



NOTE : DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS, TO BE CHECKED DURING ACCEPTANCE TESTS.

**ANNEXURE-II (SURGE ARRESTERS)**

**GUARANTEED TECHNICAL PARTICULARS FOR 216KV 10KA TYPE-SM METAL OXIDE GAPLESS PORCELAIN LIGHTNING ARRESTER**

1. Name of Manufacturer : LAMCO INDUSTRIES PRIVATE LIMITED.,  
H.O & WORKS: SANATHNAGAR-IE, HYD  
WORKS: AUTOMOTIVE PARK, TSIIC,  
MUPPIREDDYPALLY, T.S, INDIA.
2. Arrester class & type : Medium Duty Station Class Metal Oxide  
Gapless Lightning Arrester "MORESTER"  
Type-SM, MODEL-'LMAS'
3. Applicable standard : IEC 60099-4 of 2014
4. Rated arrester voltage KV : 216
5. Max. con. operating voltage MCOV KV : 184
6. Nominal discharge current with  
8/20 micro seconds wave KA : 10
7. Long duration discharge Class : 3 (STATION MEDIUM)
8. Thermal Energy Rating "kJ/kV of Ur" : 7
9. Max. switching current impulse  
residual voltage at
  - i) 1000 A kVpeak : 494
10. Max. residual voltage with 1 micro  
second current wave at 10KA KVPeak : 654
11. Max. residual voltage with 8/20 mic.  
sec.wave
  - i) 5 KA KVpeak : 567
  - ii) 10 KA KVpeak : 602
  - iii) 20 KA KVpeak : 668
12. Safe fault current KArms : 40 @ 0.2Sec
13. Lightning impulse withstand voltage of  
arrester housing with 1.2/50 us wave KVpeak: 1050
14. One minute power frequency withstand  
voltage of housing dry-wet KVrms : 460
15. Repetitive Charge Transfer Rating Qrs : 1.6C

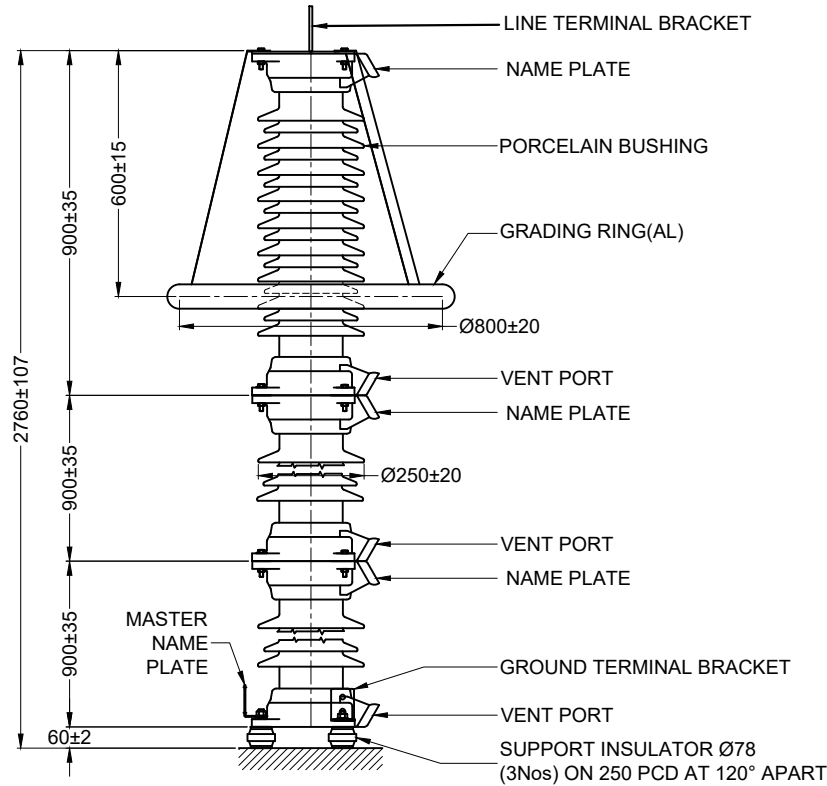
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DRAWING No.: DRAWINGNO.

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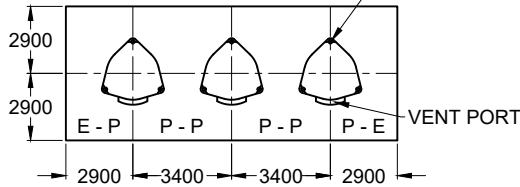


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3 MOUNTING HOLES Ø12.5 ON 250 PCD

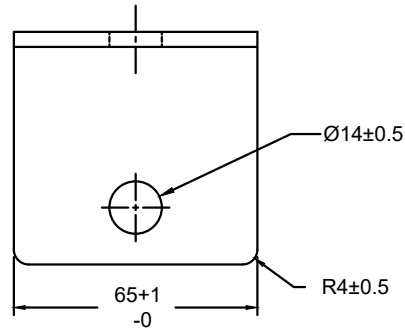


NOTE :

1. FOR SURGE MONITOR REFER Drg.No. : 4249001A.
2. FOR INSTALLATION AND INTERCONNECTION REFER Drg. No. : 4320011.
3. TOTAL CREEPAGE DISTANCE 7595 mm (NOM).
4. ARRESTER VENT PORTS SHOULD BE DIRECTED TOWARDS SAFE DIRECTION.
5. WEIGHT OF THE ARRESTER : 191±10% Kgs.

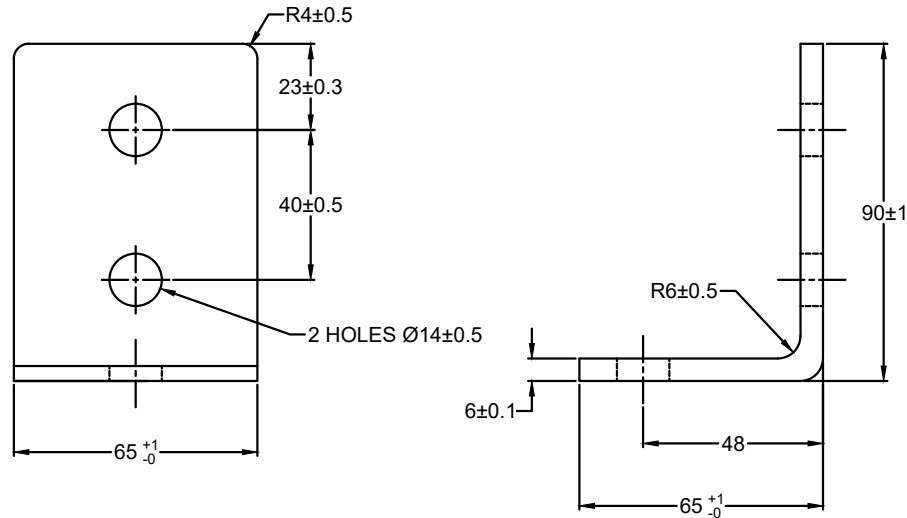
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REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD. STATUS
OWNER:		TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED				
CONTRACTOR:		AS APPLICABLE				
PROJECT:		AS APPLICABLE				
L.O.I No.:		AS APPLICABLE				
TITLE:		216KV, 10KA LIGHTNING ARRESTER (MORESTER TYPE-SM, MODEL- LMAS)				
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 2212167		A2	NTS	01	01of01	02

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NOTE :

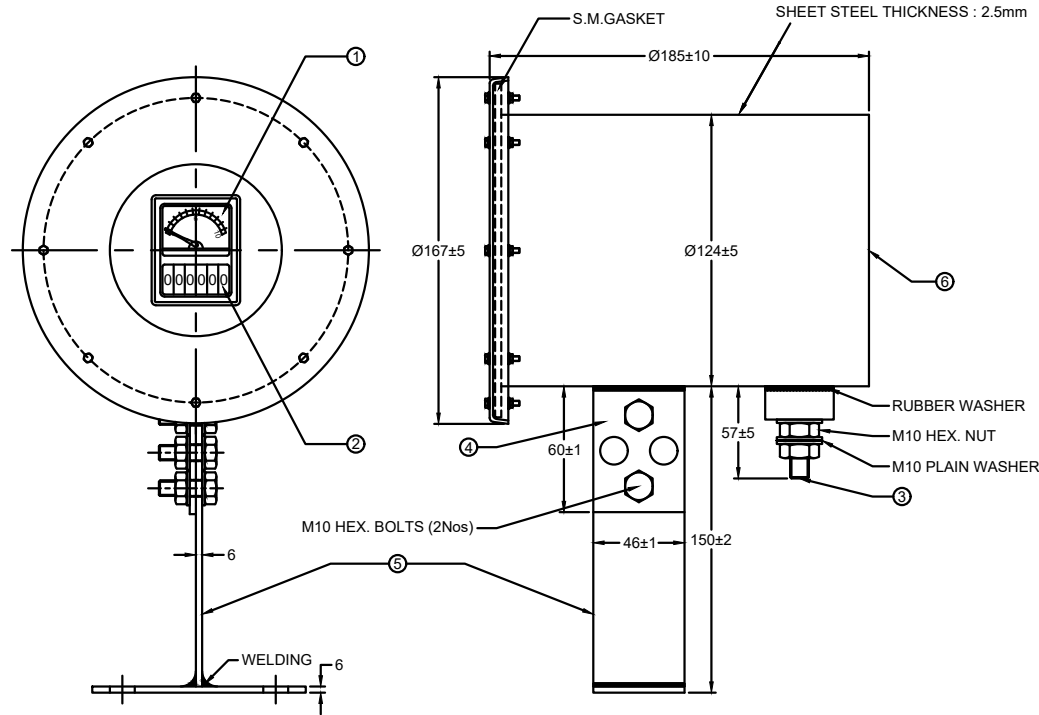
1. MATERIAL : M.S.PLATE.
2. FINISH : HOT DIP GALVANISED.
3. WEIGHT : 400 gms.±10%

01	FIRST SUBMISSION	03.05.2023	K.B	K.A	K.A	K.A
REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD. STATUS
OWNER: TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED						
CONTRACTOR: AS APPLICABLE						
PROJECT: AS APPLICABLE						
L.O.I No.: AS APPLICABLE						
TITLE: GROUND TERMINAL BRACKET						
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 6220154		A2	NTS	01	01of01	01

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1. LEAKAGE CURRENT MONITOR.
2. SURGE COUNTER, CYCLOMETRIC TYPE.
3. LINE TERMINAL.
4. S.M. - STRIP (EARTH TERMINAL).
5. S.M. - MOUNTING BRACKET.
6. HOT DIP GALVANISED S.M. - BOX.
  - a) 0 - 6mA (HEALTHY) GREEN ZONE
  - b) 6 - 10mA (DANGER) RED ZONE

**NOTE :**

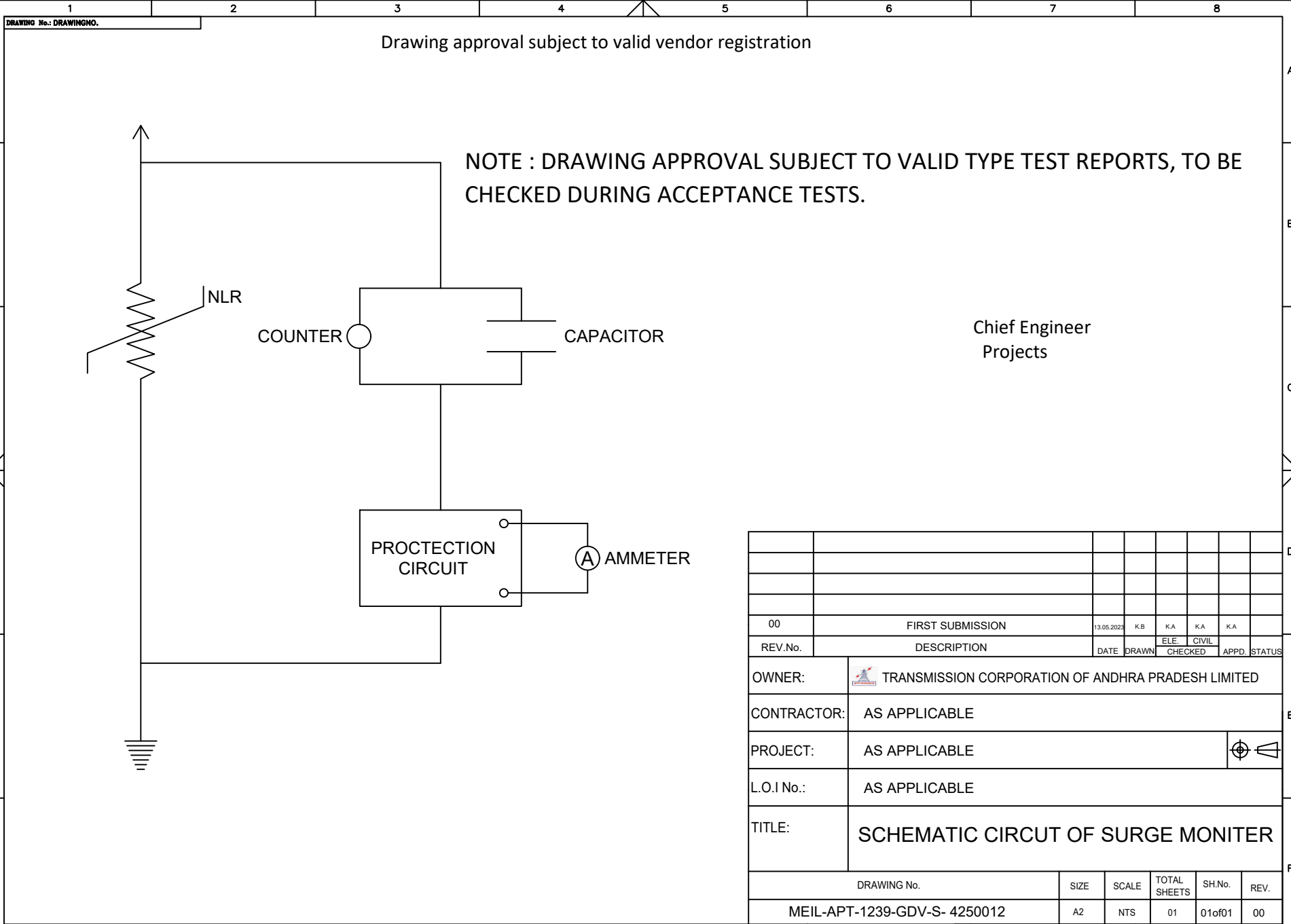
- \* DEGREE OF PROTECTION : IP - 67
- \* SEALANT APPLIED AT GASKETS
- \* STANDARD : IS / IEC 60947-1 : 2004
- \* GASKET DETAILS:  
 MATERIAL : NEOPRENE RUBBER.  
 SIZE : OD-161mm, ID-125mm, Thick-5mm.  
 CROSS SECTION VIEW OF GASKET Ref. Drg. No.4250002  
 WEIGHT : 2.8Kgs ± 10%.

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REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD.	STATUS
OWNER:		TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED					
CONTRACTOR:		AS APPLICABLE					
PROJECT:		AS APPLICABLE					
L.O.I No.:		AS APPLICABLE					
TITLE:		SURGE MONITOR G.A.					
DRAWING No.			SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 4249001A			A2	NTS	01	01of01	01

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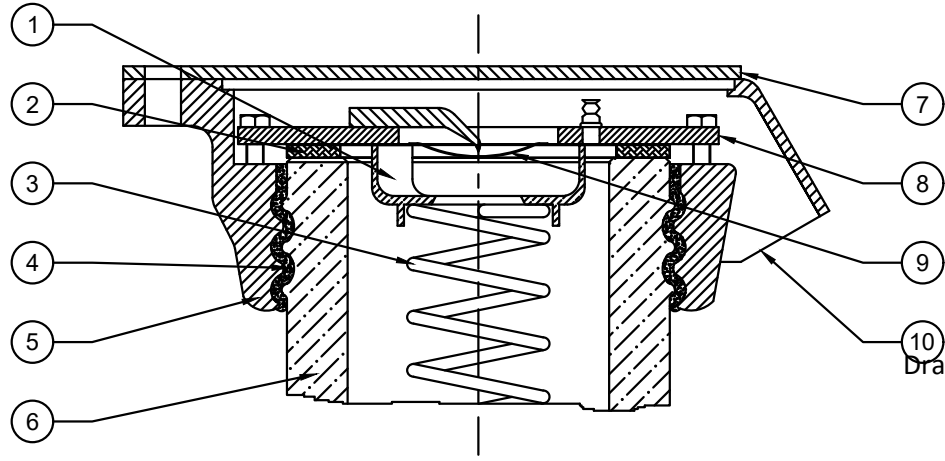
REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD.	STATUS
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OWNER:		TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED					
CONTRACTOR:		AS APPLICABLE					
PROJECT:		AS APPLICABLE					
L.O.I No.:		AS APPLICABLE					
TITLE:		SCHEMATIC CIRCUIT OF SURGE MONITER					
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.	
MEIL-APT-1239-GDV-S- 4250012		A2	NTS	01	01of01	00	

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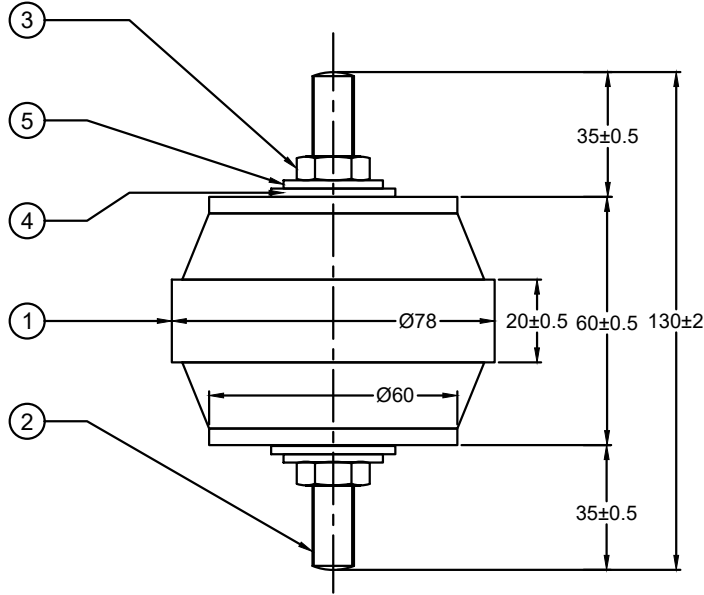
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S.No.	ITEM	MATERIAL
1.	SP. SUPPORT.	ALUMINIUM
2.	RUBBER GASKET.	NEOPRENE ,5mm THICK
3.	SPRING.	SPRING STEEL
4.	SULPHUR CEMENT.	SULPHUR CEMENT
5.	CASTING.	ALUMINIUM (LM-6)
6.	BUSHING.	PORCELAIN
7.	END COVER PLATE.	ALUMINIUM
8.	COVER PLATE.	M.S (HOT DIP GALVANIZED)
9.	PRESSURE RELIEF DIAPHRAGM.	BRASS
10.	VENT PORT.	ALUMINIUM

01	FIRST SUBMISSION	93.05.2023	KB	KA	KA	KA
REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD. STATUS
OWNER:		TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED				
CONTRACTOR:		AS APPLICABLE				
PROJECT:		AS APPLICABLE				
L.O.I No.:		AS APPLICABLE				
TITLE:		PRESSURE RELIEF AND SEALING ARRANGEMENT OF MORESTER				
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 4220041		A2	NTS	01	01of01	01

DRAWING No.: DRAWINGNO.

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NOTE :

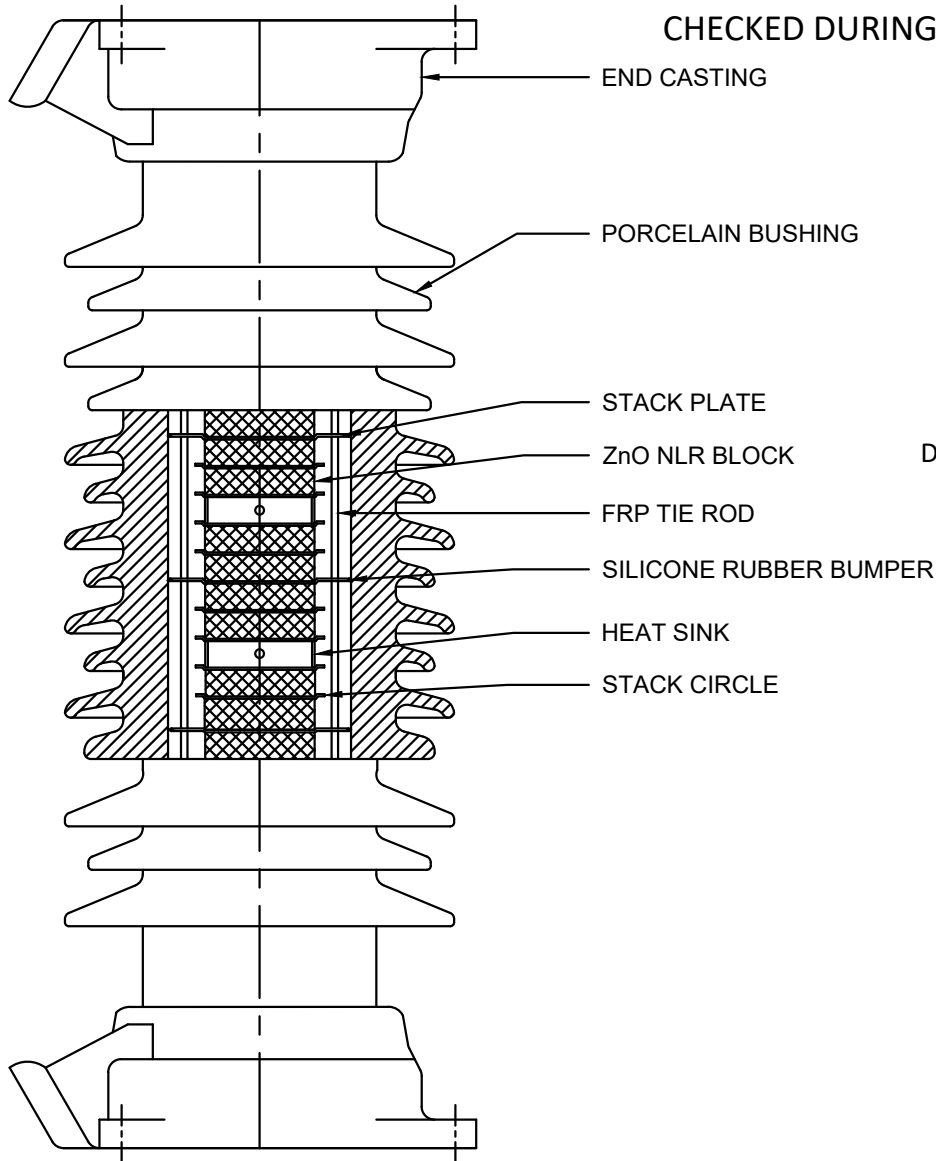
- 1. MATERIAL : POLYCRETE.
- 2. WEIGHT : 550 Gms.±10%

5	SPRING WASHER M12	SP. STEEL	2
4	PLAIN WASHER M12	S.S.	2
3	NUT M12	S.S.	2
2	STUD M12	S.S.	2
1	INSULATOR	POLYCRETE	1
ITEM	DESCRPTION	MATERIAL	QTY.

02	FIRST SUBMISSION	13.05.2023	K.B	K.A	K.A	K.A
REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD. STATUS
OWNER:	TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED					
CONTRACTOR:	AS APPLICABLE					
PROJECT:	AS APPLICABLE					
L.O.I No.:	AS APPLICABLE					
TITLE:	SUPPORT INSULATOR					
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 6221021A		A2	NTS	01	01of01	02

DRAWING No.: DRAWINGNO.

NOTE : DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS, TO BE CHECKED DURING ACCEPTANCE TESTS.



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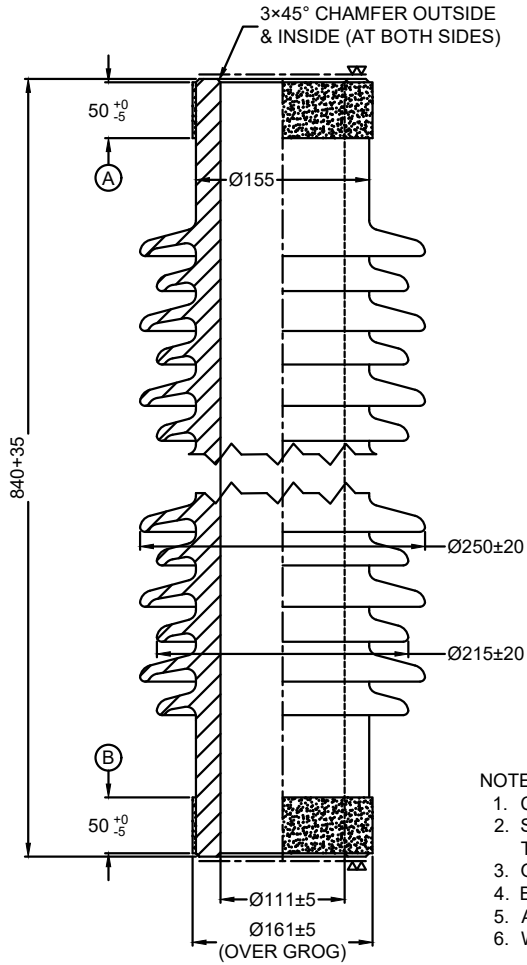
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REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD.	STATUS
OWNER:		TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED					
CONTRACTOR:		AS APPLICABLE					
PROJECT:		AS APPLICABLE					
L.O.I No.:		AS APPLICABLE					
TITLE:		SECTIONAL VIEW OF MORESTER					
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.	
MEIL-APT-1239-GDV-S- 4220200		A2	NTS	01	01of01	01	

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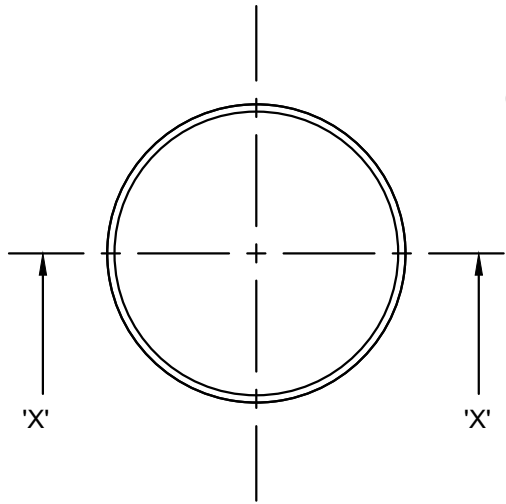
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- NOTE :
1. CREEPAGE DISTANCE FROM A TO B 2532 (MIN).
  2. SURFACES MARKED ' ∇ ' UNGLAZED, PARALLEL TO EACH OTHER AND PERPENDICULAR TO AXIS.
  3. GLAZE : DARK BROWN.
  4. BORE SHOULD BE STRAIGHT AND UNIFORM DIA.
  5. APPLICABLE STANDARD - IS : 5621 - 1980.
  6. WEIGHT : 42±10 %Kgs.

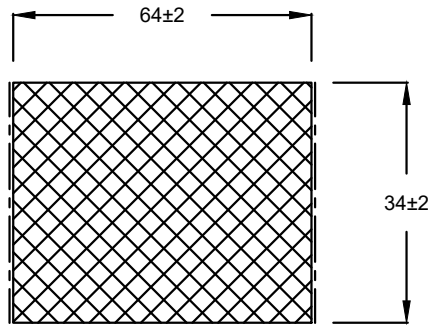
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REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD.	STATUS
OWNER:		TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED					
CONTRACTOR:		AS APPLICABLE					
PROJECT:		AS APPLICABLE					
L.O.I No.:		AS APPLICABLE					
TITLE:		PORCELAIN BUSHING - CREEPAGE DISTANCE - 2532mm (MIN)					
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.	
MEIL-APT-1239-GDV-S- 6220008		A2	NTS	01	01of01	01	

DRAWING No.: DRAWINGNO.



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SECTION AT 'XX'

TECHNICAL PARAMETERS :

- 1. RATED VOLTAGE (Ur) : 4.5kV (rms)
- 2. MCOV (Uc) : 3.82 kV (rms)
- 3. NOMINADISCHARGE CURRENT (In): 10KA (PEAK)
- 4. TYPE : STATION MEDIUM
- 5. REFERENCE STANDARD : IEC 60099-4 ,Ed.3.0,2014-06

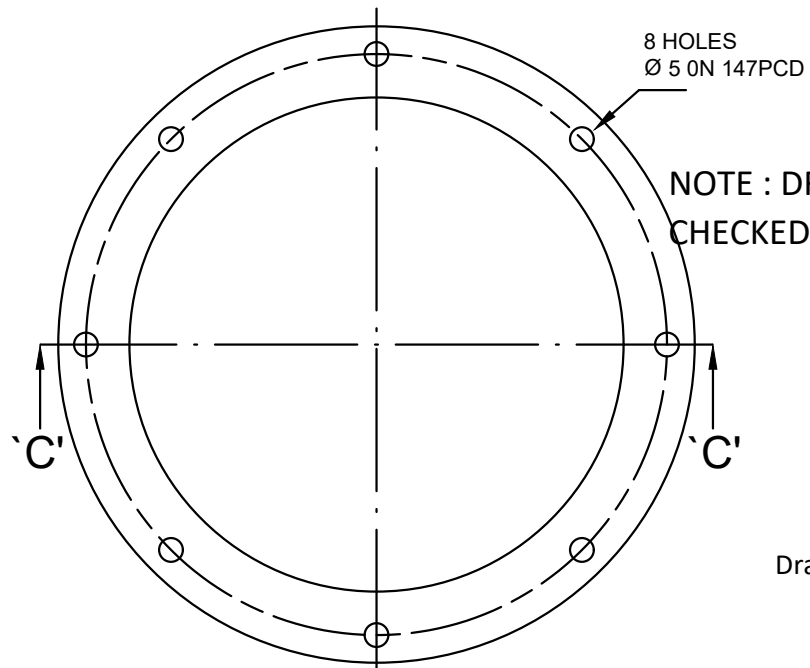
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00	FIRST SUBMISSION	13.05.2023	K.B	K.A	K.A	K.A

OWNER:	TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED
CONTRACTOR:	AS APPLICABLE
PROJECT:	AS APPLICABLE
L.O.I No.:	AS APPLICABLE

TITLE:	<b>ZINC OXIDE BLOCK 4.5KV 10KA CLASS - 3</b>				
DRAWING No.	SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 6220080	A2	NTS	01	01of01	00

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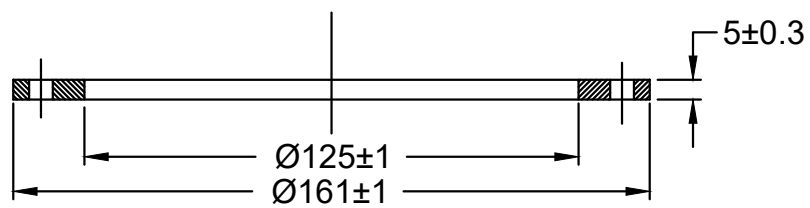
DRAWING No.: DRAWINGNO.



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MATERIAL : NEOPRENE RUBBER  
HARDNESS : 55 TO 60 SHORE 'A'  
WEIGHT : 35 gms. ±10%

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REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD. STATUS

OWNER:	TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED				
CONTRACTOR:	AS APPLICABLE				
PROJECT:	AS APPLICABLE				⊕
L.O.I No.:	AS APPLICABLE				
TITLE:	S.M. ROUND GASKET				

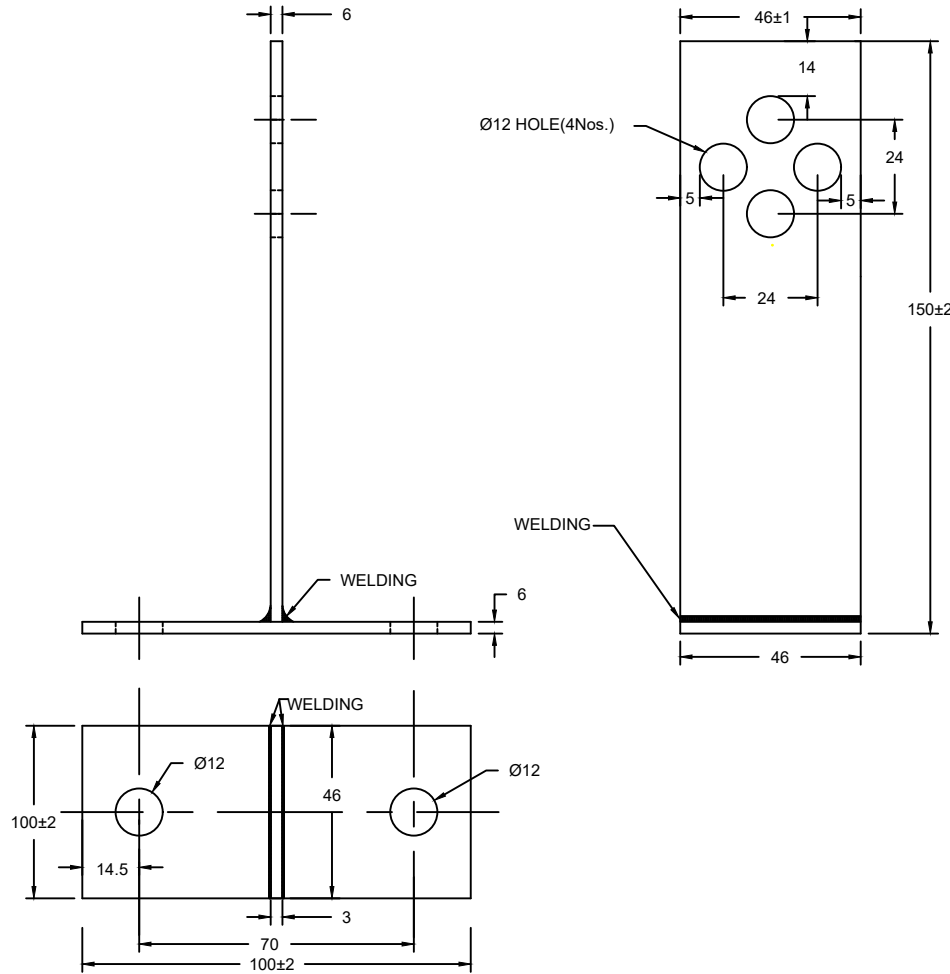
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MEIL-APT-1239-GDV-S- 4250002	A2	NTS	01	01of01	01

DRAWING No.: DRAWINGNO.

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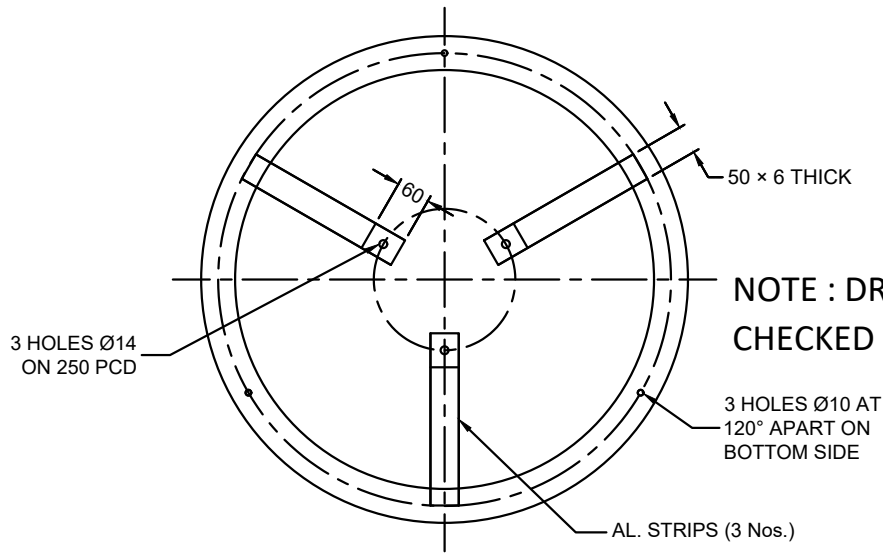
MATERIAL : HDG

REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD.	STATUS
01	FIRST SUBMISSION	03.05.2023	KB	KA	KA	KA	
OWNER:		TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED					
CONTRACTOR:		AS APPLICABLE					
PROJECT:		AS APPLICABLE					
L.O.I No.:		AS APPLICABLE					
TITLE:		S.M - MOUNTING BRACKET					
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.	
MEIL-APT-1239-GDV-S- 4250010		A2	NTS	01	01of01	01	

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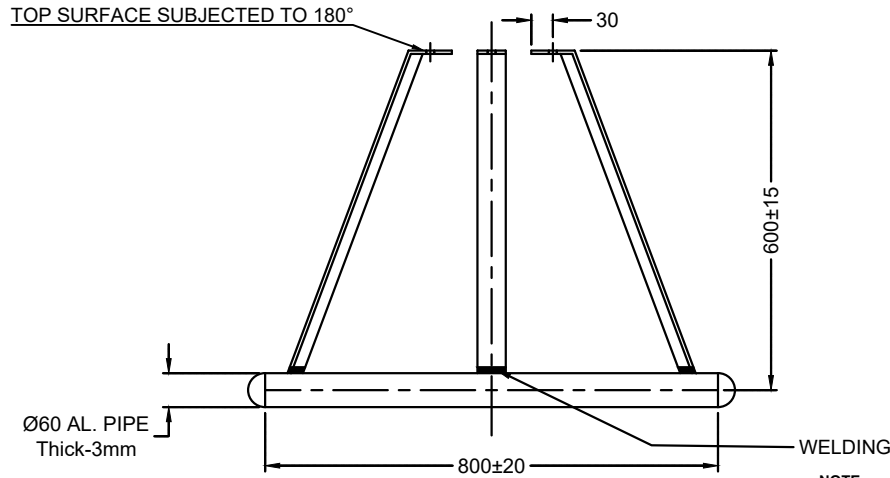
DRAWING No.: DRAWINGNO.



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**NOTE :**  
 \* MATERIAL : ALUMINIUM  
 \* FINISH : BUFFING  
 \* SCRATCHES & SHARP CORNERS SHOULD BE NOT ALLOWED  
 \* WEIGHT : 5.5 Kg's ±10%


01	FIRST SUBMISSION	03.05.2023	K.B	K.A	K.A	K.A
REV.No.	DESCRIPTION	DATE	DRAWN	CHECKED	APPD.	STATUS

OWNER: TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

CONTRACTOR: AS APPLICABLE

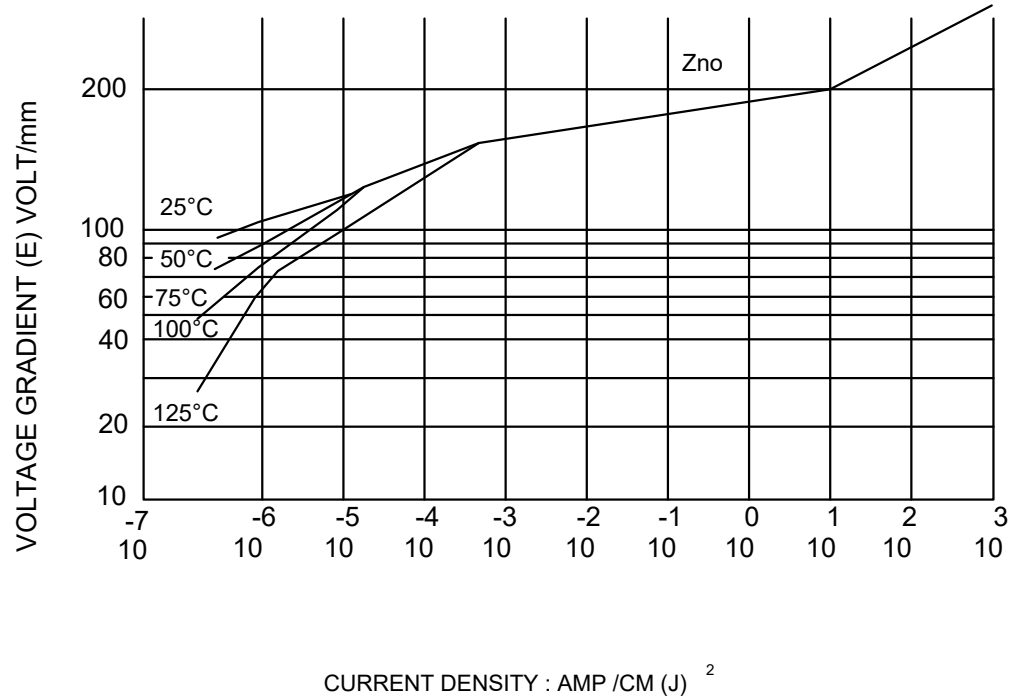
PROJECT: AS APPLICABLE

L.O.I No.: AS APPLICABLE



TITLE: **Ø800 GRADING RING FOR MORESTER**

DRAWING No.	SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 6221039	A2	NTS	01	01of01	01

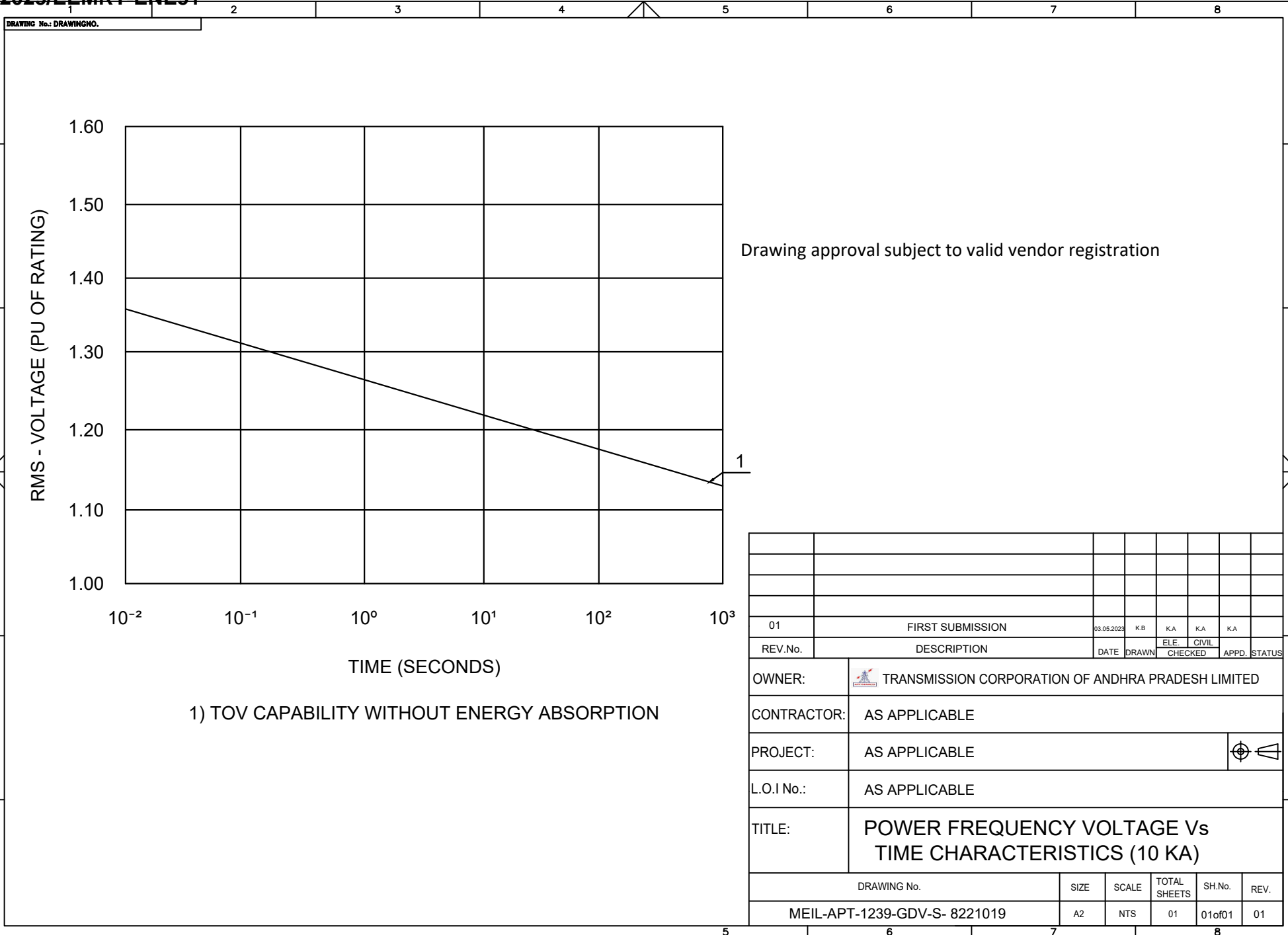
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REV.No.	DESCRIPTION	DATE	DRAWN	ELE. CHECKED	CIVIL	APPD. STATUS
OWNER:		 TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED				
CONTRACTOR:		AS APPLICABLE				
PROJECT:		AS APPLICABLE 				
L.O.I No.:		AS APPLICABLE				
TITLE:		<b>CHARACTERISTIC CURVES OF ZnO ELEMENTS</b>				
DRAWING No.			SIZE	SCALE	TOTAL SHEETS	SH.No.
MEIL-APT-1239-GDV-S- 8221010			A2	NTS	01	01 of 01
			REV.			
			01			

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1) TOV CAPABILITY WITHOUT ENERGY ABSORPTION

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REV.No.	DESCRIPTION	DATE	DRAWN	CHECKED	APPD.	STATUS
01	FIRST SUBMISSION	03.05.2023	K.B	K.A	K.A	K.A

OWNER:	TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED
CONTRACTOR:	AS APPLICABLE
PROJECT:	AS APPLICABLE
L.O.I No.:	AS APPLICABLE
TITLE:	<b>POWER FREQUENCY VOLTAGE Vs TIME CHARACTERISTICS (10 KA)</b>

DRAWING No.	SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 8221019	A2	NTS	01	01of01	01

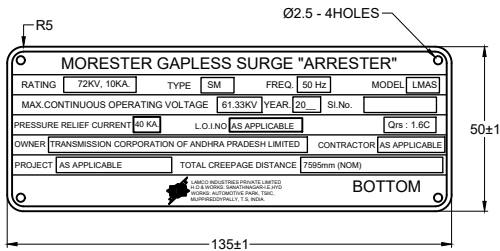
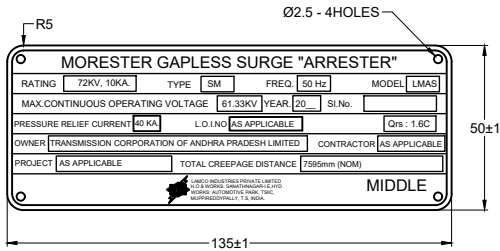
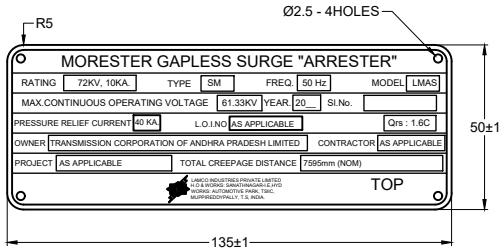
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- NOTE:
1. MATERIAL : THICKNESS 0.51mm (25SWG) ALUMINIUM SHEET.
  2. PRINTING :
    - a. BORDER LINE AND LETTERS WITH ON BLACK BACKGROUND.
    - b. LETTER 'L' IN MONOGRAM IS BLACK ON WHITE BACK GROUND.
    - c. RECTANGULAR BLANKS WHITE, LETTERS BLACK.
    - d. LETTERS TO BE ETCHED.

04	FIRST SUBMISSION	02.06.2023	K.B	K.A	K.A	K.A
REV.No.	DESCRIPTION	DATE	DRAWN	CHECKED	APPD.	STATUS
OWNER:		TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED				
CONTRACTOR:		AS APPLICABLE				
PROJECT:		AS APPLICABLE				
L.O.I No.:		AS APPLICABLE				
TITLE:		<b>GENERAL NAME PLATE MORESTER</b>				
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 8004401		A2	NTS	01	01of01	04

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<b>MORESTER GAPLESS SURGE "ARRESTER"</b>			
RATING	216KV, 10 KA	MODEL	LMAS
MAX. CONTINUOUS OPERATING VOLTAGE	184 KV rms		
TYPE	SM		
PRESSURE RELIEF CURRENT	40 KA		
FREQ	50 Hz	YEAR	20
		Sl. No.	
Qrs : 1.6C	BIL	1050 KVp	UNIT
			POSITION
OWNER	TRANSMISSION CORPORATION OF ANDHRA	72kV	A
	PRADESH LIMITED	72kV	B
CONTRACTOR	AS APPLICABLE	72kV	C
L.O.I.NO	AS APPLICABLE		
PROJECT	AS APPLICABLE		
TOTAL CREEPAGE DISTANCE	7595 mm (NOM)		
 LAMCO INDUSTRIES PRIVATE LIMITED H.O & WORKS: SANATHNAGAR-I.E, HYD WORKS: AUTOMOTIVE PARK, TSIC, MUPPIREDDYPALLY, T.S, INDIA.			

85±1.0


95±1.0

Ø2.5 HOLES (4Nos)

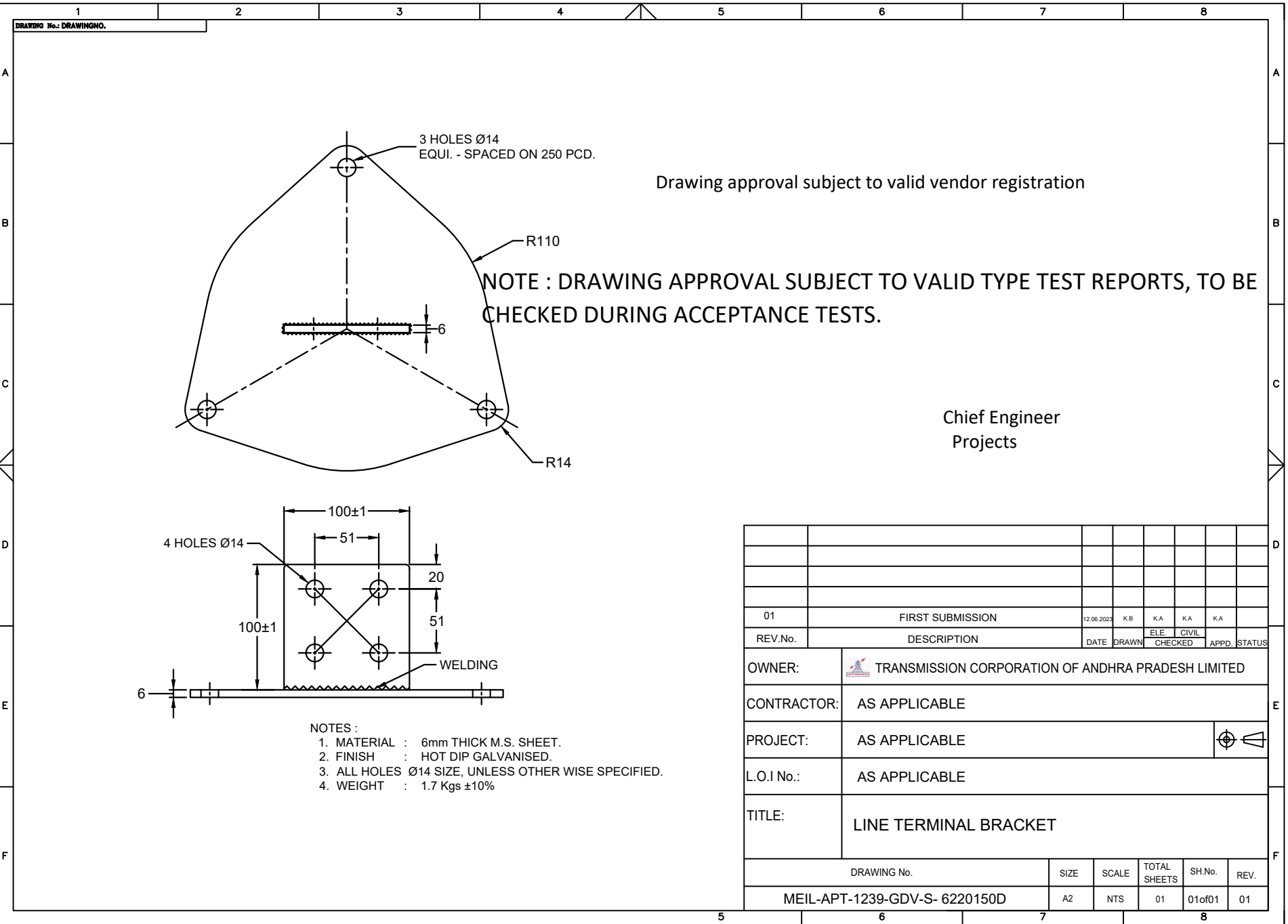
Chief Engineer  
Projects

Drawing approval subject to valid vendor registration

- NOTE: ±0.05
- 1) MATERIAL: THICKNESS 0.51mm (25 SWG) ALUMINIUM SHEET.
  - 2) PRINTING:-
    - a) BORDER LINE AND LETTERS WHITE ON BLACK BACKGROUND.
    - b) LETTER 'L' IN MONOGRAM IS BLACK ON WHITE BACKGROUND.
    - c) RECTANGULAR BLANKS WHITE, LETTERS BLACK.
    - d) LETTERS TO BE ETCHED.

03	FIRST SUBMISSION	19.05.2023	K.B	K.A	K.A	K.A
REV.No.	DESCRIPTION	DATE	DRAWN	CHECKED	APPD.	STATUS
OWNER:	 TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED					
CONTRACTOR:	AS APPLICABLE					
PROJECT:	AS APPLICABLE					
L.O.I No.:	AS APPLICABLE					
TITLE:	<b>MASTER NAME PLATE</b>					
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 8004410		A2	NTS	01	01of01	03

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**NOTE : DRAWING APPROVAL SUBJECT TO VALID TYPE TEST REPORTS, TO BE CHECKED DURING ACCEPTANCE TESTS.**

Chief Engineer  
Projects

- NOTES :
1. MATERIAL : 6mm THICK M.S. SHEET.
  2. FINISH : HOT DIP GALVANISED.
  3. ALL HOLES Ø14 SIZE, UNLESS OTHER WISE SPECIFIED.
  4. WEIGHT : 1.7 Kgs ±10%

01	FIRST SUBMISSION	12.06.2023	K.B	K.A	K.A	K.A
REV.No.	DESCRIPTION	DATE	DRAWN	CHECKED	APPD.	STATUS
OWNER:	TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED					
CONTRACTOR:	AS APPLICABLE					
PROJECT:	AS APPLICABLE					
L.O.I No.:	AS APPLICABLE					
TITLE:	LINE TERMINAL BRACKET					
DRAWING No.		SIZE	SCALE	TOTAL SHEETS	SH.No.	REV.
MEIL-APT-1239-GDV-S- 6220150D		A2	NTS	01	01of01	01