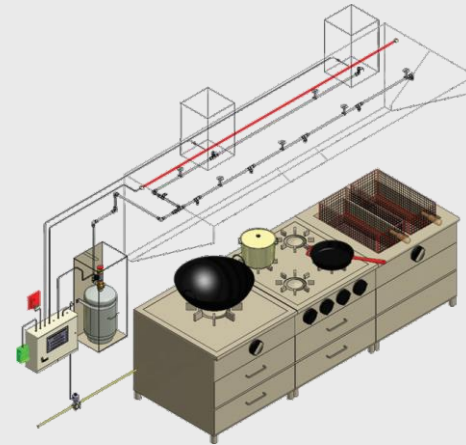
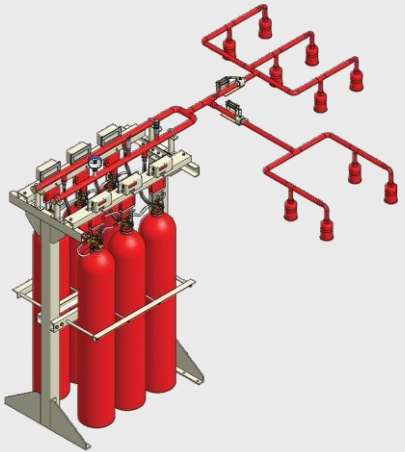


ARISOR SOLUTIONS PVT. LTD.

TOTAL SOLUTIONS PROVIDER FOR FIRE PREVENTION & FIRE FIGHTING NEEDS.



SALES & Service of Fire Fighting Systems & Equipments

Contact:
+91 9482089255
+91 9241013194

Email:
contact@arisorsolutions.com
marketing@arisorsolutions.com

Head Office:
46/B, NOSENURU, JIGANI HOBLI, ANEKAL TQ, BENGALURU-562106, INDIA.



www.arisorsolutions.com



SWASTIK SYNERGY ENGINEERING PVT. LTD. (SSEPL) is one of the leading Manufacturer and Supplier of Fire Fighting Appliances, Equipment & Systems.

SSEPL's manufacturing and warehousing facility is located at Khopoli near Mumbai and it consist of all the necessary and sophisticated plant machinery from Deep Drawing Press to complete Fire Extinguisher assembly line. Its Head Office is located at Santacruz, Mumbai.

Team of SSEPL is conscious of quality control and the same is implemented at every stage right from purchasing of raw material to final performance of product.

SSEPL is approved by **CCOE (PESO)** for filling and storing of firefighting gases. SSEPL is a SSI Unit and has adopted ISO 9001:2015 and is registered with **NSIC, MSME** and a proud member of **Fire Protection Association of India, Fire and Security Association of India and Retailer Association of India.**

SSEPL is licensed Agency (Maharashtra) for the purpose of 'Fire Prevention and Life Safety Measurers' for:

- * Fire Fighting System Installation such as hydrants, sprinklers, pumping etc.
- * Detection and Fire Suppression System.
- * Passive Protection such as cable protection, fire doors etc.

Each and every product of SSEPL is manufactured keeping in mind that it performs well, long lasting and cost less.





Swastik Synergy aims to produce quality and safe Fire Fighting Equipments to our customers. We value our customers and we are committed to provide service that meets customer's expectations and specifications.

Swastik Synergy ensures the effective, safe, productive and profitable operation. We are committed to continually improve our Quality Management System and compete globally. Our company is committed to effectively implement our Quality Management System bases on the requirements of ISO 9001:2015. Thus, our company ensures that Quality Objectives and this Policy are reviewed periodically, to continuously improve our system.

With the commitment to provide full satisfaction to our customers, timely delivery shall be done and our products will be sold at an affordable price. We commit to providing the importance of meeting customer as well as statutory and regulatory requirements.

1ST ASIAN COMPANY CO2 FIRE SUPPRESSION SYSTEM



CERTIFICATE OF COMPLIANCE

Certificate Number 20160107-EX26448
Report Reference EX26448-20160106
Issue Date 2016-JANUARY-07

Issued to: Swastik Synergy Engineering Private Limited
No. 302 Business Suites 9 S. V. Road Santacruz West Next
to RAAS
Mumbai Maharashtra 400054 INDIA

This is to certify that representative samples of CARBON DIOXIDE EXTINGUISHING SYSTEM UNITS, GENERAL USE
High pressure carbon dioxide extinguishing system units, stored pressure type, having nominal charging capacities of 2.0, 4.5, 6.6, 9, 22.5, 45, 53, 66, 80 and 100 kg (4.4, 10, 13, 20, 50, 100, 117, 147, 176 and 220 lbs) of Carbon Dioxide. The units have an operating pressure of 58 bar (850 psi) at 210C (70°F) with operating temperatures of -18°C to 54.4°C (0°F to 130°F).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 2127 - Standard for Safety for Inert Gas Clean Agent Extinguishing System Units.
NFPA 12 - Standard For Carbon Dioxide Extinguishing Systems.

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

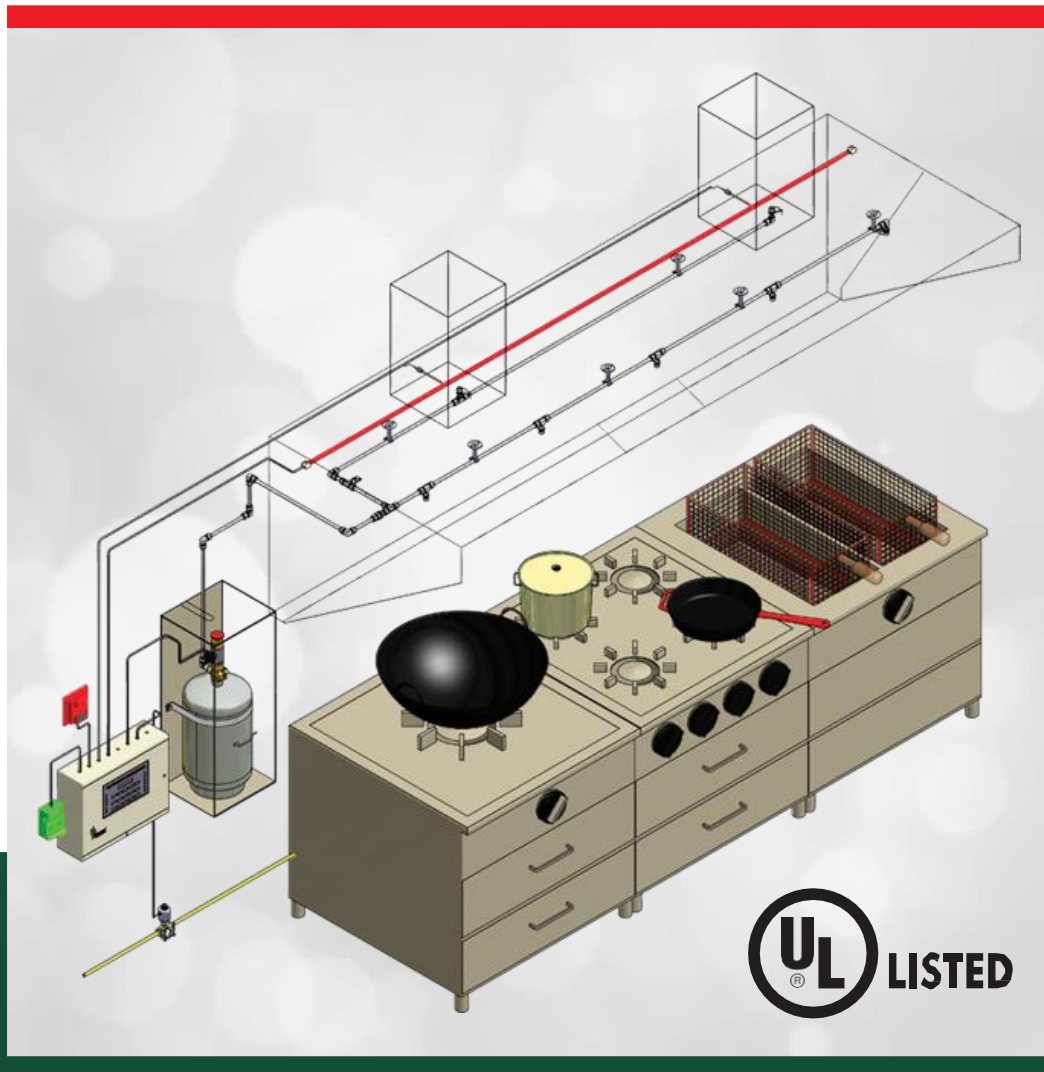
Look for the UL Certification Mark on the product.


Bruce Mainwaring, Director North American Certification Program

UL LLC
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/about/locations>



ONLY ASIAN COMPANY KITCHEN FIRE EXTINGUISHING SYSTEM



CERTIFICATE OF COMPLIANCE

Certificate Number 20180215-EX26640
Report Reference EX26640-20170526
Issue Date 2018-February-15

Issued to: Swastik Synergy Engineering Private Limited
No. 302 Business Suites
9 S. V. Road Santacruz West
Mumbai Maharashtra 400054 INDIA

This is to certify that representative samples of WET-CHEMICAL-SOLUTION EXTINGUISHING SYSTEM UNITS CON-FERNO Series, 9, 12, 15, 18, 21, 24, 27 and 30 Liter capacity, stored-pressure extinguishing system units. Unit is designed to discharge wet chemical solution from fixed nozzles for the extinguishment of fires in cooking appliances, hoods, plenums, filters, and ducts used for the ventilation of restaurant cooking equipment when such fires originate in the entrance of the ventilating equipment. For use at temperatures from +320F to +120°F. Operated by automatic means with manual back up. Includes the protection of deep fat fryers, range tops and woks.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL300, Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment
UL1254, Pre-Engineered Dry Chemical Extinguishing System Units

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.


Bruce Maheshwari, Director North American Certification Program

UL LLC

Any infringement and dissemination involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/about/contact>.

Page 1 of 1



1ST ASIAN COMPANY INERT GAS FIRE EXTINGUISHING SYSTEM



Anerkennung Approval

von Bauteilen und Systemen
of Components and Systems

Inhaber der Anerkennung / Holder of the Approval
Swastik Synergy Engineering PVT. LTD.
302, Business Suites 9, S.V Road
IN-400054 Santacruz (W), Mumbai

Anerkennungs-Nr. / Approval No.	Anzahl der Seiten / No. of pages	gültig vom (TT.MM.JJJJ) / valid from (dd.mm.yyyy)	gültig bis (TT.MM.JJJJ) / valid until (dd.mm.yyyy)
S 318006	16	21.11.2022	01.07.2026

Gegenstand der Anerkennung / Subject of the Approval
Permanent-Inertgas-Feuerlöschsystem
Permanent inert gas fire extinguishing system
Typ / Type: "Synert xxx bar inert gas system"

Verwendung / Use
in ortsfesten IG-01-, IG-100-, IG-55- und IG-541-Hochdruck-
Feuerlöschanlagen /
in fixed IG-01, IG-100, IG-55 and IG-541 high pressure fire
extinguishing systems

Anerkennungsgrundlagen / Basis of the Approval
VdS 2344:2014-07
VdS 2454:2013-07

Köln, den 21.11.2022


 Dr. Reiner Mann
Geschäftsführer /
Managing Director


 i. V. Hesel
Leiter der Zertifizierungsstelle /
Head of Certification Body

VdS

Die Anerkennung umfasst nur Gas-angenehme Bauteile/Systeme in der zur Prüfung ermittelten Ausführung

- mit den Bestandteilen nach Anlage 1
- dokumentiert in den technischen Unterlagen nach Anlage 2.
- zur Verwendung in den angegebenen Einrichtungen der Brandschutz- und Sicherheitstechnik.

Bei der Anwendung des Gegenstandes der Anerkennung sind die Hinweise nach Anlage 3 zu beachten.

Das Zertifikat darf nur unverändert und mit sämtlichen Anlagen verwendet werden. Alle Änderungen der Voraussetzungen für die Anerkennung sind der VdS-Zertifizierungsstelle - mitsamt den erforderlichen Unterlagen - unverzüglich zu übermitteln.

This Approval is valid only for the specified component/system as submitted for testing

- together with the parts listed in enclosure 1
- documented in the technical documents according to enclosure 2.
- for the use in the specified fire protection and security installations.

When using the subject of the approval the notes of enclosure 3 shall be observed.

This certificate may only be reproduced in its present form without any modifications including all enclosures. All changes of the underlying conditions of this approval shall be reported at once to the VdS certification body including the required documentation.

VdS Schadenverhütung GmbH
Amsterdamer Str. 174
D-50735 Köln

Ein Unternehmen des Gesamtverbandes der Deutschen Versicherungswirtschaft e.V. (GDV), durch die DAK&S akkreditiert als Zertifizierungsstelle für Produkte in den Bereichen Brandschutz und Sicherheitstechnik.

A company of the German Insurance Association (GDV) accredited by DAK&S as certification body for fire protection and security products


Deutsche
Akkreditierungsstelle
0-21149-01

SYNERGY FIRESENSE DIRECT LOW PRESSURE SYSTEM - HFC227 & FK-5-1-12



CLEAN AGENT FIRE EXTINGUISHING SYSTEM FK-5-1-12 (SYNERGY 1230)



CERTIFICATE OF COMPLIANCE

Certificate Number	EX28480
Report Reference	EX28480-2022-01-13
Date	2022-January-14

Issued to: Swastik Synergy Engineering Private Limited
No. 302 Business Suites
9 S. V. Road Santacruz West
Mumbai Maharashtra, 400054 IN

This is to certify that representative samples of CLEAN-AGENT EXTINGUISHING SYSTEM UNITS
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/CAN/UL/ULC 2166 - Standard for Safety for Halocarbon Clean Agent Extinguishing System Units.

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Barthelme
Bruce Mahrenholz, Director North American Certification Program
UL LLC
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/about/contact>



BUS FIRE DETECTION ALARM & SUPPRESSION SYSTEM SYNEX FDSS & FAPS - AIS 135 Approved

INTRODUCTION

- ★ **Advanced Fire Detection:** High-Sensitivity Detectors Identify Fire Hazards at an Early Stage.
- ★ **Automatic Suppression:** Triggers Fire Extinguishing System for Engine/Battery Compartment Fires.
- ★ **Passenger Protection:** Water Mist Technology ensures safe Evacuation in Case of Fire.
- ★ **Multi-Sensor Detection:** Uses Multiple Sensors for Accurate and Quick-Fire Detection.
- ★ **Eco-Friendly System:** Utilizes Environmentally Safe Suppression Agents.
- ★ **Reliable & Effective:** Specially Designed for Buses to Ensure Maximum Fire Safety.






SYSTEM / COMPONENT TEST APPROVALS

- ★ EMI EMC as per AIS 004 Part 3
- ★ AIS 135, October 2016 (138°C & 187°C Detection)
- ★ IP X8 of Control Panel
- ★ TOT from DRDO
- ★ Water Mist Nozzle (CFEES)








BUS FIRE DETECTION ALARM & SUPPRESSION SYSTEM SYNEX FDSS & FAPS - AIS 135 Approved

BASIC FEATURES

-  Power Supply - FDAS & FDSS, FAS & FPS (Single or Multizone) operate on either 12 VDC or 24 VDC, making them compatible with various vehicle electrical systems.
-  Operating Modes - FDAS & FDSS, FAS operates in Auto/ Manual Mode.
-  Fire or Fault Signal Indication.
-  FPS Operates only in Manual Mode.
-  Manual Activation.

ADDITIONAL FEATURES

-  Three individual Detector monitoring. (Multizone)
-  Self-Diagnostics.
-  Same LHS monitoring Circuit can be used as a Cross Zone Circuit.
-  SOV Cable Monitoring Feature.
-  LHS Cable and Multi Sensor Detector Fault Monitoring Feature.

CERTIFICATIONS



BUS FIRE DETECTION ALARM & SUPPRESSION SYSTEM SYNEX FDSS & FAPS - AIS 135 Approved

SYSTEM EFFECTIVENESS

System has been designed to work regardless of the vehicle's attitude, road conditions etc. System consists of automatic self-test monitor for detection cable for break / cut / crack.



STORAGE CONTAINERS



CERTIFICATE OF COMPLIANCE

Certificate Number 20161129-EX27291
Report Reference EX27291-20161123
Issue Date 2016-NOVEMBER-29

Issued to: Swastik Synergy Engineering Private Limited
No. 302 Business Suites
9 S. V. Road Santacruz West
Mumbai Maharashtra 400054 INDIA

This is to certify that representative samples of COMPONENT - STORAGE CONTAINERS FOR EXTINGUISHING SYSTEM UNITS
See Addendum Page

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1254, Pre-Engineered Dry Chemical Extinguishing System Units; UL 2166, Halocarbon Clean Agent Extinguishing System Units.

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: "... may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.


Bruce Malvern, Director North American Certification Program

UL LLC
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/about/localoffice>



HEAT DETECTION TUBE

FireSense®



CERTIFICATE OF COMPLIANCE

Certificate Number 20191126-S36239
Report Reference S36239-20191107
Issue Date 2019-NOVEMBER-26

Issued to: Swastik Synergy Engineering Private Limited
No. 302 Business Suites
9 S. V. Road Santacruz West
Mumbai Maharashtra 400054 INDIA

This certificate confirms that representative samples of COMPONENT - HEAT-AUTOMATIC FIRE DETECTORS
See Addendum page

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: the Standard for Safety for Heat Detectors for Fire Protective Signaling Systems, UL 521.

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.


Bruce Mahlenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at info@ul.com or [18003682773](tel:18003682773)



Page 1 of 2



भारत सरकार / Government of India
वाणिज्य और उद्योग मंत्रालय / Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन / Petroleum & Explosives Safety Organisation (PESO)
ए.1 और ए.2 विंग, पॉपुलर नल, केंद्रीय कार्यालय परिसर, सी.डी.डी. बेलपुर
नवी मुंबई (मह.) - 400614
A1 & A2 wing, 5th Floor, C.G.O. complex, CBD Belapur, Navi Mumbai (M.S.), Mumbai - 400614

ईमेल / E-mail :
jtccemumba@explosives.gov.in

दूरभाष / Phone/Fax No : 022 -
27575946, 27573881

दि/ Dated : 21/09/2021

सं/No : G/HO/MH/05/675 & G/HO/MH/06/696(G31561)

सेवा में / To,

M/s. M/s. Swastik Synergy Engineering Private Limited,,
Sy.No.53/2 & 53/3, Village Ajvali, Khopoli Pen Road,,
Taluk Khalapur, POst Donvat
Raigad,
District: RAIGAD
State: Maharashtra
Pin : 410203

विषय/ Sub : Plot No, Sy.No. 53/2 & 53/3, Khopoli Pen Road, Taluk Khalapur PO Donvat, Ajivali, Khalapur, Taluka: Khalapur, District: RAIGAD, State: Maharashtra, Pin : 410203 में सिलिण्डरों में AIR, Halon 1301, HFC-227, HFC-236, NITROGEN, NOVEC-1230 गैस का भरण एवं भण्डारण गोडाउन- गैस सिलेण्डर, सं नियम, 2016 के अंतर्गत फार्म 'इ' एवं 'एफ' में जारी अनुज्ञप्ति सं. G/HO/MH/05/675 & G/HO/MH/06/696(G31561) नवीकरण के बारे में / Filling of AIR, Halon 1301, HFC-227, HFC-236, NITROGEN, NOVEC-1230 and Storage of AIR, NITROGEN, Halon 1301, HFC-227, HFC-236, NOVEC-1230 at Plot No, Sy.No. 53/2 & 53/3, Khopoli Pen Road, Taluk Khalapur PO Donvat, Ajivali, Khalapur, Taluka: Khalapur, District: RAIGAD, State: Maharashtra, Pin : 410203 Licence No. G/HO/MH/05/675 & G/HO/MH/06/696(G31561) granted in Form E & F of Gas Cylinders Rules, 2016 - Renewal regarding

महोदय/ Sir(s),

कृपया आपके दि. 15.09.2021 के पत्र सं. OIN861730 का संदर्भ ग्रहण करें। Please refer to your application No. OIN861730 dated 15.09.2021.

अनुज्ञप्ति संख्या G/HO/MH/05/675 & G/HO/MH/06/696 30th Septemebr, 2026 तक नवीनीकृत कर भेजी जा रही है / Licence Number: G/HO/MH/05/675 & G/HO/MH/06/696 is renewed and valid upto 30th Septemebr, 2026 is forwarded herewith.

कृपया नोट करें कि गैस सिलेण्डर नियम, 2016 के नियम 55(5) के अनुसार, अनुज्ञप्ति के पुनः नवीकरण हेतु आवेदन The Jt. Chief Controller of Explosives, West Circle, Navi Mumbai (M.S.) इस कार्यालय को इस अनुज्ञप्ति की वैधता समाप्त होने के पूर्व (दिनांक 30 सितम्बर 2026 को या इससे पूर्व) जमा कर दें। दिनांक 30 सितम्बर 2026 के पश्चात परंतु दिनांक 30 सितम्बर 2027 से पूर्व प्राप्त नवीनीकरण आवेदन, गैस सिलेण्डर नियम, 2016 के नियम 55(7) के अनुसार विनंश शुल्क के साथ ही विचारार्थ होना। दिनांक 30 सितम्बर 2027 तक कोई नवीनीकरण आवेदन प्राप्त नहीं होने की स्थिति में यह अनुज्ञप्ति स्वतः निरस्त हो जाएगी। / Please note that application for renewal of the licence should be submitted so as to reach the The Jt. Chief Controller of Explosives, West Circle, Navi Mumbai (M.S.) before the licence expires (i.e. on or before 30th Septemebr, 2026) as required under Rule 55(5) of Gas Cylinders Rules, 2016. Application for renewal of licence received after 30th Septemebr, 2026 but not later than 30th September, 2027 shall be considered only with late fee applicable vide Rule 55(7) (a)(b) of said Rules. The licence will automatically expire if no application is received upto 30th Septemebr, 2027.

कृपया इस पत्र की प्राप्ति की पाकटी दें। / Please acknowledge the receipt of the same.

भवदीय / Yours faithfully,

((कनक सिंह मीना)
(Kanak Singh Meena)
उप विस्फोटक नियंत्रक



Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
5th Floor, A-Block, CGO Complex, Seminary Hills,
Nagpur - 440006

E-mail : explosives@explosives.gov.in
Phone/Fax No : 0712 -2510248, Fax-2510577

Dated : 26.08/2022

No : A/G/HO/MH/GCT/36(G104817)

To,

M/s. swastik synergy Engineering Pvt Ltd,
53/2,53/3, Khapoli pen road donavat post, khalapur,
ajvali,
Khalapur,
Taluka: Khalapur,
District: RAIGAD
State: Maharashtra
Pin : 410203

Sub : Periodical Examination and testing of NOVEC-1230, AIR, NITROGEN, HFC-227, HFC-236, Halon 1301, Seamless, Welded cylinders at Survey No, 53/2, 53/3, village ajvali post Donvat, khapoli pen road, taluk khalapur, distt Raigad, maharashtra, donvat, Khalapur, Taluka: Khalapur, District: RAIGAD, State: Maharashtra, Pin : 410203. Renewal under Gas Cylinders Rules, 2016 regarding.

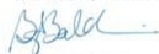
Sir(s),

Please refer to the inspection of your works by an office of the office of the on .

There is no objection to your carrying out periodic examination and testing of NOVEC-1230, AIR, NITROGEN, HFC-227, HFC-236, Halon 1301, Seamless, Welded cylinders in your above mentioned container testing station subject to the observance of the following conditions:

1. The degassing of the contents shall be done at the place approved by this office. The cylinders shall be fully degassed till they show zero reading for the absence of the flammable gas when tested with Explosives meter before subjecting the cylinders for testing.
 2. Not more than five cylinders shall be degassed at a time.
 3. The degassing and testing of cylinders shall be carried out only during daylight hours.
 4. The examination and testing of cylinders shall be carried out only under continuous supervision of qualified and experienced personnel.
 5. The Cylinders, which are approved for filling in writing by CCE office, shall only be undertaken for periodic examination/Testing.
 6. All provisions of the relevant Indian standard code of practice for cylinders inclusive visual inspection shall be observed.
 7. CNG-ONB cylinders shall be subjected to Ultrasonic flaw detection test as per Annex D to IS:15490:2004.
 8. The cylinders passed in the periodical examination and testing shall be marked with the code mark of the testing station and other relevant information as required under rule 6 of the Gas cylinders Rules, 2016. The due date for next test or the date of expiry of service life of the cylinder, as the case may be, shall be clearly marked on the stainless steel ring inserted between the valve and the neck of the cylinders.
 9. The quality management system of the testing station shall be covered under ISO:9001 certification from BIS or any other internationally reputed certifying agency with the accreditation with NABCB (Indian Accreditation Body) with in six months.
 10. The requirements of Provisions of Rule 35 of the said rules shall be followed and records of test and examination of Cylinders shall be maintained for the service life of the Cylinders. The data record maintainance system shall be fully computerised.
 11. The cylinders found unserviceable (Service life expired and failed in tests) shall be condemned as required under rule 36 of the said rules, and records there of shall be furnished to this office on the 1st of January, April, July and October every year.
 12. No change in the organisational set up and machinery of testing station shall be effected without obtaining approval of this office.
 13. The other relevant provisions of the said rules are complied with.
- The approval may be reviewed, amended or withdrawn at any time, if considered necessary in the interest of safety or if any of the conditions mentioned above is violated or not complied with.



	U. S. Department of Homeland Security
	United States Coast Guard
Certificate of Approval	
Coast Guard Approval Number: 162.038/14/0	Expires: 12 December 2028
CARBON DIOXIDE TYPE FIRE EXTINGUISHING SYSTEM	
Swastik Synergy Engineering Private Limited No. 302 Business Suites 9 S. V. Road Santacruz West Mumbai Maharashtra 400054 INDIA	
High Pressure Marine Carbon Dioxide Fire Extinguishing Systems.	
Systems intended for the protection of machinery spaces, vehicle spaces, ro-ro spaces, and other enclosed spaces with Class B and C hazards.	
Identifying Data: UL test reports EX26448-20230915, File EX26448, dated 15 September 2023, and High Pressure CO2 Engineering Installation and Operation Manual, P/N SSEPL990000-USCG.	
Follow-Up Program: UL EX26448	
Approval valid only for products from the factory location in Khalapur, Raigad Maharashtra, India	
*** End ***	
THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.	
	GIVEN UNDER MY HAND THIS 12 th DAY OF DECEMBER 2023, AT WASHINGTON D.C.  B. A. BALDWIN Chief, Lifesaving and Fire Safety Division BY DIRECTION OF THE COMMANDANT
DEPT. OF HOMELAND SECURITY, USCG, CGHQ-10030 (REV. 3-03)	

CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2338955-0
Report Reference EX26448-20230915
Date 27-Sep-2023

Issued to: Swastik Synergy Engineering Private Limited
 No. 302 Business Suites
 9 S. V. Road Santacruz West
 Mumbai, Maharashtra 400054
 India

This is to certify that representative samples of GOYU - Carbon Dioxide Extinguishing System Units, Marine
 See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: NFPA 12, Issue Date: 2022, Revision Date: 2021-04-15

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Deborah Jennings-Conner
 Deborah Jennings-Conner, VP Regulatory Services

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutus/localization/>



CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2338955-0
Report Reference EX26448-20230915
Date 27-Sep-2023

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
Marine Extinguishing System Units, Marine Type High-pressure carbon dioxide extinguishing system units, stored pressure type, having nominal charging capacities of 2.0, 4.5, 6.6, 9, 22.5 and 45 kg (4.4, 10, 13, 20, 50 and 100 lbs) of Carbon Dioxide. The units have an operating pressure of 58 bar (850 psi) at 210C (70°F) with operating temperatures of -18°C to 54.4°C (0°F to 130°F) or -18°C to 50°C (0°F to 122°F). A description of these extinguishing system units and the limitations of the hazards to be protected are contained in the installation manual (P/N SSEPL990000, Revision 04) dated 2023-08-30. Copies of the manual are available from the above Listee.	High pressure carbon dioxide extinguishing system units

Deborah Jennings-Conner
 Deborah Jennings-Conner, VP Regulatory Services

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutus/localization/>





GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
DIRECTORATE GENERAL OF QUALITY ASSURANCE
DIRECTORATE OF QUALITY ASSURANCE (WARSHIP PROJECT)
REGISTRATION CERTIFICATE

It is certified that M/s Swastik Synergy Engineering Pvt Ltd, Survey No. 53/2 & 53/3, Village: Ajivali, Khopoli: Pen Road, Taluka: Khialapur, Post: Donvat, Dist: Raigad - 410203, Maharashtra after assessment of their Manufacturing capacity/ capability for defence items has been approved for Registration vide Registration No. MS:DDP:Gde I-0778(S) dated 02 Feb 2024 and CDB No. W2405665A dated 06 Feb 2024 as follows:

(a) As a developed source and has complete resources and is manufacturing following equipment/stores/items:

S. No.	Nomenclature and details of the store(s)	MPC per shift	Specifications	Supply order if executed
As per Annexure I				

(b) Is an undeveloped source for manufacturing the following equipment/stores/items. (SO to be placed on such firms as per chapter 15.2.1(h) and 15.10.1 (a) & (b) of DPM 2009):

S. No.	Nomenclature and details of the store(s)	PC Per Shift	Specifications

No. of items for which registered : 05 Items only
 Monetary limit per annum : Rs 118.35 Crore (Rs One Hundred Eighteen Crore and Thirty Five Lakhs Only)
 Capability of Number of Shifts : 01 Shift
 Category of Registration : Design, Development & Production (DDP)
 Grading of Manufacturer : I
 This certificate is valid up to : 01 Feb 2029
 This certificate is issued subject to conditions indicated overleaf.





 (Sanjay Chopra)
 Cmde
 Off ADGQA (WP)

Date: 09 Feb 2024
Control No. W2405665A

Annexure-I to DQA (WP) Registration Certificate No.
 MS:DDP:Gde I-0778(S) dated 09 Feb 2024 in
 respect of M/s Swastik Synergy Engineering Pvt Ltd,
 Raigad

S.No.	Nomenclature of Items (Stores)	Monthly Production Capacity on Single Shift Basis	Specifications
1.	Kitchen Fire Suppression System	625 Sets	As per customer requirements
2.	Fireseance System	334 Sets	
3.	Carbon Dioxide (CO ₂) Fire Extinguishing System	125 Sets	
4.	Inert Gas Fire Extinguishing System	167 Sets	
5.	Clean Agent Fire Extinguishing System	167 Sets	




 (Sanjay Chopra)
 Cmde
 Off ADGQA (WP)

Date: 09 Feb 2024



महाराष्ट्र MAHARASHTRA 2022 BT 038957

प्रधान मुद्रांक कार्यालय, मुंबई
प.म.वि.क्र. ८००००१५
22 SEP 2022
सक्षम अधिकारी L

श्रीमती लता सांगळे
Licensing Agreement for Transfer of Technology (LAToT)

Between

Centre for Fire Explosive and Environment Safety (CFEES), Delhi

Defence Research & Development Organisation (DRDO), India

Ministry of Defence, Government of India

&

M/s Swastik Synergy Engineering Pvt. Ltd., Mumbai

Water Mist System for Bus Occupant Compartment Fire Protection System

Director CFEES	Director DI ² TM	Authorised Signatory: M/s Swastik Synergy Engineering Pvt. Ltd., Mumbai
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License No. DRDO/DI²TM/ 2023/ 1551

Page 1 of 14



महाराष्ट्र MAHARASHTRA 2023 CC 539915

प्रधान मुद्रांक कार्यालय, मुंबई
प.म.वि.क्र. ८००००१५
18 SEP 2023
सक्षम अधिकारी C

Licensing Agreement for Transfer of Technology (LAToT)

Between

श्रीमती सुपना चव्हाण
Centre for Fire Explosive and Environment Safety (CFEES), Delhi

Defence Research & Development Organisation (DRDO), India

Ministry of Defence, Government of India

&

M/s Swastik Synergy Engineering Pvt Ltd, Mumbai

for,

Transfer of Technology (ToT)

of

High Pressure Water Mist Fire Suppression System (HP WMFSS)

Director CFEES	Director DI ² TM	Authorised Signatory: M/s Swastik Synergy Engineering Pvt. Ltd., Mumbai
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License No. DRDO/DI²TM/ 2023/ 1665



महाराष्ट्र MAHARASHTRA

2024

CV 614939

प्रधान मुद्रांक कार्यालय, मुंबई
प.सु.क्र.क १००००१५
- 5 DEC 2024
सक्षम अधिकारी C

Licensing Agreement for Transfer of Technology (LATO)

Between

Centre for Fire, Explosive & Environment Safety (CFEES), Delhi
Defence Research & Development Organisation (DRDO), India
Ministry of Defence, Government of India

And

M/s Swastik Synergy Engineering Pvt Ltd, Mumbai, India

For

Transfer of Technology (ToT) of
Magazine Fire Fighting System for Naval Ships (MFFS)

Lic No. DRDO/DITM/TOT/2025/1966

अरविन्द कुमार / Arvind Kumar
उत्कृष्ट वैज्ञानिक / Outstanding Scientist
निदेशक, CFEES
डीआरडी, मंत्रालय / Ministry of Defence
संयुक्त राज्य / Govt. of India
फिरोजपुर, दिल्ली / Ferozpur, Delhi-110054

अरुण चौधरी / ARUN CHAUDHARY
निदेशक, DITM
डीआरडी ओ एम्/DRDO HQs
नई दिल्ली / New Delhi-110011

Authorized Signatory
M/s Swastik Synergy
Engineering Pvt Ltd





CERTIFICATE NUMBER 24-2508676-PDA
EFFECTIVE DATE 25-Mar-2024
EXPIRY DATE 24-Mar-2029
ABS TECHNICAL OFFICE Houston ESD - Piping

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

SWASTIK SYNERGY ENGINEERING PVT LTD

located at

302 , BUSINESS SUITES 9,S.V ROAD SANTACRUZ (W), , MUMBAI,
India, 400054

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Fire Suppression System
Model: Model SSEPL9900000
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 24/Mar/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

John Vincent Ulep
John Vincent Bog-Acon Ulep, Senior Principal Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

Certificate of Product Design Assessment Rev.3
of 1

Page 1

Sensitivity: Internal & Restricted

SWASTIK SYNERGY ENGINEERING PVT LTD
302 , BUSINESS SUITES 9,S.V ROAD SANTACRUZ (W)
India 400054
Telephone: +91 9820051611
Fax:
Email: mukesh@swastiksynergy.com
Web: www.swastiksynergy.com

Tier: 2 - PDA Issued

Product: Fire Suppression System
Model: Model SSEPL9900000
Endorsements:

Intended Service:

Marine & Offshore Applications - Local application and total flooding fire protection to be used as the basis of design for Marine CO2 Fire Extinguishing Systems using approved components as contained in manual

Description:

High Pressure Marine Carbon Dioxide Fire Extinguishing Systems. Systems intended for the protection of machinery spaces, vehicle spaces, ro-ro spaces, and other enclosed spaces with Class B and C hazards.

Rating:

Ratings to be in accordance with Manual High Pressure CO2 Engineering Installation and Operation Manual, P/N SSEPL9900000.

Service Restriction:

- 1) Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
- 2) ABS Certification is to be provided for each manifold and be made available to the attending Surveyor when the system is to be installed.
- 3) Automatic release of CO2 is not permitted in accordance with 4-7-3/3.1.7 of the Marine Vessel Rules (MVR), 5-2-3/8.7.3 of the Mobile Offshore Units (MOU), and Chapter 5.2.13.4 of the FSS Code. However in accordance with 4-7-1/1 of the MVR, consideration may be given to Fire Extinguishing Systems which comply with the published requirements of the Administration. Accordingly for U.S. Flagged vessels, arrangements for automatic release as indicated in a USCG approved manual may be accepted. Other Administrations should be approached for their respective position on automatic release.
- 4) The gas smothering medium is to be stored outside the protected space, and is to be situated in a safe and readily accessible position in accordance with 4-7-3/3.1.9 of the MVR and 5-2-3/3.1.1 of the MOU.
- 5) The CO2 gas extinguishing medium is to be stored outside the protected space. The store room is to be situated in a safe and readily accessible position and is to be effectively ventilated by a ventilation system independent of the spaces protected as per the ABS Rules

Comments:

- 1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- 2) For each installation the submittal is to include copies of the relevant data sheets for each piece of equipment used, as included in the Technical manual. Furthermore, the system arrangement indicating the following details is to be submitted to the ABS technical department:
 - (a) The system layout showing operation philosophy;
 - (b) The manifold(s) design and pipe scantling details;
 - (c) Capacity calculations and discharge time in accordance with the Rules;
 - (d) Hydraulic flow calculations indicating discharge time for each system in accordance with Rule requirements;
 - (e) Wiring diagrams and cable specifications showing cable layout, alarm circuitry and location;
 - (f) Locations of the release boxes as per 4-7-3/3.3.5 of the MVR;
 - (g) Dimensions and material of shipyard pipework;
 - (h) Control arrangements for the closing of all ventilation and stopping fans.
- 3) The Volume of Air Reservoirs are to be converted to Free Air Volume and added to the Gross Volume of Machinery Spaces when calculating the required Volume of the Extinguishing Medium. Alternatively, a Discharge Pipe from the Safety Relief Valves may be fitted and led directly to the open air.

Notes/Drawing/Documentation:

Drawing No. CO2 Manual, Installation and Operation Manual for Marine, Rev 03, Revised on 12/12/2023
Drawing No. CO2 USCG Manual-Rev 3,

MAHARASHTRA FIRE SERVICES LICENSE IN ALL CATAGORIES



Govt. of Maharashtra
Directorate of Maharashtra Fire Service
Vidyanagri, Hans Bhugra Marg, Santacruz (East),
Mumbai – 400 098, Tel-022-26677555, Fax-022-26677666
www.mahafireservice.gov.in

FORM N
[(See section 9 (3) and rule 14)
License to act as a License Agency for the purpose of
Fire Prevention and Life Safety Measure

License No. MFS / LA / RF-370 / RD-353 / RP-74

Date: 08.07.2023

License is hereby renewed under the provisions of sub-section (3) of section 9 of the Maharashtra Fire Prevention and Life Safety Measure Act, 2006 (Mah. III of 2007) to **M/s. Swastik Synergy Engineering Pvt Ltd.**, having their registration office at **302, Business Suite 9, S V Road, Santacruz (W), Mumbai 400 054** and their contact details are Office Number: 9820120885 and Email ID: info@swastiksynergy.com with TAN registration No. AAOC0204M and GST No. 27AAOC0204M1Z7 to act as a License Agency for the purpose of the said Act for execution of the fire prevention and life safety measures in relation to

- | | |
|---|---------|
| 1. Fire Fighting and Sprinkler System: | Class B |
| 2. Detection and Fire Suppression System: | Class A |
| 3. Passive System: | Class A |

M/s. Swastik Synergy Engineering Pvt Ltd., shall not issue Form A or Form B under sub-section (3) of section 3 regarding the compliance of the fire prevention and life safety measures or maintenance thereof in good repair and efficient condition, without there being actual such compliance or maintenance failing which license granted / renewed shall be suspended or cancelled as per sub section (4) of section 9 and shall be liable for penalty under section 36 of the Act.

Subject to the provision of sub section (4) of section 9 of the said Act and rule 14 of the Maharashtra Fire Prevention and Life Safety Measures Rules, 2009, the license will be valid for a period from **08.07.2023 to 07.07.2025**

Hatyal
Digitally signed
by Kiran
Date: 2023.07.13
21:06:46 +05'30'

Kiran
Asst Director
MUKESH
SHAH

Digital Signature of Authorized Person to sign Form A or Form B

Santosh
Shridhar
Warick

(S S Warick)

Director
Maharashtra Fire Service

Digitally signed by

Santosh Shridhar

Warick

Date: 2023.07.13

22:50:24 +05'30'

Note:

* in absence of digital sign of license holder (responsible to issue Form A or Form B) the license will be treated as invalid.



+91 9482089255



contact@arisorsolutions.com



www.arisorsolutions.com

