ALT - EF

TENDER SPECIFICATION FOR PIPE SADDLE FOR WAG-9(CO-CO) / WAP-5 (BO-BO) ELECTRIC LOCOMOTIVES

TENDER SPECIFICATION
No. CLW/ES/3/0038 ALT-EF

ENCLOSURES:

- 1. ANNEXURE:
- DRG.NOS.
 CLW/ES/3/SK-1/0038
 &
 CLW/ES/3/SK-2/0038

ISSUED BY:

DY. CHIEF ELECTRICAL ENGINEER/D/CONV.
CHITTARANJAN LOCOMOTIVE WORKS
P.O. CHITTARANJAN – 713331
DISTRICT- BURDWAN (WEST), WEST BENGAL (INDIA)

PREPA	RED BY	CHECKED BY	APPROVED BY			
Validity unknownRANJAN Digitally signed by UMAR	Digitally signed by NIRANJAN KUMAR Date: 2023.03.13 16:24:17 +05'30'	MANGLES Digitally signed by MANGLESHWAR GIRI Date: 2023.03.16 11:32:40 +05'30'		Digitally signed by SYAMA PRASAD PATR/ Date: 2023.03.17 18:04:30 +05'30'		
Date: 202, 05.09 16:01:41 ST SSE/DRO Reason: REPS-CRIS	S&DGN (M)	SSE/DRG&DGN (M)	DY. CEE/D/CONV			

ALTERATION RECORD SHEET

Amen dment No.	dment No.		REASON	AUTHORITY		
01 A 31.05.1999		31.05.1999	Material grades have been changed. Dimension of Hex screw have been changed. New sketch CLW/ES/3/SK-2/0038 have been added.	-sd-		
02	В	17.04.2001	1) New 32PP pipe saddle have been added.	-sd-		
03	С	22.04.2002	1) New note have been added at page-5.	-sd-		
04	D	03.03.2003	Non-metallic parts of the pipe saddles should be fire retardant /self extinguish as per note of page-3.			
05	E	07.04.2011	Length of screw for 20PP changed from 55 to 50 mm on the basis of Letter no- SSE/ELA/19/St-V-01C dt-11.03.2011.	-sd-		

06 F

1) Alternak masking process is edded at SI. No. 1 of Note on page no. 5.

2) Length of screw for 16 pp changed from 35 to 45 mm and material 2 Grade of

Specifications have been digitized and all alterations have been incorporated

all screw has been changed at in Dry no. chules/3/SK-1/0038

3) Locking plake is replaced by spring washer M6 in dry no. CLW|ES|3|5K-1/0038 2 CLW|CS|3|5K-2/0038.

PREPA	RED BY	CHECKED BY	APPROVED BY			
NIRANJAN KUMAR	Digitally signed by NIRANJAN KUMAR Date: 2023.03.13 16:24:56 +05'30'	MANGLES Digitally signed by MANGLESHWAR GIRL Date: 2023.03.16 11:36:20 +05'30'	SYAMA Digitally signed by SYAMA PRASAD PATRA Date: 2023.03.17 18:05:52 +05'30'			
SSE/DRO	&DGN (M)	SSE/DRG&DGN (M)	DY. CEE/D/CONV			

ALT - E F

SPECIFICATION FOR PIPE SADDLE FOR WAG-9(CO-CO) & WAP-5 (BO-BO) ELECTRIC LOCOMOTIVE

INDEX

- SCOPE
- 2. CLIMATIC AND ENVIRONMENTAL CONDITION
- STANDARD
- 4. QUALITY ASSURANCE
- 5. TESTS
- 6. SUBMISSION OF TENDER QUOTATION
- 7. SCOPE OF SPECIFICATION
- 8. PACKING
- 9. DRAWINGS

NOTE: "THE MATERIAL MUST BE OF INFLAMMABILITY CLASS FH2-5MM. AS DEFINED IN THE IS: 11731 (PART-I):1986- HORIZONTAL SPECIMEN METHOD OF TEST FOR SOLID INSULATING MATERIALS AND CLASS FVO AS PER IS: 11731 (PART-2):1986- VERTICAL TEST METHOD. THE TEST SHALL BE CARRIED OUT AS A PROTOTYPE TEST ON SAMPLES PREPARED OUT OF THE SAME BATCH SUPPLIED."

PREPA	RED BY	CHECK	KED BY	APPRO	OVED BY		
NIRANJAN KUMAR	Digitally signed by NIRANJAN KUMAR Date: 2023.03.13 16:25:22 +05'30'	MANGLES HWAR GIRI		I	Digitally signed by SYAMA PRASAD PATRA Date: 2023.03.17 18:06:14 +05'30'		
SSE/DRG	&DGN (M)	SSE/DRG	&DGN (M)	DY. CEE/D/CONV			

SPECIFICATION FOR PIPE SADDLE

1. SCOPE:

This Specification applies to pipe saddle for WAG-9 (Co-Co),6000 H.P, 3Phase,25 kv. 50Hz. AC locomotive.

2. CLIMATIC AND ENVIRONMENTAL CONDITION:

Maximum atmospheric temperature : +70°C (in Sun) & +50°C (in Shade)

*Humidity

: 100% saturation during rainy season.

Reference site condition:

i) Ambient Temperature

: max.: 55°C, min.: 0°C

ii) Humidity

: 60%

iii) Altitude

: 1000 m above mean sea level.

iv) Rain fall

: Very heavy in certain areas. The locomotive will be designed in Such a way as to permit its running at 10 Km/hr, in flood water

Level of 102 mm above rail level.

*Atmosphere during hot weather : Extremely dusty and desert terrain in certain areas.

*Coastal Area

: Locomotive and equipment will be design to work in Coastal areas in humid and salty laden atmosphere.

*Vibration

: The equipment, sub-system and their mounting arrangement

will be designed to withstand vibrations and shocks

encountered in service as specified in corresponding IEC

publication unless otherwise prescribed.

3. STANDARD

: As per relevant IEC

QUALITY ASSURANCE

: Quality assurance should be as per ISO:9000.

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

PREPA	ARED BY	CHECKE	ED BY	APPROVED BY		
NIRANJAN KUMAR	Digitally signed by NIRANJAN KUMAR Date: 2023.03.13 16:25:48 +05'30'	MANGLES HWAR GIRI		SYAMA PRASAD PATRA	Digitally signed by SYAMA PRASAD PATRA Date: 2023.03.17 18:06:42 +05'30'	
SSE/DRO	G&DGN (M)	SSE/DRG&	DGN (M)	DY. CEE/D/CONV		

Page 5 of 5	SPECIFICATION No. CLW/ES/3/0038	ALT - E F

6. SUBMISSION OF TENDER QUOTATION:

- 6.1 All tender documents including the quotation shall be submitted in triplicate including any Correspondence till a contract is finalised.
- 6.2 The tenderer shall give sufficient information to prove that his factory has adequate facilities and Capacity to manufacture the above materials to meet fully the technical requirements of the Specification, quality of material and workmanship.
- 6.3 Quotation shall not be considered complete unless all information is furnished and are therefore liable to be rejected.
- 6.4 Detail drawings of the above materials should be submitted for approval of purchaser.
- 6.5 Past test reports (if any).

7. SCOPE OF SPECIFICATION:

This specification covers the details of the following items:-

SI.No.	Description	Identification No.	DRG. No.		
1.	PIPE SADDLE 16PP	HZN 450554R0224	CLW/ES/3/SK-1/0038		
2.	PIPE SADDLE 20PP	HZN 450554R0231	CLW/ES/3/SK-1/0038		
3.	PIPE SADDLE 30PP	HZN 450554R0243	CLW/ES/3/SK-1/0038		
4.	PIPE SADDLE 32PP	HZN 450554R0251	CLW/ES/3/SK-1/0038		

8. PACKING:

INDIVIDUAL TYPES OF PIPE SADDLES IS TO BE PACKED IN DIFFERENT BOXES AT THE TIME OF SUPPLY WITH IDEN. NO. CLEARLY MENTIONED ON EACH PACKET.

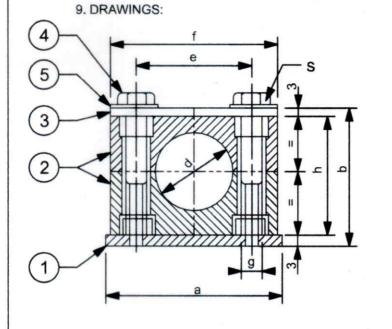
NOTE:-

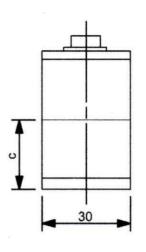
mark by embossing on the 'WELD-ON-PLATE' and 'TOP PLATE'

- 1) The tenderer shall fix name plate on the equipment indicating:
 - a) Month & Year of manufacture
 - b) SI.No. of equipment
 - c) Manufacturer name
- Standard fastners of M/s TVS, M/s LPS, M/s UNBRESKO and spring washer of M/s FQRBES make only to be used.

PREPA	RED BY	CHECK	KED BY	APPRO	VED BY	
NIRANJAN KUMAR	Digitally signed by NIRANJAN KUMAR Date: 2023.03.13 16:26:17 +05'30'	MANGLES HWAR GIRI	MAINGLESH WAR GIVE	1	Digitally signed by SYAMA PRASAD PATRA Date: 2023.03.17 18:07:02 +05'30'	
SSE/DRG	&DGN (M)	SSE/DRG	&DGN (M)	DY. CEE/D/CONV		







PIPE SADDLE

REF.NO,	DESCRIPTION	MATERIAL	
1.	WELD-ON-PLATE	MILD STEEL,IS2062/IS226	
2.	CLAMP	PLASTIC GREEN	
3.	TOP PLATE 45	MILD STEEL,IS2062/IS226	
4.	HEX. SCREW, L=60/55/50/35	MILD STEEL, GR. 8.8 10.9 to IS:	1367 Part 3
5.	LOCKING SHEET	MILD STEEL IS2062/IS226	

SPRING WASHER, MG STEEL, IS: 3063

DIMENSIONAL DETAIL:-

ITEMS IDEN. NO.	а	b	С	d	е	f	g	h	s	QTY/LOCO
PIPE SADDLE 16PP HZN450554R0224	42	39	19.5	16	26	40	M6X35	33	10	5 NOS
PIPE SADDLE 20PP HZN450554R0231	149 141 120 5 120 133 148 IM6X50				M6X50	35	10	6 NOS		
PIPE SADDLE 30PP HZN450554R0243	60	48	24	30	40	57	M6X55	42	10	6 NOS
PIPE SADDLE 32PP HZN450554R0251	68	64	32	32	52	70	M6X60	58	10	4 NOS

													अभिकल्पित DGN			चित्तरंजन रेलइंजन कारखाना			
														MANG Digital region by LESHW Bell State 114 St	पदार्थ	CHITTARANJAN LOCOMOTIVE WORKS, INDIA			
परिवर्तन संख्या ALT.NO.	AUTHY			0	aví					f	CAI DAT	-	सनीकित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE	•	MATL GREEN SPECN	WT. EACH IN KG			
मान भा. व अ. मा.	कसता । त. 307 सं. 130	3 /	UN	सद्य - SPECIFIED रिन्डन वि	TOLEA	RANCE	TO IS :	2102	ISO :	2768		TOL. CLS.		SYAMA Signalização de PRASAD MAIAS ANTA PATRA SECTION 600 A 100 A		SPECIFICATION FOR PIPE			
50	15:3073 I 1302		-	WELDING	SYM	BOLS 1							दिनांक DATE		DESCRIPTION	SADDLE			
पदांक GRADE NO.	सं1 N1	軒2 N2	Hi3 N3	सं4 N4	#i5 NS	H6 N6	सं7 N7	H8 N8	सं9 N9	सं10 N10	सं11 NII	सं12 N12	रैखिक अनुपात	NTS	आरेखण संख्या	CI) #EC 12 ICI/ 410020			
Rz	0.16-0.3	0.5-0.7	0.9-11	15-20	2.5-3.0	5.0-6.3	9.0-12	16-25	30-40	50-63	75-100	160-250			DRAWING NO.	CLW/ES/3/SK-1/0038			
Ra um	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50	संदर्भ /	REF.	1				
चिन्ह SYMBOL	7		77,	77	XXX	7,	,	XX		7	7	#		ALT	● ←	परिवर्तन संख्या ALTERATION. NO. 1 SHEET 1 OF 1			

