

केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
बरवा रोड, धनबाद - 826 001, झारखण्ड, भारत



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Central Institute of Mining and Fuel Research

Formerly : Central Mining Research Institute
(Council of Scientific & Industrial Research)
BARWA ROAD, DHANBAD-826 001, JHARKHAND, INDIA

Registered Post/Courier Service

No. CIMFR/TC/SR/H/251
I.D. No. 982/07

Dated: 31st March, 2008
CODE NO. FLP/221(O)/08

To
M/S. BALIGA LIGHTING EQUIPMENTS PVT. LTD.,
389, MEDAVAKKAM ROAD, KOVILAMBAKKAM,
CHENNAI-600 117

Sub: Supplementary Testing for **REVALIDATION** as per IS: 2148-2004 (IEC 60079-1/2001) of your enclosure for **Flameproof/Weatherproof Switch Socket & Plug**, in cast aluminium alloy LM-6 construction, designated by **Cat. No. EPSS-1533E-1531** for use in Zone 1 & 2 and Gas Groups: IIA & IIB atmosphere only.

- Report on (REVALIDATION)

Your Ref. No.: Appl. No.: CMRI/6/299/IIB Dated: 27/12/2007

Dear Sir,

Please find enclosed the **Supplementary Test Report** for **REVALIDATION** of the above sample as per IS: 2148-2004.

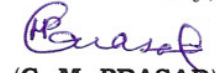
The above apparatus was earlier certified as per IS: 2148-1981 vide CMRI Test Report No. CMRI/TC/P/H924 Dated: 20/11/2003 and subsequent supplementary/Addendum report nos. mentioned in the schedule of this report.

Charges of ^{10,765/-} ~~Rs. 8,865/-~~ ^{Ten} ~~(Rupees Eight thousand Eight hundred Sixty five)~~ ^{Seven} only including applicable service charges involved towards the testing /issuing the schedule have been adjusted against the advance deposit made by you

Kindly arrange to collect the sample within 90 days from the date of receipt of this letter failing which CIMFR would dispose off the sample by public auction without any further NOTICE to you.

Kindly acknowledge receipt.
Thanking you,

Yours faithfully,


(G. M. PRASAD)

HEAD OF THE DEPARTMENT
TESTING CELL

Encl.: As above
Suppl. Report for Revalidation in Triplicate
Copy to: 1. Head, Flame & Explosion Lab.
2. Bill Section.

Page 1 of 6

फोन-निदेशक Director
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कार्यालय के दिन : सोमवार से शुक्रवार तक Working days : Monday to Friday

के० ख० एवं ई० अ० सं० परीक्षण प्रकोष्ठ-CIMFR TESTING CELL

केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)



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CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH

Formerly : Central Research Institute
(Council of Scientific & Industrial Research)

बरवा रोड, धनबाद - 826 001 (भारत) - BARWA ROAD, DHANBAD-826 001 (INDIA)

परीक्षण प्रमाण पत्र - TEST CERTIFICATE

FORMAT NO. (CIMFR: DQM: FLP02: F-03)
(Flame & Explosion Laboratory)

I.D. No. 982/07

CODE NO. FLP/221(O)/08

[For association with the Report of Supplementary Testing for **REVALIDATION** sent (under cover of this Office Letter No. CIMFR/TC/SR/H/251 Dated 31st March, 2008) to M/s. BALIGA LIGHTING EQUIPMENTS PVT. LTD., 389, MEDAVAKKAM ROAD, KOVILAMBAKKAM, CHENNAI-600 117 in respect of the equipment mentioned below]

FIRST SCHEDULE

1. **Applicant:** **M/S. BALIGA LIGHTING EQUIPMENTS PVT. LTD.,**
389, MEDAVAKKAM ROAD, KOVILAMBAKKAM,
CHENNAI-600 117
2. **Manufacture:** Same as above
3. **Title of Apparatus:** **Flameproof/Weatherproof Switch Socket & Plug,** in cast aluminium alloy LM-6 construction.
4. **Cat. No./Model No.:** Cat. No. EPSS-1533E-1531
5. **Zone & Gas Groups:** Zone 1 & 2, Gas Groups: IIA & IIB atmospheres.
6. **Standard Reference:**
 - a) As to flameproof construction: IS: 2148-2004 (IEC 60079-1/2001)
 - b) As to general design, rating, performance & T-class: IS: 13346-2004 (IEC 60079-0/2000)
7. **Rating:** 16A/250V
8. **Temperature Class:** As mentioned in **Table#2.**
9. **Earlier Prototype Test Certificate No. & Date:**
CMRI/TC/P/H924 Dated: 20/10/2003 (Prototype)

Vanin Kumar

के० ख० एवं ई० अ० सं० परीक्षण प्रकोष्ठ - CIMFR TESTING CELL



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FORMAT NO. (CIMFR: DQM: FLP02: F-03)
(Flame & Explosion Laboratory)

I.D. No. 982/07

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Table # B3: Non-transmission of internal ignition test:

Name of Enclosure	Test Ref. No.	Gas Group	Gas Mixture % in Air	No. of Test	Result
Main Enclosure	EIT/ 9830716 to EIT/9830720	IIB	37% Hydrogen	Five	Pass
Terminal Enclosure	EIT/9830721 to EIT/8450725	IIB	37% Hydrogen	Five	Pass
Plug Enclosure	EIT/9830726 to EIT/8450730	IIB	37% Hydrogen	Five	Pass

Test equipment used .

- (i) Computer, Kistler Piezo Electric Transducer & Charge Amplifier for conducting Explosion Pressure Tests.
(ii) Impact Test set up.

Environmental condition where applicable: NA

Conclusion: The above **Flameproof/Weatherproof Switch Socket & Plug**, in cast aluminium alloy LM-6 construction, designated by **Cat. No. EPSS-1533E-1531** under reference complies with applicable requirements of IS: 2148-2004 (IEC 60079-1/2001) in respect of flameproofness, IS: 13346-2004 (IEC 60079-0/2000) in respect of general requirements for use in Zone 1 & 2 and Gas Groups: IIA & IIB atmosphere only.

Reported By

(NAVIN KUMAR)
GROUP III(I)

Dated: 31st March, 2008
Flame & Explosion Laboratory
Central Institute of Mining & Fuel Research, (CSIR)
(Formerly: Central Mining Research Institute)
Barwa Road, DHANBAD - 826 001,
(JHARKHAND) INDIA

Approved By

(A. K. SINGH)
HEAD OF THE DEPARTMENT

किमागाध्यक्ष
परीक्षण प्रकोष्ठ
H.O.D.
Testing Cell