Siemens Centre of Excellence in Manufacturing National Institute of Technology, Tiruchirappalli

3D printed Face shield and Re-usable Face mask to protect against COVID-19

The face shield was 3D printed using the FDM 3D printer available in the Rapid Prototyping Lab of Siemens CoE, NIT Trichy. The technical details and part file generation was done in collaboration with Mister Bot Education, Tiruchirappalli (an Organization under MoU with Siemens CoE).

3D printed Face shield

Model 1: Face Shield printed in small 3D printer PLA Materials used: **Estimated Cost** Rs. 75/shield 100/day Capacity Materials used: PLA **Estimated Cost** Rs. 90/shield

Re-usable face mask

Face Mask printed in Stratasys F270







Materials used:	ABS (Model), QSR (Support), PLA
Respirator protection	Not included
Cost	Rs. 300/mask
Capacity	50/day



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