

TENDER SPECIFICATION

No. CLW/ES/L-22/ABC

DRAWING NOS.

1. CLW/ES/SK-1/L-22/ABC
2. CLW/ES/SK-2/L-22/ABC
3. CLW/ES/SK-3/L-22/ABC
4. CLW/ES/SK-4/L-22/ABC

TOTAL NO. OF SHEETS & ALT. IN THIS SPECN.

SHEETS	14	14	14	14			
ALT.	A	B	C	D			

**SPECIFICATION
FOR
COMPACT FLUORESCENT LAMP FITTING
FOR
25 kv. AC. ELECTRIC LOCOMOTIVES
CLASS: WAG-7 & WAP-4/6**

ISSUED BY:

DY. CHIEF ELECTRICAL ENGINEER(D-1)
CHITTARANJAN LOCOMOTIVE WORKS
P.O.: CHITTARANJAN - 713331
DIST: BURDWAN, WEST BENGAL (INDIA)
DATE OF ISSUE:

Ref: RCF, KAPURTHALA'S DRG. NOS.:

1. AE76215, 2. AE76217,
3. CC76250, 4. CC76052.

SEE SHEET NO.2

**SPECIFICATION
FOR
C.F.L. FITTING**

Arjib
23.12.98
उप.मु.वि.अ. (अभि.)
DY. CEE. (D)

चित्तरंजन रेल इंजन कारखाना
पश्चिम बंगाल, भारत
CHITTARANJAN LOCOMOTIVE WORKS
WEST BENGAL, INDIA
क्रमांक/NO. CLW/ES/L-22/ABC D
दिनांक/DATE :

जांचा
CHD

जांचेसाठी
DRN.
Amalra

DETAILS OF ALTERATIONS

ALT.NO.	DATE	DESCRIPTION	SIGNATURE	REMARKS
A	01-10-99	ILLUMINATION TEST INCLUDED IN SHEET NO. 8. SHEET NO. 9 & 10 MODIFIED FOR COLOUR OF LIGHT & CABLES RESPECTIVELY. SHEET NO. 11 MODIFIED FOR MOUNTING HOLES & REFLECTOR.	<i>Arjib</i> 01.10.99	
B	25-6-01	DIELECTRIC TEST BETWEEN TERMINALS DELETED IN CLAUSE NO. 12.0.(ii) & NOTE NO. 7 & 13 AMMENDED.	<i>Arjib</i> 25/6/2001.	
C	7-07-04	"KI-KUMAR" Brand ballast included as prototype cleared against I.C.No. ELDY3233/HK dt. 19.5.04.	<i>Arjib</i>	
D	20.03.09	4 pin tube of OSRAM INDIA and PHILIPS make only.	<i>Arjib</i> 21/3/09	

जांचा
CHKD
आरेखित
DRN.
Arjib

SPECIFICATION FOR
COMPACT FLUORESCENT
LAMP FITTING.

Arjib
20.3.99
उप.मु.वि.अ. (अभि.)
DY. CEE. (D)

चितरंजन रेल इंजन कारखाना
पश्चिम बंगाल, भारत
CHITTARANJAN LOCOMOTIVE WORKS
WEST BENGAL, INDIA
क्रमांक/NO. CLW/ES/L-22/ABCD
दिनांक/DATE :

Note:

1. All dimensions are in mm.
2. Framed mounting dimensions to be strictly adhered to by jig punching.
3. All steel items excluding hardware shall be given 7-tanks treatment for anti-rust & anti corrosion with two coats of primer before finishing with powder co-atings to white colour with glossy finish from inside and outside.
4. Reflector to be secured with top frame by holders and end clamps fixing screws.
5. Reflector shall be made from aluminium of S1 grade M/s Hindalco or any other approved make duly bright anodised on inside to IS:1868 Gr.AC 2.5.
6. a). Four pin tube of OSRAM, INDIA (DS/E 11/24), Philips or any other approved make only. (D)
11 (A)
- b). Holder of approved brands fire retardent material and brass/PHOSPHOR Bronze contacts. Lamp cap temperature not to exceed 150°C.
7. Electronic lamp ballast of M/s Premier Combines (Chennai) or any other approved make (Size L=120, B=45, H=38mm). Other provisionally approved sources are M/s D.R Auto Ind/NDLS, M/s Pamba Electronics (Cochin) M/s Signotam/Kol and KI-KUMAR brand of KUMAR Industries (MSD)/NDLS (C)
8. Wiring to be done with 1.5mm PVC insulated copper cables to IS:694 with fire retardent PVC sleeves and secured properly.
9. Item-9 to be suitably Tack welded with Item-5 at drg.No. CLW/ES/SK-1/L-22 in sheet No.11.
10. Red and yellow painted colour bands (2 nos.) of 10mm. width shall be marked on back side of the fitting for 110V AC and 110V D.C respectively.
11. All items including paint to be fire retardent.
12. Manufacture insignia /identification mark and serial No. to be punched on the frame as indicated in table-1 at drg. No. CLW/ES/Sk-1/L-22 in sheet No. 11.
13. Dome key shall be supplied ^{two} one number of every ¹¹ 10 fittings at Drg. No. CLW/ES/SK-4/L-22 in sheet No. 14.
14. Packing of the fitting shall be as per packing conditions No. EDG0002.
15. Firm supplying this item to drg. with applicable alteration for the first-time will get pilot sample approved from Dy.CEE/D/CLW/CRJ before effecting bulk supply.

SEE SH. NO.

SPECIFICATION
FOR
C.F.L. FITTING

Avil
23.12.98
उपसु.वि.ज. (प्रमि.)
DY. CEE. (D)

चित्तारंजन रेल इंजन कारखाना
पश्चिम बंगाल, भारत
CHITTARANJAN LOCOMOTIVE WORKS
WEST BENGAL, INDIA
क्रमांक/NO. CLW/ES/L-22/RECD
दिनांक/DATE :

जांचित

CHKD

अनुमोदित
DRN.