

## **CALL FOR EXPRESSIONS OF INTEREST FOR UV DISINFECTANT RETROFIT SYSTEM FOR HVAC DUCTS**

CSIR-CSIO has developed UV disinfectant system for HVAC ducts which has wide applications for disinfecting mechanically ventilated indoor spaces with a view to prevent the spread of Covid-19 like viruses, fungi, mold, bacteria etc. The retrofit UV-C system is designed to fit into any existing air-ducts / AHU with very minimal modifications. The UV-C intensities are optimized according to the existing spaces after considering the air flow rates, shape and size of the air duct and the required viricidal dosage is obtained within the air ducts. The virus is deactivated in any aerosol particles or freely floating virus/bacteria in air and at the surfaces of the air ducts by the calibrated levels of UVC light.

CSIR-CSIO desires to shortlist manufacturers in different regions of the country for fabrication, installation, and deployment of these units in mass in the overall country. Expression of Interest (EoI) is invited from parties willing to manufacture, implement and install under the license of CSIR-CSIO.

The UV disinfectant system units have to be fabricated strictly as per the CSIR-CSIO's design input which will be provided to the selected parties after signing Non-Disclosure Agreement (NDA). The selected parties will be required to undergo quality checks and production capability certification by CSIR-CSIO and staff of one or more designated service partners of CSIR-CSIO, who shall also provide training, and shall be the standardization partner of CSIR-CSIO for interested parties.

The lead time for delivery of units should not exceed 1 week and the company should have the capability to deliver at least 100 numbers per day.

### **SCOPE OF WORK:**

- Inspection of HVAC system, AHU & air-duct system at site.
- Design & engineering of the complete system as per the design provided by CSIR - CSIO.
- Value addition in the developed system, if any.
- The evaluation/test report as per the approved Acceptance Test Plan (ATP).
- The ducts as per the drawings, Bill of Materials (BOM) & ATP.
- The UV lamps as per the BOM, ATP and approved design.

- Sensors, PCB, Driver cct as per the BOM, ATP and approved design.
- Electrical wiring, cabling, switching as per the BOM, ATP and approved design.
- Mechanical mechanisms as per the approved design.
- Sealing of the system with items as per the BOM, ATP and approved design.
- Optional items & accessories as per the full functionality of the items.
- Operation & Instruction manual with all drawings, test certificates,
- Catalogues etc.
- Integration, Installation and performance test of the equipment at site.
- Periodic maintenance & Servicing of the system.

Interested parties may provide the following information in response to this EOI:

- Audited balance sheet of three immediate past preceding years', including profit and loss account and the Annual Report.
- Reference list of similar engineering supplies of fabrication and services during the past two /three years.
- Details of the fabrication facilities available including area and tooling list along with a short video or photographs.
- List of quality certifications / accreditations that are currently valid, with copies of such certificates.
- A notarized Affidavit confirming that the party has not been banned or blacklisted at any time for supplies to government agencies.

**Interested parties are requested to apply with all the required documents through email to [head.bdpm@csio.res.in](mailto:head.bdpm@csio.res.in) latest by April 29, 2021.**