Ministry of External Affairs
NEST Division

Vanessa Capsule – New Technology for treatment of COVID-19 patients

The consulate general of India in Sao Paulo, Brazil has shared information about a modified ventilator called Vanessa Capsule to NEST division. We have gone through the information and researched the benefits of the device in Indian context. Once we deemed the product beneficial, we shared the brief about Vanessa Capsule to various Science and Technology departments, health department and to the Office of the PSA. Additionally the information was also shared with stakeholders in the State governments of India.

Vanessa Capsule is a new ventilation device for COVID-19 patients, developed and tested by Samel Hospital Group in Brazil, and used in neighboring countries like Bolivia and Colombia. The key features of the Vanessa Capsule are:

- It is transparent vinyl sheet box covering the upper portion of the body and the main function is to provide bilevel positive airway pressure (BiPAP) to the patient.
- It is a non-invasive ventilator along with a use of an Oxygen mask.
- The other advantage is it does not contaminate the air within the hospital and ICU wards where there is constant movement of doctors and health care workers.
- The capsule comes with an exhaust system that has filters which captures the aerosol particles along with bacterial and viral contaminants released by the patient.
- The capsule has a very convenient setup making it easy to install, dismantle and move the unit.
- Attached is a photograph for reference.

In a reply to our email, Dr. Arabinda Mitra, Science Secretary, Office of the PSA has informed us Via Dr. J.K Sharma (MD & CEO, AMTZ Ltd.), that Ventilators like Vanessa Capsule are being manufactured at Andhra Med Tech Zone Ltd.

Visakhapatnam. The information received from the Office of PSA was immediately relayed to the Science and health ministries in Delhi and to the State governments.

Annexure

Vanessa Capsule- a modified noninvasive ventilator to treat COVID-19 Patients.