GOVERNMENT OF INDIA  
BHABHA ATOMIC RESEARCH CENTRE  
RADIATION SAFETY SYSTEMS DIVISION

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Ref: BARC/EMAD/2019/W0/201781  
October 29, 2019

INVITATION OF QUOTATION  
for  
Fabrication of Mechanical Housing for EGSS

Quotations are invited for fabrication and supply of Mechanical Housing for EGSS as per specifications given in Annexure-B:

Total Quantity Required: 10 Nos.

Your quotation in sealed cover, super-scribed with “Quotation for Fabrication of Mechanical Housing for EGSS”, should be sent to the following address by Registered Post or Speed Post only:

Pratip Mitra  
EMAD, BARC, Trombay  
Mumbai 400085

Your quotation, signed by authorized signatory with official seal of the firm, should reach the above-mentioned address by Nov 22, 2019 up to 14.00 hrs.

Note: This fabrication shall attract concessional rates of GST (5%) as notified by the Government of India. Exemption Certificate, for this effect, will be issued before delivery of the item.

To,  
Selected Parties

Encl.: aa
Annexure B

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Specification for Fabrication of Mechanical Housing for EGSS

A photograph of the prototype unit of EGSS is shown in Fig. 1 for reference.

![Figure 1: Photograph of EGSS](image)

The unit has the following sections:
1. **Top Chamber or Dome** for housing of detectors and electronic PCBs. This portion to be made up of 3 mm thick aluminium and powder coated with approved colors (both inside and outside). OD of the cylindrical portion to be 160 mm and total height to be 680 mm (including upper curved and lower conical portions). OD of the bottom of the lower conical portion to be 330 mm. The bottom of the conical portion to make an angle of 48 degrees with the horizontal.
2. **Bottom Chamber or Base** for housing of battery and charge controller. This portion to be made up of 3 mm thick aluminium and powder coated with approved colors (both inside and outside). OD of the cylindrical portion to be 275 mm and total height to be 240 mm. The bottom square plate (350 mm x 350 mm) to be made up of 12 mm thick aluminium and powder coated with approved colors. OD of the top circular portion to be 330 mm.
3. **Arm** for mounting of solar panel. This is to be fitted with the Base, made up with aluminium square pipe, and capable of holding a solar panel (to be supplied by the indenter) with dimensions 75 mm x 65 mm, weighing 7 kg.
4. **Frame** for solar panel. This is to be made up of aluminium plates for supporting of the solar panel with the arm.
5. **Fitting arrangements** for detectors, PCBs, batteries, charge controller. These are frames to be made up with aluminium and mounted inside the housing for holding the components, to be given by the indenter.

The entire housing needs to be waterproof. Conducting rubber gaskets to be fitted between the Dome and Base. Initially, one unit needs to be made for approval/minor modifications. Upon final approval, remaining units will be fabricated. The undersigned may be contacted for any more clarification regarding the design.

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