

SPECIFICATION FOR SET OF CLAMPS WAG-9 (Co-Co), ELECTRIC LOCOMOTIVES

SPECIFICATION No. CLW/ES/3/0135 ALT-A
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ISSUED BY:

DY. CHIEF ELECTRICAL ENGINEER /D-III

CHITTARANJAN LOCOMOTIVE WORKS

P.O. CHITTARANJAN – 713331

DIST. BARDHAMAN (WEST), WEST BENGAL (INDIA)

PREPARED BY	CHECKED BY	APPROVED BY
SSE/DRG&DGN (M)	SSE/DRG	DY. CEE/D-III

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SSE/DRG&DGN (M)	SSE/DRG	DY. CEE/D-III

ALTERATION RECORD SHEET

ALT. No.	DATE	REASON	AUTHORITY
A	20-08-2025	(i) Qty/Loco column deleted from para 4 (scope of supply) and note added below para 4. (ii) Material Specifcation has been updated.	

Specification have been digitized and all alterations have been incorporated.

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SSE/DRG&DGN (M)	SSE/DRG	DY. CEE/D-III

SPECIFICATION FOR**SET OF CLAMP****1. SCOPE :**

This specification covers the manufacture and supply of SET OF CLAMP for WAG-9 (Co-Co), 6000 HP, 3-Phase, 25KV 50 Hz. AC locomotive.

2. SERVICE CONDITION:**1. Climatic and environmental conditions:**

Maximum atmospheric temperature	: +70°C (in sun) & +50°C (in shade)
Normal humidity	: 60%
Maximum humidity	: 100% saturation during rainy season
Altitude	: 160 m.a.s.l.
Rain fall	: Very heavy in certain areas.

The equipment should be designed in such a way as to withstand its running at 10 km/hr in flood water level of 102mm above rail level.

Atmosphere during hot weather	: Extremely dusty and desert terrain in certain areas.
Coastal areas	: Locomotive and equipment will be designed to work in coastal area in humid and salty laden atmosphere.
Vibration	: The equipment sub-system and their mounting arrangement will be designed to withstand vibration and shock encountered in service as specified in correspondence unless otherwise prescribed.

3. STANDARD :

The relevant IEC, BS, DIN Standard & Indian standard specification shall apply with respect to all materials used in the manufacture of SET OF CLAMPS.

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4. SCOPE OF SUPPLY:

Fig. No.	Description	Indent. No.	Fig No.	Material
1.	CLAMP, CA CLAMP PULSE GEN CABLE	3EHP431632P0001	Fig. 1	Stainless Steel Sheet 6XCrNiTi18-10, cold rolled as per DIN 17457
2.	CLAMP, CA CLAMP EARTH CABLE	3EHP431631P0001	Fig. 2	IS 6911:2017 Gr. X04cr18Ni10Ti/ Gr. 321

Note: Qty/Loco to be followed as mentioned in related Category No.P/0/0020 for WAG-9HC locos.

5. SUBMISSION OF TENDER QUOTATION:

- 5.1. All tender documents including the quotation shall be submitted in duplicate including any correspondence till a contract is finalised.
- 5.2. The tenderer shall give sufficient information to prove that his factory has adequate facilities and capacity to manufacture the SET OF CLAMPS to meet fully the technical requirements of the specification and quality of materials and workmanship.
- 5.3. Quotation shall not be considered complete unless all information is furnished and are therefore liable to be rejected.
- 5.4. Detailed drawings of SET OF CLAMPS should be submitted for approval of purchaser.

6. DRAWINGS:

The following drawings are attached with the specification:

Drg. No.: 1. CLW/ES/3/SK-1/0135 (FIG-1 & FIG-2).

- 6.1. Technical documents and drawings to be furnished by the supplier as part of the contract.

7. TESTS:

Type test and routine test shall be carried out according to the standards.

8. TECHNICAL DOCUMENTS TO BE SUPPLIED BY THE SUPPLIER:

- | | | |
|-------|---|-------------|
| (i) | Type test reports | : 10 copies |
| (ii) | Routine test report along with each set | : 4 copies |
| (iii) | Maintenance manual | : 20 copies |
| (iv) | Detailed drawings | : 6 copies |

Note: The name and year of manufacture of the firm should be embossed on the item.

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