



BRIEF OF THE CASE

Case Reference: CF.No/ AIRHQ/59122/26/ACQT (MAKE) BM-I

1. **Service:** Indian Air Force
2. **Nodal Directorate:** Directorate of Projects (Su – 30 MKI)
at SHQ
3. **Name of the Case:** Design and Development of **Common Launcher for Su - 30** through private defence production industry.
4. **Case Brief.** Role equipment enable fitment of various weapons/pods on to the aircraft as per the planned mission. Presently, Su – 30 aircraft utilizes OEM supplied launchers/adapters for fitment of weapons/stores onto the aircraft. These launchers/adaptors are restricted due to weight carrying capacity of the launcher and are different for each type of weapon/stores. Frequent change of launchers is required based on mission requirements and this leads to delays in availability of aircraft for operations. There is a need to develop two versions of Common Launchers one capable of carrying various air to ground (A-G) store and other capable of air to air (A-A) missiles.
5. **Proposal.** IAF intends to partner with indigenous defence production industry to undertake design, development and manufacture of **Common Launcher for Su - 30** under the **Make – II (Industry Funded)** procedure as per Chapter III of DAP 2020.
6. **Broad Technical Parameters** of the equipment is **attached as Appendix A.** These are preliminary parameters. Detailed project specifications will be developed after industry interactions and feasibility study.
7. **Indigenous Content (IC)/ Categorisation.** Successful development under **Make – II** category would result in acquisition from successful Development Agency (DA) through the **Buy Indian (IDDM)** category with indigenous design and development and a **minimum IC of 50%.**
8. **Industry Attributes:**
 - (a) Should be an Indian entity (as per provisions of Para 20, Chapter I of DAP 2020, including additional conditions at sub paragraphs (a) and (b)). (**Essential**)

Note: A copy of DAP 2020 is available on website of Ministry of Defence.

 - (b) The Indian entity could be an AOP (Association of Persons) as per guidance in DAP 2020.
 - (c) Experience in manufacturing, maintenance, MRO (Maintenance, Repair & Overhaul) of aviation related equipment (**desirable**).



(d) Familiarity with QA processes of DGAQA and certification processes of CEMILAC (Centre for Military Airworthiness Certification) (**desirable**).

(e) Experience in design, development, manufacture and integration in mechanical and electronics industry (**Desirable**).

9. Interested **Indian** vendors may send their proposals by **31 May 2022**.

It is requested that, answers to questionnaire may also be dovetailed by the industry in their response.

Interested respondents are also urged to read the provisions of “Make-II” procedure at Chapter III of DAP 2020 as the project will be progressed as per these provisions.

10. **Contact Details.** Any queries/further details of the case may be obtained from the Nodal Dte at Air Headquarters (Vayu Bhavan). Interested Indian vendors may forward their responses through letter/fax/email to the Nodal Directorate as follows:-

Nodal Directorate

Dte of Projects (Su — 30)
Room No. 402, Air HQ (VB)
Rafi Marg, New Delhi – 110 106
Email: flanker.lgs@gov.in

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

Make PMU (AF); Room No 413; Air HQ (VB);
Telefax: 011-23013225
Email: makeind.af@gov.in

Disclaimer

This project brief is neither an agreement nor an offer by the MoD to the prospective bidders or any other person. The purpose of this brief is to provide interested vendors with information that could be useful to them in preparation and submission of their proposals related to this project. The questionnaire has been prepared to obtain initial information for screening of the vendors. Detailed questionnaire will be sent or further interactions will be held, to seek additional information for the feasibility study to assess the status of enabling technologies and capabilities of the Indian industry. The responding vendors will bear all costs associated with or relating to preparation and submission of their proposal related to this case. MoD reserves the right to amend, supplement or delete the information in this brief or questionnaire, as suited to the case. The MoD reserves the right to withdraw this project brief without assigning any reasons thereof. The issuance of this project brief and the questionnaire, or a response to the same, does not bound the MoD to shortlist/select the responding vendor for the project. The MoD reserves the right to disqualify any responding vendor, at any stage, on grounds of national security.



Appendix A
(Refers to Para 6 of Brief)

**BROAD TECHNICAL PARAMETERS OF
UNIVERSAL LAUNCHER**

1. Universal Launcher planned to be developed in two versions i.e one version for Air to Ground (A-G) store and other version for Air to Air (A-A) Missiles. Broad parameters of Universal Launcher is as follows:-

- (a) Air to Air Universal Launcher: Should be compatible with Rail guided and Catapult launched weapons (with ejector mechanism using gas generators or pyro cartridges).
- (b) Air to Ground Universal Launcher: Should be compatible to carry Air to Ground missile and guided/ unguided bombs of weight from 50 Kgs to 1500 kgs.
- (c) The mass of the launcher should not be more than 180 Kgs.
- (d) Should be able to fit on Station No 1 to 10 of Su-30MKI aircraft.
- (e) Reliable operation under all flying conditions at temperature: $\pm 60^{\circ}\text{C}$.
- (f) Supply voltages for combat launch of missile/ bombs: 27 V+2.4 -3.0 DC.
- (g) Min supply voltage for Emergency launch of missile: 18 + 0.6 V DC.
- (h) Should meet the cooling requirement of the missile for at least 10 hrs of flight operation.
- (i) The launcher should be fitted with reconfigurable attachment points to ensure that the same launcher will be able to mount on multiple platforms.
- (j) The launcher should be MIL STD 1553 and MIL STD 1760 compliant.
- (k) Should be compatible with the electrical connectors of the aircraft and weapons.
- (l) Should have both electrical and mechanical safety mechanism.
- (m) Sufficient access panels should be provided for undertaking rectification of the launchers. **Modular concept for change of LRUs of the launcher should be inbuilt.**



- (n) Initial calendar life of atleast 20 years and 1000 flight hours.
- (o) 'O' and 'I' level testers should be developed for testing of the launcher independently or with the aircraft.
- (p) The details of Air to Air and Air to Ground weapons planned to be fitted on the two versions of Universal Launchers shall be shared separately.

2. The schematic of Universal Launcher is shown below:-

