



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

Approval No : A/P/HQ/MH/104/8369 (P623087)

Dated : 27/02/2025

To,

M/s. Metrix Instrument Co.,
8824, Fallbrook, Houston, Texas, 77064, Houston
77064 Vivek.Joshi@Metrixvibration.com
U.S.A

Sub : Approval for A Type 5550 Vibration Switch under Petroleum Rules, 2002-reg.

Sir(s),

Please refer to your letter No. **OIN1915252** dated **11/02/2025** on the subject.

There would be no objection to your supplying subject manufactured item/equipment by you conforming to according to **IEC 60079-0 : 2017, IEC 60079-1 : 2014-06**, standards and covered under Certificate No. dted. The above shall be comprising of following approved type of electrical components as described below, the subject manufactured items is suitable for **Zone 1 only**:-

Sr.No	Description (Components Description)	Make	Safety Protection	Agency	Certificate No. & Date
1	A Type 5550 Vibration Switch	METRIX	Ex d IIB+H2 T6 Gb	IECEX	IECEX BAS 10.0020 Date 01/07/2019

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 IECEX 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 IECEX 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 IECEX Test report and is identical with the one tested and certified at IECEX 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 IECEX 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 Pushkaraj Enterprises, Pushkaraj House, Plot No 10, Kulashree Colony No.3, Pune.

Conditions of the Approval:-

The special conditions of use given in the IECEX Certificate of Conformity shall be duly addressed by the manufacturer and information shall be passed on to the end user.

This approval also covers the permissible variations as approved under the IECEX 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 **31/12/2029**

Yours faithfully,

(Kanak Singh Meena)
Dy. Controller of Explosives
For Chief Controller of Explosives
Nagpur

Copy to :

1. Ji. Chief Controller of Explosives, West Circle, MUMBAI
2. Pushkaraj Enterprises, Pushkaraj House, Plot No 10, Kulashree Colony No.3, Pune.

For Chief Controller of Explosives
Nagpur

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

This is System generated document. Signature is not required.

METRIX DOC NO: 1410548
REV: D



The following pages are the prior revisions of this certificate.



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

Approval No : A/P/HQ/MH/104/6416 (P470315)

Dated : 05/03/2020

To,

M/s. Metrix Instrument Company,
8824 Fallbrook, Houston, ,Texas
77064 Vivek.Joshi@Metrixvibration.com
U.S.A

Sub : Approval of Flame Proof Type Vibration Switch under Petroleum Rules 2002- Regarding.

Sir(s),

Please refer to your letter No. **OIN450659** dated **15/02/2020** on the subject.

The following Ex electrical equipment(s) manufactured by you according to **EN 60079-0: 2018, EN 60079-1 : 2014**, standards and covered under **SGS Baseefa Ltd** Test reports mentioned below is/are approved for use in **Zone 1** of Gas **IIB+H2** 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	A Type 5550 Vibration Switch	Ex db IIB +H2 T6	P470315/1	SGS Baseefa Ltd	Baseefa10ATEX0098/5	01/07/2019	9006-IECEX-Agency Issue D Sheet 1-13

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 SGS Baseefa Ltd 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 SGS Baseefa Ltd 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 SGS Baseefa Ltd Test report and is identical with the one tested and certified at SGS Baseefa Ltd 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 SGS Baseefa Ltd 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 M/S. Pushkaraj Enterprises, Suvidha Chambers, 1414,1B , Sadashiv Peth, Pune

Conditions of the Approval:-

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The approval for above equipment is subject to validity of production quality assurance notification Baseefa ATEX 0708.

This approval also covers the permissible variations as approved under the SGS Baseefa Ltd 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 **31/12/2024**

Yours faithfully,

(Ninad Dattaram Gawade)
Dy. Controller of Explosives
For Chief Controller of Explosives
Nagpur

Copy to :

1. Jt. Chief Controller of Explosives, West Circle, MUMBAI
2. M/S. Pushkaraj Enterprises,Suvidha Chambers, 1414,1B , Sadashiv Peth, Pune

for Chief Controller of Explosives
Nagpur

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

Note:- Please submit the revalidation application one month before the date of Expiry of approval otherwise approval will be treated as cancelled and a fresh application for approval will be considered for the approval.



The following pages are the prior revisions of this certificate.

तार "विस्फोटक", नागपुर
Telegram: 'EXPLOSIVES', Nagpur
Website : http://peso.gov.in
Email: explosives@explosives.gov.in
दूरभाष/ Telephone : 0712-2510248
फैक्स/ FAX : 2510577

कार्यालयील उदेश्य के सभी पत्रादि "मुख्य विस्फोटक नियंत्रक" के पदनाम से भेजे जाएं, उनके व्यक्तिगत नाम से नहीं।

All communications intended for this Office should be addressed to the 'Chief Controller of Explosives' and NOT to him by name.



भारत सरकार

Government of India

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन
Petroleum and Explosives Safety Organisation

(पूर्व नाम-विस्फोटक विभाग)

(Formerly- Department of Explosives)

"ए" ब्लॉक, पाँचवा तल, केन्द्रिय कार्यालय परिसर

"A" Block, 5th Floor, CGO Complex,

सेमीनरि हिल्स, नागपुर- 440006(महाराष्ट्र)

Seminary Hills, Nagpur- 440006

संख्या/ No. A/P/HQ/MH/104/3834(P349813)

नागपुर, दिनांक/ Nagpur, dated.05/08/2016

ADDENDUM

11 0 AUG 2016

Sub:- Approval of a type 5550 Vibration Switch under Petroleum Rules, 2002.

This has the reference to the approval No. A/P/HQ/MH/104/3834(P349813) dated 15/01/2015 approved by this office under Petroleum Rules, 2002 and their subsequent letter No. AS/Metrix/5550/CCOE/01; dated 15/06/2016, the addendum issued for the following points –

The description of the approval of Flameproof electrical equipment approved under Zone 1 for Gas Gr. IIB vide this office letter of even number dated 15/01/2015 may include as under:-

Description	Safety Protection	CCEs Identification Number	Test House	Test Report No.	Drawing Numbers
A type 5550 Vibration Switch	Ex d IIB T6 / Ex d IIB + H ₂ T6 Gb	P349813/1	M/s. Baseefa	Baseefa10 ATEX 0098 Dt. 06/08/2010 and Baseefa 10 ATEX 0098/4 Dt. 24/03/2014	As per test report.

The other terms & conditions already mentioned in this office approval letter no. A/P/HQ/MH/104/3834(P349813) dated 15/01/2015 remain unchanged.

(Dr. Yogesh Khare)

Dy. Chief Controller of Explosives
For Chief Controller of Explosives

To,

- 1) M/s. Pushkaraj Enterprises, Suvidha Chambers 1414 B Sadashiv Peth, Pune Vidyarthi Griha Road, Pune -411030.

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REV: B



GOVERNMENT OF INDIA
MINISTRY OF COMMERCE & INDUSTRY
PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO)
(Formerly Department of Explosives)
CGO COMPLEX SEMINARY HILLS
NAGPUR 440006



Letter No: A/P/HQ/MH/104/3834(P349813)
Email :explosives@explosives.gov.in
Phone/Fax No.2510248/2510577
Dated : 15/1/2015

To
M/s. Metrix Instrument Company,
8824 Fallbrook drive
Houston,
Texas 77064 USA

20 JAN 2015

Sub:Approval of a type 5550 Vibration Switch under Petroleum Rules, 2002

Dear Sir(s),

Please refer to letter No Nil dated 23/12/2014 from M/s. Pushkaraj Enterprises,Pune on the above subject.

The following Flame Proof equipment(s) manufactured by you according to EN 60079-0 : 2009 & EN 60079-1 : 2007 standards and covered under M/s. Baseefa, Test reports mentioned below is approved for use in **Zone 1** of Gas Group IIB hazardous areas coming under the purview of the Petroleum Rules, 2002 administered by this Organization.

Sr.No	Description	Safety Protection	CCEs Identification Number	Test House	Test Report No.	Drawing Numbers
1	A type 5550 Vibration Switch	Ex d IIB T6	P349813/1	M/s. Baseefa,	Baseefa10ATEX0098 Dt.06/08/2010	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 M/s. Baseefa, 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 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 M/s. Baseefa, applicable to the equipment
 - (d) CCEs Identification Number of this letter by which use of the apparatus is approved
- 4). A certificate to the effect that the equipment has been manufactured strictly in accordance with the drawing referred to in the M/s. Baseefa, test report and is identical with the one tested and certified at M/s. Baseefa, shall be furnished with each equipment
- 5). The customer shall be supplied the copy of this letter, an extract of the conditions and maintenance schedule, if any recommended by M/s. Baseefa, in their test reports and copy of

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instructions booklet detailing operation and maintenance of the equipment so as to maintain its Flame Proof safety characteristics


- 6). The After sales service and maintenance of subject equipment shall be looked after by your representative M/s. Pushkaraj Enterprises, Suvridha Chambers 1414 1 B Sadashi Peth, Pune Vidyarathi Griha Road,, Pune Maharashtra (State)

This Approval also covers the permissible variation as approved under the M/s. Baseefa, test report referred above .This approval may be deemed to have been revoked with immediate effect at any time, if any of the conditions subject to which approval has been granted 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 at regular intervals.

This approval is otherwise valid a period of five years from the date of issue.

Yours faithfully,


(Dr. Yogesh khare)
Controller of Explosives
for Chief Controller of Explosives
Nagpur

Copy to :

1. The Jt. Chief Controller of Explosives, West Circle, Mumbai;
2. M/s. Pushkaraj Enterprises, Suvridha Chambers 1414 1 B Sadashi Peth, Pune Vidyarathi Griha Road,, Pune (Maharashtra)


for Chief Controller of Explosives



The following pages are the prior revisions of this certificate.



GOVERNMENT OF INDIA
MINISTRY OF COMMERCE & INDUSTRY
PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO)
(Formerly Department of Explosives)
CGO COMPLEX SEMINARY HILLS
NAGPUR 440006



Letter No: A/P/IIQ/MH/104/3834(P349813)
Email :explosives@explosives.gov.in
Phone/Fax No.2510248/2510577
Dated : 15/1/2015

To
M/s. Metrix Instrument Company,
8824 Fallbrook drive
Houston,
Texas 77064 USA

20 JAN 2015

Sub:Approval of a type 5550 Vibration Switch under Petroleum Rules, 2002

Dear Sir(s),

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Sr.No	Description	Safety Protection	CCEs Identification Number	Test House	Test Report No.	Drawing Numbers
1	A type 5550 Vibration Switch	Ex d IIB T6	P349813/1	M/s. Baseefa,	Baseefa10ATEX0098 Dt.06/08/2010	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 M/s. Baseefa, 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 to the main structure to indicate conspicuously
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 - (c) Number & Date of the test Report of the M/s. Baseefa, applicable to the equipment
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- 5). The customer shall be supplied the copy of this letter, an extract of the conditions and maintenance schedule, if any recommended by M/s. Baseefa, in their test reports and copy of

METRIX DOC NO: 1410548
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instructions booklet detailing operation and maintenance of the equipment so as to maintain its Flame Proof safety characteristics


- 6). The After sales service and maintenance of subject equipment shall be looked after by your representative M/s. Pushkaraj Enterprises, Suvridha Chambers 1414 1 B Sadashi Peth, Pune Vidyarathi Griha Road,,Pune Maharashtra (State)

This Approval also covers the permissible variation as approved under the M/s. Baseefa, test report referred above .This approval may be deemed to have been revoked with immediate effect at any time, if any of the conditions subject to which approval has been granted 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.

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This approval is otherwise valid a period of five years from the date of issue.

Yours faithfully,


(Dr. Yogesh khare)
Controller of Explosives
for Chief Controller of Explosives
Nagpur

Copy to :

- 1.The Jt. Chief Controller of Explosives, West Circle, Mumbai;
- 2.M/s. Pushkaraj Enterprises, Suvridha Chambers 1414 1 B Sadashi Peth, Pune Vidyarathi Griha Road,,Pune (Maharashtra)


for Chief Controller of Explosives