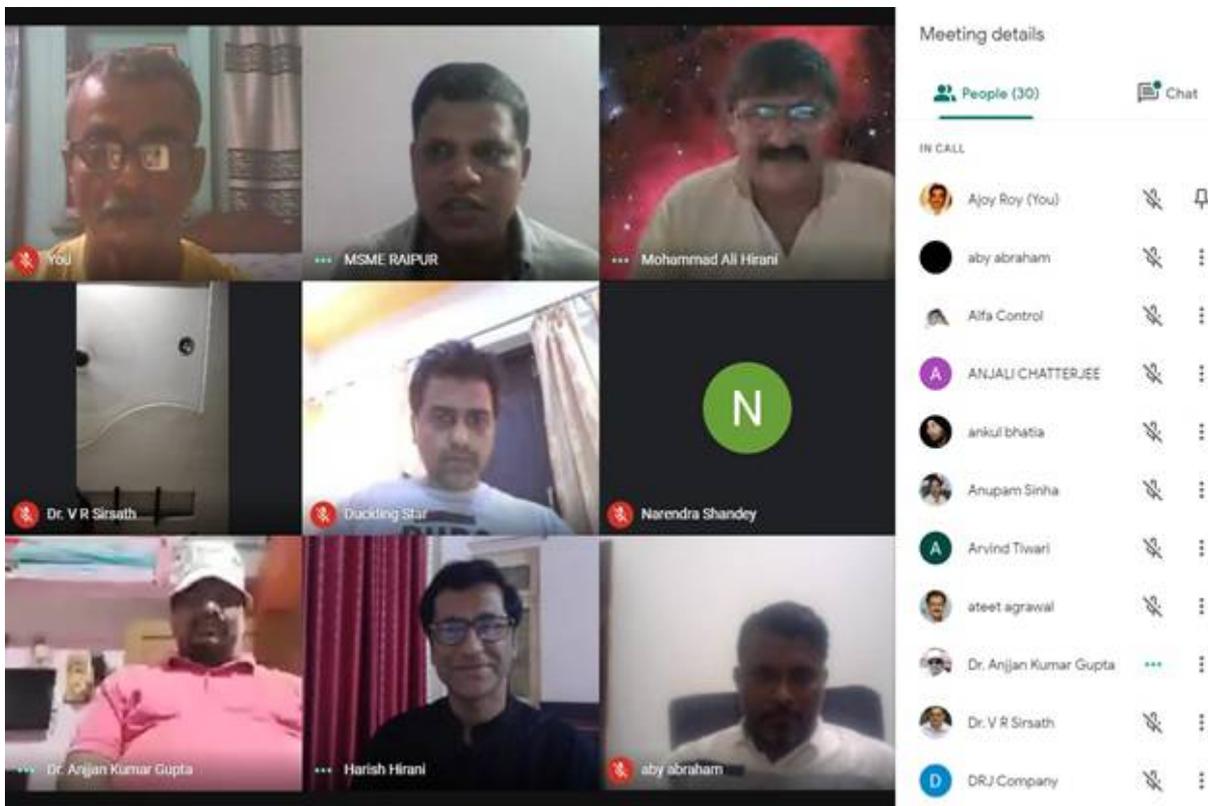


CSIR-CMERI indigenously developed Oxygen enrichment technology may effective for treating COVID-19 patients: Dr. V R Sirsath

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CSIR-CMERI, Durgapur, in association with **MSME-DI**, Raipur, Chhattisgarh, Government of India jointly organised a Webinar on 'Oxygen Enrichment' Technology on 25th April, 2021.



Dr. V R Sirsath, Jt. Director & HOO, MSME DI Raipur in his welcome address stated the entire nation is undergoing an unprecedented pandemic situation of COVID-19 & is running out of medical grade oxygen. The CSIR-CMERI indigenously developed Oxygen enrichment technology may effective for treating COVID-19 patients. This Technology has tremendous potential. He urged all the participant industries/Entrepreneurs to come forward in this crucial juncture & manufacture the device at earliest.

Anupam Sinha is presenting

Oxygen Enrichment Unit (OEU): Specifications

Modular configuration:

- It has two distinct modules, one for the Oxygen Enrichment unit at the top and another for the air compressor unit at the bottom.
- The enrichment module can independently work if compressed air at 2.5 Bar is supplied to it

Delivery Pressure	35 – 55 KPa (Configurable)
Working Temperature	Up to 40°C
Working Humidity	Up to 65% (Standard)



Fig: Standalone System

CSIR-Central Mechanical Engineering Research Institute

Meeting details

People (34) Chat

IN CALL

- Ajoy Roy (You)
- aby abraham
- Alfa Control
- ANJALI CHATTERJEE
- ankul bhatia
- Anupam Sinha
- Anupam Sinha Presentation
- Aryvind Tiwari
- ateet agrawal
- Devesh Marodia
- Dr. Anjan Kumar Gupta

Participants in the video call: You, MSME RAIPUR, Anupam Sinha, Harish Hirani, DRJ Company, Mohammad Ali Hir..., Alfa Control, Saining Gupta, aby.abraham

Prof. (Dr.) Harish Hirani, Director, CSIR-CMERI during his address stated that CSIR-CMERI developed an Oxygen enrichment unit requiring easily available oil free reciprocating compressor, Oxygen grade zeolite sieves and pneumatic components. This unit can safely be placed in the isolation ward of the hospital for patients who are in dire need of Oxygen. He also added that CSIR-CMERI will be providing manufacturing guidance to the technology transferees as well as provide information on raw materials sourcing.

Dr. Anupam Sinha, Sr. Principal Scientist, CSIR-CMERI, Durgapur presented the technical note on the Oxygen enrichment unit, which has been transferred to two industries. The unit is capable of delivering medical air in the range of up to 15 LPM with oxygen purity of more than 90%. If required, this unit can even deliver up to 70 LPM at a purity of around 30%.

President, Industry association, Raipur along with several others from the industry and entrepreneurs participated in the webinar and interacted with the speakers on the subject. A good number of industries have shown their interest in CSIR-CMERI developed Oxygen Enrichment technology & expressed their willingness to start the manufacturing with the cooperation of CSIR-CMERI.

CSIR-Central Mechanical Engineering Research Institute, Durgapur is a premier Mechanical Engineering Research Institute of the country under Ministry of Science & Technology, Govt. of India. CSIR-CMERI has already invited Expression of Interest (EOI) from Indian Companies / Manufacturing agencies/ MSMEs / Start ups for manufacturing Oxygen Enrichment Units through Technology Transfer.

RP/ (CSIR-CMERI, Durgapur)

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