



Indian Register of Shipping

CERTIFICATE NO: 2024TAC074

TYPE APPROVAL CERTIFICATE

(This certificate is issued under the Authority of Directorate General of Shipping, Government of India)

This is to certify that the product is in accordance with the applicable rules/standards/codes as described below. The product is considered to be suitable for use in marine applications and is **included** in the list of approved products.

MANUFACTURER	M/S INTEGRATED FIRE PROTECTION PVT LTD
MANUFACTURING WORKS	Rajbaripara, Post & Dist. Jalpaiguri - 735101, West Bengal, India
REGISTERED OFFICE	60A, Pandit M M Malabya Sarani, Chakraberia Road (North), Kolkata - 700020, West Bengal, India
PRODUCT NAME	FIRE EXTINGUISHING CHEMICAL
MODEL NO. / TRADE NAME	IFP UNILIGHT AFFF TYPE 3 - C6 IFP UNILIGHT AFFF TYPE 6 - C6 IFP UNILIGHT AGFFF TYPE 3/3 - C6 (AR-AFFF) IFP UNILIGHT AGFFF TYPE 3/6 - C6 (AR-AFFF) IFP PF-3
PRODUCT DESCRIPTION	Low Expansion Foam Concentrates for use in a) Fixed and mobile fire extinguishing systems b) Portable foam type fire extinguishers (For details, See Annexure-I)
APPLICABLE RULES/STANDARDS/CODES	- IS 4989:2018 - Foam Concentrate for Producing Mechanical Foam for Fire Fighting - Specification - IMO MSC.1/CIRC.1312 & MSC.1/CIRC.1312 CORR.1 - IRS Rules and Regulations for the Construction and Classification of Steel Ships
CONDITIONS OF APPROVAL	See Annexure - I
VALIDITY	The Certificate is valid until 08/09/2029

ISSUE DATE: 09/09/2024
PLACE: MUMBAI


Premjit Panigrahi
Sr. Principal Surveyor

This Certificate is issued upon the following terms and conditions as laid down in the Society's Regulations:-
Whilst Indian Register of Shipping, a Classification Society, along with its subsidiaries and associates (hereinafter referred to as the Society) and its Board/Committees use their best endeavors to ensure that the functions of the Society are properly carried out, in providing services, information or advice neither the Society nor any of its servants or agents warrants the accuracy of any information or advice supplied. Except as set out herein neither the Society nor any of its servants or agents (on behalf of each of whom the Society has agreed this clause) shall be liable for any loss damage or expense whatever sustained by any person due to any act or omission or error of whatsoever nature and however caused of the Society, its servants or agents or due to any inaccuracy of whatsoever nature and howsoever caused in any information or advice given in any way whatsoever by or on behalf of the Society, even if held to amount to a breach of warranty. Nevertheless, if any person uses services of the Society, or relies on any information or advice given by or on behalf of the Society and suffers loss damage or expenses thereby which is proved to have been due to any negligent act omission or error of the Society, its servants or agents or any negligent inaccuracy in information or advice given by or on behalf of the Society then the Society will pay compensation to such person for his proved loss up to but not exceeding the amount of the fee charged by the Society for that particular service, information or advice. Any notice of claim for loss, damage or expense, as referred to above, shall be made in writing to the Society's Head Office within six months of the date when the service, information or advice was first provided, failing which all the rights to any such claim shall be forfeited and the Society shall be relieved and discharged from all liabilities.



ANNEXURE-I

TO CERT. NO. 2024TAC074 DATED 09TH SEPTEMBER 2024

PRODUCT DESCRIPTION

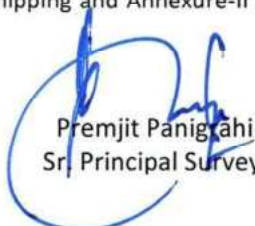
Low Expansion Foam Concentrates

- Aqueous Film Forming Foam Concentrate 3% (AFFF-3%) and 6% (AFFF-6%)
- Alcohol Resistant - Aqueous Film Forming Foam Concentrate 3X3 (AR-AFFF – 3X3) and 3X6 (AR-AFFF – 3X6)
- Protein Foam Concentrate 3% (PF-3%)

TERMS AND CONDITIONS

This approval is subject to following:

- 1) The manufacturer is to maintain effective quality system complying with the most current version of ISO 9001 series. Manufacturing license for the foam concentrate issued by Bureau of Indian Standards is to remain valid throughout the validity of this certificate.
- 2) Foam Concentrate product is
 - To be supplied with instruction regarding its use with respect to storage, charging and disposal
 - To be supplied with manufacturer's test certificate together with main characteristics (sedimentation, pH-value, expansion ratio, drainage time and volumetric mass).
- 3) Marking on the containers of foam concentrates is to carry all information as listed in clause 3.13 of IMO MSC.1/Circ. 1312.
- 4) Suitable instructions are to be given to the ship owner or operator to conduct periodical tests, in accordance with clause 4 and 5 of IMO MSC.1/Circ. 1312, not more than 3 years after being supplied to the ship and thereafter every year, at laboratories accredited by NABL to assess the condition of foam concentrate and results should comply with the values mentioned on test certificate of corresponding batch.
- 5) This approval is given to the foam concentrate and not extended to the foam generating equipment.
- 6) Storage facilities and piping arrangement in fire extinguishing systems are to be designed and constructed with regard to the minimum allowed temperature for the foam liquid.
- 7) Each particular application is to be specifically approved in conjunction with the relevant firefighting system and is to be subject to any special instructions and acceptance by the Flag Administration.
- 8) Any change in the constituents or manufacturing process affecting the approval would require re-assessment of the works for continued approval.
- 9) Any revision to the applicable IS standard and MSC circular would necessitate testing and re-approval of the above products.
- 10) Type Approval does not eliminate routine tests which are to be carried out on every production batch and records of which are to be shown to the attending Surveyor during annual audit.
- 11) Annual audit being carried out by the Surveyors of Indian Register of Shipping and Annexure-II of the certificate being duly endorsed.


Premjit Panigrahi
Sr. Principal Surveyor