



के० ख० एवं ई० अ० सं० परीक्षण प्रकोष्ठ - CIMFR TESTING CELL
सीएसआईआर - केन्द्रीय ईंधन अनुसंधान संस्थान
(वेज्ञानिकीय प्रयोगशाला, ईंधन अनुसंधान परिषद)
स्थापित - १९५६
TESTING CELL
ESTD. 1956

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CSIR-CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH
ISO 9001 REGISTERED

FORMERLY : CENTRAL MINING RESEARCH INSTITUTE
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)

बरवा रोड, धनबाद - 826015 (भारत) - BARWA ROAD, DHANBAD - 826015 (INDIA)

परीक्षण प्रमाण पत्र - TEST CERTIFICATE

FORMAT NO.: (CIMFR: DQM: FLP02: F-01:REV-01)
(Flame & Explosion Laboratory)

Prototype Report No.:	CIMFR/TC/P/689	Dated:	12 th November, 2015
Equipment. ID NO.	130D/14	Code No.	FLP/100/15-16
Application Ref. No.:	KES/CMRI/005	Dated:	05/12/2013

- Applicant** : M/s. KINGSLEY ENGINEERING SERVICES
K-1, 7706/1, KARMATUR CHOWKDI, GIDC,
ANKLESHWAR - 393 002, BHARUCH,
GUJARAT (INDIA)
- Manufacturer** : Same as above
- Apparatus** : FLAME ARRESTER, Size: 3" (80 NB)
- Designated by** : Model No.: KES/FA/1/CS/3
- Gas Group** : Gas Group : IIB atmosphere only
- Material of construction:** In M. S. fabricated construction.
(Arrester bank and element - SS 316)

7. **Approximate Weight of the empty:** 96 kg.

8. **Apparatus (Brief Description):**

FLAME ARRESTER SIZES: Size: 3" (80 NB):

A flame arrester prevents transmission of flame from unprotected end to protected end in case of an explosion. The details of flame arrester bank (arrester bank) is give in the drawing mentioned in this report. The arrester bank is constructed with perforated sheet.

Element Assembly: The arrester element assembly in SS 316 construction having one no. of elements of width 25mm with less than 0.5mm MESG size as detailed in the relevant drawing. The thickness of the arrester body is min. 6mm and no. of hex. bolt/nut arrester bolts for connection of flange are total 8 nos. (MS 3/8 4") and one no. 1 flame bank bolt & nut SS316 (3/8x2").



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TEST CERTIFICATE प्रमाण पत्र



Continuation Sheet



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FORM: (Explosion Laboratory) (QOM: FLP02: F-01:REV-01)

ID NO.: 130D/14

CODE NO. FLP/100/15-16

9. Drawing:

Sl. No.	Drg. No.	Title	Date
1.	KES/FA/CMRI/001	FLAME ARRESTER.	NIL

10. Declaration by the Applicant/Manufacturer:

As to standards with which the apparatus complies in respect of:

- As to Gas Group: IS/IEC 60079-1: 2007
- As to Flame Arrester: IS: 11006:1984

Note: The test certificate certifies only the sizes provided by the manufacturer of flame arrester and test conducted as per Clause 11.1 of IS 11006:1984.

Note: The CIMFR has however not checked and tested the compliance of the apparatus to any standards other than clause 11.1 Explosion Test of IS: 11006:1984.

11. Documents/Equipment Submitted :

- Application form
- Drawings
- Prototype samples

12. Compliance of prototype or sample with documents: The test sample of apparatus submitted for the type tests complies with the manufacturers documents referred above.

SCOPE OF THE TEST CERTIFICATE

The test certificate issued by CIMFR testifies that the apparatus has been found to comply with the definition of "FLAME ARRESTER" contained in the relevant standard specifications. They do not vouch for the quality of the equipment in any other respect.

This Institute reserves the right to review amend or withdraw this Test Report at any time if considered necessary in the interest of safety.

Naim Jaisan



