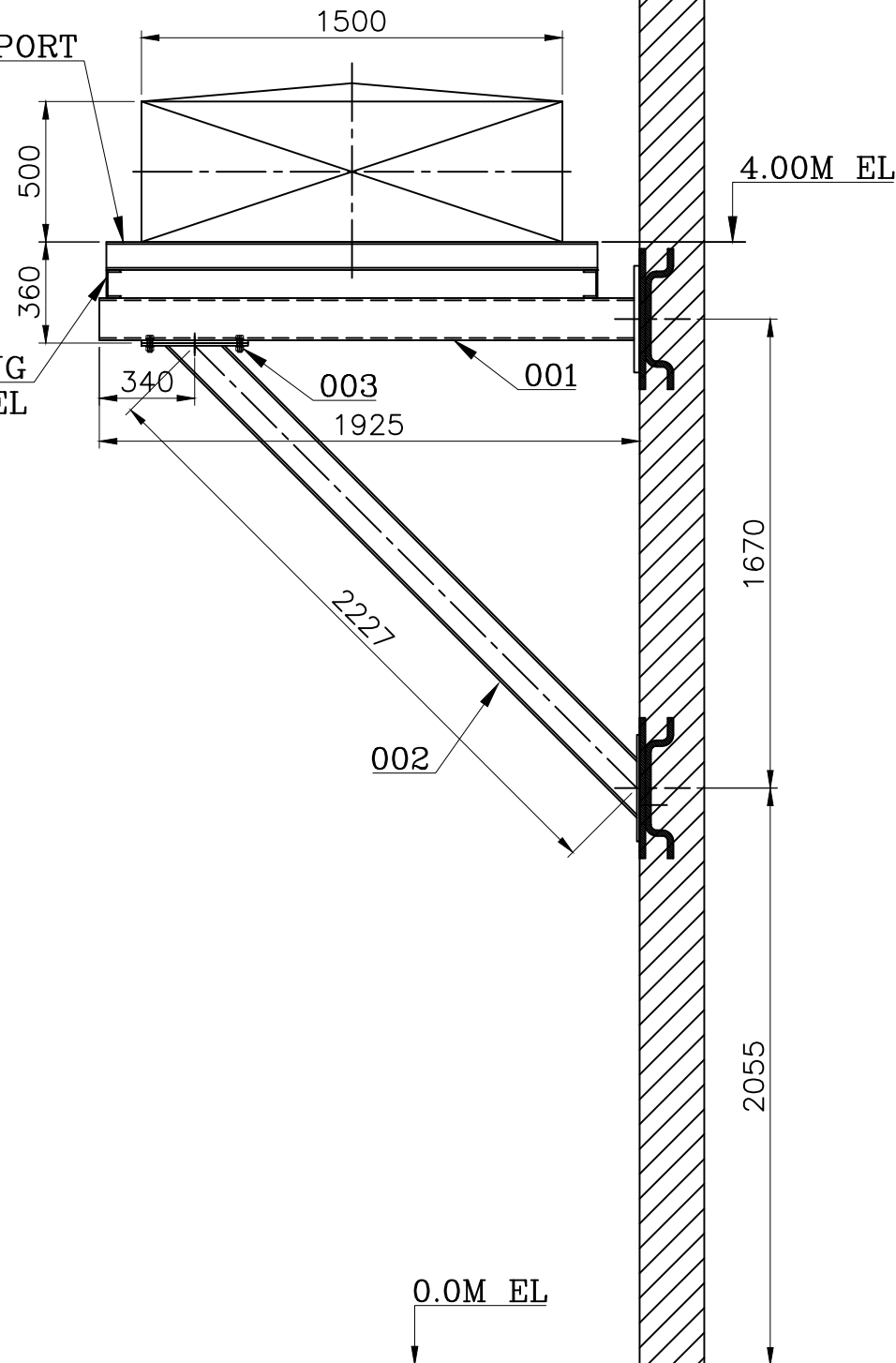
All Dimensions in 'mm'

32951617013

DRAWING NO.

INSULATOR SUPPORT
CHANNEL

RUNNING
CHANNEL

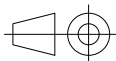


TYPE-13
FOR SPBD POCKET NO.-
S1 TO S26

TOTAL NO. OF SET:-
UNIT# 3, 4 & 5 = 13 NOS.

WT. FOR VAR.00 = 101.07 KGS.

004	-	003	SCRU HEX A M16X55 LG. 8.8 STEEL-ZPP (SET)	31001000228	04	0.187	001
001	-	002	W.A. OF CROSS BEAM	THIS DRG. SHEET 02 OF 02	02	52.50	001
001	-	001	W.A. OF COLUMN	THIS DRG. SHEET 02 OF 02	01	47.82	001
VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA					
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA					
	BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
	RUDRAPUR		CKD	SANJAY		07/10/21	-
			APPD	RUPESH		07/10/21	-
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
CODE	m		-	-		-	-
TITLE				DRAWING NO.		REV.	
ASSY. OF STRUCTURE FOR TYPE-13 SEGREGATED PHASE BUSDUCT				32951617013		00	
		SHT. NO.	01	NO. OF SHT.		02	

SIZE -A3

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

Computer File:- PC: Rupesh Kumar Path: D:\YADADRI\907\SPBD STRUCTURE\YADADRI SPBD STRUCTURE FOR UNIT ALL UNIT.dwg Printed On :10/20/2023 4:38:10 PM

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SIGN. & DATE

INVENTORY NO.

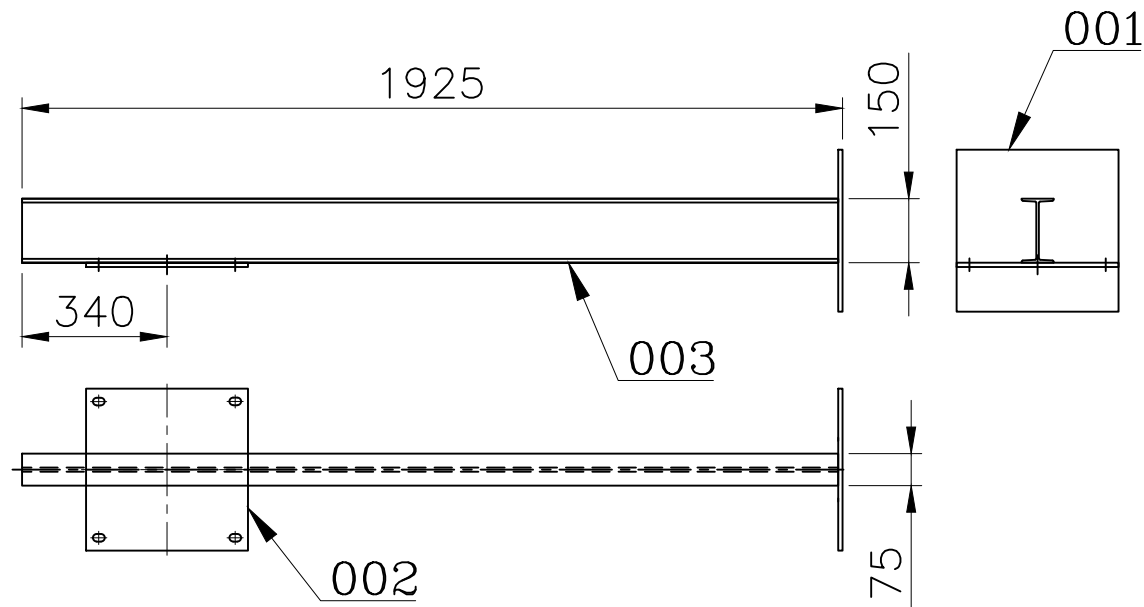
REF. DRG. NO.

First Angle Projection

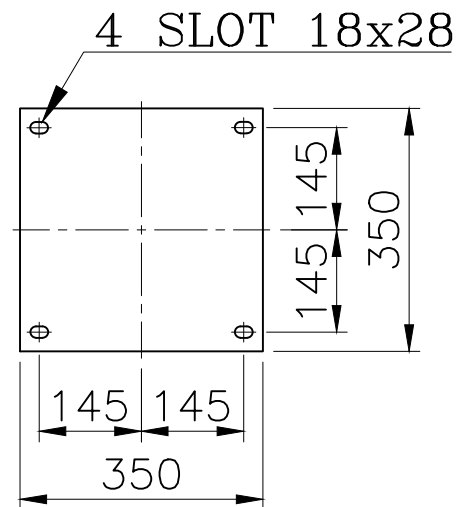
All Dimensions in 'mm'

32951617013

DRAWING NO.



VAR-01

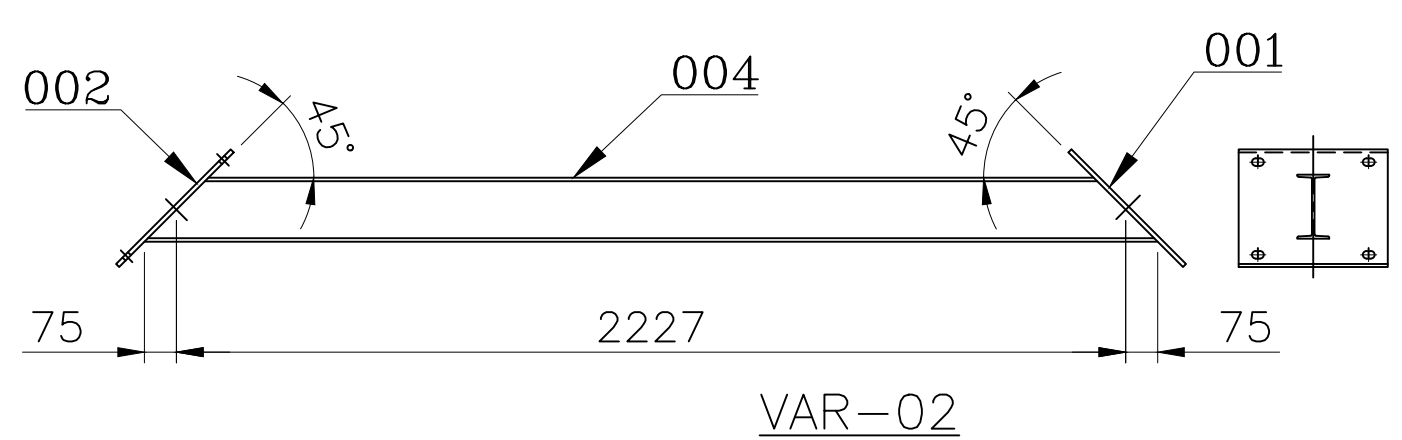


IT.-002

NOTE:-

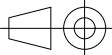
1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
2. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH RELEVANT STANDARDS.
3. MUST MEET THE SHOWING DIMENSIONS.
4. EVERY WELDED ASSY./ITEM NO. SHALL BE IDENTIFIED NEAR EITHER END BY INDELIBLE INK/PAINT/DEPOSITING METAL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

REV.	DATE	ALTERED
		CHECKED
		APPD.



VAR-02

52.50	47.82	VAR. WT. IN KG.						
001			004	ISMB 150 x75 x5 x8x 2377 LG.	SEE DETAIL		AA 101 08	33.405
	001		003	ISMB 150 x75 x5 x8x 1915 LG.	S.C.O.		AA 101 08	28.725
001	001	TOP PLATE	002	10 TK x 350 x 350 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	9.480
001	001	BASE PLATE	001	10 TK x 350 x 350 LG. STRUCTURE STEEL PLATE	SEE DETAIL		AA 101 08	9.616
VAR 02	VAR 01	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA							
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA							
		BHARAT HEAVY ELECTRICALS LTD. RUDRAPUR				NAME	SIGN	DATE	NO. OF VAR
					DRN	SUNNY		07/10/21	
					CKD	SANJAY		07/10/21	
					APPD	RUPESH		07/10/21	
DEPT. BDE	UNTOL.DIMS.GR.		SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM	
CODE —	m		—	—	—		—	—	
TITLE					DRAWING NO.			REV.	
W.ASSY. OF STRUCTURE FOR TYPE-13 SEGREGATED PHASE BUSDUCT					32951617013			00	
					SHT. NO. 02		NO. OF SHT. 02		

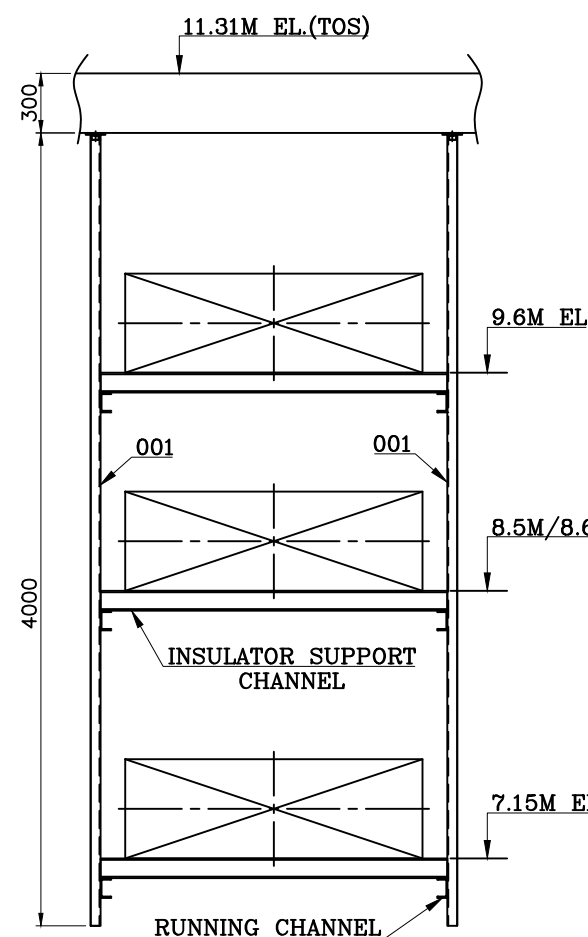
SIZE -A3

First Angle Projection

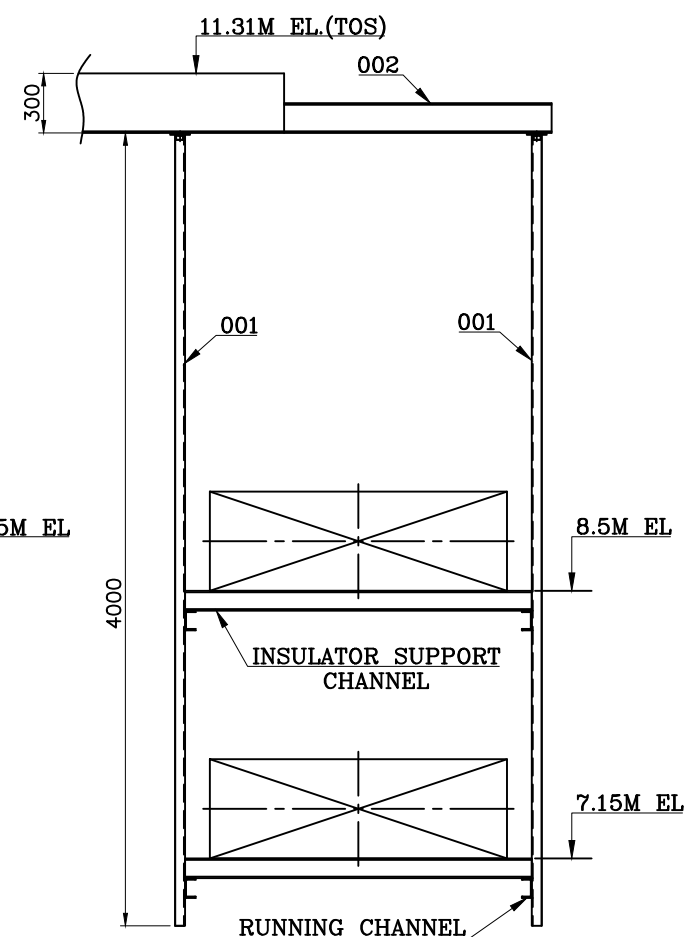
All Dimensions in 'mm'

32951617014

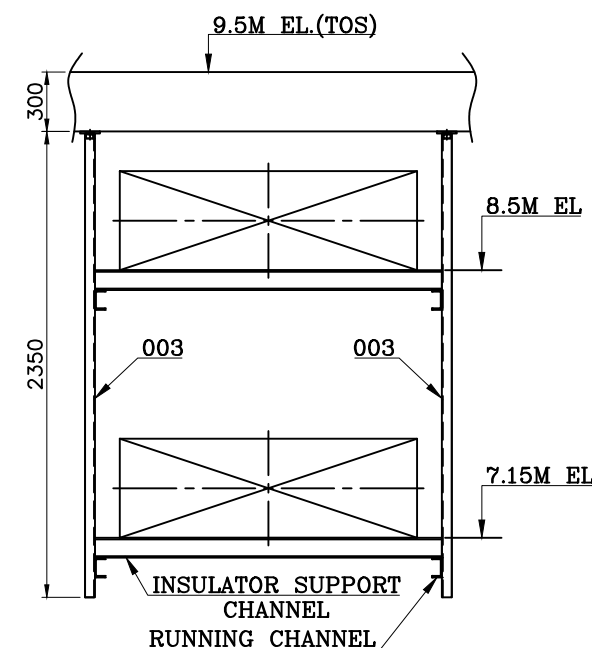
DRAWING NO.



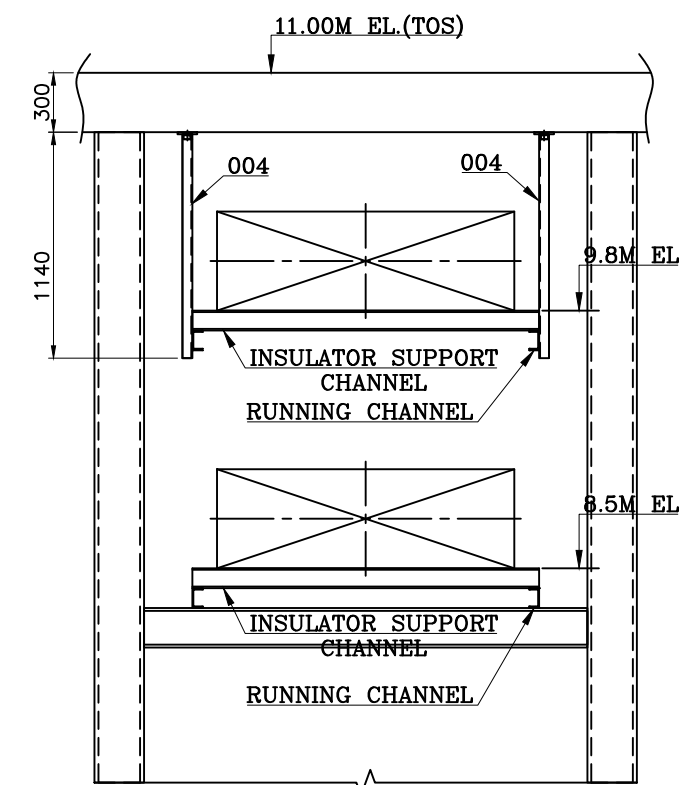
VAR.00



VAR.01



VAR.02



VAR.03

NOTE:

- 1) HANGER / VERTICAL SUPPORTS ARE PLACED AT 1.5 TO 2 METER (APPROX.).

002	--	--	--	--	004	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	06	12.39	001
--	002	--	--	--	003	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	05	23.96	001
--	--	002	--	CUT FROM RUNNING CHANNEL AT SITE	002	CANTILIVER SUPPORT ISMC100x1350 LG.			12.90	001
--	--	002	002	--	001	W.A. OF HANGER	THIS DRG. SHEET 02 OF 02	04	39.73	001
VAR 03	VAR 02	VAR 01	VAR 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO. VAR.	MATL.CODE MATL.SPCN.	WT. QTY.

TYPE-14

TOTAL NO. OF SET
FOR UNIT# 3, 4 & 5
VAR.00 = 10 NOS.
VAR.01 = 10 NOS.
VAR.02 = 05 NOS.
VAR.03 = 65 NOS.

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

NAME OF PROJECT		5x800 MW YADADRI TPS, NALGONDA						
NAME OF CUSTOMER		TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA, INDIA						
		BHARAT HEAVY ELECTRICALS LTD.		DRN	SUNNY	SIGN	DATE	NO. OF VAR
		RUDRAPUR		CKD	SANJAY		06/10/21	
				APPD	RUPESH		06/10/21	
DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.		ITEM NO.		NO. OF ITEM
CODE	m			-		-		-
TITLE				DRAWING NO.		REV.		
ASSY. OF STRUCTURE FOR TYPE-14 SEGREGATED PHASE BUSDUCT				32951617014		00		
				SHT. NO. 01		NO. OF SHT. 02		

SIZE -A3

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

SIGN. & DATE

INVENTORY NO.

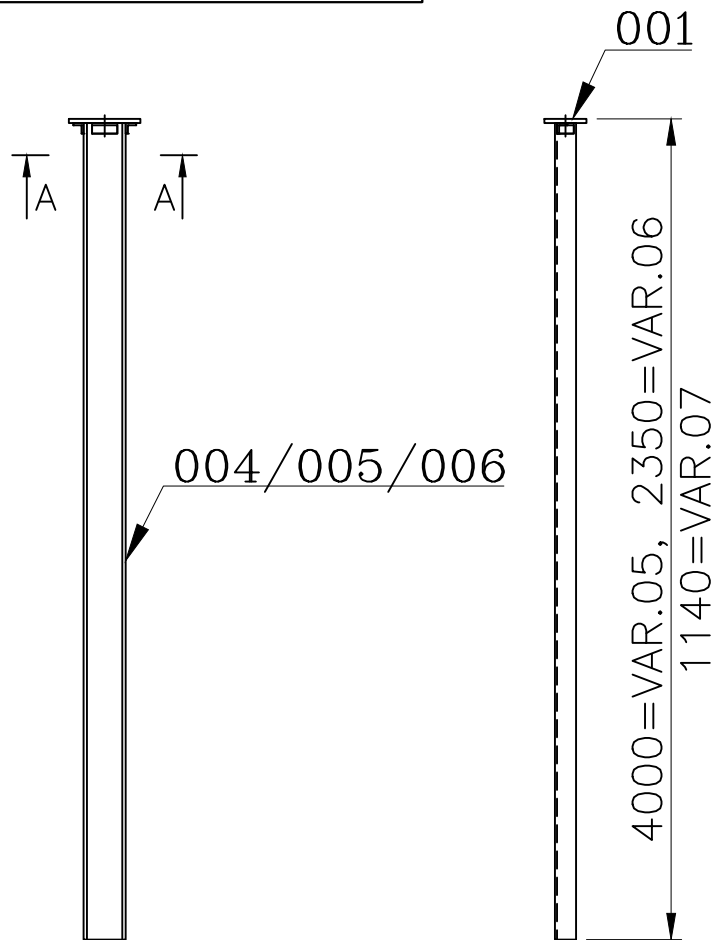
REF. DRG. NO.

First Angle Projection

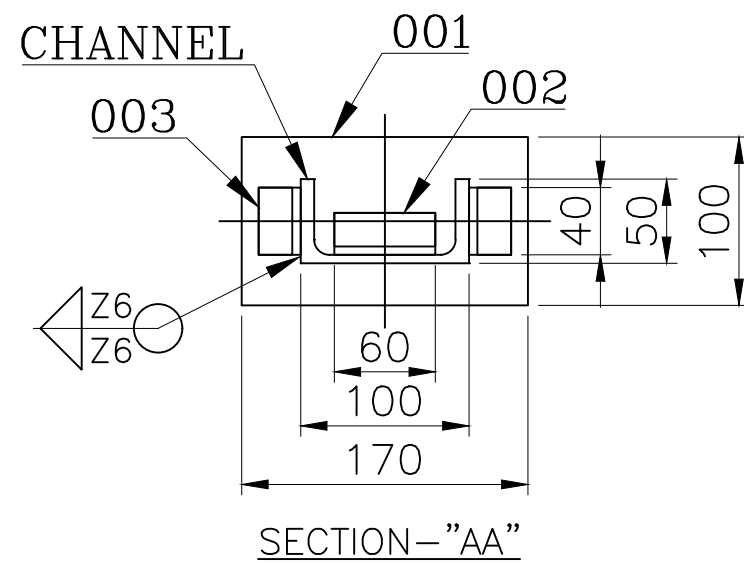
All Dimensions in 'mm'

32951617014

DRAWING NO.



VAR-04, 05, 06



NOTE:-

1. ALL STRUCTURE STEEL TO BE AS PER IS:2062 & HOT DIP GALVANIZED AS PER IS:2629/IS:2633.
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3. MUST MEET THE SHOWING DIMENSIONS.
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06	05	04	←VAR. NO.						
12.39	23.96	39.73	←WEIGHT IN KG.						
001				006	ISMC 100 x50 x5 x7.7x 1130 LG.	S.C.O.	AA 101 08	10.803	001
	001			005	ISMC 100 x50 x5 x7.7x 2340 LG.	S.C.O.	AA 101 08	22.370	001
		001		004	ISMC 100 x50 x5 x7.7x 3990 LG.	S.C.O.	AA 101 08	38.144	001
002	002	002		003	ISA 5TK. x 25 x 25 x 40 LG.	S.C.O.	AA 101 08	0.072	001
001	001	001		002	ISA 5TK. x 25 x 25 x 60 LG.	S.C.O.	AA 101 08	0.108	001
001	001	001		001	10 TK x 100 x 170 LG. STRUCTURE STEEL PLATE	S.C.O.	AA 101 08	1.335	001
VAR 06	VAR 05	VAR 04	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO. VAR.	MAT. CODE MAT. SPCN.	WT. QTY.

NAME OF PROJECT 5x800 MW YADADRI TPS, NALGONDA
NAME OF CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD
TELANGANA, INDIA



BHARAT HEAVY ELECTRICALS LTD.

RUDRAPUR

DRN	NAME	SIGN	DATE	NO. OF VAR
CKD	SUNNY		06/10/21	
APPD	SANJAY		06/10/21	
	RUPESH		06/10/21	

DEPT. BDE	UNTOL.DIMS.GR.	SCALE	WEIGHT(KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	m					
TITLE				DRAWING NO.	REV.	
W.ASSY. OF STRUCTURE FOR TYPE-14 SEGREGATED PHASE BUSDUCT				32951617014	00	
				SHT. NO. 02	NO. OF SHT. 02	

SIZE -A3