

TO WHOMSOEVER IT MAY CONCERN

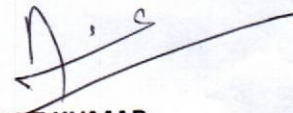
This is to certify that the prototype of the mechanical ventilator developed by CSIR-CMERI has been tested in our hospital with a test lung by a team comprising of Dr. Amit Kumar

During the testing of the mechanical ventilator, the following have been observed :

1. The GUI has provision for input of Tidal Volume , Respiratory Rate, I:E ratio, PIP and PEEP.
2. The GUI displays pressure, flow and volume graphs with respect to time.
3. User can change the values in real time even when the ventilator is running.
4. The system never allows the PIP to reach beyond the set value ,a relief valve releases the pressure .
5. The system maintains the set PEEP during exhalation.
6. The system has warning signals through buzzer for any system malfunction(like pipe disconnection, chocking etc.).
7. The system is Volume Control based and can sense patient breathing effort.

In our opinion, the system is suitable for emergency departments, during transport and field management and in critical care units. This can serve the purpose for patients who need controlled mechanical ventilation.

OPINION:- Overall equipment is well enough to serve hospital and community must add centre pipe line oxygen supply it will overall improve the system.



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