



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

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 Phone/Fax No : 0712 -2510248, Fax-2510577

Approval No : A/P/HQ/KA/104/5838 (P495384)

Dated : 20/01/2021

To,

**M/s. ABB Automation Products GmbH,**  
**Schillerstr. 72 32425 Minden ,Minden**  
**32425**  
**GERMANY**

**Sub** : Approval of Flame Proof, Intrinsically Safe Type E under Petroleum Rules 2002- Regarding.

Sir(s),

Please refer to your letter No. **OIN654166** dated **21/12/2020** on the subject.

The following Ex electrical equipment(s) manufactured by you according to **EN 60079-0 : 2012/A11 : 2013, EN 60079-1 : 2014, EN 60079-11 : 2012, EN 60079-31 : 2014,** standards and covered under **FM Approvals** Test reports mentioned below is/are approved for use in **Zone 1, Zone 2** of Gas **IIC** hazardous areas coming under the the Petroleum Rules, 2002 administered by this Organization.

Sr. No	Description	Safety Protection	Equipment reference Number	Test Agency			Drawing no
				Name	Certificate No.	Certificate Date	
1	FSV450 VortexMaster	II 1/2 G Ex db ia IIC T6 Gb/Ga Ta = -40 °C to +75	<b>P495384/1</b>	FM Approvals	FM13ATEX0057X	18/06/2019	As Per Test Report
2	FSS430 SwirlMaster	II 1/2 G Ex db ia IIC T6 Gb/Ga Ta = -40 °C to +75	<b>P495384/2</b>	FM Approvals	FM13ATEX0057X	18/06/2019	As Per Test Report
3	FSS450 SwirlMaster	II 1/2 G Ex db ia IIC T6 Gb/Ga Ta = -40 °C to +75	<b>P495384/3</b>	FM Approvals	FM13ATEX0057X	18/06/2019	As Per Test Report
4	FSV430 VortexMaster	II 1/2 G Ex db ia IIC T6 Gb/Ga Ta = -40 °C to +75	<b>P495384/4</b>	FM Approvals	FM13ATEX0057X	18/06/2019	As Per Test Report

This Approval is granted subject to observance of the following conditions:-

- 1)The design and construction of the equipment shall be strictly in accordance with description, condition and drawings as mentioned in the FM Approvals Test Reports referred to above.
- 2)The equipment shall be used only with approved type of accessories and associated apparatus.
- 3)Each equipment shall be marked either by raised lettering cast integrally or by plate attached permanently to the main structure to indicate conspicuously:-
  - (a) Name of the manufacturer
  - (b) Name and number by which the equipment is identified.
  - (c) Number & date of the test report of the FM Approvals applicable to the equipment.
  - (d) Equipment reference number of this letter by which use of apparatus is approved.
  - (e) Protection level.
- 4) A certificate to the effect that the equipment has been manufactured strictly in accordance with the drawing referred to in the FM Approvals Test report and is identical with the one tested and certified at FM Approvals shall be furnished with each equipment.
- 5) The customer shall be supplied with a copy of this letter, an extract of the conditions and maintenance schedule, if any, recommended by FM Approvals in their test reports and copy of instructions booklet detailing operation & maintenance of the equipment so as to maintain its Flame Proof characteristics.
- 6) The After sales service and maintenance of subject equipment shall be looked after by your representative ABB India Limited, ABB India Limited - IAMA Plot No 5 & 6 , 2nd Phase Peenya Industrial Area Bangalore - 560058

This approval also covers the permissible variations as approved under the FM Approvals test reports referred above. This approval is liable to be cancelled if any of the conditions of the approval is violated or not complied with . The approval may also be amended or withdrawn at any time, if considered necessary in the interest of safety.

The field performance report from actual users/your customers of the subject equipment may please be collected and furnished to this office for verification and record on annual basis.

The Approval is Valid upto **31/12/2025**

Yours faithfully,

**(K Srinivasa Rao)**  
**Controller of Explosives**  
**For Chief Controller of Explosives**  
**Nagpur**

Copy to :

1. Jt. Chief Controller of Explosives, South Circle Office, CHENNAI
2. ABB India Limited, ABB India Limited - IAMA Plot No 5 & 6 , 2nd Phase Peenya Industrial Area Bangalore - 560058

**for Chief Controller of Explosives**  
**Nagpur**

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

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