# RETYPE

TENDER SPECIFICATION

NO. CLW/ES/3/0202

ALT A

## ENCLOSURE

- 1. ANNEXURE
- 2. DRG.No.-. NO.- CLW/ES/3/SK-1/0202
- 3. TOTAL NO. OF SHEET- 4

# SPECIFICATION FOR

# SNUBBER CIRCUIT TO CONTACTOR AUXILIARIES

FOR

3-PHASE LOCOMOTIVES

SPECIFICATION FOR Snubber Circuit to Contactor Auxiliaries	DRN. A: 130.05 SSE/JE	CHKD/REV SEE/AEE	Electric Loco Design Office Chittaranjan Locomotive Works NOCLW/ES/3/0202				
	APPRO	VED BY	ALT.	A			

L.	Date of	Page	ALTERATION	REASON AUTHORITY
0.	Amendment	No.	N0.	alouse no le heobeen
O. Tillonia	3, 4	'A'	deleted as per approval of Noteno. ELDD/Misc. dated 26.02.21 by PCEE.  2. Mounting and overall dimensions shall be no per drg. Other dimensions of drawing are for quidance only added no 'Note' in Sheet No. 4.	
	ECIFICATION FOR ubber Circuit to	DRN SSE/JE	CHKD SEE	Electric Loco Design Office Chittaranjan Locomotive Works NoCLW/ES/3/0202

## TABLE OF CONTENTS

- 1. SCOPE
- 2. CLIMATIC AND ENVIRONMENTAL CONDITION OF LOCO
- 3. STANDARD
- 4. QUALITY ASSURANCE
- 5. TEST
- 6. SUBMISSION OF TENDER QUOTATION
- 7. DIMENTIONAL DRAWING
- 8. TECHNICAL DATA

SPECIFICATION FOR	DRN.	CHKD/REV	EV Electric Loco Design Chitteranjen Locumetic							
Snubber Circuit to	SSE/JE	NOCLW/ES/3/0202								
Contactor Auxiliaries	APPRO	OVED BY	ALT.	1						

#### SCOPE:

This specification covers the manufacture and supply of Snubber Circuit to Contactor Auxiliaries for 6000 HP three phase electric locomotives.

#### 2. CLIMATIC AND ENVIRONMENTAL CONDITION

Maximum atmospheric temperature :

+70°C (in sun) &

Ambient temperature (operating)

+50°C (in shade)

-20°C to + 70°C

Ambient temperature (storage)

-30°C to +80°C

Normal humidity

60%

Maximum humidity

100% saturation during rainy season.

Altitude

160mas!

Rain fall

Very heavy in certain areas. The equipment should be designed in such a way as to withstand its running at 10Km/hr in flood water level of 102 mm

above rail level

Atmosphere conditions

Extremely dusty and desert terrain in

certain areas.

Coastai areas

Locomotive and equipment will be designed to work even in coastal area in

humid and salty laden atmosphere.

Vibration

The equipment subsystem and their mounting arrangement will be designed to withstand vibration and shock encountered in service as specified in correspondence unless otherwise

prescribed.

#### 3. Standards:

As per relevant IS/IEC.

4. QUALITY ASSURANCE: Quality assurance should be as per ISO 9000. Deleted Alt.A

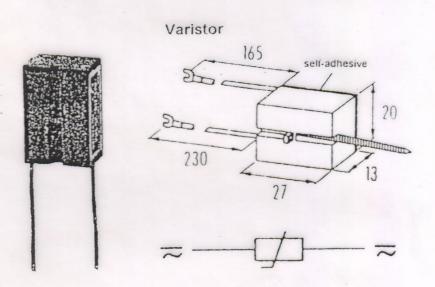
SPECIFICATION FOR Snubber Circuit to Contactor Auxiliaries	DRN. ATV 30.05.12 SSE/JE	CHKD/REV SEE/AEE	Electric Loco Design Office Chitteranjan Locometive Works NOCLW/ES/3/0202				
	APPROVED BY		ALT. A				

5. TEST: Type test and routine test shall be carried out according to relevant IS/IEC standard.

#### 6. SUBMISSION OF TENGER QUOTATION:

- 6.1 All tender document including the quotation shall be submitted in duplicate including any correspondence till a contact is finalised.
- 6.2 The tenderer shall give sufficient information to prove that his factory has adequate facilities and capacities to manufacture the snubber circuit to meet fully the technical requirements of the specification and quality of materials and workmanship.
- 6.3 Quotation shall not be considered complete unless all information is furnished and are therefore liable to be rejected.
- 6.4 Detailed drawings of the snubber circuit should be submitted for approval of purchaser.
- 6.5 Past test report (if any)

#### 7. DIMENTIONAL DRAWING



Note: Mounting and overall dimensions shall be as per above drawings the other dimensions of drawing are for guidance only.

SPECIFICATION FOR Snubber Circuit to Contactor Auxiliaries	DRN. ASM. J. 12 SSE/JE	CHKD/REV SEE/AEE	Electric Loco Design Office Chittaranjan Locomotive Works NOCLW/ES/B/0202				
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# 8. TECHNICAL DATA

Article

Varistor

Function

Interference suppression

Type

AO VDR

Material

Plastic

Coil Voltage

110 volts AC/DC

Frequency range

0 to 60 Hz

Coil maximum power

100VA

Attenuation factor

≈ 1.5 x coil voltage

Operational temperature

-20℃ to + 70℃

Connection

Self secure fork terminal

Fixing

Screw or self -adhesive

Inflammability class

According to UL 94

Admissions to standards

UL and CSA

SPECIFICATION FOR Snubber Circuit to Contactor Auxiliaries	DRN. Pit 10.05.12 SSE/JE	CHKD/REV SEE/AEE	Electric Loop Design Office Chittaranjan Lacomotive Works NOCLW/ES/3/0202				
	APPROVED BY		ALT.	A			