



INDIAN AIR FORCE

BRIEF AND QUESTIONNAIRE ON MAKE PROJECT ON-BOARD CYBER DEFENCE SYSTEM FOR SATELLITES

1. **Proposal.** The existing satellites have limited capabilities to withstand sustained EW or Cyber-attacks. With space being increasingly contested, it is matter of time that space assets become more prone to EW and Cyber-attacks by adversaries in a hostile climate. It is proposed to indigenously, design, develop and manufacture Onboard Cyber Defence System for Satellites through Indian vendors within the provisions of Make – II procedure of DAP 2020.

2. **Brief.**

(a) There is a need to identify vulnerabilities in the current satellites and to develop EW and Cyber suites that overcome these vulnerabilities.

(b) Such suites will have to be incorporated in future satellites to make them EW and Cyber hardened. Therefore, it is proposed to develop EW and Cyber hardening suites for incorporation in LEO and GEO satellites.

3. **Broad Timelines.** Industry may propose the prototype development timeline for the case in their response. Other estimated timelines are as follow:-

(a)	Time period for response from industry	31 Jan 23
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4. **Sponsor Dte.** The contact details of sponsor dte is as follows. The sponsor dte may be contacted between 0930h to 1700h on all working days (Mon to Fri) for any additional information.

Directorate of Ops (Space)
Room No. 592/B, Air HQ (VB)
Rafi Marg, New Delhi – 110 106
Email – dspace574@iaf.nic.in
Tele – (011) 23014729

5. **Format of Response.** Indian vendors (term to include, public limited company, private limited company, partnership firms, limited liability partnership, one person company, sole proprietorship registered as per applicable Indian laws) desirous of participating in the case may submit their proposal along with duly completed questionnaire (as per format placed at **Appendix A**) through letter, fax or email to **sponsoring dte**. Copy of the response may also be forwarded to: -

A copy of all communication should also be addressed to: -

Email: aero.design@gov.in and makeind.af@gov.in

QUESTIONNAIRE FOR RESPONSE
ON-BOARD CYBER DEFENCE SYSTEM FOR SATELLITES

1. Whether the company/Association of Persons (AoP) is eligible as per provisions of DAP 2020 (Eligibility of Participation: Indian vendors only).
2. Vendor to provide an assessment of its capability (Financial and Technical)? Provide necessary documentation for verification.
3. Indicate how much Indigenous Content (IC) can be ensured? (Minimum requirement of MoD is 50%).
4. Does the vendor envisage feasibility of future export orders to foreign countries?
5. Please indicate if the proposal would be eligible for Make-II subcategory of Chapter III of DAP 2020?
6. Whether R&D or ToT through foreign collaboration is proposed by the vendor? (Provide indicative information)
7. Provide details of following: -
 - (a) Cost of design and development of equipment.
 - (b) Cost of Procurement of one complete system.
 - (c) Estimated Time period required for design and development of the equipment.
8. Please provide details of resources/capability of the firm to undertake indigenous design, development and testing.
9. Rough Order of Magnitude (ROM) Cost of manufacturing of equipment in India. Indicate Minimum Order Quantities (MOQ), if applicable.
10. Please indicate plan/status for QA qualification and certification of the equipment.
11. Please provide other relevant and applicable details. Indicative of information on parts, assembly, testing, certification, launch etc.