

CALL FOR EXPRESSIONS OF INTEREST

CSIR-Indian Institute of Petroleum (CSIR-IIP) has developed a Pressure Swing Adsorption (PVSA) based technology for medical grade oxygen generation (PVSA-MO2) using ambient air as input meeting oxygen purity as per Indian Pharmacopeia specification ($93\pm 3\%$ O₂). CSIR-IIP is seeking fabricator Firms in different zones of India who can fabricate, supply, install and commission the PVSA-MO2 system (500 LPM MO2 throughput) at different designated hospitals across India. The details of the hospital sites shall be intimated later.

Expression of Interest (EOI) is hereby invited from prospective firms willing to fabricate, install and commission **minimum 5 nos.** of these 500 LPM Medical Oxygen Generation plants by **31 July 2021** and thereafter up to 10 nos. of these plants each month as per the design inputs provided CSIR-IIP at designated hospital sites.

The units have to be made strictly as per CSIR-IIP's design inputs which will be provided to the selected firms after signing a non-disclosure agreement. The selected firms may be required to undergo quality checks and production capability certification with one or more designated service partners of CSIR-IIP, who shall also be the training and standardization partner of CSIR-IIP for interested parties.

Interested firms must provide the following information in response to this EOI:

1. Three immediate past preceding years' audited balance sheet, profit and loss account and Annual Report
2. Reference list of similar engineering supplies fabricated
3. Details of fabrication facilities including area and tooling list along with a short video or photographs
4. List of quality certifications / accreditations that are currently valid, with copies of such certificates
5. Commitment of delivering minimum 5 such plants till July 2021
6. Commitment for a lead time for fabrication/Factory Acceptance Test (FAT)/ Dispatch should be maximum four weeks from the date of purchase order
7. A duly signed undertaking on official letterhead of the firm (**as per Annexure A enclosed**) that the firm has not been banned or blacklisted at any time for supplies to government or similar agencies.

SCOPE OF SUPPLIES:

- Design & engineering of the complete PVSA skid system especially for medical oxygen generation and rapid deployment at hospitals based on the existing 500 LPM design to be provided by CSIR-IIP
- One No. Screw Compressor for ambient air complete with electric motor and accessories & filtration system
- One No. refrigerated type dryer (separate or built-in with screw compressor)
- One No. Air Receiver with Auto Drain Trap
- One No. Activated Carbon Filter filled with first fill of Activated Carbon of quality specified by CSIR-IIP
- Packaged PVSA unit filled with Activated Alumina and Molecular sieves (as per CSIR-IIP provided spec.) along with PLC, automatic changeover valves and interconnecting piping etc.
- One no. Oxygen Surge vessel
- Sterile (bacteria) filter at the outlet

- Electrical Power & Control Panel with PLC & HMI
- Vacuum pump with its motor accessories, vacuum vessel & interconnecting valves
- All inter connecting piping & fitting
- All instruments as per flow diagram to be provided
- On line oxygen analyzer with electro-chemical sensor & safety interlocks
- All cabling within the battery limit
- Certification of the plant by a NABCB accredited Third Party Inspection Agency such as Intertek/TUV/Equivalent
- Operation & Instruction manual with all drawings, test certificates, catalogues etc.
- Gas Storage Tank (3 M3)
- SCADA System with remote information and operational capability
- Automatic Changeover valve to Gas Manifold
- Erection / commissioning, performance test of the equipment at site

For and on behalf of CSIR

A handwritten signature in black ink, consisting of a stylized, cursive script that is difficult to decipher but appears to be a personal name.

(Controller of Stores & Purchase)

DECLARATION REGARDING BLACKLISTING / NON-BLACKLISTING

(To be executed on Official Letter Head of the Firm)

I/We Proprietor / Partner(s)/Director(s) of M/s _____
_____ hereby declare that the firm/company namely
M/s _____ has not been
blacklisted or debarred in the past by any other Government Organization from taking part
in Government tenders.

Or

I/We Proprietor / Partner(s)/Director(s) of M/s _____
_____ hereby declare that the firm/company namely
M/s _____ was blacklisted or
debarred in the past by _____ (Name of the Government Organization) from
taking part in Government tenders for a period of _____ years w.e.f _____. The Period
is over on _____ and now the firm/company is entitled to take part in
Government tenders.

In case the above information is found false I/We are fully aware that the tender/contract
will be rejected/cancelled by Director, CSIR-IIP, Dehradun.

In addition to the above Director-CSIR-IIP, Dehradun will not be responsible to pay the bills
for any completed / partially completed works.

Signature _____

Name _____

Capacity in which as signed _____

Name & address of the firm _____

(Seal of the firm)

Date:

Signature of Authorised Signatory