

INVITATION FOR EXPRESSION OF
INTEREST (EOI)
FROM
REPUTED MANUFACTURER'S
OF
COMPOSITE MAIN ROTOR BLADE FOR
HELICOPTERS
FOR
DESIGN, MANUFACTURE, SUPPLY,
INSTALLATION, COMMISSIONING AND
PROVING
OF
ROTOR BLADE MOULDS AND
COMPLETE CURING SYSTEM



COMPOSITES MANUFACTURING DIVISION
HINDUSTAN AERONAUTICS LIMITED, MARATHA HALLI POST
BANGALORE – 560 037 INDIA

Phone:0091-8022329040 , Fax:0091-80-22329045 / 25235005, email:smimm.cmd@hal-india.com /
cmimm.cmd@hal-india.com

INVITATION FOR EXPRESSION OF INTEREST

1. Composites Manufacturing Division, Hindustan Aeronautics Limited invites Expression of Interest (EOI) proposal for Design, manufacture , supply , installation , commissioning and proving of Rotor Blade moulds and complete curing system from reputed manufacturers of Composite Main Rotor Blades for Helicopters.
2. The suppliers who have the necessary infrastructure and capabilities for undertaking such project will be evaluated by HAL on the basis of their Technical expertise, processes and capabilities (including QA standards) for adequacy to undertake this project and further processing for the purpose of Request for Proposal(at the sole discretion of HAL).
3. Comprehensive Expression of Interest (Techno Commercial project proposal -Technical bid & price bid (budgetary) in a single cover) is sought from reputed potential suppliers (manufacturers of Composite Main Rotor Blades for Helicopters with proven capabilities only).
4. The EOI is governed by all conditions mentioned in the EOI document.
5. For any clarifications, please contact:
Chief Manager(IMM)
Composites Manufacturing Division
(Helicopter Complex)
Hindustan Aeronautics Limited
Marathahalli Post
Bangalore -560037
Fax:0091-80-22329045/25235005
Phone:0091-80-22329040
e Mail: smimm.cmd@hal-india.com or cmimm.cmd@hal-india.com
7. The last date for submission of proposal is **22/12/2009**. The date of opening of Tender is **23/12/2009** at 12.30 PM in the office of Chief Manager(IMM), Composites Manufacturing Division.

The interested parties (who have submitted proposal) may participate in Tender opening, if they desire, on production of authorization letter from their company.
8. The HAL reserves the right to accept or reject any proposal without assigning any reasons thereof & decision taken by HAL is final.

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9. Canvassing in any form is strictly prohibited and shall disqualify the company indulging in such practices.

Sd/
Chief Manager(IMM)
Composite Manufacturing Division

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APPENDIX 1

REF: CMD/EOI/2708/MRB/2009

Date: 5/10/2009

Dear Sir,

SUB :INVITATION FOR EXPRESSION OF INTEREST FROM MANUFACTURER'S OF
COMPOSITES MAIN ROTOR BLADE FOR HELICOPTERS FOR DESIGN, MANUFACTURE ,
SUPPLY, INSTALLATION , COMMISSIONING & PROVING OF ROTOR BLADE MOULDS
AND COMPLETE CURING SYSTEM.

Introduction:

1. Hindustan Aeronautics Limited (HAL), a Navaratna Public Sector Company is a pioneer in Aircraft Industry in South Asia. HAL has 19-Production Divisions and 9- Research & Design Centres in 7 locations in India. The Company has an impressive product track record - **12** types of aircraft manufactured with in-house R & D and **14** types produced under license. HAL has manufactured **over 3550 aircrafts** , **3600 engines** and overhauled over **8150 aircrafts** and **27300 engines**. (www.hal-india.com).
2. Composites Manufacturing Division (CMD), an AS 9100 B certified division of HAL, is engaged in manufacture of composite components/sub assemblies and assemblies for **Fixed Wing & Rotary Wing Aircrafts**.

3. OBJECTIVE and SCOPE:

o Objective:

- ❖ To design, manufacture and supply of moulds with complete curing system and associated accessories for Composite Main Rotor Blade and prove out as a turn key project including manufacture of composite Main Rotor Blade (one set of five numbers) as per drawings as part of prove out at our facilities(Bangalore). The composites

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materials for lay up, associated consumables and available facilities will be provided for prove out by CMD.

- ❖ Necessary installation and commissioning of Mould with allied control units and accessories at HAL-CMD, Bangalore to be done by seller.
- ❖ Hands on Training including Maintenance of total system/unit is also part of the scope of project.

○ **Scope (Guidelines):** The salient features of scope of work includes mainly (not necessarily restricted to) the following :

- ❖ To design, manufacture and supply of top and bottom moulds made from designated aluminum alloy, machined to the dimensions and to get the component with tolerances as per component CAD model supplied by us. Detail drawings will be given to short listed vendors after signing of Non Disclosure Agreement (NDA) as per HAL format (at RFQ stage). The Design of component (Main Rotor Blade) will be taken care of by HAL-CMD.
- ❖ The length of the blade is approximately 4650 mm and width of the blade will be around 340 mm.(sketch enclosed as Enclosure-1).
- ❖ The Main Rotor Blade moulds consists of top mould and bottom mould each mounted on suitable steel table bed, which rests on supports.
- ❖ The top mould is portable and before curing is transported and placed on the bottom mould. Both the top and bottom moulds are clamped together and hydraulic pressure is applied.
- ❖ Both the moulds are held under high pressure applied by a automatic hydraulic pressure application system as per desired cure cycle
- ❖ The top and bottom moulds have integrated heating and cooling systems, so that the blade inside the mould is heated and cooled as per cure cycle defined in component design.
- ❖ Both the moulds will be made from two or more different segments to accommodate expansion. There shall be provision for the ends of the

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moulds to slide out during elevated temperature and high hydraulic pressure.

- ❖ Suitable provisions shall be made to align and hold the moulds in position. The moulds shall have accessories like eye bolts for each segment for handling purposes, brackets for assisting in applying hydraulic pressure. The design of the complete system shall be provided to CMD prior to manufacture.
- ❖ After both the top and bottom moulds are aligned and held in position, hydraulic pressure is applied on the moulds, to close the moulds in a pre-selected way so that the moulds get closed from one end and proceeding to the other and from one side to the other side. Later during curing stage, higher hydraulic pressure is applied on the moulds simultaneously. The maximum pressure on the moulds is 400 kg/sq cm (~400 bar) and should be variable from 0 to 400 bar .The pressure and temperature experienced by the blade surface after lay-up and closing of mould has to be simulated in the mould before taking up for production trial.
- ❖ Each of the top and bottom moulds are integrated with heating and cooling coils along with sensors. The heating coils are electrically heated and controlled through thyristor /microprocessors to achieve heating/cooling of the moulds. The cooling is achieved through water circulation and is controlled through microprocessors. The heating coils may be in segments with various capacities to achieve uniform temperature inside the moulds. The maximum temperature of the moulds is 200 degree centigrade. Heating and cooling rates of the part inside the mould should be 3 degree/minute maximum and should be variable from 0 to 3 degree/minute
- ❖ The moulds should be held on to surface tables designed to withstand high forces as mentioned above and should not distort or have variation more than 100 microns in dimensions due to heating and cooling.

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- ❖ Installation and commissioning of mould with allied control units and accessories and Prove out at HAL-CMD.
- ❖ The complete curing system including mould should be able to withstand 2000 curing cycles.
- ❖ Other technical requirement (if any) to be finalized based on response to subject Expression of Interest and as deemed necessary at the time of issuing RFQ (Request for Quotation) to short listed vendors at HAL's discretion.
- ❖ **The potential supplier can propose suitable and proven solution to meet the requirements.**

4. In this context, CMD invites an Expression of Interest from reputed manufacturers (Composites Main Rotor Blade of helicopter) with proven expertise as per the standards /requirements given by CMD.

5. Qualification requirement:

- Objective of the project is to design, manufacture, supply and prove out of main rotor blade moulds and accessories along with complete curing system which amongst other things also includes complete heating, cooling and pressure applications control system as a turnkey project. Manufacturers with proven expertise in design, manufacture and supply of main rotor blade moulds of Helicopters are only permitted to participate in the EOI .
- The potential supplier should have executed two or more similar Helicopter Rotor Blade programmes. The details of the product and brief on the nature of work done, contact addresses of the customer/ self use to be provided.
- Detailed Technical proposal should be submitted.
- A certificate duly signed by the CEO of company/Authorized executive is required to be provided along with the your EOI proposal confirming that all applicable and necessary clearances and licenses are available from

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the Government of seller's country for execution of subject scope with end use as HAL for Civil & Military applications and ensure that all export/regulatory requirements of that country are fully complied with.

- Please note that general statements such as “ we do not anticipate any difficulties in obtaining export clearances” etc are not acceptable.
- A certificate duly signed by the CEO of company/Authorized executive stating that in the event of default on account of non compliance to any of the export regulations/ or regulations of the foreign country, all consequential damages of whatsoever kind shall be borne by the applicant.
- The prospective company shall provide brief statements of qualification in the areas relevant to the scope of EOI and should have the resources and capabilities to successfully perform the project till end. The firm shall be of repute with a proven track record (minimum experience of 10 years) in the applicable relevant/applicable business line.
- The prospective Company shall provide a description of current knowledge / capabilities related to design manufacture and supply of main rotor blade moulds and accessories along with complete curing system including methodology, process control & quality standards adopted.
- The prospective Company shall have demonstrated ability to integrate specialty disciplines and industry expertise in design, manufacture and supply of main rotor blade moulds and accessories along with complete curing system , identify and evaluate latest technology development status and adopt to meet subject requirement.
- The prospective Company shall provide a statement to describe the Quality Program Plan on how it will be “qualified” to meet requirements specified by HAL-CMD and also brief on Quality Management System (including process control) being followed at present & proposed for subject EOI scope.

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- In addition it is also requested to complete the enclosed Registration form duly signed by Head of company (attach necessary supporting documents as evidences) for evaluation of the company credentials (Appendix.3).
- Brief on Manufacturing facilities/capabilities with emphasis on process control , resources(technical expertise).

5. The EOI project proposal (including Technical & Budgetary Commercial proposal) duly completed and signed should be submitted (hard copy and soft copy in CD) in a sealed cover duly sealed with EOI reference. The sealed cover super scribed “Expression of Interest for Design, Manufacture, Supply , Installation, Commissioning and Proving of Rotor Blade Moulds and complete curing system ” indicating EOI Reference & due date should addressed to : Chief Manager(IMM),Composite Manufacturing Division, HINDUSTAN AERONAUTICS LIMITED, MARATHAHALLI POST ,BANGALORE-560037. In case of personal delivery it should addressed as above & submitted at: Reception/Security Office , Composites Manufacturing Division , HINDUSTAN AERONAUTICS LIMITED, MARATHAHALLI POST, BANGALORE –560 037 on or before the due date of Tender between 7.30. a.m. to 3.00. p.m..

In case of email, quotations should be sent strictly to rfq.imm.cmd@hal-india.com.

In case of any clarification, please send email to smimm.cmd@hal-india.com only.

The email rfq.imm.cmd@hal-india.com should be used only for of submission of quotation

6. The due date for submission of EOI Project proposal is 22/12/2009. The EOI proposals received late will not be entertained/considered. HAL is not responsible for postal/courier delays.

Thanking you,

Yours faithfully,
for Hindustan Aeronautics Limited,

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Chief Manager(IMM)
Composite Manufacturing Division

APPENDIX 2

Information and Instructions for potential suppliers

1.1 All information asked should be furnished. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. If no information is provided a 'nil' or 'no such case' entry should be made. If any particulars/ query is not applicable for the potential suppliers, it should be stated as 'not applicable'.

1.2 Failure to provide the requisite information may limit a prospective supplier's ability in being a viable candidate for future Request for Proposal (including rejection of proposal).

1.3 The particulars of the project given are indicative only and are subject to change and may be considered only as advance information to assist the potential supplier for preparation of EOI proposal. It is the responsibility of potential supplier to formulate complete technical specification based on inputs/control parameters specified by HAL

1.4. The potential supplier may furnish any additional information, which is deemed necessary to establish capability to successfully complete the envisaged indigenization project.

1.5. No additional information shall be entertained after submission of EOI document unless specifically called for.

1.6. Any information furnished by the potential supplier found to be incorrect either immediately or at a later date, would render the applicant liable to be debarred from taking up the project.

1.7. Prospective Company can seek any clarification on requirements and obtain EOI document from the office of Chief Manager (IMM), Composite Manufacturing Division(Aircraft Research and Design Centre),HAL, Marathahalli Post, Bangalore-560037 (Phone: 080-25233035, extension:389 Fax: 080-22329045/2525005, E-mail: smimm.cmd@hal-india.com or cmimm.cmd@hal-india.com). CMD reserves its right not to respond to any question raised or provide clarification sought in its sole discretion.

1.8. The discretion and decision of CMD,HAL in respect of the 'EOI' shall be final and shall not be open for challenge in any Court of Law.

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1.9. CMD,HAL reserves the right to accept or reject any EOI proposal and/or to annul the selection process and reject all proposals at any time without assigning any reason or incurring any liability to the EOI bidders.

1.10. This document is not intended to form the basis of any decision to purchase/finalize contract. It does not constitute an offer or invitation or solicitation of an offer to purchase.

1.11. Interested Company is advised to carry out their own due diligence and analysis of any information contained or referred to herein or made available at any stage. The EOI does not, and does not purport to contain all the information that interested parties would desire to take decision. The potential supplier should analyse the information given and make their decision on the information available with them

1.12. At any time during the evaluation process, CMD,HAL requires any clarification, it reserves the right to request such information from any or all of the companies and the companies will be obliged to provide the same within time indicated by CMD,HAL (failing which CMD,HAL will take further decision as per company policy including rejection of proposals) and CMD,HAL reserves the right to visit your company/manufacturing plant and your customers plant with prior notice to assess the reliability of data /information provided in proposal submitted in response to subject EOI.

1.13. **Evaluation:** The evaluation will be done based on details furnished as per EOI document. Your response covering all parameters mentioned is required to carry out assessment. After Technical Evaluation is completed, CMD,HAL will freeze Technical Requirements and float Request for Proposal (RFP) to only those vendors who are short listed based on evaluation carried out against subject EOI.

1.14. Future Process:

Based on an evaluation of EOI proposals received, interested parties, which are deemed fit & qualified, will be invited to participate in the subsequent Request for Proposal process (CMD, HAL's decision on floating Request for Proposal is final and can not be questioned in any court of law). This will be a two bid system. The short listed parties will have to provide response to RFP in two bids simultaneously, one for technical proposal with commercial terms and another bid for the price in two separately sealed covers.

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APPENDIX.3
LETTER OF DECLARATION
(Company Letter Head)

FROM:

To:
Chief Manager(IMM)
Composite Manufacturing Division
HAL, Marathahalli Post
Bangalore
India

Dear Sir

**SUBJECT: Submission of EOI for Design, Manufacture, Supply, Installation ,
Commissioning and proving Rotor Blade Moulds and Complete curing system.**

We have examined the details given in EOI Notice and EOI document for the above project; We hereby submit the relevant information.

1. We hereby certify that all the statements made and information supplied as part of EOI proposal are true and correct.
2. We have furnished all information and details necessary for EOI and have no further pertinent information to supply.
3. We also authorize officials of Composite Manufacturing Division, HAL / and their authorized representatives (including Indian Government Regulatory Authorities) to approach individuals, employers and firms to verify our competence and general reputation.
4. We submit the following certificates in support of our suitability, technical know-how and capability for having successfully completed the following projects .

*Project:1
*Project:2
*Project:3
etc.

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Name Designation and Authorized Signature
Date of submission

***Note: Enclose necessary documentary evidences.**

APPENDIX. 4

COMMERCIAL TERMS & CONDITIONS

SI No.	Description	Vendor's Compliance
1.	<p>Company Profile: Please submit your company profile in detail, indicating Type of the Company , Organization chart, Number of years in business, areas of expertise/technical competence, Man Power, Previous supply track record (for supply of same/similar materials/equipment/Tools/system etc.)with customer references (particularly for Aircraft Industry), International Accreditation if any, Inspection Procedure/Quality Assurance Standards/System, Production Facilities, Products Range, Annual Turn Over/Profit for last 5 years etc. (Highlight the customers in Abroad, India/Bangalore, Defence Aviation sector in particular).</p> <p>Please fill up all information as per Registration format (separately for Indian vendors and for foreign vendors enclosed).</p>	
2.	<p>a) In the event of a contract agreement, any technical modifications /changes in specification are to be incorporated only after clearance of HAL in writing. HAL should be involved at all critical stages of Design/Development/Manufacture (prove out) as required, In case of doubts, the same should be clarified from HAL in writing).</p> <p>b) Your EOI proposal should clearly indicate the necessary technical inputs to be provided by HAL and HAL responsibilities.</p>	
3	<p>When submitting your proposal, please ensure that you have responded categorically against each qualification/technical/commercial terms. Your compliance /acceptance to each of our terms should be indicated clearly. In case, the HAL terms and conditions are not acceptable, you may quote counter terms and conditions. When counter terms and conditions of business have been offered by tenderer, H.A.L. shall not be deemed to be governed by such terms and conditions unless written acceptance thereof has given by H.A.L. No conditions and terms, notice of which has not been given in this enquiry by parties submitting proposals will be considered by H.A.L., if put forward in subsequent correspondence, after submission of EOI proposals.</p>	

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4	<p>Price:</p> <ul style="list-style-type: none">• Approximate budgetary cost for said project may be indicated including Design , Manufacture , supply and installation & commissioning of Moulds (with associated allied control units and accessories) for MRB and FAI (First Article Manufacture, inspection and proving at HAL). The installation of mould to be done at CMD-HAL, Bangalore.• Cost break down to be indicated.• Other specific charges if any to be mentioned (like Travel expenses etc.).	
5	<p><u>Project Schedule :</u> Please mention the estimated schedule for Design, Manufacture, Supply and installation & commissioning, and trials prove out (FAI).</p> <p>Please submit detail master schedule (bar chart) indicating the various milestones from the date of receipt of contract.</p>	
6	<p>Payment Terms Payments after successful completion of mutually agreed milestones.</p>	
7	<p><u>Taxes / Duties:</u> All taxes, excise duties and levies/cess or any other charges payable (including custom duty in case any materials/ingredients are imported). All levies to be shown separately with break up including basic price (if applicable).</p>	
8	<p>Inspection, Consequences of rejection:</p> <p>a) The goods will be subjected to pre dispatch inspection at suppliers premises or inspection at HAL ,Bangalore after receipt at HAL and the decision of HAL shall be final regarding the acceptance /rejection of goods.</p> <p>b) In case of rejection during pre dispatch inspection at supplier premises and defects are not rectifiable immediately & takes considerable time , then HAL will depute its engineers for inspection after rectification at suppliers cost.</p> <p>c) In case of rejection at HAL, the supplier will be allowed for free replacement (freight and insurance to be borne by seller) within a time stipulated by HAL, failing which HAL reserves the right to terminate the contract and recover from the seller the loss HAL may thereby incur. The tenderer shall not be entitled to any gain on the repurchase.</p> <p>d) Any stores rejected by HAL's inspector must be removed by the tenderer within 14 days from the date of receipt of intimation of rejection and his own cost, failing which the tenderer shall be liable to pay storage charges at 1% for each within a month from the date of intimation of rejection, the stores will be liable, to be sold by HAL at the tenderer's risk and responsibility and the proceeds adjusted towards storage charges.</p> <p>e) HAL inspector's decision as regards acceptance/rejection of goods shall be final and binding on the parties.</p>	
9	<p>Termination of the Contract:</p>	

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	Incase of breach of contract, non-compliance of the conditions of the purchase order / contract, HAL shall have the rights to terminate the contract after serving a notice to this effect. This, However, shall be without prejudice to the right of the HAL to claim damages from the tenderer for such breach / Non-compliance of the contract and / or its conditions.	
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SI No.	Description	Vendor's Compliance
10	<p><u>Short closure of contract:</u> HAL reserve the right to short close this contract with prior notice (30 days) to the tenderer at any time during the tenure of the contract. The liability of HAL is in this case will be limited to the extent of the cost as assessed by HAL in it's opinion, incurred by vendor till the point of termination of contract.</p>	
11	<p><u>Confidentiality:</u></p> <p>a. Terms and conditions of this order and documents mentioned in this EOI(and also subsequent RFQ & Contract if awarded) are confidential between the HAL and tenderer, and tenderer shall not, without the prior written consent of the HAL disclose any information to any one, in whole or part, except as far as may be necessary to carryout their obligations under this EOI. Any information belonging to one of the parties and communicated to the other party during the pre contractual phase or during performance of the contract shall be considered as confidential information and may not be published or disclosed to third parties without prior written permission from the party who is owner of said information.</p> <p>b. All the documents given by HAL are confidential including Technical Requirement document and shall not be reproduced and such documents should not be disclosed to third party without prior written consent of HAL.</p> <p>c. None of the supplies specially developed for HAL shall be reproduced without prior written consent from HAL.</p> <p>d. No publicity or advertising in connection with this EOI shall be released by the tenderer without the prior written consent of the HAL.</p> <p>e. Non Disclosure Agreement to be signed (as and when required, which is mandatory to obtain EOI documents).</p>	
12	<p><u>Sub-Contracting:</u> Subcontracting / Transferring of obligation of Contract (if awarded in future against floated RFQ as per the discretion of HAL) is prohibited without the HAL's consent to assign or transfer such obligations/benefits.</p>	



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13	<p>Involvement of any Agents and Middlemen: No involvement of Agents or Middlemen in India or abroad in any capacity what-so-ever is permitted at any stage in relation with this EOI , resultant tender and the resultant contract. Vendors should specifically indicate if any of their office or contact exist in India or abroad providing the details and extent of the activities handled and provide the details of the employees, address of the office/ location, phone and fax numbers. Offers and all correspondence/ communications should be addressed directly to HAL. No agency commission in any form is payable to any Agent/ Middlemen or any third party in India or abroad. Anything contrite to the above is noticed or comes to knowledge of HAL, HAL has right to disqualify the offer or cancel the contract, forfeit all payments and take actions as deemed fit.</p>	
14	<p>Immunity to Government of India: It is understood and agreed that the Government of India is not a party to contract ,if finalized in due course against specific RFQ (to be floated by HAL at is sole discretion) and has no liabilities, obligations or rights hereunder. It is expressly understood and agreed that HAL is an independent legal entity with power and authority to enter into contracts solely on its own behalf under the applicable Laws of India. Vendor shall agree, acknowledge and understand that HAL is not an agent, representative or delegate of the Government of India. It is further understood and agreed that the Government of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising our of the contract. Accordingly, Vendor expressly waives, releases and foregoes any and all actions or claims against the Government of India arising out of contract, not to sue the Government of India as to any manner, claim, cause of action or any thing whatsoever arising out of or under this agreement.</p>	
15	<p>INSOLVENCY If you</p> <ul style="list-style-type: none">a) enter into liquidation, whether compulsory or voluntary (otherwise than for amalgamation or reconstruction) orb) become insolvent orc) Suffer a receiver of the whole or part of your assets to be appointed. <p>You shall forthwith notify the same to HAL and HAL shall have the right without prejudice to its other rights or remedies to terminate the un-executed part of the agreement. In such an event, HAL shall be entitled forthwith to the refund of all the advance payments, if any.</p>	
16	<p>Applicability of law & Jurisdiction:</p> <p>The court at Bangalore India only shall have jurisdiction to deal with and to decide any legal matter what so ever arising out of this contract.</p> <p>Any contract finalized shall be governed by & subject to and interpreted and construed in accordance with the Laws of the Republic of India, as may be in force from time to time.</p>	

Registered Office: 15/1, Cubbon Road, Bangalore - 560 001.



COMPOSITES MANUFACTURING DIVISION
HINDUSTAN AERONAUTICS LIMITED, MARATHA HALLI POST
BANGALORE – 560 037 INDIA

Phone:0091-8022329040 , Fax:0091-80-22329045 / 25235005, email:smimm.cmd@hal-india.com /
cmimm.cmd@hal-india.com

17	Settlement of Disputes and Arbitration: Any disputes / disagreement or question arising out of or relating to consequence of the order / contract which cannot be settled mutually shall be settled by Arbitration. The arbitration shall be conducted in accordance with the Rules of Conciliation and Arbitration of the Indian Council of Arbitration. The place of arbitration shall be Bangalore.	
18	Work and Payment during Arbitration: Work under the contract shall, if reasonably possible, continue by mutual agreement during the arbitration proceedings and no payment due to or payable by HAL will be withheld without reasonable cause and merely on account of the pendency of such proceedings unless the same is subject of arbitration.	
19	Indemnity against Patent Rights: The Contractor shall at all times indemnify HAL against all claims which may be made in respect of stores /services for infringement of any right protected by patent, registration of design or trade mark and shall take risk of accidents or damage which causes a failure of the supply/services.	
20	Title and Owner ship: The ownership and title of all supplies shall pass in to the HAL upon full payment to the potential supplier.	
21	Warranty : a) Vendor warrants that each product shall be free from defects in materials and workmanship, in conformance to the specification and fit for the intended purpose and undisputed title of the product before selling the same to HAL. A warranty certificate conforming that supplies are as per RFQ /Purchase Order specification and fit for the intended purpose should accompany with each tool. b) The warranty period for all the tooling deliverables shall be for a minimum of 2000 Cure Cycles for the production of AIRWORTH components excluding the components made for tool validation, component qualification & certification. c) Warranty is assignable by HAL to its sub-contractor and HAL's sub-contractor will have all rights and benefit of the warranty clause. d) Warranty will cover all manufacturing defects and will be attended to by the vendor on free of cost basis including to & fro transportation. Vendor would replace the unit when either repair / re-work is not feasible. e) Vendor will duly compensate for any loss to HAL either by hold up Helicopter production or by delay in delivery of Helicopter to the Customer due to malfunction of the tooling shipped. For this purpose, a performance bank guarantee for a value of 10 % of the order value should be given in favor of HAL and will be valid for 5 years initially and extended periodically until the warranty period of last supplied unit	

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cmimm.cmd@hal-india.com

	<p>expires.</p> <p>f) Please indicate the time period required to attend the break down calls during warranty period</p> <p>g) Also indicate whether there is any technical service centre in India to attend break down calls and provide technical support during warranty period (free of charge) & post warranty period on chargeable basis. If so provide address , contact details, man power with technical expertise and experience in this field etc.</p>	
22	<p>Liquidated Damages: In the event that any supply is delivered more than thirty (30) days later than agreed schedules, liquidated damages will be payable / deducted from Invoice equal to 2 % for every month or part thereof on the unexecuted portion of the order subject to a maximum of twelve percent (12 %). The LD clause is applicable after 30 days grace period.</p>	
23	<p>Other Terms and Conditions:</p> <p>i) HAL reserves the full right to short list /rejects any proposals submitted against subject EOI.</p> <p>ii) HAL-CMD reserves the right to itself of accepting or rejecting the whole or any part of the tender or the quantity offered in full or in part. (Tender refers to RFQ arising out of the subject EOI evaluation at HAL's sole discretion).</p> <p>iii) Disregard of any instructions, may result in your EOI proposal being ignored.</p> <p>iii) EOI proposal should be free from cuttings and over writing. Any inevitable correction should be clear, legible and counter signed.</p> <p>iv) The EOI document is not transferable.</p>	
24	<p>The foresaid commercial conditions of EOI will govern any resultant Request for Proposal (RFP) and order arising out RFP and acceptance of your offer will be subject to the said conditions. HAL may include additional conditions/alter conditions as necessary while issuing RFP (which will be also applicable for any future contract if finalized at the sole discretion of HAL).</p>	

11.1

NOSE UP

5.6°

4.75°

3.6°

#1425

TWIST DIAGRAM

#4560

#5386.5

#5700

DMH4

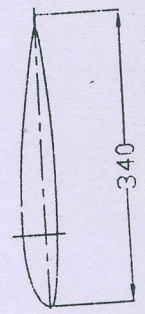
DMH3

TRANSITION

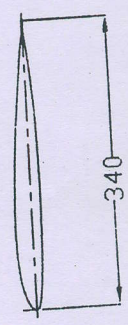
340

4275

4650



DMH4, thk=40 mm



DMH3, thk=30 mm



SECTION AT #1425

ENCLOSURE - 1

IMM Department

Application for Registration as Approved Supplier (Foreign Suppliers)

Ref:
(Office Use Only)

1	Name of the Firm	
2	Parent Company	
3	Address	
	City	
	State & Zip Code	
	Country	
4	Contact Name	
5	Phone	
6	Fax	
7	E-mail	
8	Web site	
9	Category	<input type="checkbox"/> Original Equipment Manufacturer (OEM) <input type="checkbox"/> Stockist / Distributor <input type="checkbox"/> Sub- Contractor <input type="checkbox"/> Consortiums/ State/ Govt. Agencies <input type="checkbox"/> Others
10	Company Type	<input type="checkbox"/> Limited Company <input type="checkbox"/> Partnership <input type="checkbox"/> Individual <input type="checkbox"/> Educational or Research Institute <input type="checkbox"/> Trust
11	Capital Employed	
12	Annual Sales	
13	Equipment	
14	Facilities (sq. mtr)	

15	Quality Certifications /Accreditation	
16	Employees (Total)	
17	Key Sector	
18	Products / Services	
19	Major Customers	

20. Company's Catalogue/ Brochure enclosed. Yes No

Date.....

Name.....

Position.....

Company's Seal.....

IMM Department

Application for Registration as Approved Supplier (Indian Suppliers)

Ref:
(Office Use Only)

Complete all sections of the form, sign the declaration and send the completed form and attachments in an envelope marked 'Application for Registration as Approved Supplier' to:

Head of IMM Deptt
Hindustan Aeronautics Limited
.....Division
.....
.....

All columns in this form may be **filled** up. If applicant has no information to give on a particular column, "Nil" may be mentioned. In case of columns not relevant in your case, "Not Applicable" may be mentioned. No column should be left blank.

Section 1: Applicant Particulars

Registration Category	<input type="checkbox"/> Original Equipment Manufacturer (OEM) <input type="checkbox"/> Stockist/ Distributor <input type="checkbox"/> Small Scale Industry <input type="checkbox"/> Public Sector Unit <input type="checkbox"/> Govt. Deptt. <input type="checkbox"/> Consortium / State/ Govt. Agencies <input type="checkbox"/> Others (Please mention)		
(Sub- Contractors & Ancillary Units do not need to apply on this form)			
Name of the Individual/ Firm/ Company:			
Constitution or Legal status			
Registration Number:	Registering: Authority	Date of Registration	
Registered Address Office:			
Address of Factory			
Contact Person Name and Designation:			
Address for Correspondence:			
Tel. No.	Fax No.		
Mobile No	Email Address:		

Section 2: Applicant profile

2.1 Type of Ownership:

- Individual Partnership Ltd. Company (Pvt./ Public)
 PSU/ Govt. Undertaking Research Institute Trust
 Joint Venture or other tie-up for technology, equipment, financial backing and/or Project Management (Please specify.....)
 Other, please specify

- Enclose copies of PAN(in case of individual) /Partnership Deed/Articles & Memorandum of Association/ JV Agreement/ Certificate of incorporation/ Certificate of Registration etc as applicable, duly certified by Chartered Accountant.

2.2 (a) Are you a small scale Industry registered with the N.S.I.C? Yes / No

If yes, please enclose copy of NSIC Competency/ Capacity certificate.

(b) Do you have ISO 9000/9001/9002 certification? Yes / No

If yes, please specify & indicate validity:

(c) In case of certification by other accredited institutions, please give details :

Institution	Type of Certification	Valid up to (date)

(d) Give details of registration, if any, with HAL or its Divisions (Specify Division)/ DGS & D/ PSUs/ Central/State Govt. /Major Private Institutions/ Others (Specify) :

Company	Registration Number	Dated	Validity	Class/ Type of Registration

- Attach necessary certificates from the registering authorities.

2.3 Give the floor area of your factory and Offices. If you own more than one factory, please give separate details for each unit:

Factory or Office	Location	Area in Square Meters

2.4 Give a list of your major products / services, you intend to offer as a supplier:

SI	Major Products / Services	Are you Original Equipment Manufacturer for listed product
		Yes / No
		Yes / No
		Yes / No
		Yes / No
		Yes / No

- Please enclose your Company/ Product Catalogues

2.5 Give a List of your major Customers

SI	Customer's Name & Address	Serial No. of the Product/ Service (from para 2.3) provided to the Customer

- Please attach Proof in the form of Purchase Order copies/ Invoice etc

2.6 List the names of Owners/ Partners/Promoters and Directors/ Company Secretary/ Holder of Power of Attorney, as applicable, in the format detailed below:

Name of the Owners/ Partners/ Promoter & Directors/ Company Secretary/ Holder of Power of Attorney	Address	Whether Owner/ Partner/ Promoter/ Director/ Company Secretary/ Holder of Power of Attorney	Extent of share holding in the Firm/Company as the case may be

2.7 List the names & addresses of all associated, subsidiary & holding companies, including trusts

Company Name	Address	Nature of Business	Relationship with Applicant

Section 3: Financial details

3.1 Annual Turnover in the past 3 years:

Year			
Annual Turn-over (Rs. Lakhs)			
Profit/ Loss (Rs. Lakhs)			

3.2 Attach the following 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.

Year			
Balance Sheet			
Profit/Loss Statement			

IMPORTANT NOTE – Financial Assessment:

Before the assessment of this application can be completed, a representative from HAL may contact you concerning the financial and technical information that you provide. Your co-operation is required to assist in the assessment process. Failure to co-operate may affect registration.

The assessment report is specifically for use by HAL for the purpose of assessing Suppliers for registration, and will be treated as strictly confidential.

3.3 Bank(s) details:

Will you authorise your Bank/s to supply HAL with a reference as to your financial position, if required?		YES	/	NO
Name of Bank (Scheduled Commercial Bank) & Branch				
Name and Designation of Contact Person:				
Address:				
Tel No:				

3.4 Details of Income Tax assessed, as per clearance Certificate, in the last 3 years :

YEAR			
Amount Assessed (Rs. Lakhs)			
Amount paid/ payable (Rs. Lakhs)			

3.5 Sales Tax/ VAT Details:

Central sales Tax Registration No.:.....

State sales Tax/ VAT registration No.:.....

Details of Sales Tax/ VAT assessed, as per clearance Certificate, in the last 3 years:

YEAR			
Amount Assessed (Rs. Lakhs)			
Amount paid/ payable (Rs. Lakhs)			

4 In the last 3 years, has your firm, or any firm with which any of your company's owners, officers or partners were associated, been debarred, disqualified, removed, business dealings banned or otherwise prevented from bidding ?

YES / NO

If yes, State the reference to Customer and their orders and the basis for the action.

5 Please provide any additional information, which will help you in securing registration with HAL.

6 DECLARATION:

(This declaration should be completed by a proprietor, partner, director or other senior manager who has the authority to do so.)

I/We declare and confirm that –

- a. The HAL Conditions of Registration are acceptable.
- b. All information and attachments submitted in this application are true and correct.
- c. I/We are aware that any false information provided herein will result in the rejection of my application and cancellation of any registrations granted.
- d. I/We shall be bound by the acts of duly constituted attorney who has signed this application and of any other person who in future shall be appointed by us in his place to carry on business of the concern whether or not an intimation of such changes is given to HAL.
- e. I/We have read and understood HAL's General Conditions of Contract and agree to abide by the same in all respects.
- f. I/We undertake to communicate promptly to HAL any changes in condition or working of the firm.

Signed:

Name:

Position:

Date:

Details of person holding the power of Attorney (If different from above)

(attach attested copy)

Name Tel. No. (...) Mobile

No.....

PositionFax No. (...)

Official Seal