

For consideration under COVID -19 Initiatives by NITs

Title: Protection equipment and low cost ventilator

Category:

OUTCOME/ABSTRACT/DESCRIPTION:

Problem Statement

Design and/or development of affordable and simple personal protection equipment (masks, surgical coverings, face shield) and low-cost ventilators.

Abstract

Design and development of simple and affordable Personal protection equipment such as (masks, surgical coverings, face shield) and low-cost ventilators is really important to fight against this COVID-19 pandemic . The main cause of the viral spread is due to lack of personal protection , awareness and availability of personal protection equipment.

One in six COVID-19 patients becomes seriously ill and has difficulty breathing, according to the World Health Organization. That's because lungs are the main battleground in COVID-19 infections, which can cripple breathing functions. So In the coronavirus pandemic, ventilators, the medical devices that help patients breathe are needed to battle the current situation.

We are intending to develop protection equipment as prescribed by the Indian council of medical Research , Design a low cost ventilator and looking for replacement of existing parts with low cost ones

Expected Time-line: 3 Months

Remarks: Funding requirement -Rs. 2 Lakh

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