



INDIAN AIR FORCE

BRIEF AND QUESTIONNAIRE - MAKE PROJECT MULTI BAND NAVIGATION RECEIVER

1. **Proposal** Navigation Receivers are used in Ground based Radars, Air Defense Systems to determine the accurate position. These receivers operate on GPS/GLONASS based Satellite Navigations Systems to determine the position. In the event of Jamming or spoofing the performance of these system can be degraded. It is proposed to design and develop a Multi Band Navigation Receiver capable of working with existing systems with anti-jamming and anti-spoofing capabilities. The project will be progressed as per the Make – II procedure of Chap III, DAP 2020.

2. **Broad Requirements.** Indigenous design, development and manufacture of Multi Band Navigation Receiver with capability to work with indigenous IRNSS. The system should be able to work with existing systems.

3. **Broad Timelines.** The prototype development is expected to be completed within one year of Project Sanction Order. Other estimated timelines are as follow:-

(a)	Time period for response from industry	30 Sep 22 (Questionnaire Last Response)
(b)	Interaction with vendors and feasibility study	Eight weeks
(c)	If project found feasible, internal approvals and issue of EoI	Eight weeks (may extend)

4. **Quantity.** Qty - 25 units along with necessary accessories will be procured.

5. **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 detailed information on the project.

Dte of ASR (EW)
Air HQ (Vayu Bhawan)
New Delhi – 110106
AF Exchange: (011) 23010231 Extn: 5449
TeleFax: 011 - 23011753
Email: panther.449@gov.in

6. **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: -

Make PMU (IAF)
Room No 490 (E),
Air HQ (Vayu Bhavan)
New Delhi – 110106
Telefax: (011) 23013225
Email: makeind.iaf@gov.in

**QUESTIONNAIRE FOR RESPONSE MULTI BAND
NAVIGATION RECEIVER**

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 export orders from 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. Estimated cost of development of equipment.
8. Estimated tentative time period for completion of development of equipment.
9. Rough Order of Magnitude (ROM) Cost of equipment in India. Indicate Minimum Order Quantities (MOQ), if applicable.
10. Please indicate plan/status for QA qualification/certification of the system.
11. Please provide other relevant and applicable technical details. Indicative of information on parts, assembly, etc.