



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX KLCS 24.0004X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2024-11-25  
Applicant: **Roop Ultrasonix Ltd.**  
E-133/136, GIDC, Electronic Zone, Sector - 26  
Gandhinagar - 382044, Gujarat, India  
Gandhinagar 382044  
**India**  
Equipment: **Sieving Converter SC-35, Model : SC-35-Ex**  
Optional accessory:  
Type of Protection: **Flameproof enclosures "d" & Protection by enclosure "t"**  
Marking: Ex db IIC T6 Gb (-20°C ≤ Ta ≤ +60°C)  
Ex ta IIIC T<sub>200</sub>100°C Da IP66 / IP67 (-20°C ≤ Ta ≤ +60°C)

Approved for issue on behalf of the IECEx  
Certification Body:

**Vikram Paranjpe**

Position:

**Dy. Director (Operations)**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**Karandikar Laboratories Certification Services**  
Gat No. 142, Boisar Chillar Rd.,  
Opp. Union Park, At Betegaon,  
Boisar (E), Tal- Palghar  
Maharashtra 401501  
**India**





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Manufacturer: **Roop Ultrasonix Ltd.**  
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Gandhinagar - 382044 , Gujarat, India  
Gandhinagar 382044  
**India**

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[IN/KLCS/ExTR24.0004/00](#)

Quality Assessment Report:

[IN/KLCS/QAR24.0002/00](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Sieving converter SC-35-Ex converts the electrical energy generated by sieving generator (Certified vide : IECEX KLCS 24.0005X), into mechanical vibrations. The whole sieve surface becomes an active ultrasonic sieve. The required ultrasonic energy is delivered from the sieving generator.

The converter consists of converter casing and a converter cap. The converter cap is threaded to the converter casing and grub screw is used for securing the threaded joint. A flame retardant cable of 3m from the sieving generator is connected to the converter via a pre-certified cable gland.

List of pre-certified devices:

The equipment is provided with following pre-certified devices:

Item	Certificate number	Code and temperature range	Standards
Cable gland, HSK-M-PVDF-Ex-d Model : 1.634.2000.50	IECEX KEM 07.0013X	Ex db IIC Gb Ex ta IIIC Da Service temperature range : -20°C to +130°C	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-31:2022

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- The Sieving converter SC-35-Ex is always to be used with the Sieving generator, Model : ES-35-200-Ex certified via (Certified vide : IECEX KLCS 24.0005X).
  - The manufacturer has maintained more number of threads for engagement between casing and cover than required by the standard. User must ensure full thread engagement at all times and grub screw is fully tightened. The user must refer to manufacturer before carrying out any repairs or refurbishment to the equipment.
  - The fuse used for over-current protection must have an electrical rating of 0.8A, 260mV and should conform to IEC 60127 series.
  - For pre-certified device, Cable gland, 634.2000.50 , IECEX KEM 07.0013X Issue no. 5
- Cable gland HSK-M-PVDF-Ex-d, Model : 1.634.2000.50 is tested with a reduced tensile force (25%) in accordance with clause A.3.1 of IEC 60079-0 and may only be used for fixed installation of Group II apparatus. The user shall ensure adequate clamping of the cable.