

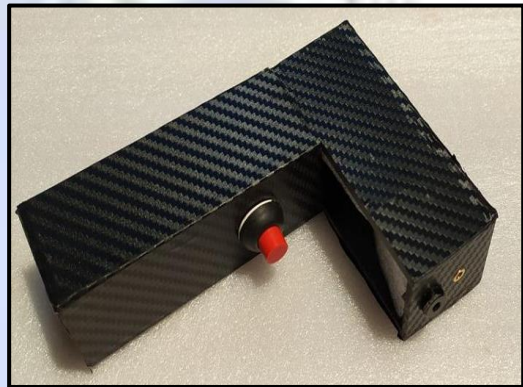
INNOVATION BY *INDIAN NAVY* TOWARDS COVID-19

1. Certain in-house initiative/ innovation pursued by the Indian Navy, with an aim to contribute to the ongoing efforts toward COVID-19, which could be useful for the IONS nations is being shared for information.

Handheld Temperature Measuring IR Gun

2. **Item/Purpose.** Handheld IR based temp sensor with accuracy of 0.02°C.

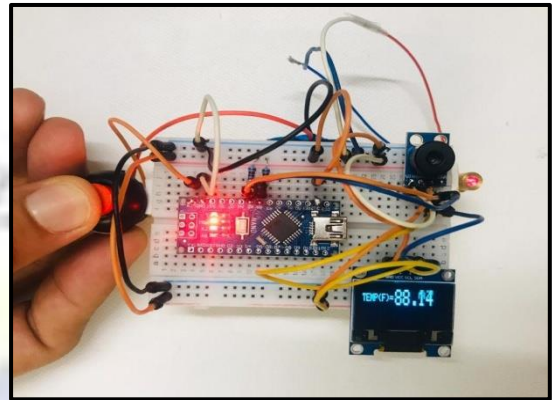
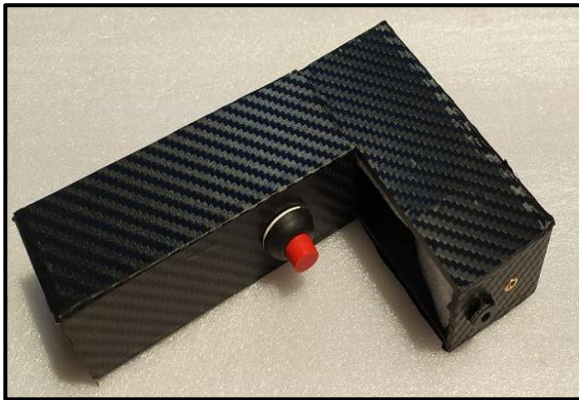
3. **Impact.** Cost effective, hand-held, manufactured at cost less than INR 1000/piece.



4. **Details.**

(a) Since the outbreak of COVID 19, the non-contact thermometers or temperature guns have become scarce in the market and are being sold at a very high cost. To overcome the scarcity and meet the requirement of large numbers of such equipment, Indian Navy has designed and developed its own handheld IR based temperature sensor with accuracy of 0.02 deg Celsius. The non-contact thermometer has an Infrared Sensor and an LED display integrated with a microcontroller which runs on a 9V battery. This initiative has provided a tool for undertaking screening of large number of personnel at the entry gates of the Naval

Dockyards, thereby reducing the load on the security sentries at the gate.



(b) The instrument has been manufactured under INR 1000/-, through in-house resources. The Indian dockyard has the capability to scale up production of these guns, if required.



5. The handheld temperature measuring IR Gun, as described above, can be manufactured at any Ship Maintenance Facility or Repair Yard. If required by any IONS nation, drawing could be provided by Indian Navy. Indian Navy could be contacted via email acnsfci@navy.gov.in or through promulgated IONS POC.

