

BRIEF AND QUESTIONNAIRE ON MAKE PROJECT
WIND PROFILER

Brief Outline

1. A Wind profiler is used for detection of upper wind speed and direction. Weather forecasting is a key to safe flying operations. In order to make accurate prediction of weather around any flying base, meteorological equipment is utilised at all IAF bases.

2. It is proposed to indigenously design, develop and manufacture Wind Profiler for use at IAF bases under the Make-II procedure of DAP 2020.

3. 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 undertaking the design/development/manufacture may submit their response, as per format placed at Appendix B, through letter, fax or email to:-

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

4. Estimated time lines are as follows:-

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

5. **Brief of Equipment.** Brief of the equipment at para 2 above is attached as Appendix A.

6. **Questionnaire.** A generic format for examination of the project and response by the vendors is placed at Appendix B.

BRIEF OF EQUIPMENT

1. Name of Eqpt - Wind Profiler System

2. Brief. A Wind profiler is used for providing a vertical profile of upper winds direction and speed. With the help of wind profilers, complete atmospheric profile will be available to IAF Meteorological Section. The data obtained will be utilised to predict wind shear at airfields and is assimilated by weather prediction models to improve forecast accuracy.

3. Tentative Quantity - 67 (subject to Equipment performance)

4. **Preliminary Specifications**
 - (a) **Specifications.** System should be capable of profiling the atmosphere for wind. The vertical depth required for wind profiler is up to 3 km or more from ground level. The data should be processed at either sensor or the central processing unit located at a central IAF location.

 - (b) Accuracy of wind data should be accurate as per ICAO specifications and should be comparable with radiosonde data of the nearest location within a circumference of 100 km by an accuracy of 90% or more.

 - (c) **Accuracy of Detection.** Accuracy of wind at lower levels upto 1 km should be desirable to cater for wind shear phenomena at runway.

 - (d) **Other Desirable Features.** The Wind Profiler system is preferred to be compact, portable, low power consumption, rugged, 24x7 all weather functional, network friendly, integration supportable and upgradable with minimum maintainance.

GENERAL ASPECTS

2. Whether the company/Association of Persons (AoP) is eligible as per provisions of DAP 2020 (Eligibility of Participation: Indian vendors only).
3. Whether the vendor can provide an assessment of its capability (Financial and Technical)? If so provide the necessary documentation for verification.
4. Whether 50% or higher (specify) Indigenous Content (IC) that can be ensured?
5. Does the vendor envisage the feasibility of achieving future exports?
6. Whether the vendor's proposal would be eligible for Make-II subcategory of Chapter III of DAP 2020?
7. Whether R&D or ToT through foreign collaboration is proposed by the vendor? (Provide indicative information)
8. Estimated cost of development in case indigenous R&D is proposed.
9. Estimated tentative time period of completion of R&D or ToT.
10. Rough Cost of equipment for manufacture in India.
11. Please indicate plan/status for certification of the equipment.
12. Please provide relevant and applicable technical details. Indicative of information on weight, parts etc.