



भारत सरकार, रक्षा मंत्रालय

Government of India, Ministry of Defence

रक्षा अनुसंधान एवं विकास संगठन

Defence Research and Development Organisation

युद्धक विमान प्रणालियाँ विकास एवं

एकीकरण केंद्र

COMBAT AIRCRAFT SYSTEMS DEVELOPMENT &
INTEGRATION CENTRE

पोस्ट बॉक्स सं. 9366, सी.वी. रामन नगर, बेंगलूरु – 560093

P.B. No. 9366, C V Raman Nagar, Bengaluru – 560093

Ref No. CASDIC/PO/SU30/EoI/01

Date : 21 May 2024

**EXPRESSION OF INTEREST TO PARTICIPATE IN DESIGN, DEVELOPMENT,
EVALUATION, PRODUCTION AND MAINTENANCE OF INDIGENOUS EW SUITE FOR
SU30 MKI AIRCRAFT AS A DEVELOPMENT CUM PRODUCTION PARTNER**

1. The Centre Head CASDIC, Bangalore on behalf of the President of India, invites "Expression of Interest" from reputed Indian Private Industry Partner and DPSU for the following:

EOI REF	DESCRIPTION	DUE DATE
CASDIC/MMG/EoI-01/EW SUITE for SU30 MKI/23-24	DEVELOPMENT CUM PRODUCTION PARTNER (DcPP(s)) FOR INDIGENOUS EW SUITE OF SU30 MKI AIRCRAFT	21 June 2024

2. This EoI consists of Part-I (Technical Details) and Part-II (General Information & Instructions).

Sunita Awasthi Singh, Sc 'G'
Project Director EW System
CASDIC, DRDO

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PART - I

TECHNICAL DETAILS

INTRODUCTION

1. Expression of Interest (Eoi) from reputed Indian Public limited/Private limited companies, hence forth called as Industry Partners, registered as Indian Firms having relevant expertise for the purpose of engaging as a "Development cum Production Partner(s) (DcPP(s))" for Indigenous EW Suite of SU30 MKI Aircraft program is requested. Any Indian Company from the defence / aerospace manufacturing sector, having experience in System Engineering of complex system's product life cycle i.e. design, development, manufacturing and fabrication, Qualification, Integration, evaluation on Rig, integration on Aircraft, flight Testing, having experience of certification of systems and Maintenance may respond. The Request for Proposal (RFP) with detailed Statement of Work will be issued ONLY to the shortlisted Industry Partners qualifying the different criteria brought out in this Eoi.

2. The purpose of this Eoi is to short list the industry partners for issue of RFP for role of DcPP(s) towards design, development, evaluation, production and maintenance of Indigenous EW Suite for Su30 MKI Aircraft. The scope of work is in four phases namely Lead role/participation as integrator during Design phase, Development phase, Testing Phase, Production and Long-Term Post-delivery Support Phase. The activities envisaged during these phases, scope of work and role of DcPP(s), Evaluation Criteria, Selection Procedure for issue of RFP, Terms and Conditions, Intellectual Property (IP) rights and List of documents to be submitted etc. are further described in this document.

BACKGROUND

3. CASDIC, DRDO is developing an Indigenous EW Suite (Radar Warning Receiver and Pod Based Jammer System) for Su30 MKI aircraft with contemporary state-of-the-art technologies capable of not only serving the existing threat scenario but also competent enough to adapt to evolving threat situations. CASDIC is the nodal lab for the development of this indigenous EW Suite. Some of the sub systems are being developed by sister labs of CASDIC. Most of the critical subsystems or technologies needed for the realization of the EW suite have already been initiated by CASDIC where a supply chain is either established with Industry Partner/s or is in progress. CASDIC is currently in the process of identifying DcPP(s) for the aforesaid requirement towards the participation in development and integration of all sub systems at lab level and further integration on aircraft followed by flight evaluation. DcPP(s) may also develop these sub systems subsequently on its own during the production phase in case of any risk with DRDO proposed supply chain so as to provide timely delivery of EW Suite to IAF. DcPP(s) developed sub systems will have to be approved by CASDIC in order to ensure the Form Fit Functionality Interface requirements.

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4. Major activities during D&D phase shall include fabrication of aircraft Mod kit, Sub Systems integration of Radar Warning Receiver and Jammer Pods, system integration with simulated avionics/other onboard systems of the aircraft, functional and performance testing of EW Suite with simulated threat environment, basic performance checks for detection & identification, jamming response & effectiveness, functional performance of EW system in radiation mode to validate Effective Radiated Power, Coarse & Fine Direction Finding accuracy, participation in System qualification, certification and installation clearance activities with CEMILAC & DGAQA etc. and further flight evaluation with flight test agency.

SCOPE OF WORK (IN BRIEF)

5. SCOPE OF WORK DURING D&D PHASE

(a) DcPP(s) will utilize the established supply chain of CASDIC and sister Labs, for various subsystems of EW Suite for procurement and development activities. Also, DcPP(s) will participate in the design and development of subsystems of EW Suite, along with CASDIC, wherever supply chain is not yet established.

(b) DcPP(s) will play the lead integrator role for aforesaid EW suite, and accordingly will develop/fabricate integration Mod Kits, Signals and Power looms, RF cables etc., for the aircraft systems' integration as per the requirement.

(c) DcPP(s) shall be executing activities during sub-system/system integration, hardware-software integration, system ATP at various levels etc.

(d) Necessary test facilities such as near field and far field anechoic chamber facilities needed for the antenna test & radiation checks, vibration facilities for the integrity checks, necessary ground support and handling equipment needed for testing etc. will be provided by CASDIC during this phase.

(e) DcPP(s) will participate in design and development of 'O', 'I' & 'D' level tester for RWR and Jammer including its sub systems, System Integration Test Rig, Simulators/Emulators for lab integration, GSE & GHE etc

(f) DcPP(s) will be executing the activities associated to System Safety of Flight Test (SoFT)/ESS/QT, prerequisite for aircraft systems' integration along with CASDIC.

(g) DcPP(s) will establish a complete traceability to the procurement of raw materials, Kit of Parts, assemblies and maintain records of the same throughout the developmental life cycle of the system.

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(h) DcPP(s) will carry out the integrity checks and obtain the certification of the system during the development and Flight Evaluation phase from the certification authorities like CEMILAC and DGAQA along with CASDIC.

(i) DcPP(s) will carry out the system evaluation both for interface compatibility and requirement compliance during Ground Integration and Flight Trials carried out by the end user (i.e., Indian Air Force).

(j) DcPP(s) shall place appropriate manpower, at least 6 executives with knowledge and rich experience in RF, Hardware, Software, Firmware, Mechanical and Managerial fields so as to contribute and acquire complete system production requirements.

6. SCOPE OF WORK DURING PRODUCTION PHASE

(a) Post successful developmental flight trials in D&D phase, DcPP(s) will be the single point of contact for supplying certified production EW Suite to IAF directly with post production support.

(b) DcPP(s) will source LRUs/Sub systems/Components from the supply chain specified by DRDO. DcPP(s) will integrate sub systems, carry out ATP at Rig level, get the system certification as per standards and supply the certified EW system to the user.

(c) DcPP(s) will be responsible for establishing facilities at their place such as System Integration Test Rig, ATEs for LRUs, near and far field radiation and calibration test facilities needed for production of the EW Suite.

(d) DcPP(s) will be responsible for the establishment of 'O', 'I' and 'D' level tester/ATE, GSE/GHE and other test facilities needed for the system operation and maintenance at user bases.

(e) DcPP(s) will be responsible for carrying out necessary documentation related to production and maintenance of the EW suite. DcPP(s) will be responsible for Supply of 'O', 'I' & 'D' Level Technical documentation for the EW Suite. DcPP(s) will be responsible for Training on 'O', 'I' & 'D' Level Testers.

(f) CASDIC will extend the technical support to DcPP(s), in case required during production phase.

7. ESTIMATED QUANTITY

During D&D Phase, approx. 6 to 7 (Qty.) sets of EW Suite (ESS/ SOFT/QT Cleared) will be developed, integrated and supplied by DcPP(s) along with 1 set of TTGE. After successful flight evaluation of D&D stage, DcPP(s) will have to produce and supply minimum 25 to 30 set EW Suite per year to IAF. DcPP(s) should have the infrastructure to support such huge volume of production. MoQ for EW suite during production stage is expected to be more than 100 sets (1 set per aircraft).

8. TIME FRAME

Timeline for D&D phase is around 32 Months for manufacturing and completing the provisional approvals of all the constituents of the EW system, Integration, Testing and Acceptance at Lab level, integration on aircraft, completion of successful Flight Evaluation, delivery of TTGE and technical publications. Additional 15 to 20 months' support shall be required for other closure activities.

9. ADVANTAGES TO DcPP(s)

(a) Transfer of Technology (ToT) procedure of DRDO to DcPP is not applicable in case of DcPP model so ToT fee will not be charged from DRDO selected DcPP(s) for the specified product.

(b) Royalty charges are NIL for sale to Indian defence services and Govt. of India deptts.

(c) Directives for Project Formulation and Management (DPFM) 2021 of DRDO has incorporated the following provisions towards procurement of DRDO developed technologies and establishing the supply chain.

(i) DPFM 2021 has incorporated provision for acquisition of systems to be designed and developed by DRDO vide para 4.7 of Chapter 4. It provides inter alia that commercial Request for Proposal (RFP) for production would be issued to DcPP(s) of DRDO and these cases will not be considered as single vendor cases.

(ii) The selected industry (ies) shall perform the role of DcPP(s) of a particular System. The said industry (ies) shall carry out production of DRDO system and also provide warranty, maintenance and product support during life cycle.

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(iii) The identified DcPP(s) shall be involved in design and development, analysis, integration and testing during development phase and will be the Lead System Integrator (LSI) and the Single Point of Contact (SPoC) for the supply of the system and providing Life Cycle support during production and post-delivery support phases.

10. POST DELIVERY SUPPORT PHASE (NOT A PART OF DCPP CONTRACT- ONLY FOR INFORMATION)

(a) IAF may enter into separate contract with DcPP(s) to provide Integrated Logistic and Technical Support during its Life Cycle of 25 years. **Written Consent for the post-delivery support to be given by the Industry partner as response to this EoI for compliance.**

(b) Upon handing over of EW Suite to IAF, the DcPP(s) will be the single point of contact for EW Suite maintenance, support and upgradation in consultation with CASDIC, DRDO.

(c) The DcPP(s) will be responsible for the 'O', 'I' and 'D' level inspections/maintenance of Indigenous EW Suite for Su30 MKI Aircraft and its warranty.

(d) Conduct of initial and subsequent Training as required by IAF based on the contract signed for post development support.

(e) The DcPP(s) shall undertake to provide to the User, on terms and prices to be mutually agreed upon, such Technical Support as the User may reasonably require for the entire range of Supplies, for the complete Indigenous EW Suite for Su30 MKI Aircraft during the period of twenty-five (25) years from the Delivery Date ("Product Support Period").

(f) As part of post-delivery life cycle support, DcPP(s) shall have certified process and facility for modification/maintenance. **Towards this, DcPP(s) will give willingness certificate to provide Maintenance support, Spares & equipment support during its life cycle of 25 years.**

11. INDUSTRY PARTNER EVALUATION CRITERIA

(a) The DcPP(s) qualification criteria are categorized into four criteria namely Financial, Technical & Infrastructure, Manufacturing and Organisational & Management. The detailed criteria are enumerated at para 20, 21, 22 and 23 under each heading.

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(b) All Industry Partners interested to be a DcPP(s) are to peruse the same in detail, and enlist their self-assessment in the designated column and submit along with necessary documents for scrutiny by the DcPP selection committee, which has been constituted for this program by the competent authority.

12. INDUSTRY PARTNER SELECTION PROCEDURE FOR ISSUE OF RFP

(a) DcPP(s) can seek clarifications in writing or by e-mail / fax within 10 days from issue of Eol (21 May 2024).

(b) DcPP(s) need to submit the following documents: -

- (i) Authorization letter from CEO/MD/Director of the firm.
- (ii) Duly Signed Industry Partner Information proforma as per **Appendix 'D'**.
- (iii) NDA as per format provided at **Appendix 'E'**.
- (iv) Duly signed compliance statement wrt each evaluation criteria under all categories with all proof of documents.

(c) All the responses from Industry Partners will be scrutinized by an Expert Committee (DcPP Evaluation Committee) as per PM 2020 guidelines. The expert committee may request for a presentation at CASDIC and/or will visit Industry Partner premises to assess their capabilities to take up the work, if required.

(d) RFP in offline mode for the selection of DcPP(s) will be issued ONLY to the short listed Industry Partners who meet all the qualification criteria/requirements as described in this Eol and after submitting duly signed NDA.

13. GENERAL TERMS AND CONDITIONS

(a) Only Indian Companies can participate in the submission of EOI/bidding.

(b) A company shall be considered as owned by resident Indian citizen, if more than 50% of capital is directly owned or beneficially owned by resident Indian.

(c) The contract will be established with payment terms in Indian Rupee (INR) only. There will be no Foreign Exchange (FE) payment involved in the payment.

(d) The DcPP(s) shall meet the evaluation qualification criteria either on its own or through its Indian Holding company/ subsidiary /associate company or Group companies.

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(e) Interested DcPP(s) are required to furnish complete information as sought in EOI.

(f) This EOI is not to be treated as a request for quotation/proposal and is issued with no commitment. CASDIC reserves the right to withdraw the EOI or change or vary any part thereof at any stage. CASDIC also reserves the right to disqualify any Industry Partner/proposal, should it be so necessary at any stage.

(g) By submitting a proposal, each Industry Partner shall be deemed to acknowledge of having fully and carefully read the requirements for EOI, and understood all existing terms and conditions, implicitly or explicitly stated to fulfil the major objective in subject matter.

(h) CASDIC reserves the right to request for any additional information, if required. Failure to furnish all requisite information and/or documents shall result in repudiation of the EOI submitted by interested organization/company, without assigning any reasons thereof. All the requirements projected Essentials Requirements be treated as mandatory.

(i) CASDIC team may visit Industry Partner/s premises to assess the compliance to the parameters stated in submitted EOI.

(j) Participation in EOI alone does not guarantee that RFP will be offered. Shortlisted firms ONLY will be provided RFP and after submitting NDA. DRDO reserves the right to reject any offer or proposal without assigning any reasons.

(k) DcPP(s) shall have rights to produce systems for IAF/IN/IA/DRDO/ICG/BSF or other Govt agencies only and export to any countries shall be with written permission from government department as per policy in vogue.

(l) After being nominated as DcPP(s) by DRDO, the initial 50 numbers of system/subsystems shall be MANDATORILY made available from the respective supply chain as established by DRDO. The DcPP(s) will be permitted to develop/fabricate sub systems on No Cost /No Commitment basis for further quantity beyond 50 numbers, in case of delays in system readiness/delivery from the supply chain for various reasons in order to mitigate the risk. This shall be mutually agreed between CASDIC, identified production agency for the LRU/supply chain and selected DcPP(s). After obtaining the necessary clearance from DRDO, DcPP(s) can become approved subsystem Industry Partner/supply chain for that sub-system.

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(m) A Contract Monitoring Committee/ Progress Review Committee would be constituted by the Director of the Lab/Estt/Centre Head. If found necessary, the committee may advise extension of contract period or for short/ stage closure.

(n) The Industry Partner must submit information pertaining to blacklisting by any government agency including blacklisting of domestic/foreign technology partner (if any).

(o) After receiving the response to request for EoI, DcPP Evaluation Committee (EC), if so desires, will carry out visits and evaluate Industry Partner's suitability. Industry partner should arrange the visit as and when needed.

(p) In D&D phase, DcPP(s) will be involved with CASDIC and shall get acquainted with the system from the date of signing of contract. Thereafter, DcPP(s) is required to support CASDIC in management and administration of the complete programme activities as per schedule, towards delivering the Indigenous EW Suite for SU30 MKI Aircraft.

(q) In production phase and thereafter, DcPP(s) shall be the single point of contact and shall be responsible for manufacture, supply, integrations, evaluations, maintenance and support during entire life cycle of the system.

(r) More than one DcPP may be selected for the program to provide timely delivery to IAF for the huge required volume of EW Suite. *In such case, CASDIC will decide the scope of work during D&D phase in a way so as to ensure the standard/SOP for EW Suite & TTGE is maintained same and no separate flight trials are required for system which shall be developed by both DcPP(s).*

14. INTELLECTUAL PROPERTY (IP) RIGHTS

The IP rights of the product(s) and processes of Indigenous EW Suite for SU30 MKI Aircraft will remain with DRDO, Govt. of India.

15. DOCUMENTS TO BE SUBMITTED BY EOI RESPONDENT

The following list of documents are to be submitted along with EoI including softcopy (in the form of CD/DVD) before the due date and time.

(a) Information proforma as per **Appendix 'D'**.

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(b) Duly signed compliance statement of all evaluation criteria under Financial, Technical & Infrastructure, Manufacturing and Organisational & Management category along with all proof of documents.

(c) Compliance to the Scope of Work and Terms & conditions.

16. CONTACT DETAILS FOR TECHNICAL INTERACTION/MEETING

Name: Ms. Sunita Awasthi Singh, Scientist 'G'

Project Director (EW Systems),
CASDIC, DRDO

Address:

Defence R&D Organization,
COMBAT AIRCRAFT SYSTEMS DEVELOPMENT & INTEGRATION CENTRE
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Ph: 080-2504 7503/ +917338237009, +919535531429

Fax: +91 80 25047781

Mail : sunita.dare@gov.in

17. POINT OF CONTACT (FOR ANY CLARIFICATION)

Shri Guha Prasad, Scientist 'F'

Head MMG, CASDIC, DRDO

Ph: 080-2504 7518 / +91 9071992548

Mail id: mmg.casdic@gov.in, guha.dare@gov.in

18. LIST OF APPENDICES

Appendix 'A': Financial Details

Appendix 'B': Test Facilities and Test Equipment / Instruments

Appendix 'C': Certification/ Licenses

Appendix 'D': Industry Partner Information

Appendix 'E': Non-Disclosure Agreement Format

19. MANDATORY COMPLIANCE OF CRITERIA

All the Financial, Technical & Infrastructure, Manufacturing and Organisational & Management Criteria tables are to be filled and submitted by the Applicant Company along

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with the supporting documents. Without the documentary evidences the response to EoI will not be considered, for shortlisting.

20. FINANCIAL CRITERIA

(Details sought are to be filled up in Appendix 'A')

S No	Description	Compliance with Documentary Evidence	Remarks
1.	<u>Annual Turnover:</u> Applicant company shall have Minimum of Rs 1000 Crores consolidated Annual Turnover in any one or average of the last three financial years, out of which minimum of Rs 100 Crores in avionics related business, for all its Indian Holding company/ subsidiary/ associate company/ Group companies/ firm segments based on the financial statements audited under the relevant companies Act, adopted, and approved by the board of directors / shareholders.		
2.	<u>Net worth:</u> Applicant company shall have minimum Net worth of Rs 550 Crores on consolidated basis including all its Indian Holding company / subsidiary / associate company/group companies/ firm segments based on the financial statements audited under the relevant companies Act, adopted, and approved by the board of directors / shareholders.		
3.	<u>Consolidated revenue growth:</u> Applicant company with its Indian Holding company / subsidiary / associate company/ group companies/ firm segments shall have a minimum of Three percent (3%) growth per annum in at least three (03) of the last five (05) financial years based on consolidated financial statements audited under the relevant companies Act and adopted and approved by the boards of directors/ shareholders.		
4.	<u>Credit Rating:</u> Applicant company with its Indian Holding company / subsidiary / associate company/group companies/ firm segments to have minimum credit rating (long term/issuer rating) equivalent to CRISIL / ICRA "BBB+" (stable) or above as on the date of submission of application or equivalent credit rating (issued by other credit rating agencies, such credit agencies being approved by		

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	Reserved Bank of India/ Securities Exchange Board of India. A documentary evidence duly certified by company's chartered accountant to be produced. This point is not required for DPSU & Govt. sector.		
5.	Applicant Company should not be under Insolvency resolution as per Indian Bankruptcy code at the time of submitting EoI.		

21. TECHNICAL & INFRASTRUCTURE CRITERIA

(Details sought are to be filled up in **Appendix 'D'**)

S.NO	DESCRIPTION	Compliance with Documentary Evidence	Remarks
1.	The DcPP(s) must have in-house system engineering and system integration teams with Model Based System Engineering (MBSE) capabilities. Attach proof of at least one project, based on system engineering guidelines.		
2.	DcPP(s) is required to meet the technical qualification criteria /technology requirement either on its own or through its Indian Holding company / subsidiary / associate company / Group companies / firm segments		
3.	All the mechanical design activities and production drawings must be generated in Solid Works or equivalent standard compatible environment. Accordingly, Technical manpower must have knowledge and experience to simulate 3D model of airborne platform with antennae location in suitable format. The experience in the above mentioned field must be > 5years.		
4.	The DcPP(s) must have expertise (>3 Years) in PLM infrastructure installed in / across their premises in PLM. List the PLM being used.		
5.	The DcPP(s) must have experience (>5 years) in mechanical/electrical ICD definition capabilities. List the relevant Proofs with copy.		

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6.	The DcPP(s) must cater for separate and independent Division/Group for reliability & Quality Assurance.		
7.	The DcPP(s) should have the expertise (>5 Years) in carrying out the design activities of simulation and mathematical analysis of all the system capabilities done in MATLAB/ equivalent or better.		
8.	The DcPP(s) must be a Defence manufacturing company with prior experience (>10 Years) in manufacturing, integration and testing multi-disciplinary Defence & Aerospace Systems and should have CEMILAC certified products/systems. List the relevant Supply Orders with copy.		
9.	The DcPP(s) must have prior experience (>5 Years) on ground/flight trials. List with relevant proofs.		
10.	The DcPP(s) must have dedicated supply chain management for similar products.		
11.	The DcPP(s) must agree to utilize already DRDO established suppliers'/production agencies for first 50 systems/LRUs.		
12.	The DcPP(s) must have in-house suitably trained man power in R&D (Mechanical, Electronics, Computer science, Aeronautical, Integrated and Flight Trial Co-ordination, RF, Digital, Embedded systems, electrical, software, Quality assurance, Project and supply chain management). Attach details of manpower held. (minimum 50 No. of employees in R&D and Testing with >5 years of experience)		
13.	The subsidiary firm/firm segments of the parent company should have quality management process in place. The process should be accepted by CEMILAC or equivalent agency. Attach the proofs of relevant QA tools used.		
14.	DcPP(s) should have defect tracking and defect management mechanism. Attach list of tools used.		
15.	DcPP(s) should have large scale production capability of Line Replaceable Units. (20 systems per year costing more than Rs. 1 crore each). List the relevant Supply Orders with copy.		

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22. MANUFACTURING CRITERIA

(Details to be filled up in Appendix 'D')

S.NO	DESCRIPTION	Compliance with Documentary Evidence	Remarks
1.	The DcPP(s) must provide adequate strength of production/quality managers and engineers in its present strength to realize the Indigenous EW Suite for SU30 MKI Aircraft. Attach details of manpower held. (Minimum 100 No. of employees in Production with more than 5 Years of Experience)		
2.	The DcPP(s) must have past experience (>10 years) in manufacturing / integration of Ground / Airborne system of systems. List the relevant Supply Orders with copy.		
3.	DcPP(s) with in house PCB manufacturing, PCB Assembling Technologies, facilities for precision manufacturing of RF components/systems is desirable (>5 years). List the relevant Supply Orders with copy.		
4.	The DcPP(s) must have past experience (>5 years) and proven track record for Design and development of jigs, fixtures, ground handling and material equipment. List the relevant Supply Orders with copy.		
5.	The DcPP(s) must have complete end to end infrastructure for design, development, realization, assembly, electrical & mechanical integration, and checkout & storage facilities for the ground/airborne products.		
6.	The DcPP(s) must have ability to take up additional production in terms of infrastructure, skilled manpower, and quality control & Quality assurance system.		
7.	The DcPP(s) should conform to the Occupational Health and Safety Management System & Standard OHSAS 18001-2007/Equivalent for manufacturing assembly, integration & testing of product sub systems for, Defence services and associated site activities.		

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8.	The DcPP(s) should have experience (>5 years) in providing life support by way of maintenance / annual maintenance contracts, providing spares including addressing obsolescence, manpower at installations. List the relevant Supply Orders with copy.		
9.	DcPP(s) with in-house Mechanical Manufacturing Facilities for 5-Axis CNC based Mechanical Prototyping of critical components, is desirable.		
10	DcPP(s) should have track record of delivering 20+ production units of Aerospace systems to Indian/Global Aerospace & Defence OEM/s. List the relevant Supply Orders with copy.		
11	DcPP(s) must have experience (>5 years) in supply chain management. Mention the methodology and tools used with proofs.		
12	DcPP(s) should have necessary test & inspection facilities for Component level, PCB Level and LRU level. It is highly desirable to have ATE capability.		
13	DcPP(s) should have in-house Test facilities, Test Equipment/ Instruments (Details to be attached as per Appendix 'B')		
14	DcPP(s) should have following minimum 10,000 Sq mtrs of total Factory Area.		

23. ORGANISATIONAL & MANAGEMENT CRITERIA

S.NO	DESCRIPTION	Compliance with Documentary Evidence	Remarks
1.	The DcPP(s) must be compliant with ILDC (Indian Licensed Defence Company)/DILs requirements for handling Category A (Highly classified and sensitive) projects.		
2.	A company shall be considered as owned by resident Indian citizen, if more than 50% of capital is directly owned or beneficially owned by resident Indian.		
3.	DcPP(s) must have at least one certified Product with CEMILAC/DGAQA. (Proof to be attached as part of certified Products' information in Appendix D)		

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4.	DcPP(s) must possess following certification / licences (these must be valid at the time of submitting response) ISO 9001:2015 /AS9100D/ equivalent or better. (Details to be filled up as per Appendix C)		
5.	DcPP(s) must have Environment Management standard certification viz. Details of Pollution Control Certificate , etc.		
6.	The DcPP(s) must have technical and financial risk management capability. Risk management process is to be submitted. Also, Attach proofs of similar analysis done in previous project/contract during its product lifetime.		
7.	The Industry Partner should submit an undertaking that - None of its Directors, Independent Directors, nonexecutive Directors, Key management personnel are involved in any corrupt practices, unfair means and illegal activities.		
8.	Promoters and directors of the Applicant Company(s) shall be resident Indian citizens and should not be wilful defaulters to the banking system. They should not be listed on exporters caution list of the Export Credit Guarantee Corporation or be otherwise banned.		
9.	The company shouldn't be declared bankrupt under NCLT process or defaulted on loans.		
10.	Written Consent by the DcPP(s) is to be given for providing post-delivery support for Maintenance, Spares & equipment support for EW Suite and all associated equipment for SU30 MKI Aircraft to IAF during its life cycle of 25 years. An undertaking be submitted to this requirement.		
11.	As part of post-delivery life cycle support, DcPP(s) shall have certified process and facility for maintenance of the supplied system. A commitment letter to establish this facility be submitted by DcPP(s), as response to EoI.		

PART-II

GENERAL INFORMATION AND INSTRUCTIONS

1. The Centre Head, CASDIC reserves the right to accept/reject any or all the Eol without assigning any reason and also will not be responsible for postal delays.
2. **EOI Clarification.** Industry Partners are required to submit their queries/clarifications by mail/fax to CASDIC, DRDO on or before 31 May 2024.
3. **Point of Contacts**
 - (a) Ms. Sunita Awasthi Singh, Scientist 'G'
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CASDIC, DRDO
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 - (b) Shri Guha Prasad, Scientist 'F'
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Mail id: mmg.casdic@gov.in, guha.dare@gov.in
4. **Last Date and Time for submission EOI.** On 21 June 2024, 5:00 PM. The sealed documents should be deposited / reach by the Due Date and Time. Responsibility to ensure this lies with the Industry partners.
5. **Location for submission of Eol.** Security Office, CASDIC, Bangalore.
6. **Manner of Depositing the Eol.** Sealed Eol should be either dropped in the designated Box or sent by post at the address given, in the "Invitation of Eol", so as to reach by the due date and time. Late Eol will not be considered. No responsibility will be taken for postal delay or non-delivery / non-receipt of documents. **Eol sent by FAX or e-mail will not be considered.**
7. **Time and Date for Opening of Eol.** On 24 June 2024, 9:00 AM onwards. If due to exigency, the due date for opening is declared a closed holiday, the Eol will be opened on the next working day at the same time or on any other day/time, as intimated by CASDIC, DRDO.
8. **Place of Opening.** Security Office, CASDIC, Bangalore. The Industry partner may depute their representative, duly authorized in writing, to attend the opening of Eol on the due date and time.

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9. The cover containing duly completed response to EOI in all respects must be addressed to The Centre Head, CASDIC indicating the EOI No. CASDIC/MMG/EOI-01/EW SUITE for SU30 MKI/23-24 and Description: **“Expression of Interest” and the Due Date and Time**. The EOI should reach not later than the Due Date and Time.

10. Other Conditions:

- (a) The respective representative from the short listed Industry Partner to sign the NDA along with company seal before issue of RFP. NDA format is placed at **Appendix ‘E’** for reference.
- (b) Participation in EOI does not guarantee that RFP will be offered. After scrutinising the EOI responses, based on the Eligibility Criteria, the Shortlisted firms **ONLY** will be provided with offline RFP in Limited Tender mode after signing NDA.
- (c) The Centre Head, CASDIC has the right to use the information provided by the Industry Partners for future issuance of the tender.

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Appendix 'A'

(Refers to para 20 of EoI)

1. FINANCIAL DETAILS

Financial Year	FY 2023-24	FY 2022-23	FY 2021-22
Annual Turn-over (Rs. Crores)			
Profit/Loss (Rs. Crores)			

2. CONSOLIDATED REVENUE GROWTH:

3. NET WORTH:

4. CREDIT RATING:

5. Attach the audited financial statements, as applicable, for the past three financial years and place a tick mark in the appropriate column as confirmation of having enclosed the appropriate documents with the application.

FY 2023-24	FY 2022-23	FY 2021-22

1. DETAILS OF IMPORTANT TEST FACILITIES

S.No	Test Facilities	Make	Model	Date of Purchase (Validity)	Calibration Validity
1.	CAD, CAM, ROBOTS and other Advanced Technology Tools.				
2.	Environmental Test Facilities (a) High-Capacity (>5 Tons) Random Vibration Test facility (b) Acceleration test facility (c) Low Temperature Test facility (d) High Temperature Test facility (e) Humidity chamber (f) Thermal Shock Chamber with 5-10 degrees' rate change (g) Combined Altitude, Temperature, Humidity (CATH) test chamber (h) Far-field radiation testing facility				
3.	Tool Room and Test Equipment. List and attach details in the similar table format.				
4.	In-house Dynamic Environmental Test Facilities adequate to carryout testing of the systems as per military standard specifications and for system functionality testing in defined environments (a) Environment Stress Screening (ESS) (b) Qualification Testing (QT)				
5.	NADCAP or similar accredited Surface Treatment Facilities.				
6.	Ultrasonic, Radiographic, Eddy Current testing to meet Aerospace Non-destructive machined part Quality Assessment requirements				

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2. DETAILS OF TEST EQUIPMENTS/ INSTRUMENTS

Instrument Name	Make/ Model	Date of Purchase	Calibration Validity	Qty	Operational (Yes/ No)
Logic Analyser					
MIL 1553 Bus Tester					
ARINC Bus Tester					
Vector Signal Generator					
Signal Analyser					
RF Signal Generator					
Audio Analyser					
RF Signal Generator					
Digital Storage Oscilloscope					
Power Meter					
Spectrum Analyser					
Function Generator					
Network Analyser					
Multi o/p Regulated DC Power Supply					
DC Power Supply					
Arbitrary Waveform Generator					
Any other...					

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Appendix 'C'

(Refers to para 23 of EoI)

1. CERTIFICATION / LICENSES

Agency	Type of Certification	Application from (Date & Year)	Valid up to (Date & Year)
	AS9100D		
	ISO 9001:2015		
	CMMI Level		
	Any other		

INDUSTRY PARTNER INFORMATION PROFORMA

The details relevant to this EoI only may be provided.

1. Details of the Company.

Name of the Firm	
Owner of the Company	
Type of Ownership	
Name of CEO with Designation	
Registration Number	
Registering Authority	
Date of Registration	
Nature of Company (Public Limited/Private Limited)	
Are you a small/medium scale Industry registered with the NSI? (Yes/No)	
Address of the Registered Office	
Postal address with City, State, Pin code	
Contact Person Name, Designation, email id	
Address for Correspondence	
Tel. No.	
Mobile No.	
URL/Website	
GST Registration details	

2. Brief History of the Company and its Group of Companies
(Names & addresses of all associated, subsidiary & holding companies, including trusts)

Company Name	Address	Nature of Business	Relationship with Applicant

3. Details of Foreign Collaborations, if any.

Product	Name and Address of Collaborator	Year of Collaboration	Current Status

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4. Technology Received from Abroad and Assimilated, Technology Transfer MoUs Signed/Under Negotiation.

Country	Vendor	Technology	Date of ToT/ Under Negotiation

5. Products Already Supplied to Indian Army/Air Force/Navy/ PSUs / DRDO and its Laboratories/ Ordnance Factories/ Any other Defence Organisation/ any Other Principal Customers. Mention all the Products supplied to govt. agency/ organisation as a D&D (Minimum Rs 1 crore per system)

Supplied to – Govt. Agency/ Organisation	Contract Number	Name of the Equipment/ System Developed & Delivered	Certification Agency	Quantity	Cost

6. Proof of executing Bulk production orders of Airborne EW/Avionics systems to Indian/Global Aerospace & Defence OEM/s should be provided. Bulk Production Orders (Minimum 1 crore per system)

Supplied to	Name of the Equipment/ System Delivered	Contract Number	Quantity	Cost

7. Details of Registration (along with product details).

Company	Product Name	Registration Number	Date	Validity	Class/ Type of Registration
PSUs					
DPSUs					
Central/ State Govt.					
DGQA					
DGAQA					
DGNAI					
CEMILAC					
DRDO					
GeM					

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Other Departments	Defence					
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8. Membership of FICCI/ ASSOCHAM/ CII or other Industrial Associations

Name of the Organization	Membership number
FICCI	
ASSOCHAM	
CII	

9. Details of Experienced Manpower in Defence & aerospace Systems (Minimum 5 years' experience)

No. of employees in R&D and Testing	No. of employees in Production	No. of employees in Quality Control & Quality assurance

10. Details of Experience in System Integration and Trials

Details of System and Agency for which it was developed	Year of System Integration	Details of Participation in Ground/Flight Trials (Year & Current Status)

11. Future Plan (if any) in respect of Expansion Programme, Installation of Additional Machines/Test Facilities.

12. Any other Relevant Information. Contact details of the Executive Nominated to coordinate with the Assessment Team (Please provide telephone, mobile and e-mail address)

NON DISCLOSURE AGREEMENT (NDA)

This Non-Disclosure Agreement is entered into by and between CASDIC, DRDO (Disclosing Party) and _____ located at _____ (Receiving Party) for the purpose of preventing the unauthorized disclosure of confidential information as defined below. The parties agree to enter into a confidential relationship with respect to the disclosure of the RFP for procurement of _____ (name of the Project).

1. For purpose of this Agreement, "Confidential Information" shall include all information or material in which Disclosing party is engaged. If confidential information is in written form, the Disclosing party shall label or stamp the materials with the word "Confidential" or some similar warning. If confidential information is transmitted orally, the Disclosing Party shall promptly provide a written communication indicating that such oral communication constituted confidential information.
2. Receiving party shall hold and maintain the confidential information in strictest confidence for the sole and exclusive benefit of the Disclosing party. Receiving party shall carefully restrict exercise to confidential information to employees, contractors and third parties as is reasonably required and shall require those persons to sign Non-Disclosure restriction at least as protective as those in this Agreement. Receiving party shall not, without prior written approval of Disclosing party, use, publish, copy, or otherwise disclose to others, or permit the use by others or to the detriment of Disclosing party, any confidential information. Receiving party shall return to the Disclosing party any and all record, notes and other written, printed or tangible materials in its possession pertaining to confidential information immediately if Disclosing party requests it in writing.
3. Nothing contained in this Agreement shall be deemed to constitute either party a partner, joint venture or employee of the other party for any purpose.
4. If any provision of this Agreement is held to be invalid or unenforceable by court of law, the remainder of this Agreement shall be interpreted so as best to effect the intent of the parties.
5. This agreement expresses the complete understating of the parties with respect to the subject matter and supersedes all prior proposals, agreements, representations and understandings. This Agreement shall not be amended except with the written consent of both the parties.
6. That in case of violation of any clause of this Agreement, the Disclosing party is at liberty to terminate the services of Receiving party without assigning any reason and shall also be liable to be proceeded against in a Court of Law.

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7. This Agreement and each party's obligations shall be binding on the representatives, assignees and successors of such parties. Each party has signed this Agreement through its authorised representatives.

Disclosing Party

Receiving Party

Date: _____

Date: _____

DEFINITIONS

1. In this Non-Disclosure Agreement, the following terms shall, unless the context otherwise requires, have the following meanings:

(a) 'Disclosing Party' or 'First Party' means DRDO Lab / Estt. Disclosing Confidential Information to the Industry Partner/Seller/Development Partner under this Agreement.

(b) 'Receiving Party' means the Industry Partner/Seller/Development Partner receiving Confidential Information from DRDO Lab/Estt. under this Agreement.

(c) 'Confidential Information' means any information, which shall include but is not limited to, design, fabrication and assembly drawings, know-how, processes, product specifications, raw materials, product samples, inventions, concepts and any other technical and/or commercial information, disclosed directly or indirectly and in any form whatsoever (including, but not limited to, disclosure made in writing, oral or in the form of samples, models, computer programmes, drawings or other instruments) furnished by the Disclosing Party to the Receiving Party under this Agreement.

(i) Such Confidential Information shall also include but shall not be limited to:

(aa) Information disclosed by the Disclosing Party/First Party in writing marked as confidential at the time of disclosure.

(ab) Information disclosed by the Disclosing Party/First Party orally which is slated to be confidential at the time of disclosure.

(ac) Information disclosed in any other manner is designated in writing as Confidential Information at the time of disclosure, or

(ad) Notwithstanding sub-clauses above of this definition, any information whose nature makes it obvious that it is confidential.

(ii) Such Confidential Information shall not include any information which is, at the time of disclosure, publicly known; or becomes at a later date, publicly available

otherwise than a wrongful, act or negligence or breach of this Agreement of or by the Receiving Party, or

(aa) The Receiving Party can demonstrate by its written records was in its possession, or known to the Receiving Party, before receipt under this Agreement, and which was not previously acquired under an obligation of confidentiality, or

(ab) Is legitimately obtained at any time by the Receiving Party from a third Party without restrictions in respect of disclosure or use, or

(ac) The Receiving Party can demonstrate to the satisfaction of the Disclosing Party, has been developed independently of its obligations under this Agreement and without access to the Confidential Information.

2. **Administrative Instructions**

(a) Authority of the Signatory of Receiving Party in NDA shall be established prior to signing of NDA; preferably, a letter should be obtained from CEO/MD of the Receiving Party authorizing a named senior level official to sign NDA on their behalf. Only such authorised Senior Level Officer should sign the NDA document on behalf of Receiving Party/Second Party.

(b) The confidentiality of the documents shall also be maintained by the Consortium Partners of the Suppliers/Receiving Party.

(c) The Labs/ Estts. /Programmes are advised to enter into this NDA in all Contracts wherein any Confidential Information is being shared with the Receiving Party/Second Party.

