

Approval of Indigenous Electrical Enclosure/ Equipment for use in Hazardous Area

DGFASLI is the approving authority for granting approvals to the flameproof enclosures being used in hazardous environment of the factories covered by the Factories Act, 1948 as per IS/IEC 60079-1:2007 and general requirements as per IS/IEC 60079-0:2004. DGFASLI is also granting approvals to other electrical equipment like increased safety, intrinsically safe equipment, etc. subject to the fulfillment of the requirements of the Code of practice IS 13408 (part I)-1992.

The procedure for granting approval is as under:

(A)PROCEDURE FOR APPROVAL

1. Equipment has to be got tested by approved testing laboratory as per the relevant National Standards and a copy of such test report should be submitted.
2. The following documents shall be submitted along with the proposal for granting approval by the manufacturer.
 - (i) Duly attested by the Manufacturer (by senior level executive) original copy of **test report** / copy of **test report** from approved testing laboratory;
 - (ii) Copy/ copies of **drawing(s)** certified by an authority of the testing laboratory and duly attested by the manufacturer (by senior level executive)
 - (iii) Copy of the **Chemical composition** analysis report, of light alloy metal used, such as LM4, LM6, carried out in a Government approved testing laboratory. The chemical analysis report shall be **of the material used for the prototype** and the copy of the same shall be duly attested by the manufacturer (by senior level executive).
 - (iv) Details of manufacturing process of the flameproof equipment and the testing facilities available in the factory.
3. For gas **Group II C enclosures** in addition to the requirements at SI.No.1 & 2 above, the details of the users including address and telephone number, to whom the equipment is being supplied shall be furnished.
4. For Supplementary / Addendum approval in addition to the requirements at SI.No.1 & 2 above, copies of DGFASLI approval letters issued earlier shall be submitted.
5. The approval **for gas Group II A and II B pro-type** will be valid for a period of five years (from the date of test report) after which it shall require revalidation.

6. The test certificate issued by testing laboratory before 10 years from **the date of application shall not be considered as valid** for granting approval.

(B) Approval of Electrical Enclosure/ Equipment manufactured and tested abroad for use in Hazardous Area

Documents/ Reports required for the scrutiny of the proposal:

1. Documents relating to standing of the company in the field manufacture flameproof equipment.
2. Verification of the code / standard/ specification followed and whether it is comparable to corresponding Indian Standard Specification or any acceptable international standards like IEC, EN, BS, UL, CSA, ANZ codes.
3. Verification of National Testing and Certifying Authority and its accreditation by the Government authorities in the country of manufacture.
4. Scrutiny of the design drawing and verification of special conditions of installation.
5. Scrutiny of the Test Report/ Approval Report of the equipment and its associated components.
6. Verification of Listing Documents of the main as well as associated equipment and accreditation of the Listing Authority by the Government Authorities in the country of manufacture.
7. List of Industries where equipment have actually been put in to use in the country of manufacture as well as in other countries.
8. Particulars of accreditation like ISO rating, etc. if any.
9. Details of Organisation and Indian representative who will be entrusted with the job of After Sales Service and Maintenance of the equipment.
10. Copy of C.C.O.E. approval letter if obtained already.
11. Inspection report of the unit to check infrastructure, documents, Maintenance procedure, instrument, etc.

(C) PROCEDURE FOR REVALIDATION OF APPROVAL

1. The manufacturer shall submit the proposal for revalidation at least three months before the expiry of the original approval along with the following documents:-
 - (i) The list of user, along with their address and telephone numbers, to whom the equipment have been supplied during the period of validity of approval;
 - (ii) A certificate (on the letter head) of the manufacturer that the equipment has / have not undergone any change in its design during the period of validity and that the equipment has / have been manufactured strictly in accordance with the drawing certified by the

testing laboratory and is/ are identical with the one tested and certified by the testing laboratory.

- (iii) A copy of the valid BIS licence duly attested by the manufacturer (by senior level executive);
 - (iv) Copy/ Copies of the approval(s) including permissible variations, issued by DGFASLI, duly attested by the manufacturer (by senior level executive).
2. Further revalidation of approval of such equipment after five years (i.e. 10 years from the first approval) shall be issued after re-testing of the said equipment by the approved testing laboratory. The procedure for approval shall be same as given in (A) above.

(D) OTHER IMPORTANT INFORMATION

1. The DGFASLI approval number and date must be inscribed in the nameplate of the equipment
2. Obtaining licence from BIS, on approval from DGFASLI is mandatory.
3. Approval may be amended, reviewed or revoked, if considered necessary by the DGFASLI. Any violation / deviation observed in any manner shall result in revocation of the approval issued.
4. Field performance report from users of the Gas Group IIC equipment shall be furnished to the DGFASLI for verification and record annually.
5. Officials of DGFASLI may visit the manufacturing unit as and when considered necessary. The compliance report on the suggestion/ observations made by them in their report shall be submitted to DGFASLI within the time limit prescribed.

After getting the proposal from the manufacturer, the same will be scrutinized and if found in order in all respects, the approval will be granted within a period of five weeks. In case of any discrepancies, the same is to be conveyed to the party within a period of seven working days.