



TENDER NO: NAL/PUR/CAD/321/20-Z

Date:15-Mar-2021

TENDER DOCUMENT

FOR

**DESIGN, DEVELOPMENT AND SUPPLY OF LINE REPLACEMENT UNIT OF FUEL
SYSTEM FOR TRACTOR AIRCRAFT WITH HIGH WING MOUNTED PT6-67A
ENGINE**

**COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH
NATIONAL AEROSPACE LABORATORIES
PB NO.1779, HAL AIRPORT ROAD, BENGALURU – 560017
KARNATAKA-INDIA**



Council of Scientific and Industrial Research
National Aerospace Laboratories
PB No.1779, HAL Airport Road, Bengaluru – 560 017, Karnataka-India
Tel #: 00 91 80 25086040/6041
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Email: purchasek@nal.res.in
Website: www.nal.res.in

Invitation for e-Bids / Notice Inviting e-Tender

CSIR- National Aerospace Laboratories (NAL), Bengaluru, India is one of the premier laboratories under Council of Scientific and Industrial Research, an autonomous body under Department of Scientific and Industrial Research (Government of India), New Delhi. CSIR-NAL is a Science and Knowledge based Research, Development and Consulting Organization. It is internationally known for its excellence in Scientific Research in Aerospace Engineering.

The Director, CSIR-NAL invites sealed bids from their Manufacturers, their distributors and Indian Agent of Foreign Principals, if any, for the procurement of the following Goods/Services for its day-to-day research. The Technical specifications, Allied requirements and scope of supply are given in **Chapter 4** appended herewith.

Sr. No.	Tender No.	Brief Description of item(s)	Unit	Quantity	Single / Two Bid
1	NAL/PUR/CAD/321/20-Z	Design, Development and Supply of Line Replacement Unit of Fuel System for Tractor Aircraft with High Wing Mounted PT6-67A Engine	Details as per Chapter-4 and BoQ		Two

- Interested Bidders may obtain further information from the office of the:
Controller of Stores & Purchase
Purchase Section
CSIR- National Aerospace Laboratories
PB No.1779, HAL Airport Road, Kodihalli, Bengaluru – 560017
Karnataka-India
Tel #: 080 25086040/6041/6044
Fax #: 080 25269611
Email : purchasek@nal.res.in, mkala@nal.res.in
- E-Bids are invited through the electronic tendering process and the Tender Document can be downloaded from the e-Tender Central Public Procurement Portal (CPPP) of Government of India, <https://etenders.gov.in>. A copy of the Tender Document is also available on CSIR-NAL Website, www.nal.res.in. **The submission of e-Bids will be only through the e-Tender portal <https://etenders.gov.in>. Bids will not be accepted in any other form.**
- The prospective bidders should adhere to deadlines specified in Tender Details Screen corresponding to this Tender on E-Tender portal <https://etenders.gov.in>.

4. (a) A Pre-Bid Conference will be held on schedule as mentioned below.

	Date	Time in hours (IST)	Venue
Pre-Bid Conference	30-Mar-2021	10:30 AM	Through WEBEX
Bidders desirous of attending Pre-bid meeting are required to provide the following details: - <ol style="list-style-type: none"> 1. Bidders Name & address 2. Name, designation & mobile number of the representative (s) attending the meeting. 3. E-mail ID to which the meeting invitation to be sent. 4. Pre-bid queries, if any. <p>The above information should be sent by e-mail to mkala@nal.res.in / spo@nal.res.in / purchasek@nal.res.in on or before</p>			

- (b) Queries received after pre-bid will not be considered.

5. The Bid prepared by the Bidder shall include the following: -

Bid Security (BS) / Earnest Money Deposit (EMD)	
a)	EMD Amount: NIL BIDDER TO SUBMIT BID SECURING DECLARATION. Refer Annexure-B, Chapter -8]
b)	The Bid Security Declaration in the name of "The Director, National Aerospace Laboratories, Bengaluru" to be part of the Technical Bid, failing which the bid is liable to be rejected. For further details, refer Tender document.
c)	Forms as specified in Chapter No.8

6. The Schedule for Submission of e-Bids and Opening of e-Bids is as follows: -

Date & Time of Submission of e-Bid		Date and Time of Opening of e-Bid		Venue
Date	Time (IST)	Date	Time (IST)	As detailed at Sr. No.1
15-Apr-2021	10:00 Hrs	16-Apr-2021	11:00 Hrs	

7. As per Govt. of India procurement policies:

(a)	The purchaser intends to give purchase preference to local suppliers* in case the cost of procurement is up to Rs.50.00 lakhs.
(b)	The procuring entity intends to give purchase preference to products/goods manufactured by micro, small and medium enterprises.

Local Content, Class-I local Supplier, Class-II Supplier, Non-Local Supplier, L1, Margin of Purchase Preference is as per DIPP Order or by the Competent Ministries/Departments as and when issued.

*" Local supplier" means a supplier or service provider whose product or service offered for procurement meets the minimum local content of 50% as prescribed in DIPP Order No. P-45021/2/2017-PP (BE-II) dated 4th July 2020 or by the competent Ministries/Departments in pursuance of this order.

'Local content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

8. In case of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/ dealer. There can be only one bid from the following:

i)	The Principal manufacturer directly or through one Indian agent on his behalf; and
ii)	Indian/foreign agent on behalf of only one principal.

9. The Director, CSIR-National Aerospace Laboratories (NAL), Bengaluru, India reserves the right to accept or reject any bids or accept all tenders either in part or in full or to split the order, or to annul the bidding process without assigning any reasons there for.

General Instructions to Bidders: -

01. Tender Documents may be downloaded from Central Public Procurement Portal <https://www.etenders.gov.in>. Aspiring Bidders who have not enrolled/ registered in e- procurement should enroll/ register before participating through the website <https://www.etenders.gov.in>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'.
02. Tenderers can access tender documents on the website (For searching in the NIC site <https://www.etenders.gov.in>, kindly go to Tender Search option, select tender type and select ' Council of Scientific and Industrial Research' in organization tab and select NAL-Bengaluru-CSIR' in department type Thereafter, Click on "Search" button to view all CSIR-NAL, Bengaluru tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <https://www.etenders.gov.in> as per the schedule given in the next page.
03. The Bidders should have Java 8 update 231 version-32 bit for uploading the bid in the CPP Portal.

INDEX

Chapter	Content	Page No.
1	Instructions to Bidders	05-22
2	General and Special Conditions of Contract	23-36
3	Schedule of Requirement	37
4	Specifications and Allied Technical Details	38-64
5	Price Schedule Forms	65
6	Qualification Requirements	66-68
7	Contract Form	69
8	Other Forms	70-88

CRITICAL DATE SHEET

Sl. No.	Stage	Date	Time Hrs
1.	Publish Date & Time	15-Mar-2021	18:55
2.	Sale/document Download Start Date & Time	15-Mar-2021	18:55
3.	Last Date & time for receipt of queries	26-Mar-2021	13:00
4.	Pre-bid Conference, if any	30-Mar-2021	10:30
5.	Bid Submission Start Date & time	15-Mar-2021	18:55
6.	Bid Submission End Date & Time	15-Apr-2021	10:00
7.	Bid Opening Date & Time	16-Apr-2021	11:00

CHAPTER - 1

INSTRUCTIONS TO BIDDERS-Table of Contents

Clause No.	Contents	Page No.
A. Introduction		
1.1	Eligible Bidders	6
1.2	Cost of Bidding	6
1.3	Code of Integrity	6-7
B. The Bidding Documents		
1.4	Cost of tender Documents	8
1.5	Content of tender Documents	8
1.6	Clarification of tender documents	8
1.7	Amendment of tender Documents	9
C. Preparation of Bids		
1.8	Language of Bid	9
1.9	Purchase Preference Policies	9
1.10	Documents Comprising the Bid	9
1.11	Bid form and price schedule	10
1.12	Bid Prices	10
1.13	Bid Currencies	11
1.14	Documents Establishing Bidder's Eligibility and Qualifications	11
1.15	Documents Establishing Goods' Eligibility And Conformity to Bidding Documents	11
1.16	Bid Security	12
1.17	Period of Validity of Bids	13
1.18	Format and Signing of Bid	13
D. Submission and Sealing Bids		
1.19	Submission, Sealing and Marking of Bids	14
1.20	Deadline for Submission of Bids	14
1.21	Late Bids	14
1.22	Withdrawal, substitution and Modification of Bids	14
E. Opening and Evaluation of Bids		
1.23	Opening of Bids by the Purchaser	15
1.24	Confidentiality	15
1.25	Clarification of Bids	15
1.26	Preliminary Examination	15
1.27	Bidders right to question rejection	16
1.28	Responsiveness of Bids	16
1.29	Non-Conformity, Error and Omission	16
1.30	Examination of Terms & Conditions, Technical Evaluation	17
1.31	Conversion to Single Currency	17
1.32	Evaluation and Comparison of bids	17-18
1.33	Contacting the Purchaser	19
1.34	Post qualification	19
F. Award of Contract		
1.35	Negotiations	19
1.36	Award Criteria	19
1.37	Purchaser's right to vary Quantities at Time of Award	20
1.38	Option Clause	20
1.39	Purchaser's right to accept any Bid and to reject any or all Bids	20
1.40	Notification of Award	20
1.41	Signing of Contract	20
1.42	Order Acceptance	20
1.43	Performance Security	20
1.44	Pre-bid Conference	21
1.45	Integrity Pact	21-22
1.46	Assistance to Bidders	22

A Introduction

Instructions to bidder are broad guidelines to be followed while formulating the bid and its submission to the Purchaser. It also describes the methodology for opening and evaluation of bids and consequent award of contract.

1.1. Eligible Bidders

- 1.1.1 This Invitation for Bids is open to all suppliers' **subject to para 07** of the invitation for e-Bids/NIT.
- 1.1.2 A supplier or bidder shall be considered to be from a country if (i) the entity is incorporated in that country, or ii) a majority of its shareholding or effective control of the entity is exercised from that country; or (iii) more that 50% of the value of the item being supplied has been added in that country. Indian suppliers shall mean those entities which meet any of these tests with respect to India.

- 1.1.3 MSEs would be treated as owned by Scheduled Caste/Schedule Tribe enterprises as under:

(a)	In case of proprietary MSE, proprietor(s) shall be SC /ST.
(b)	In case of partnership MSE, the SC/ST partners shall be holding at least 51% (Fifty One percent) shares in the unit.
(c)	In case of Private Limited Companies, at least 51% (fifty one percent) share shall be held by SC/ST promoters.

- 1.1.4 MSEs owned by women shall also be determined as per the above analogy/criteria.
- 1.1.5 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids.
- 1.1.6 Bids from Joint Ventures, Consortium or Associations so long as they are formed and registered prior to the bid submission date.
- 1.1.7 The bidders who have been temporarily suspended or removed from the list of registered suppliers by the purchaser or banned from Ministry/country wide procurement **shall be ineligible** for participation in the bidding process.

1.2 Cost of Bidding

- 1.2.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

1.3 Code of Integrity

- 1.3.1 The bidders/suppliers should sign a declaration about abiding by the Code of Integrity for Public Procurement in bid documents. In case of any transgression of this code, the bidder is not only liable to be removed from the list of registered suppliers, but it would be liable for other punitive actions such as cancellation of contracts, banning and blacklisting or action in Competition Commission of India, and so on.

- 1.3.2 **Code of integrity for Public Procurement:** The Purchaser as well as bidders, suppliers, contractors and consultants should observe the highest standard of ethics and should not indulge in the following prohibited practices, either directly or indirectly, at any stage during the procurement process or during execution of resultant contracts:

i)	"Corrupt practice"	making offers, solicitation or acceptance of bribe, rewards or gifts or any material benefit, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process or contract execution;
ii)	"Fraudulent practice"	any omission or misrepresentation that may mislead or attempt to mislead so that financial or other benefits may be obtained or an obligation avoided. This includes making false declaration or providing false information for participation in a tender process or to secure a contract or in execution of the contract;

iii)	“anti-competitive practice”	any collusion, bid rigging or anti-competitive arrangement, or any other practice coming under the purview of the Competition Act, 2002, between two or more bidders, with or without the knowledge of the purchaser, that may impair the transparency, fairness and the progress of the procurement process or to establish bid prices at artificial, non-competitive levels;
iv)	“coercive practice”	harming or threatening to harm, persons or their property to influence their participation in the procurement process or affect the execution of a contract;
v)	“conflict of interest”:	participation by a bidding firm or any of its affiliates that are either involved in the consultancy contract to which this procurement is linked; or if they are part of more than one bid in the procurement; or if the bidding firm or their personnel have relationships or financial or business transactions with any official of purchaser who are directly or indirectly related to tender or execution process of contract; or improper use of information obtained by the (prospective) bidder from the purchaser with an intent to gain unfair advantage in the procurement process or for personal gain; and
vi)	“Obstructive practice”	materially impede the purchaser’s investigation into allegations of one or more of the above mentioned prohibited practices either by deliberately destroying, falsifying, altering; or by concealing of evidence material to the investigation; or by making false statements to investigators and/or by threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or by impeding the purchaser’s Entity’s rights of audit or access to information;

1.3.3 Obligations for Proactive disclosures

i)	The Purchaser as well as bidders, suppliers, contractors and consultants, are obliged under Code of Integrity for Public Procurement to sue-moto proactively declare any conflicts of interest (coming under the definition mentioned above – pre-existing or as and as soon as these arise at any stage) in any procurement process or execution of contract. Failure to do so would amount to violation of this code of integrity; and
ii)	The bidder must declare, whether asked or not in a bid document, any previous transgressions of such a code of integrity with any entity in any country during the last three years or of being debarred by any other Procuring Entity. Failure to do so would amount to violation of this code of integrity;
iii)	To encourage voluntary disclosures, such declarations would not mean automatic disqualification for the bidder making such declarations. The declared conflict of interest would be evaluated and mitigation steps, if possible, taken by the purchaser.

1.3.4 Punitive Provisions

Without prejudice to and in addition to the rights of the Purchaser to other penal provisions as per the bid documents or contract, if the Purchaser comes to a conclusion that a (prospective) bidder/supplier, directly or through an agent, has violated this code of integrity in competing for the contract or in executing a contract, the purchaser may take appropriate measures including one or more of the following:

i)	If bids are under consideration in any procurement:	
	a)	Forfeiture or encashment of bid security;
	b)	Calling off of any pre-contract negotiations; and
	c)	Rejection and exclusion of the bidder from the procurement process.
ii)	If a contract has already been awarded	
	a)	Cancellation of the relevant contract and recovery of compensation for loss incurred by the purchaser;
	b)	Forfeiture or encashment of any other security or bond relating to the procurement;
	c)	Recovery of payments including advance payments, if any, made by the purchaser along with interest thereon at the prevailing rate.

iii)	Provisions in addition to above:
a)	Removal from the list of registered suppliers and banning/debarment of the bidder from participation in future procurements of the purchaser for a period not less than one year;
b)	In case of anti-competitive practices, information for further processing may be filed under a signature of the Joint Secretary level officer, with the Competition Commission of India;
c)	Initiation of suitable disciplinary or criminal proceedings against any individual or staff found responsible.

B. The Bidding Documents

1.4 Cost of Tender Documents

- 1.4.1 The bidding documents are to be **downloaded Free of Cost** from the website of **CPP Portal** <https://etenders.gov.in> or www.nal.res.in.

1.5 Content of Tender Documents

- 1.5.1 The goods required, bidding procedures and contract terms are prescribed in the bidding documents which should be read in conjunction. The bidding documents, apart from the invitation for bids and Critical Date Sheet have been divided into **8** Chapters as under:

Chapter No.	Name of the Chapter
1	Instructions to Bidder (ITB)
2	General Conditions of Contract (GCC) and Special Condition of Contract (SCC)
3	Schedule of Requirements
4	Specifications and Allied Technical Details
5	Price Schedule Forms
6	Qualification requirements
7	Contract Form
8	Other Standard Forms comprising
	(i) Bid Security Form
	(ii) Bid Securing declaration
	(iii) Bidder Information Form
	(iv) Manufacturer's Authorization Form (MAF);
	(v) Performance Statement form
	(vi) Service Support details;
	(vii) Format for declaration by the bidder for code of integrity and conflict of interest
	(viii) Deviation Statement Form;
	(ix) Bid form
	(x) Performance Security Form;
	(xi) Acceptance Certificate Form
	(xii) Integrity pact

- 1.5.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

1.6 Clarification of tender documents

- 1.6.1 A prospective Bidder requiring any clarification of the Bidding Documents shall contact the Purchaser in writing at the Purchaser's address specified in the Special Conditions of Contract (SCC), latest by the date specified in the critical date sheet. No request for clarification or query shall normally be entertained after the deadline/pre-bid conference if any. Should the Purchaser deem it necessary to amend the Tender Documents as a result of a clarification, it shall do so following the procedure under Clause relating to amendment of Tender Documents and Clause relating to Deadline for Submission of Bids.
- 1.6.2 The queries, clarifications and amendments issued would also be hosted on the website of the **CPP Portal/Purchaser** for the benefit of the other prospective bidders and also shall be sent to all bidders who have purchased the tender documents.

1.7 [Amendment of Tender Documents](#)

- 1.7.1 At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the tender documents by amendment. The same would also be hosted on the website of the **CPP Portal/Purchaser** and all prospective bidders are expected to surf the website before submitting their bids to take cognizance of the amendments.
- 1.7.2 All prospective bidders who have down loaded the Tender Document should surf website of **CPP Portal/Purchaser** from time to time to know about the changes / modifications in the Tender Document. The changes / modifications would also be hosted on the website of **CPP Portal/Purchaser**. All prospective bidders are expected to surf the website of **CPP Portal/Purchaser** before formulating and submitting their bids to take cognizance of the amendments.
- 1.7.3 In order to allow prospective bidders' reasonable time in which to take the amendment into account in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids and host the changes on the website of **CPP Portal/Purchaser**.

C. [PREPARATION OF BIDS](#)

1.8. [Language of Bid](#)

- 1.8.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser shall be written in English language only.
- 1.8.2 The Bidder/Supplier shall bear all costs of translation, if any, to the English language and bear all risks of the accuracy of such translation, for documents provided by the Bidder/Supplier.

1.9 [Purchase Preference Policies](#)

- 1.9.1 The purchaser intends to give product reservation/purchase preference/price preference in line with current Govt. of India procurement policies to help inclusive national economic growth by providing long term support to Small and Medium enterprises (SMEs) and disadvantaged sections of the society and to address environmental concerns along with preferential market access in govt. procurements.
- 1.9.2 For the above purpose, local supplier means a supplier or service provider whose product or service offered for procurement meets the minimum local content as prescribed in DIPP Order No. P-45021/2/2017-PP (BE-II) dated 28th May, 2018 or by the competent Ministries/Departments in pursuance of this order and local content means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

1.10.1 [Documents comprising the E-bid](#)

The bid prepared by the Bidder shall include documents as under:

Sr. No.	Required documents
A. TECHNICAL BID	
(a)	Bidder Information Form;
(b)	Declaration abiding by the Code of Integrity and no conflict of interest for public procurement;
(c)	Bid security as specified in the Invitation to Bids;
(d)	Service support details form;
(e)	Deviation Statement Form;
(f)	Performance Statement Form;
(g)	Manufacturer's Authorization Form along with a certified copy of the Agency Agreement between the bidders and the Indian Agent;
(h)	Documentary evidence establishing that the bidder is eligible to bid and is qualified to perform the contract if its bid is accepted;
(i)	Integrity Pact, if required;
(j)	Documents establishing goods eligibility and conformity to bidding documents; indicating the Indian Customs Tariff Number (ICT & HSN No.) .

(k)	Schedule of requirements.
(l)	Self-certification that the item offered meets the minimum local content of 50% giving details of the location(s) at which the local value addition is made in case the bidder wishes to avail the benefits under the make in India policy, if applicable.
(m)	In cases of procurement for a value in excess of ₹ 10 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content to avail the benefits under the make in India policy, if applicable.
(n)	Documentary evidence about the status of the bidder i.e. whether MSE or not, owned by SC/ST or not and whether the MSE is owned by a women entrepreneur or not.
B. PRICE BID	
(i)	Bid form;
(ii)	Applicable Price Schedule Form;

1.11. Bid form and price schedule

- 1.11.1 The bidder shall complete the Bid Form and the appropriate price schedule form furnished in the bidding documents. These forms must be completed without any alterations to its format and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested. The Bid Form and the appropriate Price Schedule form shall be submitted in accordance with Clause 1.18.3 of the bidding documents.

1.12. Bid Prices

- 1.12.1 The Bidder shall indicate on the appropriate price schedule form, the unit prices and total bid prices of the goods it proposes to supply under the contract.

- 1.12.2 Prices indicated on the price-schedule form shall be entered separately in the following manner:

(a)	For Goods manufactured within India	
	(i)	The price of the goods quoted Ex-works including taxes already paid.
	(ii)	GST and other taxes, if any which will be payable on the goods if the contract is awarded
	(iii)	The charges for inland transportation, insurance and other local services required for delivering the goods at the desired destination as specified in the price schedule form.
	(iv)	Wherever applicable, the cost towards the installation, commissioning, spares, extended warranty, AMC/CMC, site preparation and training including any incidental services, if any.
(b)	For Goods manufactured abroad	
	(i)	The price of the goods, quoted on FCA (named place of delivery abroad) or FOB (named port of shipment), as specified in the price schedule form.
	(ii)	The charges for insurance and transportation of the goods to the port / place of destination both by Air/Sea.
	(iii)	The agency commission charges, if any.
	(iv)	Wherever applicable, the cost towards the installation, commissioning, spares, extended warranty, AMC/CMC, site preparation and training including any incidental services, if any.

- 1.12.3 The terms FOB, FCA, CIF, CIP etc. shall be governed by the rules prescribed in the current edition of the Incoterms published by the International Chambers of Commerce, Paris.

- 1.12.4 Where **there is no mention of packing, forwarding, freight, insurance charges, taxes etc. such offer shall be rejected as incomplete.**

- 1.12.5 The price quoted shall remain fixed during the contract period and shall not vary on any account

- 1.12.6 All lots and items must be listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Lots or items not listed in the Price Schedule shall be assumed to be not included in the bid.

1.12.7 (a) The Purchaser is registered with Dept. of Scientific & Industrial Research, Govt. of India and concessional customs duty and GST & IGST are leviable vide notification No. 54/2002-Customs on all imports covered under Notification No.51/96-Customs dated 23.07.1996, Notification No.47/2017-Integrated Tax (Rate) and Notification No. 45/2017-Central Tax (Rate) both dated 14th November, 2017.

(b) The Certificate is issued without any commitment by CSIR-NAL. Hence, the supplier should ensure its applicability for their own interest.

1.12.8 Please state specifically in your offer whether the duties and taxes are extra over the prices quoted, failing which it will be presumed that the prices are inclusive of taxes and duties and no claim would be entertained for statutory variations at a later date.

1.12.9 Stipulations like "GST is presently not applicable but the same will be charged if it becomes leviable later on" is not acceptable unless in such cases it is clearly stated that GST will not be charged if the same becomes applicable later on due to increase in turn over etc. If a bidder fails to comply with this requirement, his quoted price shall be loaded with the quantum of duty which is normally applicable on the item in question for the purpose of comparison with the prices of other tenderers.

Note: All payments due under the contract shall be paid after deduction of statutory levies at source (like TDS, Income-tax etc.), wherever applicable.

1.13. Bid Currencies

1.13.1 Prices shall be quoted in Indian Rupees for offers received for supply within India and in freely convertible foreign currency in case of offers received for supply from foreign countries i.e. domestic tenderers are to quote and accept their payment in Indian currency; Indian agents of foreign suppliers are to receive their agency commission in Indian currency; cost of imported goods & services rendered in India, which are directly imported against the contract, may be quoted in foreign currency (currencies).

1.14. Documents Establishing Bidder's Eligibility and qualifications

1.14.1 The bidder shall furnish, as part of its bid, documents establishing the bidders' eligibility to bid and its qualification to perform the contract if its bid is accepted.

1.14.2 The documentary evidence of the bidder's qualification to perform the contract if the bid is accepted shall establish to the purchaser's satisfaction that;

(a)	The bidder meets the qualification criteria listed in bidding documents if any.
(b)	Bidder who doesn't manufacture the goods it offers to supply shall submit Manufacturers' Authorization Form (MAF) using the form specified in the bidding document to demonstrate that it has been duly authorized by the manufacturer of the goods to quote and/or supply the goods
(c)	In case a bidder not doing business within India, it shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India equipped and able to carry out the supply, maintenance, repair obligations etc. during the warranty and post warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc. during the warranty and post-warranty period.

1.14.3 **Conditional tenders shall not be accepted.**

1.15. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

1.15.1 To establish the goods' eligibility, the documentary evidence of the goods and services eligibility shall consist of a statement on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.

1.15.2 To establish the conformity of the goods and services to the specifications and schedule of requirements of the bidding document, the documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings and data, and shall consist of:

(a)	A detailed description of the essential technical and performance characteristics of the goods;
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(b)	A list giving full particulars, including available sources and current prices, of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods during the warranty period following commencement of the use of the goods by the Purchaser in the Priced-bid; and
(c)	An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.

1.15.3 For purposes of the commentary to be furnished pursuant to above, the Bidder shall note that standards for workmanship, material and equipment, designated by the Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute these in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

1.15.4 **Alternate offers/makes/models would not be considered.**

1.16. Bid Security

1.16.1 The Bidder shall furnish, as part of its bid, a bid security (BS) for an amount as specified in the Invitation for Bids. In the case of foreign bidders, the BS shall be submitted either by the principal or by the Indian agent and in the case of indigenous bidders; the BS shall be submitted by the manufacturer or their specifically authorized dealer/bidder.

1.16.2 The bid security is required to protect the Purchaser against the risk of Bidder's conduct, which would warrant the security's forfeiture.

1.16.3 The bid security shall be in Indian Rupees for offers received for supply within India and denominated in the currency of the bid or in any freely convertible foreign exchange in the case of offers received for supplies from foreign countries in equivalent Indian Rupees. The bid security shall be in one of the following forms at the bidders' option:

(a)	A Bank guarantee or stand-by Letter of Credit issued by a Nationalized/ Scheduled bank located in India or a Foreign bank with its operating branch in India in the form provided in the bidding documents or
(b)	A Banker's cheque or Account Payee demand draft in favour of the purchaser issued by any Nationalized/ Scheduled bank or
(c)	A Fixed Deposit Receipt pledged in favour of the Director, CSIR-NAL, Bengaluru.
(d)	Bid Securing Declaration

1.16.4 The bid security shall be payable promptly upon written demand by the purchaser in case the conditions listed in the ITB clause 1.16.9 are invoked.

1.16.5 The bid security should be submitted in its original form to the address mentioned below: -

CONTROLLER OF STORES & PURCHASE
CSIR-NATIONAL AEROSPACE LABORATORIES
PB NO.1779, HAL AIRPORT ROAD, KODIHALLI,
BENGALURU – 560017
KARNATAKA-INDIA

Scanned Copy of Demand Draft/Bank Guarantee towards bid security should be uploaded along with the E-bid.

1.16.6 The bid security of unsuccessful bidder will be discharged /returned as promptly as possible positively **within a period of 30 days after the expiration of the period of bid validity or placement of order whichever is later, without any interest.**

1.16.7 **The successful Bidder's bid security will be discharged upon the Bidder furnishing the performance security, without any interest.**

1.16.8 Bidders that are currently registered with the purchaser or registered as MSEs will continue to remain registered during the tender validity period also and are exempted from payment of EMD. In case the tenderer falls in these categories, the bidder should furnish a certified copy of its valid registration details. Except for MSEs, this exemption is valid for the trade group and monetary value of registration only. **The MSEs are provided tender document free of cost and are exempted from the payment of Bid**

Security provided the goods are produced and the services are rendered by them and not for any trading activities undertaken by them. Further firms who are having Udyog Aadhar Memorandum are entitled to all benefits available for MSEs under the Public Procurement Policies for MSEs and can get registered with any of the following agencies:

(a)	District Industries Centre
(b)	Khadi and Village Industries Commission
(c)	Khadi and Village Industries Board
(d)	Coir Board
(e)	National Small Industries Corporation
(f)	Directorate of Handicraft and handloom and
(g)	Any other body specified by the Ministry of MSME

1.16.9 Where any aggregator has been appointed by the Ministry of MSME, themselves quote on behalf of some MSE units, such offers will be considered as offer from MSE units and all such facilities would be extended to these aggregators also.

1.16.10 The bid security may be forfeited:

(a)	If a Bidder withdraws or amends or modifies or impairs or derogates its bid during the period of bid validity specified by the Bidder on the Bid Form; or
(b)	In case of a successful Bidder, if the Bidder fails to furnish order acceptance within 14 days of the order or fails to sign the contract and/or fails to furnish Performance Security within 21 days from the date of contract/ order.

1.16.11 Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then the Bidder should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

1.17. [Period of Validity of Bids](#)

1.17.1 Bids shall remain valid for minimum of 90 days after the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.

1.17.2 In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (by post, fax or e-mail). The bid security provided shall also be suitably extended failing which the bid would be summarily ignored. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.

1.17.3 Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

1.18. [Format and Signing of Bid](#)

1.18.1 The bids may be submitted as Single-bid or Two-bid as specified in the Invitation for Bids / NIT.

1.18.2 In case the bids are invited on single bid basis, then the Bidder shall submit E-bid comprising all documents listed under clause 1.9 relating to documents comprising the bid.

1.18.3 In case the bids are invited on two-bid system, the Bidder shall submit E-bid in two separate parts. First part shall contain Technical bid comprising all documents listed under clause relating to Documents Comprising the Bid excepting bid form and price schedule forms. The second part shall contain the Price-Bid Comprising Bid Form and Price Schedule forms.

1.18.4 The scanned copies of the E-bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. **All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid detailing his/her name and contact details.**

1.18.5 Any interlineations, erasures or overwriting shall be valid only if they are initialed by the persons or persons signing the bid.

D. Submission and sealing of Bids

1.19. Submission, Sealing and Marking of Bids

- 1.19.1 Bids shall be submitted online only at CPPP website <https://etenders.gov.in> **(Bids received by Manual/ Offline bids/ FAX/E-mail would not be considered for evaluation.)**
- 1.19.2 The Bidder shall download the Tender Enquiry Document directly from the website <https://etenders.gov.in> and shall not tamper/modify it in any manner. In case if the same is found to be tampered/modified in any manner, Tender/Bid will be summarily rejected and EMD would be forfeited.
- 1.19.3 The complete bidding process is online. Bidders should be in possession of valid Digital Signature Certificate (DSC) of class III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. If the envelope is not digitally signed & encrypted the Purchaser shall not accept such open Bids for evaluation purpose and shall be treated as non-responsive and rejected.
- 1.19.4 Bidders are advised to go through **"Bidder Manual Kit", "System Settings" & "FAQ"** links available on the login page of the e-Tender portal for guidelines, procedures & system requirements. In case of any technical difficulty, Bidders may contact the help desk numbers & email ids mentioned at the e-tender portal. Every Bidder will be required to obtain a Class-III Digital Signature (DSC) for submission of Bids.
- 1.19.5 Bidders are advised to visit CPPP website <https://etenders.gov.in> regularly to keep themselves updated, for any changes/modifications in the Tender Enquiry Document.
- 1.19.6 Intending bidders are advised to visit CPPP website <https://etenders.gov.in> regularly till closing date of submission of bid, for any corrigendum.
- 1.19.7 The Bid Security/Earnest Money Deposit shall be deposited through Bank Guarantee / Demand Draft drawn in favour of "The Director, National Aerospace Laboratories, Bengaluru". The original Bid Security/EMD must be delivered at address mentioned in Sr.No.1 of NIT till bid submission date and time as mentioned in "Date Sheet" failing which the bid shall be summarily rejected.
- 1.19.8 Purchaser shall receive the bids online through CPPP portal only. The e-Tender portal shall automatically stop accepting bids after the scheduled date and time specified in the Tender Document. Partially submitted bids shall be treated as invalid and shall not be processed.

1.20. Deadline for Submission of Bids

- 1.20.1 Bidders are advised to upload and submit their E-bids timely within due date for submission of E-Bids in view of the electronic process so as to avoid last minute issues.
- 1.20.2 The Purchaser may, at its discretion, extend the deadline for submission of bids by amending the bid documents in accordance with Clause relating to Amendment of Bidding Documents in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

1.21. Late Submission of EMD

- 1.21.1 Any bid security/EMD received by the Purchaser after the due date for submission of bids prescribed by the Purchaser is liable to be rejected.
- 1.21.2 Bidders must note that the e-tender portal shall not permit uploading of bids after the scheduled time of submission.

1.22. Withdrawal, substitution and Modification of Bids

- 1.22.1 The bidder may withdraw, correct or modify his digitally signed bid after submission prior to the deadline for submission of bids, through provisions of e-tendering portal.
- 1.22.2 The bidder is not allowed to modify or withdraw bid after deadline for submission of bids.

E. Opening and Evaluation of E-Bids

1.23 Opening of E-Bids by the Purchaser

- 1.23.1 The E-bids shall be opened online by authorised officials of the Purchaser as per schedule given in Date Sheet.
- 1.23.2 In the event of the specified date of Bid opening being declared a holiday for the Purchaser, the Bids shall be opened at the appointed time and location on the next working day. In two-part bidding, the financial bid shall be opened only after technical evaluation. No separate intimation shall be sent to the bidders in this regard.
- 1.23.3 Since, E-bid is an online process; the E-bid opening or any other process may be delayed due to any technical/server issue. If any such issue arises, this will not be tantamount to process delay and CSIR-NAL will not be responsible for the same.
- 1.23.4 On opening of bids online, accepting the bid will not mean that the firm is technically or financially qualified.

1.24. Confidentiality

- 1.24.1 Information relating to the examination, evaluation, comparison, and post qualification of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until publication of the Contract Award.
- 1.24.2 Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post qualification of the bids or contract award decisions may result in the rejection of its Bid.

1.25. Clarification of Bids

- 1.25.1 To assist in the examination, evaluation, comparison and post qualification of the bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted. However, no negotiation shall be held except with the lowest bidder, at the discretion of the purchaser. Any clarification submitted by a bidder in respect to its bid which is not in response to a request by the purchaser shall not be considered.

1.26. Preliminary Examination

- 1.26.1 The Purchaser shall examine the bids to confirm that all documents and technical documentation requested in ITB Clause 1.10 have been provided, and to determine the completeness of each document submitted.
- 1.26.2 The Purchaser shall confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the offer shall be rejected.

(a)	Bid Form and Price Schedule, in accordance with ITB Clause 1.10;
(b)	All the tenders received will first be scrutinized to see whether the tenders meet the basic requirements as incorporated in the tender enquiry document. The tenders, who do not meet the basic requirements, are to be treated as unresponsive and ignored. The following are some of the important points, for which a tender may be declared as unresponsive and to be ignored, during the initial scrutiny:
(i)	The Bid is unsigned
(ii)	The Bidder is not eligible.
(iii)	The Bid validity is shorter than the required period.
(iv)	The Bidder has quoted for goods manufactured by a different firm without the required authority letter from the proposed manufacturer.
(v)	Bidder has not agreed to give the required performance security or has not furnished the bid security.
(vi)	The goods quoted are sub-standard, not meeting the required specification, etc.
(vii)	Against the schedule of Requirement (incorporated in the tender enquiry), the bidder has not quoted for the entire requirement as specified in that schedule.
(viii)	The bidder has not agreed to some essential condition(s) incorporated in the tender enquiry.

1.27 Bidder's right to question rejection.

- 1.27.1 A Bidder shall have the right to be heard in case Bidder feels that a proper procurement process is not being followed and/or tender has been rejected wrongly. Only a directly affected bidder can represent in this regard as under:

i)	Only a bidder who has participated in the concerned procurement process i.e. pre-qualification, bidder registration or bidding, as the case may be, can make such representation;																
ii)	In case pre-qualification bid has been evaluated before the bidding of Technical bids, an application for review in relation to the technical bid may be filed only by a bidder who has qualified in pre-qualification bid;																
iii)	In case technical bid has been evaluated before the opening of the financial bid, an application for review in relation to the financial bid may be filed only by a bidder whose technical bid is found to be acceptable.																
iv)	Following decisions of the purchaser in accordance with the provision of internal guidelines shall not be subject to review: <table><tr><td>a)</td><td>Determination of the need for procurement;</td></tr><tr><td>b)</td><td>Selection of the mode of procurement or bidding system;</td></tr><tr><td>c)</td><td>Choice of selection procedure;</td></tr><tr><td>d)</td><td>Provisions limiting participation of bidders in the procurement process;</td></tr><tr><td>e)</td><td>The decision to enter into negotiations with the L1 bidder;</td></tr><tr><td>f)</td><td>Cancellation of the procurement process except where it is intended to subsequently re-tender the same requirements;</td></tr><tr><td>g)</td><td>Issues related to ambiguity in contract terms may not be taken up after a contract has been signed, all such issues should be highlighted before consummation of the contract by the vendor/contractor; and</td></tr><tr><td>h)</td><td>Complaints against specifications except under the premise that they are either vague or too specific so as to limit competition may be permissible.</td></tr></table>	a)	Determination of the need for procurement;	b)	Selection of the mode of procurement or bidding system;	c)	Choice of selection procedure;	d)	Provisions limiting participation of bidders in the procurement process;	e)	The decision to enter into negotiations with the L1 bidder;	f)	Cancellation of the procurement process except where it is intended to subsequently re-tender the same requirements;	g)	Issues related to ambiguity in contract terms may not be taken up after a contract has been signed, all such issues should be highlighted before consummation of the contract by the vendor/contractor; and	h)	Complaints against specifications except under the premise that they are either vague or too specific so as to limit competition may be permissible.
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h)	Complaints against specifications except under the premise that they are either vague or too specific so as to limit competition may be permissible.																

- 1.27.2 In case a Bidder feels aggrieved by the decision of the purchaser, the Bidder may then send their representation in writing to the Purchaser's address as indicated in Special Conditions of Contract (SCC) **within 05 working days** from the date of communication of the purchaser intimating the rejection for reconsideration of the decision by the purchaser.

1.28 Responsiveness of Bids

- 1.28.1 Prior to the detailed evaluation, the purchaser will determine the substantial responsiveness of each bid to the bidding documents. For purposes of this clause, a substantive responsive bid is one, which conforms to all terms and condition of the bidding documents without material deviations, reservations or omissions. A material deviation, reservation or omission is one that:

(a)	Affects in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or
(b)	Limits in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or
(c)	If rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.

- 1.28.2 The purchasers' determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 1.28.3 If a bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation or omission.
- 1.28.4 If a bidder quotes Nil Charges/consideration, the bid shall be treated as unresponsive and will not be considered.

1.29 Non-Conformity, Error and Omission

- 1.29.1 Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformities or omissions in the Bid that do not constitute a material deviation.
- 1.29.2 Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

- 1.29.3 Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:

(a)	if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
(b)	if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
(c)	if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

- 1.29.4 Provided that a bid is substantially responsive, the purchaser may request that a bidder may confirm the correctness of arithmetic errors as done by the purchaser within a target date. In case, no reply is received then the bid submitted shall be ignored and its Bid Security may be forfeited.

1.30 Examination of Terms & Conditions, Technical Evaluation

- 1.30.1 The Purchaser shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.
- 1.30.2 The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with ITB Clause 1.15, to confirm that all requirements specified in Schedule of Requirements of the Bidding Documents have been met without any material deviation or reservation.
- 1.30.3 If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Bid is not substantially responsive in accordance with ITB Clause 1.28, it shall reject the Bid.

1.31 Conversion to Single Currency

- 1.31.1 To facilitate evaluation and comparison, the Purchaser will convert all quoted prices expressed in various currencies to Indian Rupees at the selling exchange rate established by any bank in India as notified in the Newspapers on the date of bid opening (techno-commercial bid in the case of two-part bidding) For this purpose, exchange rate notified in **www.xe.com** or **www.rbi.org** or any other website could also be used by the purchaser.

1.32 Evaluation and comparison of bids

- 1.32.1 The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.
- 1.32.2 To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined below. No other criteria or methodology shall be permitted.
- 1.32.3 Purchase preference shall be given to all local suppliers in all procurements undertaken by the purchaser in the following manner:

(a)	Where the purchaser has restricted the eligibility of suppliers to Indian suppliers only, as per para 08 of the invitation to bid/NIT. This is applicable only for those items for which the Nodal Ministry has communicated that there is sufficient local capacity and local competition for the cost of procurement up to Rs. 50.00 lakhs.
(b)	If the tendered items are not listed by the Nodal Ministry indicating the local capacity and local competition, the following procedure of evaluation shall be followed, irrespective of value:
(i)	Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a local supplier, the contract for full quantity will be awarded to L1.
(ii)	If L1 bid is not from a local supplier, 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the local suppliers, will be invited to match the L1 price for the remaining 50% quantity, subject to the local supplier 's quoted price which should fall within the margin of purchase preference of 20%. The contract for that quantity shall be awarded to such local supplier, who matches the

		L1 price. In case such lowest eligible local supplier fails to match the L1 price or accepts less than the offered quantity, the next higher local supplier within the margin of purchase preference shall be invited to match the L1 price for the remaining quantity and so on. The contract shall be awarded accordingly. In case some quantity is still left uncovered on the part of local suppliers, the balance quantity may also be ordered to the L1 bidder.
(c)	If the tendered item is not divisible, the following procedure of evaluation shall be followed:	
	(i)	Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a local supplier, the contract will be awarded to L1.
	(ii)	If L1 is not from a local supplier, the lowest bidder among the local suppliers will be invited to match the L1 price, subject to local supplier's quoted price falling within the margin of purchase preference of 20%. Accordingly, the contract shall be awarded to the local supplier matching the L1 price.
	(iii)	In case such lowest eligible local supplier fails to match the L1 price, the local supplier with the next higher bid within the margin of purchase preference shall be invited to match the L1 price. This may be repeated until all the local suppliers are given an opportunity to match the L1 price. The contract shall be awarded accordingly. In case none of the local suppliers within the margin of purchase preference match the L1 price, the contract may be awarded to the L1 bidder.

1.32.4 Further, in tender, where the items are divisible, the participating Micro and Small Enterprises (MSE) quoting price within price band of L1+15 (fifteen) per cent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a MSE and such MSE shall be allowed to supply up to 25 (twenty-five) per cent of total tendered value. The 25 (twenty-five) per cent quantity is to be distributed proportionately among these bidders, in case there are more than one MSMEs within such price band.

1.32.5 Within this 25% (Twenty-five Percent) quantity, a purchase preference of 25 (twenty-five) per cent out of 25 (twenty-five) per cent is reserved for MSEs owned by Scheduled Caste (SC)/Scheduled Tribe (ST) entrepreneurs (if they participate in the tender process and match the L1 price). Further, out of the total annual procurement from the MSEs, (3%) three percent from within the 25% target shall be earmarked for procurement from MSEs owned by women. Provided that, in the event of failure of such SC/ST MSE to participate in tender process or meet tender requirements and L1 price, four per cent sub-target shall be met from other MSE.

1.32.6 In case the items are not divisible, then the MSE quoting price within price band L1 + 15% may be awarded for full/complete supply of total tendered quantity to MSE, considering the spirit of the policy for enhancing the Government procurement from MSEs.

1.32.7 The bids shall be evaluated on the basis of final landing cost which shall be arrived as under:

(a) For Goods manufactured in India

i)	The price of the goods quoted ex-works including all taxes already paid.
ii)	GST and other taxes, if any which will be payable on the goods if the contract is awarded.
iii)	Charges for inland transportation, insurance and other local services required for delivering the goods at the desired destination.
iv)	Wherever applicable, the cost towards the installation, commissioning, spares, extended warranty, AMC/CMC, site preparation and training including any incidental services, if any.

(b) For Goods manufactured abroad

i)	The price of the goods, quoted on FCA (named place of delivery abroad) or FOB (named port of shipment), as specified in the bidding document.
ii)	The charges for insurance and transportation of the goods to the port/place of destination.
iii)	The agency commission etc., if any.
iv)	Wherever applicable, the cost towards the installation, commissioning, spares, extended warranty, AMC/CMC, site preparation and training including any incidental services, if any.

- 1.32.8 The comparison between the indigenous and the foreign offers shall be made on FOB destination basis and CIF/CIP basis respectively. However, the CIF/CIP prices quoted by any foreign bidder shall be loaded further as under:

(a)	Towards customs duty and other statutory levies—as per applicable rates.
(b)	Towards custom clearance, inland transportation etc. - 2% of the CIF/CIP value.

The bidder should give a clear cut breakup of EXW, FOB/FCA, CIF/CIP prices to facilitate proper comparison with the purchaser reserving the right to order on either basis, failing which the bid would be summarily ignored.

- 1.32.9 Orders for imported stores need not necessarily be on FOB/FCA basis rather it can be on the basis of any of the incoterm specified in ICC Incoterms 2010 as may be amended from time to time by the ICC or any other designated authority and favourable to the purchaser.

- 1.32.10 Wherever the price quoted on FOB/FCA and CIF/CIP basis are the same, the Contract would be made on CIF / CIP basis only.

- 1.32.11 The GCC and the SCC shall specify the mode of transport i.e., whether by Air/Sea/Road/Rail.

- 1.32.12 There is **no provision to purchase optional items**. The specifications embodied in the tender documents would be the basis of evaluating the responsiveness of bids received.

- 1.32.13 The Purchaser shall compare all substantially responsive bids to determine the lowest valued bid, in accordance with ITB Clause 1.32.

- 1.32.14 Where there is no mention of packing, forwarding, freight, insurance charges, taxes etc. such offers shall be rejected as incomplete.

1.33 Contacting the Purchaser

- 1.33.1 Subject to ITB Clause 1.25, **no Bidder shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.**

- 1.33.2 Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.

1.34 Post qualification

- 1.34.1 In the absence of pre-qualification, the Purchaser will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 1.14.

- 1.34.2 The determination will take into account the eligibility criteria listed in the bidding documents and will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Purchaser deems necessary and appropriate.

- 1.34.3 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid.

E. AWARD OF CONTRACT

1.35 Negotiations

- 1.35.1 Normally, there shall not be any negotiation. Negotiations, if at all, shall be an exception and only in the case of items with limited source of supply. Negotiations shall be held with the lowest evaluated responsive bidder. Counter offers tantamount to negotiations and shall be treated at par with negotiations in the case of one time purchases.

1.36 Award Criteria

- 1.36.1 Subject to ITB Clause 1.39, the Purchaser will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily. The details of the award would be hosted on the website of the Purchaser and CPPP website <https://etenders.gov.in>.

1.37 Purchaser's right to vary Quantities at Time of Award

- 1.37.1 The Purchaser reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements to the extent of 25% without any change in unit price or other terms and conditions.

1.38 Option Clause

- 1.38.1 The Purchaser reserves the right to increase or decrease the quantity of the required goods up to 25% (Twenty-Five) per cent at any time, till final delivery date (or the extended delivery date of the contract), by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of the delivery period (or the extended delivery period)

1.39 Purchaser's right to accept Any Bid and to reject any or All Bids

- 1.39.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders.

1.40 Notification of Award

- 1.40.1 **Prior to the expiration of the period of bid validity**, the Purchaser will notify the successful bidder in writing by registered letter or by cable or telex or fax or e mail that the bid has been accepted and a separate purchase order shall follow through post.
- 1.40.2 Until a formal contract is prepared and executed, the notification of award should constitute a binding contract.
- 1.40.3 Upon the successful Bidder's **furnishing of the signed Contract Form** and performance security pursuant to ITB Clause 1.43, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security.

1.41 Signing of Contract

- 1.41.1 Promptly after notification, the Purchaser shall send the successful Bidder the Agreement/Purchase Order.
- 1.41.2 Within twenty-one (21) days of date of the Purchase Order, the successful Bidder shall sign, date, and return it to the Purchaser.

1.42 Order Acceptance

- 1.42.1 The successful bidder should submit Order acceptance within 14 days from the date of issue of order/signing of contract, failing which it shall be presumed that the Bidder is not interested and the bid security is liable to be forfeited pursuant to clause 1.16.9 of ITB.
- 1.42.2 The order confirmation must be received within 14 days. However, the Purchaser has the powers to extend the time frame for submission of order confirmation beyond the original date. Even after extension of time, if the order confirmation is not received, the contract is liable to be cancelled provided that the purchaser, on being satisfied that it is not a case of cartelization and the integrity of the procurement process has been maintained, may, for cogent reasons, offer the next successful bidder an opportunity to match the financial bid of the first successful bidder, and if the offer is accepted, award the contract to the next successful bidder at the price bid of the first successful bidder.

1.43 Performance Security

- 1.43.1 Within 21 days of receipt of the notification of award/PO, the Supplier shall furnish performance security (PS) in the amount specified in SCC, valid till 60 days after the warranty period.
- 1.43.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 1.43.3 The Performance Security shall be denominated in Indian Rupees for the offers received for supplies within India and denominated in the currency of the contract in the case of offers received for supply from foreign countries or in equivalent Indian rupees in case the performance security is submitted by the Indian Agent.

1.43.4 In the case of imports, the PS may be submitted either by the principal or by the Indian agent and, in the case of purchases from indigenous sources, the PS may be submitted by either the manufacturer or their authorized dealer/bidder.

1.43.5 The Performance security shall be in one of the following forms:

(a)	A Bank guarantee or stand-by Letter of Credit issued by a Nationalized/ Scheduled bank located in India or a Foreign bank with its operating branch in India in the form provided in the bidding documents or
(b)	A Banker's cheque or Account Payee demand draft in favour of the purchaser issued by any Nationalized/ Scheduled bank or
©	A Fixed Deposit Receipt pledged in favour of the Director, CSIR-NAL, Bengaluru.

1.43.6 The performance security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including any warranty obligations, unless specified otherwise in SCC, without levy of any interest.

1.43.7 In the event of any contract amendment, the supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the performance security, rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter.

1.43.8 The performance security must be received within 21 days. However, the Purchaser has the powers to extend the time frame for submission of Performance Security (PS). Even after extension of time, if the PS is not received, the contract is liable to be cancelled provided that the purchaser, on being satisfied that it is not a case of cartelization and the integrity of the procurement process has been maintained, may, for cogent reasons, offer the next successful bidder an opportunity to match the financial bid of the first successful bidder, and if the offer is accepted, award the contract to the next successful bidder at the price bid of the first successful bidder.

1.43.9 Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then the Bidder should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

1.44. [Pre-bid Conference \(PBC\)](#)

1.44.1 A Pre-Bid Conference shall be held as indicated in invitation to bid, if any. All prospective bidders are requested to kindly attend the Pre-Bid Conference. In order to facilitate the purchaser, the proper conduct of the Pre-Bid Conference, all prospective bidders are requested to kindly submit their queries (with envelope bearing Tender No. and Date on top and marked "Queries for Pre-Bid Conference") so as to reach the purchaser as indicated in invitation to bid. The purchaser shall answer the queries during the pre-bid conference, which would become a part of the proceedings of the Pre-Bid Conference. The proceeding of the Pre Bid Conference would be hosted on the website of the purchaser. Before formulating and submitting their bids, all prospective bidders are advised to surf through the purchaser's website after the Pre-Bid Conference, in order to enable them take cognizance of the revised tender conditions.

1.45. [Integrity Pact](#)

1.45.1 Integrity Pact binds both buyers and sellers to ethical conduct and transparency in all activities from pre-selection of bidders, bidding and contracting, implementation, completion and operation related to the contract.

1.45.2 The Integrity pact essentially envisages an agreement between the prospective vendors/bidders and the buyer, committing the persons/officials of both sides, not to resort to any corrupt practices in any aspect/stage of the contract. Only those vendors/bidders, who commit themselves to such a Pact with the buyer, would be considered competent to participate in the bidding process. In other words, entering into this Pact would be a preliminary qualification. The essential ingredients of the Pact include:

(i)	Promise on the part of the Purchaser to treat all bidders with equity and reason and not to seek or accept any benefit, which is not legally available;
(ii)	Promise on the part of bidders not to offer any benefit to the employees of the Purchaser not available legally and also not to commit any offence under Prevention of Corruption Act, 1988 or Indian Penal Code 1860;

(iii)	Promise on the part of bidders not to enter into any undisclosed agreement or understanding with other bidders with respect to prices, specifications, certifications, subsidiary contracts; etc.
(iv)	Undertaking (as part of Fall Clause) by the bidders that they have not and will not sell the same material/equipment at prices lower than the bid price;
(v)	Foreign bidders to disclose the name and address of agents and representatives in India and Indian Bidders to disclose their foreign principals or associates;
(vi)	Bidders to disclose the payments to be made by them to agents/brokers or any other intermediary;
(vii)	Bidders to disclose any past transgressions committed over the specified period with any other company in India or Abroad that may impinge on the anti-corruption principle;
(viii)	Integrity Pact lays down the punitive actions for any violation.

1.45.3 Each page of such Integrity pact proforma would be duly signed by Purchaser's competent signatory. All pages of the Integrity Pact are to be returned by the bidder (along with the technical bid) duly signed by the same signatory who signed the bid, i.e. who is duly authorized to sign the bid and to make binding commitments on behalf of his company. Any bid not accompanied by Integrity Pact duly signed by the bidder shall be considered to be a non-responsive bid and shall be rejected straightway.

1.45.4 The SCC shall specify whether there is a need to enter into a separate Integrity pact or not.

1.45.5 The Integrity Pact would be effective from the date of invitation of bids till complete execution of the contract.

1.45.6 The names and contact details of the Independent External Monitors (IEM) on the event of the need of IP is as detailed in the SCC.

1.45.7 The modal format of IP is at Chapter-8.

1.46 Assistance to Bidders:

1.46.1 Any queries relating to the Tender Enquiry Document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the NIT.

1.46.2 Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

CHAPTER 2
CONDITIONS OF CONTRACT
A GENERAL CONDITIONS OF CONTRACT (GCC)

Clause No.	Contents	Page No
2.1	Definitions	24
2.2	Contract Documents	24
2.3	Code of Integrity	24
2.4	Joint Venture, Consortium or Association	25
2.5	Scope of Supply	25
2.6	Suppliers' Responsibilities	25
2.7	Contract price	25
2.8	Copy Right	25
2.9	Application	25
2.10	Standards	25
2.11	Use of Contract Documents and Information	25
2.12	Patent Indemnity	26
2.13	Performance Security	26
2.14	Inspections and Tests	27
2.15	Packing	27
2.16	Delivery and Documents	27
2.17	Insurance	28
2.18	Transportation	29
2.19	Incidental Services	29
2.20	Spare Parts	29
2.21	Warranty	29
2.22	Terms of Payment	30
2.23	Change Orders and Contract Amendments	30
2.24	Assignment	30
2.25	Subcontracts	30
2.26	Extension of time	30
2.27	Liquidated Damages	31
2.28	Termination for Default	31
2.29	Force Majeure	31
2.30	Termination for insolvency	31
2.31	Termination for Convenience	32
2.32	Settlement of Disputes	32
2.33	Governing Language	32
2.34	Applicable Law	33
2.35	Notice	33
2.36	Taxes and Duties	33
2.37	Right to use Defective Goods	33
2.38	Protection against Damage	33
2.39	Site preparation and installation	33
2.40	Import and Export Licenses	34
2.41	Risk Purchase Clause	34
2.42	Option Clause	34
2.43	Integrity Pact	34
2.44	Order Acceptance	34

Note: The General Conditions of Contract shall form the part of Purchase Order / Contract.

GENERAL CONDITIONS OF CONTRACT (GCC)

2.1 Definitions

2.1.1 The following words and expressions shall have the meanings hereby assigned to them:

Sr. No.	Words / Expressions	Meaning
(a)	Contract	The Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
(b)	Contract Documents	The documents listed in the Contract Agreement, including any amendments thereto.
©	Contract Price	The price payable to the Bidder as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
(d)	Day	Calendar day
©	Completion	The fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
(f)	GCC	The General Conditions of Contract.
(g)	Goods	All of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract
(h)	Services	The services incidental to the supply of the goods, such as transportation, insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.
(i)	SCC	The Special Conditions of Contract.
(j)	Subcontractor	Any natural person, private or government entity, or a combination of the above, to which any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
(k)	Bidder	The natural Person, Private or Government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
(l)	Council	The Council of Scientific & Industrial Research (CSIR), registered under the Societies Registration Act, 1860 of the Government of India having its registered office at 2, Rafi Marg, New Delhi-110001, India.
(m)	Purchaser	Any of the constituent Laboratory/Institute of the Council situated at any designated place in India as specified in SCC
(n)	The final destination	The place named in the SCC.

2.2 Contract Documents

2.2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

2.3 Code of Integrity

2.3.1 Without prejudice to and in addition to the rights of the Purchaser to other penal provisions as per the bid documents or contract, if the Purchaser comes to a conclusion that a (prospective) bidder/supplier, directly or through an agent, has violated this code of integrity in competing for the contract or in executing a contract, the Purchaser may take appropriate measures including one or more of the following:

a)	Cancellation of the relevant contract and recovery of compensation for loss incurred by the purchaser;
b)	Forfeiture or encashment of any other security or bond relating to the procurement;
c)	Recovery of payments including advance payments, if any, made by the Purchaser along with interest thereon at the prevailing rate.

d)	Provisions in addition to above:	
	1)	Removal from the list of registered suppliers and banning/debarment of the bidder from participation in future procurements of the purchaser for a period not less than one year;
	2)	In case of anti-competitive practices, information for further processing may be filed under a signature of the Joint Secretary level officer, with the Competition Commission of India;
	3)	Initiation of suitable disciplinary or criminal proceedings against any individual or staff found responsible

2.4 [Joint Venture, Consortium or Association](#)

- 2.4.1 If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

2.5 [Scope of Supply](#)

- 2.5.1 The Goods and Related Services to be supplied shall be as specified in Chapter 4 i.e. Specifications and allied technical details.

2.6 [Suppliers' Responsibilities](#)

- 2.6.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with Scope of Supply Clause of the GCC, and the Delivery and Completion Schedule, as per GCC Clause relating to delivery and document.

2.7 [Contract price](#)

- 2.7.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid.

2.8 [Copy Right](#)

- 2.8.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

2.9 [Application](#)

- 2.9.1 These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

2.10 [Standards](#)

- 2.10.1 The Goods supplied and services rendered under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution.

2.11 [Use of Contract Documents and Information](#)

- 2.11.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.
- 2.11.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated above except for purposes of performing the Contract.

- 2.11.3 Any document, other than the Contract itself, enumerated above shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

2.12 Patent Indemnity

- 2.12.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 2.12.2 Indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

(a)	the installation of the Goods by the Supplier or the use of the Goods in India; and
(b)	the sale in any country of the products produced by the Goods

- 2.12.2 If any proceedings are brought or any claim is made against the Purchaser, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

2.13 Performance Security

- 2.13.1 Within 21 days of receipt of the notification of award/PO, the Supplier shall furnish performance security in the amount specified in SCC, valid till 60 days after the warranty period.
- 2.13.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 2.13.3 The Performance Security shall be denominated in Indian Rupees for the offers received for supplies within India and denominated in the currency of the contract in the case of offers received for supply from foreign countries or in equivalent Indian Rupees in case the Performance Security is submitted by the Indian Agent.
- 2.13.4 In the case of imports, the PS may be submitted either by the principal or by the Indian agent and, in the case of purchases from indigenous sources, the PS may be submitted by either the manufacturer or their authorized dealer/bidder.

- 2.13.5 The Performance security shall be in one of the following forms:

(a)	A Bank guarantee or stand-by Letter of Credit issued by a Nationalized/ Scheduled bank located in India or a Foreign bank with its operating branch in India in the form provided in the bidding documents or
(b)	A Banker's cheque or Account Payee demand draft in favour of the purchaser issued by any Nationalized/ Scheduled bank or
©	A Fixed Deposit Receipt pledged in favour of the Director, CSIR-NAL, Bengaluru.

- 2.13.6 The performance security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including any warranty obligations, unless specified otherwise in SCC, without levy of any interest.
- 2.13.7 In the event of any contract amendment, the supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the performance security, rendering the same valid for the duration of the contract, as amended for further period of 60 days thereafter.
- 2.13.8 The order confirmation must be received within 14 days. However, the Purchaser has the powers to extend the time frame for submission of order confirmation and submission of Performance Security (PS). Even after extension of time, if the order confirmation /PS are not received, the contract shall be cancelled provided that the purchaser, on being satisfied that it is not a case of cartelization and the integrity of the procurement process has been maintained, may, for cogent reasons, offer the next successful bidder an opportunity to match the financial bid of the first successful bidder, and if the offer is accepted, award the contract to the next successful bidder at the price bid of the first successful bidder.

- 2.13.9 Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then Bidder should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

2.14 Inspections and Tests

- 2.14.1 The inspections & test, training required would be as detailed in Chapter-4 of the Bidding Document relating to Specification and Allied Technical details.

2.15 Packing

- 2.15.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- 2.15.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements are as given below or /and as specified in SCC and in any subsequent instructions ordered by the Purchaser:

The marking and documentation within and outside the packages shall be:

(a)	Each package should have a packing list within it detailing the part No(s), description, quantity etc.
(b)	Outside each package, the contract No., the name and address of the purchaser and the final destination should be indicated on all sides and top.
©	Each package should be marked as 1/x, 2/x, 3/x.....x/x, where "x" is the total No. of packages contained in the consignment
(d)	All the sides and top of each package should carry an Appropriate indication/ label/ stickers indicating the precautions to be taken while handling/storage.

2.16 Delivery and Documents

- 2.16.1 Delivery of the Goods and completion and related services shall be made by the supplier in accordance with the terms specified by the Purchaser in the contract. The details of shipping and/or other documents are given below or/and to be furnished by the supplier are specified in SCC.

Details of Shipping and other Documents to be furnished by the Bidder are :	
A)	For goods manufactured or supplied within India
	Within 24 hours of dispatch, the Supplier shall notify the purchaser the complete details of dispatch and also supply following documents by registered post / speed post and copies thereof by FAX/email
(a)	Two copies of Supplier's Invoice indicating, inter-alia description and specification of the goods, quantity, unit price, total value
(b)	Packing list
©	Certificate of country of origin
(d)	Insurance certificate, if required under the contract
©	Railway receipt/Consignment note
(f)	Manufacturer's warrantee certificate and in-house inspection certificate, if any
(g)	Inspection certificate issued by purchaser's inspector, if any
(h)	Any other document(s) as and when required in terms of the contract
NOTE:	
1	The nomenclature used for the item description in the invoice(s), packing list(s) and the delivery note(s) etc. should be identical to that used in the contract. The dispatch particulars including the name of the transporter should also be mentioned in the Invoice(s).
2	The above documents should be received by the Purchaser before arrival of the Goods and, if not received, the Bidder will be responsible for any consequent expenses.

B)	For goods manufactured or supplied from abroad
	Within 24 hours of dispatch, the Supplier shall notify the purchaser the complete details of dispatch and also supply following documents by Registered Post / Courier and copies thereof by FAX/Email.
(a)	Two copies of Bidder's Invoice giving full details of the goods including quantity, value, etc.
(b)	Packing list
©	Certificate of country of origin
(d)	Manufacturer's guarantee and Inspection certificate, if any
©	Inspection certificate issued by the Purchaser's Inspector, if any
(f)	Insurance Certificate, if required under the contract
(g)	Name of the Vessel / Carrier
(h)	Bill of Lading / Airway Bill
(i)	Port of Loading
(j)	Date of Shipment
(k)	Port of Discharge & expected date of arrival of goods
(l)	Any other document(s) as and when required in terms of the contract
NOTE:	
1	The nomenclature used for the item description in the invoice(s), packing list(s) and the delivery note(s) etc. should be identical to that used in the contract. The dispatch particulars including the name of the transporter should also be mentioned in the Invoice(s).
2	The above documents should be received by the Purchaser before arrival of the Goods and, if not received, the Bidder will be responsible for any consequent expenses.
3	The clearing of the consignment at Bengaluru Airport shall be done by our authorized Custom House Agents (CHA). The corresponding shipping documents may be forwarded to them accordingly. It is advised to give us and our CHA, a pre-alert before the consignment is dispatched. If there is delay in clearing of the consignment for <u>not</u> giving timely pre-alert then demurrage (Ware house charges), if applicable has to be refunded to us.

2.16.2 The terms FOB, FCA, CIF, CIP, etc. shall be governed by the rules prescribed in the current edition of the Incoterms published by the International Chambers of Commerce, Paris.

2.16.3 The mode of transportation shall be as specified in SCC. In case the purchaser elects to have the transportation done through Air, then air lifting needs to be done through Air India only. In case Air India does not operate in the Airport of dispatch, then the bidder is free to engage the services of any other Airlines.

2.16.4 High-sea sales delivery-term is not acceptable.

2.17 Insurance

2.17.1 Should the purchaser elect to buy on CIF/CIP basis, the Goods supplied under the Contract shall be fully insured against any loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in SCC.

2.17.2 Where delivery of the goods is required by the purchaser on CIF or CIP basis the supplier shall arrange and pay for Cargo Insurance, naming the purchaser as beneficiary and initiate & pursue claims till settlement, on the event of any loss or damage.

2.17.3 Where delivery is on FOB or FCA basis, insurance would be the responsibility of the purchaser.

2.17.4 With a view to ensure that claims on insurance companies, if any, are lodged in time, the bidders and /or the Indian agent shall be responsible for follow up with their principals for ascertaining the dispatch details and informing the same to the Purchaser and he shall also liaise with the Purchaser to ascertain the arrival of the consignment after clearance so that immediately thereafter in his presence the consignment could be opened and the insurance claim be lodged, if required, without any loss of time. Any delay on the part of the bidder/Indian Agent would be viewed seriously and he shall be directly responsible for any loss sustained by the purchaser on the event of the delay.

2.18 Transportation

- 2.18.1 Where the Supplier is required under the Contract to deliver the Goods FOB, transport of the Goods, up to and including the point of putting the Goods on board the vessel at the specified port of loading, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract price. Where the Supplier is required under the Contract to deliver the Goods FCA, transport of the Goods and delivery into the custody of the carrier at the place named by the Purchaser or other agreed point shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.
- 2.18.2 Where the Supplier is required under the Contract to deliver the Goods CIF or CIP, transport of the Goods to the port of destination or such other named place of destination in the Purchaser's country, as shall be specified in the Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.
- 2.18.3 In the case of supplies from within India, where the Supplier is required under the Contract to transport the Goods to a specified destination in India, defined as the Final Destination, transport to such destination, including insurance and storage, as specified in the Contract, shall be arranged by the Supplier, and the related costs shall be included in the Contract Price.

2.19 Incidental Services

- 2.19.1 The supplier may be required to provide any or all of the services, including training, if any, specified in chapter 4.

2.20 Spare Parts

- 2.20.1 The Supplier shall be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

(a)	Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
(b)	In the event of termination of production of the spare parts:
(i)	Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and
(ii)	Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

2.21 Warranty

- 2.21.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 2.21.2 The Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.
- 2.21.3 Unless otherwise specified in the SCC, the warranty shall remain valid for Twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the SCC, or for Eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.
- 2.21.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 2.21.5 Upon receipt of such notice, the Supplier shall, within a reasonable period of time, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 2.21.6 If having been notified, the Supplier fails to remedy the defect within a reasonable period of time; the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

2.21.7 Goods requiring warranty replacements must be replaced on free of cost basis to the purchaser.

2.22 Terms of Payment

2.22.1 The method and conditions of payment to be made to the Supplier under this Contract shall be as specified in the SCC.

2.22.2 The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to Delivery and document Clause of the GCC and upon fulfilment of other obligations stipulated in the contract.

2.22.3 Payments shall be made promptly by the Purchaser but in no case later than thirty (30) days after submission of the invoice or claim by the Supplier. While claiming the payment, the supplier should certify in the bill/invoice that the payment being claimed strictly in terms of the contract and all obligations on the part of the supplier for claiming the payment have been fulfilled as required under the contract.

2.22.4 Payment shall be made in currency as indicated in the contract.

2.23 Change Orders and Contract Amendments

2.23.1 The Purchaser may at any time, by written order given to the Supplier pursuant to Clause on Notices of the GCC make changes within the general scope of the Contract in any one or more of the following:

(a)	Increase or decrease in the quantity required, exercise of quantity opinion clause;
(b)	Changes in schedule of deliveries and terms of delivery;
©	The changes in inspection arrangements;
(d)	Changes in terms of payments and statutory levies;
©	Changes due to any other situation not anticipated;

2.23.2 No changes in the price quoted shall be permitted after the purchase order has been issued except on account of statutory variations.

2.23.3 No variation or modification in the terms of the contract shall be made except by written amendment signed by the parties.

2.24 Assignment

2.24.1 The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

2.25 Subcontracts

2.25.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the Supplier from any liability or duties or obligation under the contract.

2.26 Extension of time.

2.26.1 Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser.

2.26.2 If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the supplier's time for performance with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.

2.26.3 Except as provided under the Force Majeure clause of the GCC, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to liquidated damages Clause of the GCC unless an extension of time is agreed upon pursuant to above clause without the application of penalty clause.

2.27 [Liquidated Damages](#)

- 2.27.1 Subject to GCC Clause on Force Majeure, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services or contract value in case the delivered price of the delayed goods or unperformed services cannot be ascertained from the contract, for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the Percentage specified in SCC. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause on Termination for Default.

2.28 [Termination for Default](#)

- 2.28.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part

(a)	If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause on Extension of Time; or
(b)	If the Supplier fails to perform any other obligation(s) under the Contract.
©	If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent or collusive or coercive practices etc as defined in GCC Clause and ITB clause on code of integrity in competing for or in executing the Contract.

- 2.28.2 In the event the purchaser terminates the contract in whole or in part, he may take recourse to any one or more of the following action:

(a)	The Performance Security is to be forfeited;
(b)	The purchaser may procure, upon such terms and in such manner as it deems appropriate, stores similar to those undelivered, and the supplier shall be liable for all available actions against it in terms of the contract.
©	However, the supplier shall continue to perform the contract to the extent not terminated.

2.29 [Force Majeure](#)

- 2.29.1 Notwithstanding the provisions of GCC Clauses relating to extension of time, Liquidated damages and Termination for Default the Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 2.29.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 2.29.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof within 21 days of its occurrence. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 2.29.4 If the performance in whole or in part or any obligations under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 60 days, either party may at its option terminate the contract without any financial repercussions on either side.

2.30 [Termination for Insolvency](#)

- 2.30.1 The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

2.31 Termination for Convenience

2.31.1 The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

2.31.2 The Goods that are complete and ready for shipment within 30 days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

(a)	To have any portion completed and delivered at the Contract terms and prices; and/or
(b)	To cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

2.32 Settlement of Disputes

2.32.1 The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

2.32.2 If, after twenty-one (21) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.

2.32.3 The dispute settlement mechanism/arbitration proceedings shall be concluded as under:

(a)	If any dispute or difference arises between the parties hereto as to the construction, interpretation, effect and implication of any provision of this agreement including the rights or liabilities or any claim or demand of any party against other or in regard to any other matter under these presents but excluding any matters, decisions or determination of which is expressly provided for in this Agreement, such disputes or differences shall be referred to an Arbitral Bench consisting of three Arbitrators, one each to be appointed by each party and the two Arbitrators shall appoint a third Arbitrator who shall be the presiding Arbitrator. A reference to the Arbitration under this Clause shall be deemed to be submission within the meaning of the Arbitration and Conciliation Act, 1996 and the rules framed thereunder for the time being in force. Each party shall bear and pay its own cost of the arbitration proceedings unless the Arbitrators otherwise decides in the Award.
(b)	In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

2.32.4 The venue of the arbitration shall be the place from where the purchase order or contract is issued.

2.32.5 Notwithstanding, any reference to arbitration herein,

(a)	The parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
(b)	the Purchaser shall pay the Supplier any monies due the Supplier.

2.33 Governing Language

2.33.1 The contract shall be written in English language which shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the English language only.

2.34 [Applicable Law](#)

2.34.1 The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction as specified in SCC.

2.35 [Notices](#)

2.35.1 Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by cable, telex, FAX, e-mail or and confirmed in writing to the other party's address specified in the SCC.

2.35.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

2.36 [Taxes and Duties](#)

2.36.1 For goods manufactured outside India, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside India.

2.36.2 For goods Manufactured within India, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred till its final manufacture/production.

2.36.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in India, the Purchaser shall make its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent without any commitment.

2.36.4 **All payments due under the contract shall be paid after deduction of statutory levies (at source) (like TDS, IT, etc.) wherever applicable.**

2.36.5 Customs Duty:

a) If the supply is from abroad this Institute is permitted to import goods as per notification No.51/96 – Customs and pay a concessional duty up to 5% plus surcharges, if any as per notification 24/2002 – Customs on all imports.

b) The Certificates is issued without any commitment by CSIR-NAL. Hence, the supplier should ensure its applicability for their own interest.

2.36.6 GST

(a) The Purchaser is registered with Dept. of Scientific & Industrial Research, Govt. of India and concessional customs duty and GST & IGST are leviable vide notification No. 54/2002-Customs on all imports covered under Notification No.51/96-Customs dated 23.07.1996, Notification No.47/2017-Integrated Tax (Rate) and Notification No. 45/2017-Central Tax (Rate) both dated 14th November, 2017.

(b) The Certificates is issued without any commitment by CSIR-NAL. Hence, the supplier should ensure its applicability for their own interest.

2.37 [Right to use Defective Goods](#)

2.37.1 If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.

2.38 [Protection against Damage](#)

2.38.1 The system shall not be prone to damage during power failures and trip outs. The normal voltage and frequency conditions available at site as under:

(a)	Voltage 230 volts – Single phase/ 415 V 3 phase (+_ 10%)
(b)	Frequency 50 Hz.

2.39 [Site preparation and installation](#)

2.39.1 The Purchaser is solely responsible for the construction of the equipment sites in compliance with the technical and environmental specifications defined by the Supplier. The Purchaser will designate

the installation sites before the scheduled installation date to allow the Supplier to perform a site inspection to verify the appropriateness of the sites before the installation of the Equipment, if required. The supplier shall inform the purchaser about the site preparation, if any, needed for installation, of the goods at the purchaser's site immediately after notification of award/contract.

2.40 [Import and Export Licenses](#)

- 2.40.1 If the ordered materials are covered under restricted category of EXIM policy in India the Bidder/ Agent may intimate such information for obtaining necessary, license in India.
- 2.40.2 If the ordered equipment is subject to Bidder procuring an export license from the designated government agency / country from where the goods are shipped / sold, the vendor has to mention the name, address of the government agency / authority. The Bidder must also mention the time period within which the license will be granted in normal course.

2.41 [Risk Purchase Clause](#)

- 2.41.1 If the supplier fails to deliver the goods within the maximum delivery period specified in the contract or Purchase Order, the purchaser may procure, upon such terms and in such a manner as it deems appropriate, Goods or Services similar to those undelivered and the Supplier shall be liable to the purchaser for any excess costs incurred for such similar goods or services.

2.42 [Option Clause](#)

- 2.42.1 The Purchaser reserves the right to increase or decrease the quantity of the required goods up to 25% (Twenty-Five) per cent at any time, till final delivery date (or the extended delivery date of the contract), by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of the delivery period (or the extended delivery period)

2.43 [Integrity Pact](#)

- 2.43.1 The SCC shall specify whether there is a need to enter into a separate Integrity pact or not.
- 2.43.2 The names and contact details of the Independent External Monitors (IEM) on the event of the need of IP is as detailed in the SCC.

2.44 [Order Acceptance](#)

- 2.44.1 The successful bidder should submit Order acceptance **within 14 days from the date of issue of order/signing of contract**, failing which it shall be presumed that the Bidder is not interested and his bid security is liable to be forfeited pursuant to clause 1.16.9 of ITB.

CHAPTER 2

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

Sl.No.	GCC Clause Ref	Condition						
1	GCC 2.1.1(l)	<p>The Purchaser is: The Director CSIR- National Aerospace Laboratories HAL Airport Road, Kodihalli, Bengaluru – 560017 Karnataka-India Tel #: 00 91 80 2508 6040/6041/6044 Fax #: 00 91 80 25269611 Email: purchasek@nal.res.in/mkala@nal.res.in</p> <p>Bill to address is same as above</p>						
2	GCC 2.1.1(m)	<p>The Final Destination is: CSIR- National Aerospace Laboratories HAL Airport Road, Kodihalli, Bengaluru – 560017 Karnataka-India Tel #: 00 91 80 2508 6040/6041/6044 Fax #: 00 91 80 25269611 Email: purchasek@nal.res.in/mkala@nal.res.in</p>						
3	GCC 2.13.1	<p>Performance Security</p> <p>The amount of the Performance Bank Guarantee shall be Three Percent (3 %) of the contract value to be submitted within 21 days from the date of PO valid up to 60 days after the date of completion of performance obligations including warranty obligations.</p>						
4	GCC 2.16.3	<p>Delivery – Mode of Transportation/Shipment</p> <table><tr><td>a)</td><td>In case of supplies from within India, the mode of transportation shall be by Road.</td></tr><tr><td>b)</td><td>In case of supplies from abroad, the mode of transportation shall be by AIR</td></tr></table>	a)	In case of supplies from within India, the mode of transportation shall be by Road .	b)	In case of supplies from abroad, the mode of transportation shall be by AIR		
a)	In case of supplies from within India, the mode of transportation shall be by Road .							
b)	In case of supplies from abroad, the mode of transportation shall be by AIR							
5	GCC 2.17.1	<p>Insurance</p> <p><u>From Abroad</u> The Insurance shall be for an amount equal to 110% of the CIF or CIP value of the contract from within “warehouse to warehouse (final destination)” on “all risk basis” including strikes, riots and civil commotion.</p> <p><u>Within India</u> The Insurance shall be for an amount equal to 110% of the invoice value of the contract from “warehouse to warehouse (final destination)” on “all risk basis” including strikes, riots and civil commotion.</p>						
6	GCC 2.21.3	<p>The period of validity of the Warranty shall be</p> <p>The warranty shall remain valid for One Year (12 months) from the date of Installation, Commissioning and acceptance.</p>						
7	GCC 2.22.1	<p>Payment Terms</p> <p>The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:</p> <table><tr><td>A</td><td>Payment for Goods supplied from abroad</td></tr><tr><td></td><td>Payment of foreign currency portion shall be made in currency of the Contract in the following manner</td></tr><tr><td>(a)</td><td>On Shipment: Ninety percent (90%) of the Contract Price of the Goods shipped shall be paid through irrevocable letter of credit opened in favour of the Supplier in a bank in its country, upon submission of documents specified in GCC Clause 2.16</td></tr></table>	A	Payment for Goods supplied from abroad		Payment of foreign currency portion shall be made in currency of the Contract in the following manner	(a)	On Shipment: Ninety percent (90%) of the Contract Price of the Goods shipped shall be paid through irrevocable letter of credit opened in favour of the Supplier in a bank in its country, upon submission of documents specified in GCC Clause 2.16
A	Payment for Goods supplied from abroad							
	Payment of foreign currency portion shall be made in currency of the Contract in the following manner							
(a)	On Shipment: Ninety percent (90%) of the Contract Price of the Goods shipped shall be paid through irrevocable letter of credit opened in favour of the Supplier in a bank in its country, upon submission of documents specified in GCC Clause 2.16							

		(b)	On Acceptance: Ten percent (10%) of the Contract Price of Goods received shall be paid on successful installation, commissioning & training upon submission of claim supported by the acceptance certificate issued by the Purchaser subject to validity of Performance Security, if any.
		(c)	The LC for 100% value of the contract shall be established after deducting the agency commission payable if any, to the Indian agent from the FOB/FCA value.
		(d)	<ul style="list-style-type: none"> ➤ The L/C will be confirmed at the suppliers cost, if requested specifically by the supplier. ➤ All bank charges abroad shall be to the account of the beneficiary i.e. supplier and all bank charges in India shall be to the account of the opener i.e. purchaser. ➤ If L/C is requested to be extended/ reinstated for reasons not attributable to the purchaser, the charges thereof would be to the suppliers' account. ➤ Payment of local currency portion shall be made in Indian Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed.
		B	Payment for Goods and Services supplied from India
			The payment shall be made in Indian Rupees, as follows:
		(a)	100% after Supply, Installation, Commissioning, Training and Acceptance, subject to validity of Performance Security to cover warranty obligations
		(b)	100% through Inland Letter of Credit opened in favour of supplier through CSIR-NAL Bank (State Bank of India), will be decided, as the case may be.
		(c)	E-Payment: All payments, CSIR-NAL prefers to make Electronic Transfers (RTGS) through State Bank Of India, NAL Branch, Bengaluru.
		(e)	All payments due under the Contract shall be paid after deduction of statutory levies at source (like TDS, Income Tax, etc.), wherever applicable.
8	GCC 2.27.1		Liquidated Damages
		(a)	If the Supplier fails to Supply, Install and Commission the system as per specifications mentioned in the order within the due date including training, the Supplier is liable to pay penalty of 0.5% of order value per week or part of a week.
		(b)	The maximum amount of penalty shall be 10%
9	GCC 2.34.1		Applicable Law / Jurisdiction
			The place of jurisdiction is Bengaluru, India.
10	GCC 2.35.1		<p>For notices, the Purchaser's address is</p> <p>The Director Attention: The Controller of Stores & Purchase CSIR- National Aerospace Laboratories PB No.1779, HAL Airport Road, Kodihalli, Bengaluru – 560017 Karnataka-India Tel #: 00 91 80 25086040/6041/6044 Fax #: 00 91 80 25269611 Email: purchasek@nal.res.in, mkala@nal.res.in</p>
11	GCC 2.43.1		Integrity Pact – The integrity pact is to be signed on Company's Letterhead.
12	GCC 2.43.2		<p>The name and contact details of the IEMs are as under:</p> <p>Shri Anand Deep Flat No.804, Prithvi Ratan Green Apartments 7/172, Swaroopnagar Kanpur – 2080 005 Email: anand.deep117@gmail.com</p>

CHAPTER 3

(To be filled by the bidder and enclosed with the Technical Bid)

SCHEDULE OF REQUIREMENT

The Schedule of Requirement must clearly specify **the time frame required (Schedule) for delivery of goods and services to be completed** by the bidder (in reference to Scope of Supply given in Clause-4.2 of Chapter-4) if the Contract is awarded for the offer / proposal submitted by the bidder in response to this Tender.

A) Delivery Schedule:

Sr. No.	Brief Description of Goods and Services	Quantity & Unit	Delivery Schedule

B) Period of delivery shall start from : _____

C) Term of Delivery / Delivery Term (named port of shipment or named place of delivery:

Goods from Abroad	
Goods from India	

D) Scope of Supply:

E) Time frame required for conducting installation, commissioning of the equipment, acceptance test, training, etc. after the arrival of consignment or before dispatch of equipment:

Sr. No.	Activity	Time Frame
1	Site Preparation (if required)	
2	Installation & Commissioning	
3	Acceptance Test	
4	Training (Location, No. of persons, period of training, nature of training)	
5		

Place : _____

Signature of the Bidder : _____

Date : _____

Notes for Bidders:

(1)	The delivery schedule shall clearly indicate the time period within which the successful bidder must deliver the consignment in full from the date of establishment of LC or from the date of contract or from the date of advance payment etc. It should also indicate separately the time period desired for installation and commissioning of the equipment after arrival of the consignment at the premises of the Purchaser.
(2)	The date or period for delivery should be carefully specified, taking into account
(3)	The implications of delivery terms stipulated in the Instructions to Bidders pursuant to the Incoterms rules (i.e., EXW, or CIF, CIP, FOB, FCA terms—that “delivery” takes place when goods are delivered to the carriers), and
(4)	The date prescribed herein from which the delivery obligations start (i.e., notice of award, contract signature, opening or confirmation of the letter of credit, date of releasing advance payment etc.).

Chapter 4

Specifications and Allied Technical Details for Design, Development and Supply of Line Replacement Units of Fuel System for Tractor Aircraft with High Wing Mounted PT6A-67A Engine

4.1 End Use:

Tractor propeller configured SARAS Mark-II Aircraft

4.2 Detailed Specifications

4.2.1 Introduction:

Organization Background

National Aerospace Laboratories (NAL), a constituent of the Council of Scientific and Industrial Research (CSIR), India, established in the year 1959 is the only government aerospace R&D laboratory in the country's civilian sector. CSIR-NAL is a high-technology oriented institution focussing on advanced disciplines in aerospace. CSIR-NAL has several advanced test facilities, and many of them are recognized as National Facilities. These are not only the best in the country, but are also comparable to other similar facilities in the world. CSIR-NAL has provided significant value-added inputs to all the Indian national aerospace programmes. Its contributions over the last six decades have enabled it to create a niche for itself in advanced aerospace research and technology development. CSIR-NAL has also developed many critical technologies for the strategic sector and continues to support the mission-mode programmes of the country.

CSIR-NAL's mandate is to develop aerospace technologies with strong science content, design and build small, medium sized civil aircraft, and support all national aerospace programmes

Project SARAS Mk-II

CSIR-National Aerospace Laboratories (CSIR-NAL) has embarked on design and development of tractor configuration of 19-seater turboprop 'SARAS Mk II' passenger aircraft for commuter application.

A suitable fuel system is required to supply uninterrupted fuel at the required rate and pressure to the engines under all likely operating conditions of the aircraft. The design of the fuel system and its components is governed by the relevant paragraphs of FAR-23 and should meet the requirements of Top-Level Aircraft Requirements (TLAR), also the system should be compatible with Pratt and Whitney Canada PT6A-67A engine. The system must be included with pressure refuelling/defueling system, vent system, supply system, inter tank fuel transfer system, fuel gauging system and warning and indication system.

This Document is prepared for design, development and supply for SARAS MK II fuel system's Line Replacement Units (LRU's). Off-shelf & qualified/proven in similar platforms (similar class of aircrafts certified under CS23/FAR23 or equivalent) fuel system LRU's are preferred.

4.2.2 Scope of Work: Fuel System Design, Development, Testing & LRU's Supply for SARAS Mk II Tractor Aircraft

4.2.2.1 System Requirement

System General Requirements:

- The design of the fuel system and its components should be governed by the relevant paragraphs of FAR 23/CS 23/Equivalent, LRU's & Equipment's to RTCA DO160 (latest revision) and low-level warning requirements and velocities in fuel pipes and at discharge ports as per AFGS-87154A/JSSG 2009 latest rev.

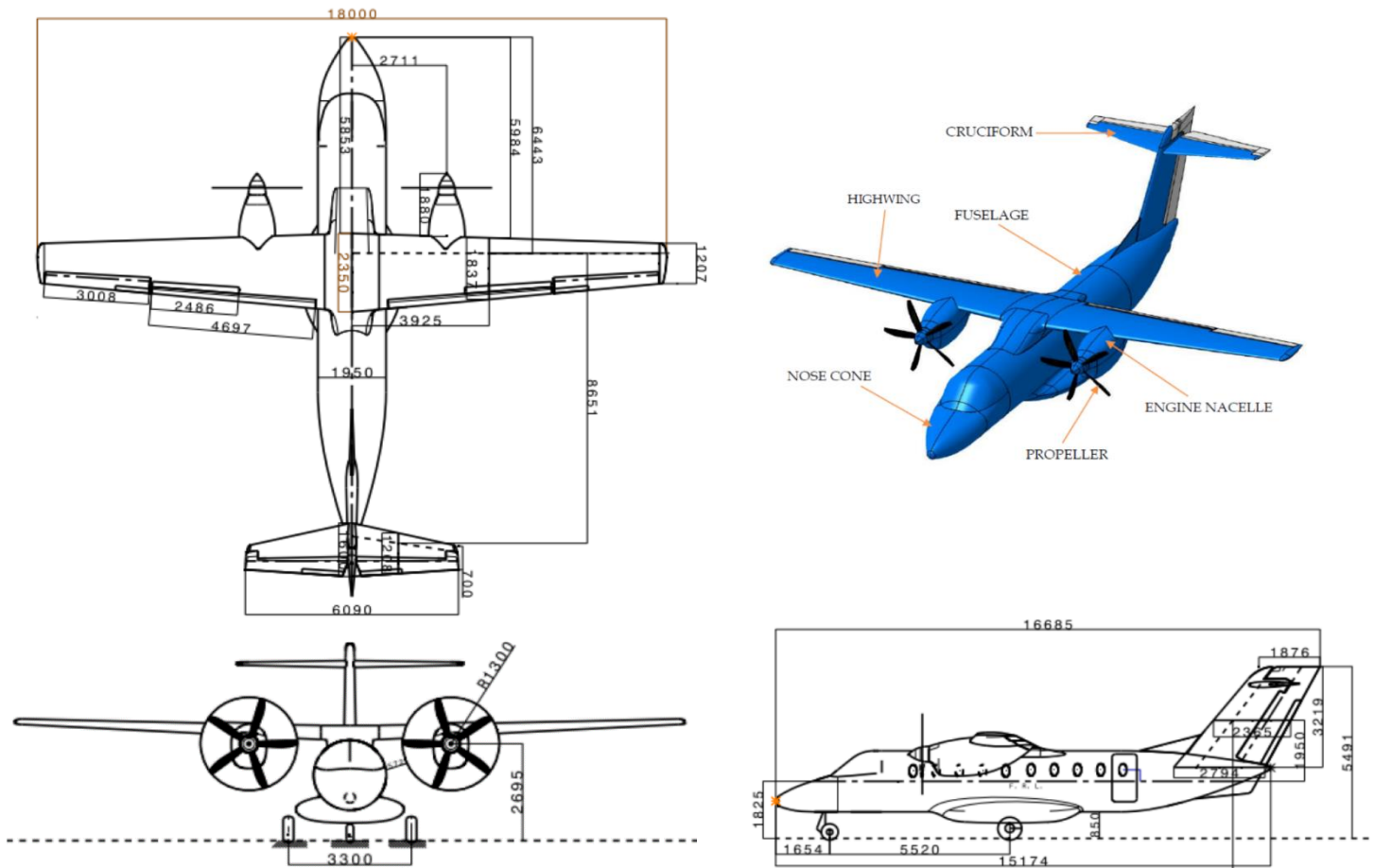
- Fuel system and LRU's should be compatible with P&WC PT6A-67A engine recommendations as specified by P&WC design guidelines. Suction feed capability as per ARP 492 C (or latest revision).
- The fuel system must prevent ignition of fuel vapour due to lightning.
- It should be capable of single point pressure refuelling/defueling.
- Should have the capability of gauging, monitoring and proper indication of the fuel with ARINC 429 data protocol.
- Cross-feed fuel transfer system.
- The system should have vent valve to vent out air to vent tank. (with minimum fuel loss in conditions of extreme manoeuvres)
- Refuel/defuel valve should be electromechanically controlled.
- Fuel filter should have full flow bypass capability and impending bypass indication available in cockpit.
- Essential fuel measuring instruments must be incorporated to signal the pilots about the fuel conditions such as fuel pressure, fuel temperature, fuel quantity and rate of fuel flow etc.
- It must have fuel and water drain ports in collector, main tank and auxiliary tank.
- Hydraulic pressure loss in the plumbing should be minimum.
- The fuel system must consist of four booster pumps (two in collector tank and two in auxiliary tank), one motive flow jet pump per collector tank.
- Each auxiliary tank must have a separate fuel transfer booster pump to transfer fuel to the main tank.
- Fuel system must accommodate the non-return valves to restrict the return flow of fuel wherever necessary.
- LRUs that are fitted in the fuel system which would be affected by direct lightning strikes (with respect to shock prone areas of aircraft) must be safe from lightning affects.
- Each vent system must incorporate flame arrestor to prevent any fire seepage into the tank due to lightning strikes.
- System & LRU's must meet bio-degradable fuel compatibility requirements.

The general dimensions of SARAS Mk II configuration are shown in Table 1 and schematic diagram is shown in Figure 1& 2.

Table 1. General Dimension of SARAS Mk II

Wing	
Area,m ²	30
Span,m	18
Aspectratio	10
Dihedral,deg	2
Fuselage	
Length,m	15
MaximumWidth,m	2.0
Wheelbase,m	5.0

Figure 1. SARAS Mk II aircraft 3-View in tractor configuration



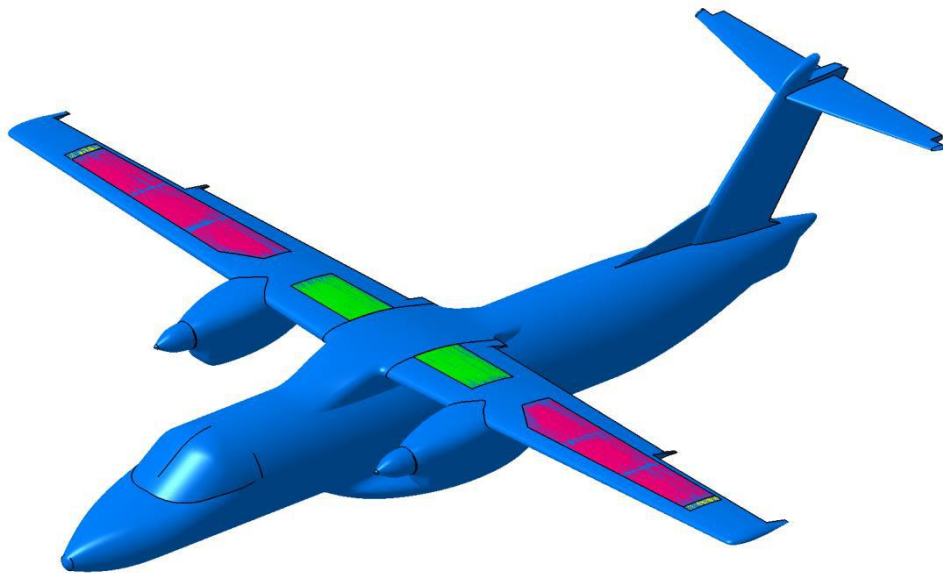


Figure 2. SARAS Mk II aircraft Showing Fuel Tanks Location in the Wing.

4 Mission Profile

Mission profile

The SARAS Mk II aircraft is having an operational ceiling of 30000 ft. (9144 m). Take off envelope of the aircraft is expected to be from sea level (upto ISA +35 °C) to 11000 ft. (3353 m) (upto ISA +20 °C). The mission profile of the aircraft at 450 Km/h at 250FL (25000 ft., 7620 m) in Figure 3.

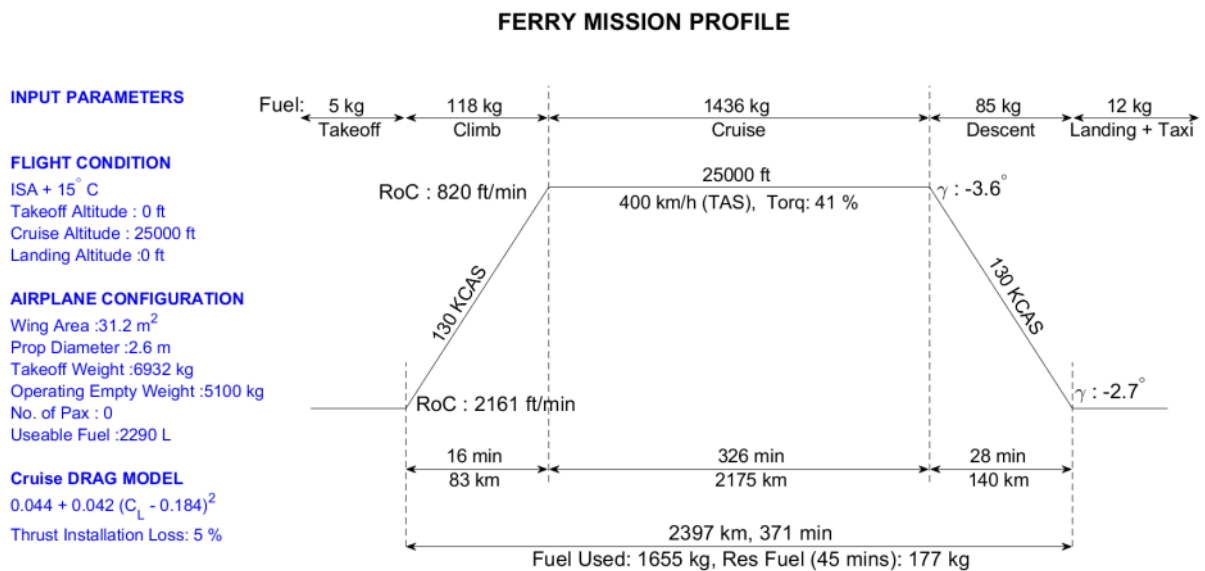


Figure 3. Ferry mission profile at cruise altitude of 25000 ft.

4.2.2.2 Design Goals

Table 2. Design goals for fuel systems

Fuel flow rate	360kg/ hr for engine+ Additional flow rate for motive flow of jet transfer pump
Pressure requirement at engine inlet pump	34.5kPa(5psia)+TVP----(Minimum) 345kPa(50psi) -----(Maximum)
Nominal operating pressure of Pump& Operation time	138to 172.4kpa(20to 25psig)at28Volts D.C. Continuous duty
Operating altitude	Up to 12km(40,000ft.)
Aircraft ceiling altitude	9.1km(30000ft)
Operating temperature	-55degCto +57degC
Outlet fittings	¼, 3/8, ½, 5/8, 1, 1.5-inchstandard M.S.fittingsorequivalent preferable
Test requirement	Should conform to RTCA DO160 standard (latest rev.) requirements or equivalent.
Components standard	RTCA DO160 orMIL-F-38363orequivalent (latest rev.)
Electrical interfaces	AsperRTCA DO 160 (Latest Rev) or MIL-DTL-38999standards (latest rev.) or equivalent
Main Tank Volume(per wing)	630+130=760Litres(Maintank+ collectortank)
Vent Tank Volume(per wing)	20 Litres
Auxiliary Tank Volume(per wing)	420 Litres
Air-gap Volume(2%)(per wing)	20 Litres
Expected unusable fuel (per wing)	Should be minimum
Expected fuel low level Volume	150Litres
Total capacity of fuel tank(per wing)	1200Litres(2400 litres for both wing tanks)
Total usable fuel(per wing)	1145 Litres (2280 Litres for both wing tanks)
Expected System LRU/Equipment weight	35 kg

4.2.2.3 Fuel System Description

The supplied LRUs should facilitate the operation of the fuel system and its sub-system(s) as outlined below:

The fuel system provides the fuel supply to each engine in all operating conditions of the flight. The basic fuel system should be composed of fuel tanks located in the wing, connecting pipes of fuel supply and fuel transfer, equipment's for fuel distribution and instruments for the indication of fuel pressure and amount of fuel. The main fuel system is divided into two identical subsystems viz., left and right-hand subsystem. During normal operating conditions, each fuel system feed the corresponding engine. Both the fuel systems should be interconnected by cross feed valve located in the cross-feed line. Cross feed fuel system allows the fuel supply to one engine from both fuel subsystem or both engines from one fuel subsystem. Fuel tanks must be located integrally by sealed casing in each wing (Ref Fig 2). Fuel should be supplied to each engine from the collector tank using electrically driven DC (Direct Current) booster pumps mounted in the collector tank. The main tank supplies the fuel to collector tank through flapper valves and using ejector pump located between the main tank and collector tank. Auxiliary tank supplies the fuel to the main tank through inter tank fuel transfer system constituted by auxiliary tank booster pump and associated pipe lines. Open type vent system must be designed where tank pressure is nearly equal to ambient pressure. The main tanks are vented out to the atmosphere through vent tanks at tip of each wing. Each fuel subsystem has an independent

vent system, pipelines are routed to prevent fuel siphoning and spillage to atmosphere during normal flight and manoeuvres. Both gravity feed and pressure feed refuel and defuel systems will be used. The capacitance probes will be used with signal conditioner unit to measure the available fuel quantity. Turbine type flow meter will be fitted on the high-pressure fuel line of the engines, which will provide rate of fuel flow to the engines and a totalizer indicator shows fuel remaining on the aircraft during flight. Water drains, fuel drains and sump drains should be provided at appropriate locations of main tank, vent tank, collector tank and auxiliary tanks. Magna stick in the tanks will indicate the fuel available in the wing to the ground crew without switching on the electrical supply. Table 3 shows the list of LRU's, specifications and functions of each LRU which are required as per design requirement and mission profile of SARAS Mk II aircraft which are listed below.

4.2.3 Deliverables

1. LRU's AS PER TABLE 3 (Brief specifications placed at Annexure – 1)
2. AT EQUIPMENT LEVEL (for the each supplied Part(S/N)): 1 set
 - Installation Drawing (including materials, finishing and MTBF) and 3D-CAD model
 - Acceptance Test Procedure
 - Equipment Specification
 - Qualification Test Plan including & Qualification by Similarity and Analysis Report
 - Declaration of Design and Performance, ATR, QTP, QTR,
 - Reliability Prediction, FMEA, Test schedules and Report
 - For FCU: Software documentation in accordance with DO178C level C or latest
 - Supply of manuals system level and LRU level
 - LRU level test schedules to carry out pre-installation checks of all mechanical, electrical and electronic components.
3. DOCUMENTATION DELIVERED WITH EACH S/N:1 set
 - Acceptance Test Report.
 - Certificate of Conformity/TSO
4. DELIVERABLES AT SYSTEM (KIT) LEVEL: 1 set
 - Interface Control Document
 - Fuel Ignition Analysis
 - Safety Analysis, FMECA, Reliability Analysis
 - Performance Report (Pressure Refueling, Feeding & Transfer, Indication and Accuracy)

Table 3. Proposed List of LRU's / Equipment's

Sl. No.	Description	Quantity Per Aircraft*
1	Fuel Booster	8
2	Booster Pump pressure Switch	4
3	Jet transfer Pump	2
4	Booster Pump Non Return Valve	8
5	Inward/Outward Relief Valve	4
6	Refuel/Defuel Valve	4
7	Single Refuel/Defuel Valve connector	1
8	Refuel/Defuel Panel	1
9	Motorized main fuel shut-off ball Valve	2
10	Fuel Filter	2
11	Filler Cap and Adapter	4

12	Collector tank flapper Valve	6
13	Capacitance Probes	2
	a) Probe, Fuel Level, Collector +LLS+ES	2
	b) Probe, Fuel Level, Wing, Inner	2
	c) Probe, Fuel Level, Wing, Mid	2
	d) Probe, Fuel Level, Wing, Outer, HLS	2
	e) Probe, Fuel Level, Aux, Inner, +HLS	2
	f) Probe, Fuel Level, Aux, Outer+ES	2
14	Valve, Fuel, Drain	12
15	Magna sticks	2
	a) Magna stick, Wing, Inner	2
	b) Magna stick, Wing, Outer	2
	c) Magna stick, Aux	2
16	Motorized Cross Feed Shut-off Valve for cross feed(line)	1
17	Motive flow Non-Return Valve	2
18	Drain Valves and Collector Dump	2
19	Vent Valve	2
20	Flame Arrestor	2
21	Fuel flow Transmitter	2
22	Vent tank flapper valve	2
23	Fuel Control Unit	2
24	Protection boxes, wet cables, mating connectors, fittings	As required

***Note: 3 Aircraft sets are required for prototype(s) testing phase.**

4.2.3.1 Environmental Tests (Qualification tests as per RTCA/DO-160G or higher)

Following sections of the document RTCA/DO-160 to the latest version should be considered as per the categories of equipment location and the QTPs proposed to be submitted to NAL for concurrence.

- Temperature and Altitude
- Temperature Variation
- Humidity
- Operational Shock and Crash Safety
- Vibration Endurance
- Water-proofing
- Fluids Susceptibility
- Fungus Resistance
- Salt Spray
- Magnetic Effect
- Power Input
- Voltage Spike
- Audio Frequency Conducted Susceptibility - Power Input
- Induced Signal Susceptibility
- Radio Frequency Susceptibility (Radiated and Conducted)
- Emission of Radio Frequency Energy
- Lightning Induced Transient Susceptibility
- Icing
- Electrostatic Discharge
- Fire, Flammability

	Equipment	Location
1.	Booster Pump, Booster pump pressure switch, Jet transfer pump, non-return valve, Valve inward/outward, fuel cap & adaptor, collector tank flapper valve, Inner tank flapper check valve, Capacitance probe, magna stick, valve fuel drain, motive flow non return valve,	Wing fuel tank
2.	Fuel defuel valve, Motorized main fuel shut-off Valve, cross feed shut off valve, fuel filter, flame arrester, fuel control unit	Wing
3.	Single point fuel/ defuel connector Refuel/ Defuel panel, Fuel flow transmitter	Nacelle
4	Protection boxes, wet cables, mating connectors, fittings	Wing & fuselage

Annexure-1 Specifications

1. Booster Pump

Function

To supply the required quantity of fuel to engine at desired pressure at the engine pump inlet and also to supply motive flow to jet transfer pump, in order to pump fuel from main tank to collector tank.

Installation

- Submerged booster pump with standard flange mounting to the bottom of the fuel tank in vertical attitude.
- Delivery line should be above flange (i.e. within fuel tank).
- 5/8" M.S. standard fitting or equivalent is required at outlet.

Design requirements

- The units shall be designed to operate fully or partially submerged in fuel or dry condition.
- A D C motor driven submerged booster pump is required. Two DC pump for main tank and Two for the Aux tank are required in each side of wing.
- In case of pump failure or locked rotor, fuel flow should be available through bypass or through rotor with minimum pressure drop.
- The pump must have low pump down, quick re-prime and minimal performance degradation at high altitude. The pump should be qualified for dry running for 10 hours.

Table 4. Design requirements of Fuel Booster Pump

1.	Pressure requirement at engine pump inlet	345 kPa, 50 psig (maximum)
2.	Nominal operating pressure of pump	Minimum-100kPa(14.5psig) at 28 V DC (new)
3.	Flow rate	1800PPH at 28V DC
4.	Ambient temperature Fluid temperature	-55° C to +71° C -54° C to +57° C
4	Electrical connector	Should conform to RTCAD0160(latest rev.)/MIL-DTL-38999 series (latest rev.)its equivalent with latest specification
4.	Test requirement	Should conform to D0160(latest rev.) or MIL-F-38363(latest rev.) or its equivalent with latest specification
5.	EMI/EMC standard	Pump should be cleared to EMC/EMI to MIL-STD-461(latest rev.) and MIL-E-6051(latest rev.) or equivalent RTCA DO(latest rev.) standard to latest specification
6.	Expected MTBF	=>10000 OH (Overhaul hours)

2. Booster Pump Pressure Switch

Function

Provides a signal for a warning indication in the cockpit when a particular booster pump pressure falls below a present value.

Installation

The switch should be connected to a Tee in the 16 mm (5/8") fuel supply line.

Design requirement

The pump failure warning switch should conform to relevant DO160 environment testing for transport aircraft. It should also conform to MIL-DTL-38999. (latest rev.)

Table 5. Design requirements of Booster Pump Failure Warning Switch

1.	Nominal operating pressure	<ul style="list-style-type: none">• 345 kPa (50 psig) max• Negative pressure under suction to engine
2.	Ambient temperature Fluid temperature	-55° C to +80° C -54° C to +57° C
3.	Desirable weight	Not to exceed 120 gm
4.	Material	Light alloy
5.	Mechanical interface	End fittings as per RTCA DO160(latest rev.)/MS 33656-4(latest rev.) or its equivalent with latest specification.
6.	Electrical interface	Should conform to MIL-DTL-38999 series (latest rev.) or its equivalent with latest specification
7.	Qualification	Switch should conform to relevant RTCA DO160(latest rev.) environment testing for transport aircraft or its equivalent with latest specification
8.	Location	The switch is proposed to be connected to a Tee in the 16 mm (5/8") fuel supply line
9.	Desirable service life	=>20000 FH
10.	Expected MTBF	=>50000 FH

3. Jet Transfer Pump

Function

To transfer fuel from main tank to collector tank by motive flow. Excess fuel transferred will flow back from collector tank to main tank. Collector tank will be kept full and will be the last tank to be emptied in flight.

Installation

The unit must be designed to be installed on the rib which provides separation from the main cell& collector tank.

Design requirement

- Suitable Motive flow should be available from a branch of the supply line to engine from the DC submerged booster pumps. This to be customized to final tank geometry and engine consumption requirement.
- Maximum depth of tank will be ~270 to 320 mm
- Single or two jet pumps meeting the engine demand are acceptable.
- Jet pump flange can be bolted to web of concerned rib. Discharge port can be terminated at top or middle of supply tank.
- The required induced flow versus motive flow ratio can be 6-8.

Table 6. Design requirements of Jet transfer pump

1.	Maximum demand of single engine	810 lb/hr
2.	Ambient temperature Fluid temperature	-55° C to +71° C -55° C to +57° C
3.	Nozzle pressure	86.19kPag(12.5psig)
4.	Motive Flow rate (Max)	~230PPH (0.029 kg/s)
5.	Induced flow	~1500PPH (0.19kg/s)

4. Booster pump Non-Return Valve

Function

It is used to control the status of a fuel line, allowing free flow in one direction, and checking any reverse flow.

Installation

The unit should be designed to be installed at the upper delivery port of the booster pump.

Design requirements

- A minor leak through NRV is required to relieve locked up pressure to tank after engine shut down.
- NRV on motive flow line should not have reverse leak, since air may be sucked through jet pump to engine under suction feed condition.

Table 7. Design requirements of Non-Return Valve

1.	Nominal operating pressure	414 kPa (60 psi) max
2.	Proof pressure	828 kPa
3.	Burst pressure	1241 kPa
4.	Cracking pressure	0.35kPa (max)
5.	Desirable service life	=>100000 flight hours
6.	Rated flow	363 kg/h
7.	Ambient temperature Fluid temperature	-55° C to +80° C -54° C to +57° C
8.	Size	15 mm (5/8") O.D. pipe or M.S. standard fittings
9.	Desirable Service Life	=>100000 FH
10.	Expected MTBF	=>100000 FH

5. Inward / Outward Relief Valve

Function

It should be designed to open at a pressure of 17-21kPa fuel tank in case of over pressure build up due to over-filling of tank due to failure of pressure refuelling system to close at predetermined level.

Installation

- The unit must be designed to be installed at a flange in the wing bottom. Valve body with a flange should have thread inserts to facilitate mounting at bottom of cover wing with screws.
- Plunger should clear wing tank skin such that vented fuel will not wet the bottom skin.

Design requirement

- Valve should not leak upto 17kPa (2.5 psig). If pressure is increased, leakage of fuel should start and increase with full flow at 24kPa (3.5psi) to relieve the pressure in tank. A replaceable diaphragm which bursts at 24kPa (3.5 psi) is also acceptable.
- Facility should be available to fix a pipe of ~170 mm height enclosing diaphragm, such that the quantity of fuel venting to the ground is minimized.
- The unit should be lightning proof, diaphragm should be easily replaceable.

Table 8. Design requirements of Inward/Outward relief valve

1.	Nominal operating pressure	100 kPa
2.	Proof pressure	150 kPa
3.	Burst pressure	200 kPa
4.	Flow	180 litre/min
5.	Ambient temperature Fluid temperature	-55° C to +71° C -55° C to +57° C
6.	Desirable service Life	=>50000 FH

6. Refuel/Defuel Valve

Function

Electromechanical valve, which opens port to supply fuel under pressure with rate of flow restricted to 180 litre/min. It controls the status of the line in accordance with the ground crew or level sensor signals.

Installation

The unit must be designed to be installed and supported by the refuel/defuel line.

Design requirement

- Opening should be controlled by a switch in, refuel panel. Defuel position should be controlled by a switch on refuel panel in defuel position. Refuel should stop by closing refuel valve by a signal from high level control switch. Defuel should stop by a signal from empty switch in tank.
- Refuel valves should close slowly to avoid build-up of surge pressure.
- Switches on refuel panel will be electrically connected to a connector or refuelling/defueling valve.
- Alternatively, mechanical type refuel/defuel valve controlled by high level and empty switches is also acceptable.
- Ground refuel panel will have switches to provide signals to the valves to refuel/defuel. Tank full and empty signals will be provided by reed switches on float valves.
- Facility should be made available to conduct pilot check to shut off refuel operation which will indicate serviceability of refuel/defuel valve and high-level float switch to meet requirement of FAR 23 or equivalent.
- Nominal power supply 28V DC will be available on aircraft.
- Electrical connector should conform MIL-DTL-38999(latest rev.) (or) equivalent.

Table 9. Design requirements of Refuel/Defuel Valve

1.	Nominal operating pressure	414kPa (60 psi) max
2.	Proof pressure	828 kPa
3.	Burst pressure	1241 kPa
4.	Desirable nominal flow rate	180 litre/min
5.	Pressure drop at nominal flow rate	72 kPa (max)
6.	Ambient temperature Fluid temperature	-55° C to +80° C -54° C to +57° C
7.	Desirable service Life	=>20000 FH
8.	Expected MCBF	=>30000 cycles

7. Single Point Refuel/Defuel Connector

Function

It is single point ground pressure refuelling/defueling coupling, through which all the aircraft fuel cells tanks are simultaneously loaded and unloaded. It should be spring loaded self-sealing type ground refuelling/defueling adapter with 2 1/2" Dia. NATO head connector in accordance with STANAG-3105.

Installation

The unit must be designed to be mounted to a structural wall through a bolted flange.

Design requirement

- Outlet fittings like gasket and flange should have bolt holes or 11/2“Dia. end fitting for flexible couplings.
- It should have self-sealing cap to suit connector with chain covered by non-metallic outer sleeve and retainer ring.
- Bonding area should be in accordance with RTCA D0160 (latest rev.) requirements and should conform MIL-38363(latest rev.) standard (or) equivalent.

Table 10.Design requirements of Single Point Refuel/Defuel Connector

1.	Nominal operating pressure	620 kPa (72 psi) max
2.	Proof Pressure	1655 kPa (240 psi)
3.	Ambient temperature Fluid temperature	-55° C to +71° C -54 ° C to +57 ° C
4.	Material	Light alloy
5.	Rated flow	500 litre/min fuel supply to two wings by branch pipe. Rate of refuelling per wing to not exceed 180 litre/min
6.	Desirable service Life	=>60000 FH

8. Refuel/Defuel Panel

Function

The main purpose of RDP is to provide the ground crew to enable and manage the refuel and defuel operations. It will be used to give the input for refuelling/ defueling for selection of LH and RH wing tanks.

Installation

The unit must be designed to be mounted to a structural wall through a bolted flange.

Design requirement

- It should interface with the fuel control unit and, via gauging system and level sensors, to manage refuel/ defuel operation.
- It should provide a quick summary of LH and RH tanks fuel masses.
- It should have a selector switch relevant to auxiliary tanks also.
- The panel should be a full hardware device build up to be very simple.
- It should be qualified for CS23 Platform or equivalent.

Table 11.Design requirements of Refuel/Defuel Panel.

1.	Power supply	28VDC
2.	Power Consumption	1A
3.	Electrical Connection	Should conform to MIL-DTL-38999 (latest rev.) series or its equivalent with latest rev
4.	Ambient temperature	-55° C to +70° C
5.	Mass	Approx. 0.750kg
6.	Volume	~182mm X ~104mm X ~60mm

9. Motorized Main Fuel Shut-off Ball Valve

Function

To shut off or release of fuel supply to the engine on pilot's selection. The actuator can be single motor or dual motor with adequate reliability for the function and it should be integrated with a pressure transducer (in lieu of pressure switch) to monitor engine pressure, with tapping port on the SOV body to reduce leakage risks.

Installation

Installation in fuel feed circuit to engine.

Design requirement

- Rapid shutoff should be possible with dual or single motor. And it should be integrated with a pressure transducer by a tapping port on the SOV body.
- Should have electrical connection to indicate 'OPEN' or 'CLOSE' in cockpit.
- Valve should have built in provision for relieving pressure built up due to locked up hot fuel.
- Valve will be subjected to negative pressure when engine is running under suction feed.
- Should conform MIL-F-383638(latest rev.) or RTCA DO160(latest rev.) requirements.
- Connector should conform MIL-DTL-38999 (latest rev.) standard or equivalent.
- It should be qualified for CS23 Platform or equivalent.

Table 12. Design requirements of Motorized Main Fuel Shut-off Ball Valve

1.	Nominal operating pressure	<ul style="list-style-type: none">• 414 kPa (60 psi) max• Negative pressure under suction to engine
2.	Proof Pressure	828 kPa
3.	Burst pressure	1241 kPa
4.	Flow rate	810 lb/hr
5.	Thermalrelief	276 to 552 kPa (40 to 80 psi)
6.	Desirable valve time (at 28V DC)	a) 4 sec. max (single motor) b) 2 sec. max (dual motor)
7.	Ambient temperature Fluid temperature	-55° C to +71° C -55° C to +57° C
8.	End fittings	(5/8") OD. pipe
9.	EMI/EMC standard	The unit should be cleared to EMC/EMI to MIL-STD-461 (latest rev.) and MIL-E-6051 (latest rev.) or equivalent RTCA DO standards (latest rev.)
10.	Power supply	27.5 V DC (nominal) supply in accordance with RTCA DO160 standard (latest rev.)
11.	Operating time	Intermittent
12.	Desirable service Life	=>20000 FH
13.	Expected MCBF	=>20000 cycles

10. Fuel Filter

Function

To supply clean fuel to engine and to remove any solid particles present from the fuel being delivered to the engine pump and control unit. It also provides some degree of separation of the residual water contents.

Installation

It should be located in cold zone, downstream of fuel connection and must be fitted to the 5/8" supply line.

Design requirements

- Filter should have full flow bypass capability. Should have impending bypass indication available in cockpit.
- The filter should also have drain facility.
- The Fuel filter should conform to MIL-F-38363 (latest rev.) or equivalent RTCA DO160 (latest rev.) and should meet FAR 23 or equivalent requirements.

Table 13. Design requirements of Fuel Filter

1.	Nominal operating pressure	<ul style="list-style-type: none">• 414 kPa (60 psi) max.• Negative pressure under suction to engine
2.	Proof pressure	828 kPa
3.	Burst pressure	1241 kPa
4.	Ambient temperature Fluid temperature	-55° C to +80° C -54° C to +57° C
5.	Working pressure	41.4 to 141 kPa (6 psig to 35 psig) during normal operation. Will be subjected to negative pressure during suction feed to engine
6.	Nominal flow rate	500 kg/h (1100 PPH)
7.	Pressure drop at nominal flow rate	0.7 kPa (max)
8.	Bypass pressure drop at nominal flow	0.5 cc/sec (max)
9.	Differential pressure switch signal setting	11 to 15 kPag (1.6 to 2.2psig)
10.	Operation time	Continuous duty
11.	Filtration rating	Filter should be of 200 mesh screen (75 micron). Finer element is also acceptable. It should have a throwaway type element. If filtration rating of different definition is offered, equivalent relation to 200 mesh (75 micron) must be provided
12.	Other important features	<ul style="list-style-type: none">a) Filter should have full flow bypass capabilityb) Should have impending bypass indication available in cockpit Should have drain facility
13.	Installation	Facility to fit a bracket and mount on aircraft
14.	Desirable service life	=>20000 FH
15.	Expected MTBF	=>30000 FH

11. Filler Cap and Adapter

Function

Fill cap with quick release cover intended to fill fuel into the integral wing tank by gravity feed.

Installation

It is designed to be installed on integral fuel tank (typically wing cells) with the purpose a "quick-to-operate" gravity refuelling port. The adapter unit is designed to be bolted on the outer flange of the aircraft skin.

Design requirement

- Installation with filler cap and adapter should be lightning proof. Metal or composite filler caps are acceptable.
- Adapter to suit (ASG) made of stainless steel. Off-the-Shelf adapter with curvature on flange can be offered.
- The filler cap should meet FAR 23 requirements and equivalent RTCA DO160 standard (latest rev.) environmental testing or MIL-F-38363 (latest rev.) or equivalent standard with latest rev.

Table 14. Design requirements of Filler Cap and Adapter

1.	Nominal operating pressure	345kPa (50 psi) max
2.	Proof pressure	518 kPa
3.	Burst pressure	690 kPa
4.	Ambient temperature Fluid temperature	-55° C to +71° C -55 °C to +57 °C
5.	Nominal size	76 mm (3" DIA)
6.	Material	Metal or composite filler caps are acceptable
7.	Desirable service Life	=>15000 flight hours
8.	Expected MTBF	a) Filler cap =>139000 FH b) Adapter =>1.22 X 10 ⁶ FH

12. Collector Tank Flapper Valve

Function

To function as a non-return valve between multi cell fuel tanks allowing fuel flow in one direction only, enabling fuel transfer and consumption according to the desired sequence. Flow of fuel from compartments towards supply tank near root rib. Reverse flow should be prevented during banks. Flapper should be stick free.

Installation

Flapper type check valves hinged at top should be bolted to ribs to ensure unidirectional flow towards wing root with a dihedral angle in lateral direction and incidences in fore and aft direction. Flap can be mounted on machined surface of wing ribs.

Design requirement

- Matched assembly of housing and flap with non-sticking sealing surface is desirable.
- An option of fuel passage with a coarse mesh strainer to prevent foreign objects migration is desirable.

Table 15.Design requirements of Inter Tank Flapper Check Valve

1.	Max operating pressure	83kPa (12psi) max
2.	Proof pressure	125kPa
3.	Burst pressure	207kPa
4.	Ambient temperature Fluid temperature	-55° C to +70° C -55 °C to +70 °C
4.	Desirable service Life	=>100000 FH
5.	Expected MTBF	=>200000 FH

13. Capacitance Probes

Function

To indicate the mass, the total usable content of fuel in both tanks i.e. port and starboard (by selection) and in individual wing tank (by selection). And to give low level and high-level warning indications.

Installation

- Capacitance probes can be introduced through covers at bottom of wing and fixed vertically on wing ribs.
- Float switches could be mounted on capacitance tube.

Design requirement

- The standalone system with digital indication showing total contents in 'kg' and also individual wing tank contents by selection.
- Proposal should include number of probes, typical method of fitment, errors with full tank, 1/2 tank and last 20% of contents and weight of total system.
- Should conform to environmental testing requirements of RTCA DO160(latest rev) or equivalent standard with latest rev for civil aircraft.
- Display should be compatible with EICAS monitoring with ARINC 429 data protocol.
- Facility should be available to interconnect the system to indicators on ground pressure refuelling panel.
- Desirable No. of probes are 4 in main tank and 3 in auxiliary tank for each wing
- Fuel temperature: -55° C to +57° C.
- Probes should be incorporated with low level, high level and empty level switches.
- Should be qualified for CS23 Platform or equivalent.

14. Valve, Fuel, Drain

Function

To drain fuel from bottom of integral supply tank by screwing a ground adapter.

Installation

It must be fitted underneath the cell bottom skin panel and retained.

Design requirement

- Valve should be lightning proof and leak-proof. Seals should be easily replaceable and self-sealing.
- The Fuel valve/water drain valve should conform to MIL-F-38363 (latest rev.) or equivalent RTCA DO160 (latest rev.) and should meet FAR 23requirements or equivalent.

Table 16.Design requirements of Valve, Fuel, Drain

1.	Nominal operating pressure	24kPag (3.5psig) max
2.	Proof pressure	36kPag (5.25psig)
3.	Burst pressure	48kPag (7psig)
4.	Ambient temperature Fluid temperature	-55° C to +70° C -55° C to +70° C
5.	Fuel Flow	300cc/min. at 350mm fuel head

15. Magna Stick

Function

It should be designed to be used as a manual means of visually determine the level of fuel in the aircraft's fuel cell.

Installation

The device is configured to be installed on the lower wing skin bottom cover to match the flange unit in an easy-to-access position for quick check by the operator. The unit should be a pure mechanical device which required no energy or signal reading, enhancing reliability and ease of use.

Design requirement

- Three units will be mounted per wing Maximum readable fuel and minimum readable fuel should be specified and the location will be decided based on these levels.
- Full tank level will be read by dip stick through filler cap port.
- Unit has to be lightening proof.
- The unit should be leak proof.

Table 17.Design requirements for Magna Stick

1.	Nominal operating pressure	0 to 207kPa (30 psi) max
2.	Proof pressure	310 kPa
3.	Burst pressure	414 kPa
4.	Ambient temperature Fluid temperature	-55° C to +71° C -55° C to +57° C
5.	Desirable service Life	=>60000 FH
6.	Expected MTBF	=>228480 FH

16. Motorized Cross Feed Shut-off Valve for cross feed(line)

Function

To shut off or release of fuel supply in the cross-feed line on pilot's selection. Rapid shut off/opening should be accomplished by a single or dual motor.

Installation

In inter connecting pipe between port and starboard fuel feed circuits upstream of main shut off valve.

Design requirement

- Valve will be subjected to negative pressure when engine is running under suction feed.
- Proof and ultimate pressure should conform MIL-F-383638 (latest rev.) or RTCA DO160 (latest rev.) current requirements and also FAR 23 provisions.
- Valve should have built in provision for thermal relief when valve is shut-off.
- Should have electrical connection to indicate 'OPEN' or 'CLOSE' in cockpit.
- It should be qualified for CS23 Platform or equivalent.

Table 18. Design requirements of Motorized Cross Feed Shut-off Ball Valve

1.	Nominal operating pressure	<ul style="list-style-type: none"> 414 kPa (60 psi) max Negative pressure under suction to engine
2.	Proof pressure	828 kPa
3.	Burst pressure	1241 kPa
4.	Ambient temperature Fluid temperature	-55° C to +71° C -55° C to +57° C
5.	Flow rate	810 lb/hr
6.	Thermal relief	276 to 552 kPa (40 to 80 psi)
7.	Desirable valve time& its operation	4sec. max. Rapid shutoff should be possible with twin motors. Slower shut off acceptable with single motor with one motor inoperative
8.	Operating time	Intermittent
9.	Power supply	27.5 V DC (nominal) supply in accordance with RTCA D0160 (latest rev.) standard or equivalent std.
10.	Desirable service Life	=>20000 FH
11.	Size	15.87 mm (5/8") OD pipe
12.	Expected MCBF	=>25000 cycles
13.	EMI/EMC standard	The unit should be cleared to EMC/EMI to MIL-STD-461 (latest rev.) and MIL-E-6051 (latest rev.) or equivalent RTCA DO standards (latest rev.)

17. Motive Flow Non-Return Valve**Function**

A motive flow non-return valve to allow fuel in single direction is installed in fuel supply lines to engine and in motive flow line to jet pump.

Installation

The unit should be designed to be installed at the upper delivery port of the booster pump.

Design requirements

- A minor leak through NRV is required to relieve locked up pressure to tank after engine shut down.
- NRV on motive flow line should not have reverse leak, since air may be sucked through jet pump to engine under suction feed condition.

Table 19. Design requirements of Motive Flow Non-Return Valve

1.	Nominal operating pressure	414 kPa (60 psi) max
2.	Proof pressure	828 kPa
3.	Burst pressure	1241 kPa
4.	Cracking pressure	Less than 0.7 kPag (max)
5.	Ambient temperature Fluid temperature	-55° C to +80° C -54° C to +57° C
6.	Desirable useful life	=>100000 FH
7.	Expected MTBF	=>50000 FH

8.	Rated flow	68 kg/hr
9.	Pressure drop (at rated flow)	1.03kPag (0.15 psi) max
10.	Nominal Size	15 mm (5/8") O.D. pipe size or M.S. standard fittings of equivalent diameter

18. Valve Drain and Dump, Collector

Function

To drain fuel from bottom of integral supply tank by screwing a ground adapter.

Installation

It must be fitted underneath the cell bottom skin panel and retained.

Design requirement

- It should be self-sealing.
- Should be lightning proof.
- Diameter of hole could be between 20 to 35mm.
- Operating Pressure: 414 kPag (60psig)
- Proof Pressure: 828 kPag (120psig)
- Burst Pressure: 1241 kPag (180psig)
- Operating Temperatures
 - (a) Fluid Temperature: -55°C to + 57 °C
 - (b) Ambient Temperature: -55°C to + 71 °C
- Should conform to MIL-F-38363(latest rev.) or equivalent RTCA DO160(latest rev.) and FAR 23or equivalent.

19. Vent Valve

Function

Float operated vent valve will be fixed between main tank and vent tank. Purpose is to vent air from main and supply tank to the vent.

Installation

Float operated vent valve is fixed on partition between main tank and vent tank.

Design requirement

- Mounting by flange to vertical wall or by threaded hollow bolt and nut with facility for double locking as per FAR 23or equivalent.
- Vent valve should meet the MIL-F-38363(latest rev.) requirements or RTCA DO160(latest rev.) or equivalent.
- Vent valve should be qualified for FAR23/CS23 Platform or equivalent.

Table 20.Design requirements of Vent valve

1.	Max operating pressure	24kPag (93.5psig)
2.	Proof pressure	36kPag (5.25psig)
3.	Rated flow	18 litre/s Air NTP
4.	Pressure drop at rated flow	0.14psig
5.	Burst pressure	48kPag (7 psig)
6.	Ambient temperature Fluid temperature	-55° C to +70° C -55° C to +70° C

7.	Desirable service Life	=>60000 FH
8.	Expected MTBF	=>200000 FH

20. Flame Arrester

Function

To protect fuel tank from fire propagated through vent pipe by ignition of vapour at vent port.

Installation

The unit should be designed to be installed in line of the vent pipe in the A/C vent tank system, with the purpose of providing a flame barrier along the line. In case volatile vapour ignition occurs at the outside, the flame is prevented from travelling along the line and propagating to the tank contents. 1/2" vent pipe from vent tank is terminated at bottom skin in the inter-spar region.

Design requirement

- Integral fuel tank should not pressurize.
- Tank pressure should be at ambient pressure during fuel filling by gravity, during ground pressure refuelling and in flight.
- Flame arrester should meet the relevant requirement as per RTCA DO160 (latest rev.) or equivalent and should meet FAR 23 or equivalent.

Table 21. Design requirements of Flame Arrester

1.	Nominal operating pressure	414kPa (60 psi) max
2.	Proof pressure	621 kPa
3.	Burst pressure	862 kPa
4.	Rated flow (standard air)	200 litre/min
5.	Pressure drop at rated flow	3.5 kPa (max)
6.	Nominal size	12.7 mm, (1/2") OD. Pipe
7.	End fittings	Conical 1/2" size as per MS 33656
8.	Desirable service Life	Unlimited
9.	Expected MTBF	=>261300 FH

21. Fuel flow transmitter

a) Flow Transmitter

Function

The system consists of fuel flow transmitter with rate of flow indicator. The rate of flow shall be in kg/hr. Signal of fuel temperature should also be available to depict contents by mass. It should be qualified for CS23 Platform or equivalent.

Installation

Fuel flow transmitter shall be installed horizontally in H.P. fuel line of the engine.

b) Mechanical

Space available on high pressure line to fit the transmitter couplings accommodate connector that mates with M.S. 9381-08, M.S.9198-08(latest rev.) or equivalent std. Fuel should pass through with locked rotor.

- Fuel used kerosene AVTUR or wide cut gasoline JP1, JP4 and JPA & A1.
- Transmitter should withstand a pressure of 1500 psi.
- Temperature range -55 °C to 175 °C and Max fuel flow rate 410 kg/hr.

c) Electrical interface

Electrical output from transmitter for flow sensing and fuel temperature should be provided.

d) Indicator

- Indicator with conditioner (cockpit) should read rate of flow in kg/hr.
- The system should be stand alone.
- Display should be compatible with EICAS monitoring and ARINC 429 data protocol.
- 28V DC power supply from aircraft.
- Temperature range -55 °C to 70 °C.
- Operating altitude: upto 12 km (40000 ft.)

22. Vent Tank Flapper Valve

Function

To function as a non-return valve between multi cell fuel tanks allowing fuel flow in one direction only, enabling fuel transfer and consumption according to the desired sequence.

Installation

Flapper type check valves hinged at top should be bolted to ribs to ensure unidirectional flow towards wing root with a dihedral angle in lateral direction and incidences in fore and aft direction. Flap can be mounted on machined surface of wing ribs.

Design requirement

- Matched assembly of housing and flap with non-sticking sealing surface is desirable.
- An option of fuel passage with a coarse mesh strainer to prevent foreign objects migration is desirable.
- It should be qualified for CS23 Platform or equivalent.

Table 22.Design requirements of Inter Tank Flapper Check Valve

1.	Max operating pressure	83kPa (12psi) max
2.	Proof pressure	125kPa
3.	Burst pressure	207kPa
4.	Ambient temperature Fluid temperature	-55° C to +70° C -55 °C to +70 °C
4.	Desirable service Life	=>100000 FH
5.	Expected MTBF	=>200000 FH

23. Fuel Control Unit

Function

Core device for the fuel management and gauging processing. It should perform the fuel mass computation on the basis of the gauging data coming from the fuel probes and it should acquire and manage the fuel low level switches.

Design requirement

- It should give Data transmission and MMI Discrete feedback acquisition to Refuel/Defuel panel.
- It should give ARINIC 429 data transmission to the avionics.
- It should control SOV during refuelling.
- It should manage high, empty and low-level switches.
- It should be qualified for CS23 Platform or equivalent.

Table 23. Design requirements of FCU

1.	Power supply	28VDC
2.	Power Consumption	1.5A
3.	Electrical Connection	Should conform to MIL-DTL-38999 series (latest rev.) or RTCA DO 160 latest rev or equivalent
4.	Operating temperature Storage temperature	-55° C to +70° C 55° C to +85° C

4.3 Scope of Supply and incidental works:

Scope of Supply includes the following:

- (i) Supply of the equipment / system along with the accessories as per clause No.4.2
- (ii) Installation, Commissioning and Acceptance as per clause No.4.4.3
- (iii) Training as per clause no.4.5
- (iv) Incidentals as per clause No. 4.6
- (v) Delivery Schedule as per clause No.4.7

4.4 Inspection & Tests

4.4.1 General

1. The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified here.
2. The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at the point of delivery and/or at the Goods final destination.
3. Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
4. Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
5. The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at final destination shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
6. The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
7. With a view to ensure that claims on insurance companies, if any, are lodged in time, the bidders and /or the Indian agent, if any, shall be responsible for follow up with their principals for ascertaining the dispatch details and informing the same to the Purchaser and he shall also liaise with the Purchaser to ascertain the arrival of the consignment after customs clearance so that immediately thereafter in his presence the consignment could be opened and the insurance claim be lodged, if required, without any loss of time. Any delay on the part of the bidder/ Indian Agent would be viewed seriously and he shall be directly responsible for any loss sustained by the purchaser on the event of the delay.

8. Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance Manuals together with Drawings of the goods and equipment built. These shall be in such details as will enable the Purchase to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
9. The Manuals and Drawings shall be in the ruling language (English) and in such form and numbers as stated in the Contract.
10. Unless and otherwise agreed, the goods and equipment shall not be considered to be completed for the purposes of taking over until such Manuals and Drawing have been supplied to the Purchaser.
11. On successful completion of acceptability test, receipt of deliverables, etc. and after the Purchaser is satisfied with the working of the equipment, the acceptance certificate signed by the Supplier and the representative of the Purchaser will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the equipment.

4.4.2 Manufacturer's Inspection Certificate

After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier's plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications. Manufacturer's test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser reserves the options to be present at the supplier's premises during such inspection and testing.

4.4.3 Installation, Commissioning and Acceptance Test

Acceptance as per OEM CoC/TSO/DDP/Authorized Release form with final inspection report for each LRU.

The acceptance tests at the final destination include the following:

Activity	Responsibility	Approver/ Concurrence	Support	Integrator
Fuel System Conceptual Layout	NAL	Vendor	-	Not applicable
Finalising Fuel System Design & review of Compliance	Vendor	NAL	NAL	Not applicable
Installation Drawing	Vendor	NAL	NAL	Not applicable
Acceptance Test Procedure	Vendor	NAL	NAL	Not applicable
Equipment Specification outline	NAL	Vendor	NAL	Not applicable
Equipment detailed specification	Vendor	NAL	NAL	Not applicable
Qualification by Similarity and/or Analysis Report	Vendor	NAL	NAL	Not applicable
Declaration of Design and Performance	Vendor	NAL	NAL	Not applicable
Reliability Prediction FMCEA & Qualification Test Procedure and Report	Vendor	NAL	NAL	Not applicable

For FCU: Software documentation in accordance with DO178C level C	Vendor	NAL & Vendor	NAL	Not Applicable
Acceptance Test Report for each LRU/equipment	Vendor	NAL		Not Applicable
Certificate of Conformity For each LRU/equipment	Vendor	-	-	Not Applicable
Certification of LRU	Vendor	NAL/Vendor	NAL	Not Applicable
Interface control documents, Fuel ignition analysis, Safety Analysis, FMECA, Reliability Analysis	Vendor	NAL	-	Not Applicable
Performance Report (Pressure Refueling, Feeding & Transfer, Indication and Accuracy)	Vendor	NAL	-	Not Applicable
Supply of LRU's as per Annexure	Vendor	NAL	-	NAL
Flight tests	NAL	NAL	Vendor	-
Product support (Aircraft level) post certification	NAL	-	Vendor	Not Applicable

4.5 Training

1)	Location	CSIR-National Aerospace Laboratories /Vendor Location
2)	Number of persons	04
3)	Period of Training	10 Days
4)	Nature of Training	System Functionality / Performance / implementation / Testing / Maintenance & Service.

4.6 Incidental Services

(i) On site Comprehensive Warranty:

- **1 Year** from Installation & Commissioning and date of acceptance
- In case the Equipment / System remains non-operational for more than **30 days** then warranty period will be extended for the equivalent period for which Equipment / System remained non-operational. Warranty extension in such case shall be done without prejudice to any other Term & condition of the contract

4.7 Delivery Schedule (including supply, installation, commissioning, training & acceptance)

Delivery of the Item		Installation & Commissioning		Training At CSIR_NAL, if any	Acceptance of the item
Days/ Weeks/Months	Location	Days/ Weeks/Months from the date of receipt of equipment	Location	Days/ Weeks/Months from the date of Installation & Commissioning	Days/ Weeks/Months from the date of Installation, Commissioning & Training
30 months	CSIR-NAL Bangalore- 560037	-	-	-	-

The vendor shall execute the entire project and supply of LRU's in 30 months including full qualification if required. Joint review will be conducted at each milestone unless otherwise specified. **T0= Purchase order placement**

- Milestone 1:** PDR: Completion of layout & detailed specifications of LRU's (T0+4 months) – (On final closure of action points by PDR committee)
- Milestone 2:** CDR: Completion of detailed design drawings, ATPs, Reliability reports & FMEA, Software documentation (T0+8 months)-(On final closure of action points by CDR committee)
- Milestone 3:** Supply of first prototype LRU's for the complete system (T0+14 months)
- Milestone 4:** ATR and SOFT Certification of LRU's for flight tests (T0+20 months)
- Milestone 5:** Supply of hardware deliverables & Support during ground and flight testing at NAL, final certification of LRU's. (T0+30 months)

CHAPTER-5

PRICE SCHEDULE FORMS

Bidder should quote as per the BOQ Format Only as uploaded in <https://etenders.gov.in>

The Bidders should have Java 8 update 231 version-32 bit for uploading the bid in the CPP Portal.

Note:

- i. The Bidder may fill the BoQ (Price Schedule Form) and enclose as per Clause 1.10 and 1.18.3 of the Bidding documents.
- ii. The Bidders have to fill in the BoQ (Price Schedule) as per table below for the Goods Being Offered from India.

For Goods Being Offered From India									
Sub-Total Ex-Works Price	1	Nos	INR	0			0	0	INR Zero Only
Less: Discount (if any)	1	Nos	INR				0	0	INR Zero Only
Sub-Total:	1	Nos	INR	0			0	0	INR Zero Only
Less: Buy-back Price (if any)	1	Nos	INR				0	0	INR Zero Only
Sub-Total Net Ex-Works Price	1	Nos	INR	0			0	0	INR Zero Only
Add: Packing & Forwarding charges (if any)	1	Nos	INR				0	0	INR Zero Only
Add: Transportation Charges (if any)	1	Nos	INR				0	0	INR Zero Only
Add: Insurance charges (from warehouse-to-warehouse) (if any)	1	Nos	INR				0	0	INR Zero Only
Total (A):	1	Nos	INR	0			0	0	INR Zero Only
Installation & Commissioning charges (if any)	1	Nos	INR				0	0	INR Zero Only
Training charges (if any)	1	Nos	INR				0	0	INR Zero Only
Total (B):	1	Nos	INR	0			0	0	INR Zero Only
Bank Charges, if any	1	Nos	INR				0	0	INR Zero Only
Any other charges, if any	1	Nos	INR				0	0	INR Zero Only
Grand Total (For Goods Being Offered From India)	1	Nos	INR	0			0	0	INR Zero Only

- iii. The Bidders have to fill in the BoQ (Price Schedule) as per table below for the Goods Being Offered from Abroad.

For Goods Being Offered From Abroad (Fields below - Mandatory for Foreign Vendors)									
Sub-Total Ex-Works Price	1	Nos	INR	0			0	0	INR Zero Only
Less: Discount (if any)	1	Nos	INR				0	0	INR Zero Only
Sub-Total:	1	Nos	INR	0			0	0	INR Zero Only
Less: Buy-back Price (if any)	1	Nos	INR				0	0	INR Zero Only
Sub-Total Net Ex-Works Price	1	Nos	INR	0			0	0	INR Zero Only
Add: Packing & Forwarding charges (if any)	1	Nos	INR				0	0	INR Zero Only
Add: Inland Freight Charges (if any)	1	Nos	INR				0	0	INR Zero Only
Sub-Total: FCA/FOB International gateway Airport	1	Nos	INR	0			0	0	INR Zero Only
Add: Insurance charges (from warehouse-to-warehouse)	1	Nos	INR				0	0	INR Zero Only
Add: Freight upto Bengaluru Airport	1	Nos	INR				0	0	INR Zero Only
Total (A): CIP/DIP Charges	1	Nos	INR	0			0	0	INR Zero Only
Training charges at Manufacturer's facility (if any)	1	Nos	INR				0	0	INR Zero Only
Installation & Commissioning charges (if any) at CSIR-Hydrabad	1	Nos	INR				0	0	INR Zero Only
Training charges (if any) at CSIR-Hydrabad	1	Nos	INR				0	0	INR Zero Only
Sub-Total:	1	Nos	INR	0			0	0	INR Zero Only
Bank Charges, if any	1	Nos	INR				0	0	INR Zero Only
Any other charges, if any	1	Nos	INR				0	0	INR Zero Only
Grand Total (For Goods Being Offered From Abroad)	1	Nos	INR	0			0	0	INR Zero Only

- iv. The Grand Totals at Row No. 49 or Row No. 68 will only be considered accordingly as per ii or iii.
- v. The Non-Relevant Cells in Column M have to be filled with 0 (Zero) before Uploading the BoQ.

CHAPTER-6

Qualification Requirements

Criteria 1 - Experience and Past Performance:

- 1.1.1 a) The bidder (manufacturer or principal of authorized representative – hereinafter referred simply as 'The Bidder') should have regularly for at least the last 10 years, ending 31st March of the previous financial year (hereinafter called 'The relevant Date'), manufactured and supplied (/erected/ commissioned 1 similar aircraft low pressure fuel system design, development & supply of LRU's [This bid is opened to qualified firms, nationally based companies, having appropriate background and expertise in Fuel system design, development of LRU's, certification and supply for small and medium sized turboprop aircraft as per FAR23/CS23 or equivalent. Only those firms with a substantial, proven track record of performance and resources in the above field of activities are encouraged to participate. Original Equipment Manufacturers (OEMs) / Consultants / design organizations who have proven expertise in providing the complete design solutions for 'Turboprop tractor configuration Fuel System and its LRU's 'on similar class FAR23/equivalent aircraft followed by certification expertise of the Fuel system for such aircraft.

1.1.2 Similar Work Experience Details:

Sl. No.	Name of the work with location	Date & Ref. no of completion certificate (If available)	Date of start Cost of work	Reference document (Work Order/ Work Completion Certificate) to be attached, mention page no

t], with the same or higher specifications having/with _Turboprop engine fuel system design & its LRU's development parameters (hereinafter called 'The Product'). The bidder should submit the manufacturer authorization form as appended in Chapter-8 and

- b) 'The bidder' should have manufactured and supplied (/erected/commissioned) at least _1 complete fuel system with required LRU's & equipment's numbers (herein after referred as 'The Qualifying Quantity') of 'The Product' in at least one of the last five years ending on 'The relevant Date', and out of which
- c) At least ___1___ numbers of offered version/model of 'The product' should be in successful operation for at least _5___ years on the date of bid opening.

Criteria 2 - Capability- Equipment & manufacturing Facilities:

'The bidder' must have an annual capacity to manufacture and supply (/erected/ commissioned) at least ___NA___ one set of LRU's for fuel system (The Qualifying Quantity)

Note: In case of multiple products in a tender, this criterion shall be applicable product wise. For example, in case of Printing Paper of different specifications/sizes, it shall be applicable to quantity of paper manufactured and supplied specification/size wise.

Criteria 3 - Financial Standing – under all conditions

- a) The average annual financial turnover of 'The bidder' during the last three years, ending on 'The relevant Date', should be at ₹_20.0 Crore_(or equivalent in foreign currency at exchange rate prevalent on 'The Relevant Date') as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.

Ministry of MSME have clarified that all Central Ministries/Departments/Central Public Section Undertakings may relax condition of prior turnover and prior experience with respect to Micro and Small Enterprises in all public procurements subject to meeting of quality and technical specifications. Further, the condition of prior turnover and prior experience may be relaxed for Start-ups (as defined by Department of Industrial Policy and Promotion) subject to meeting of quality & technical specifications and making suitable provisions in the bidding document (rule 173 (i) of GFR 2017))

- b) The net worth of the Bidder firm (manufacturer or principal of authorized representative) should not be negative on 'The Relevant Date' and also ii) should have not eroded by more than 30% (thirty percent) in the last three years, ending on 'The Relevant Date'.

Note: In case of Indian Bidders/companies (manufacturer or principal of authorized representative) who have been restructured by Banks in India, under the statutory guidelines, they would be deemed to have qualified the Financial standing criteria considering the institutional financial backing available to them.

Applicability in Special Cases:

- a) Applicability to 'Make in India': Bidders (manufacturer or principal of authorized representative) who have a valid/approved ongoing 'Make in India' agreement/ program and who while meeting all other criteria above, except for any or more of sub-criteria in Experience and Past Performance above, would also be considered to be qualified provided:

i)	their foreign 'Make-in-India' associates meet all the criteria above without exemption, and
ii)	the Bidder submits appropriate documentary proof for a valid/approved ongoing 'Make in India' agreement/program.
iii)	the bidder (manufacturer or principal of authorized representative) furnishes along with the bid a legally enforceable undertaking jointly executed by himself and such foreign Manufacturer for satisfactory manufacture, Supply (and erection, commissioning if applicable) and performance of 'The Product' offered including all warranty obligations as per the general and special conditions of contract.

- b) Authorized Representatives: Bids of bidders quoting as authorized representative of a principal manufacturer would also be considered to be qualified, provided:

i)	their principal manufacturer meets all the criteria above without exemption, and
ii)	the principal manufacturer furnishes a legally enforceable tender-specific authorization in the prescribed form assuring full guarantee and warranty obligations as per the general and special conditions of contract; and
iii)	the bidder himself should have been associated, as authorized representative of the same or other Principal Manufacturer for same set of services as in present bid (supply, installation, satisfactorily commissioning, after sales service as the case may be) for same or similar 'Product' for past three years ending on 'The Relevant Date'.

- c) Joint Ventures and Holding Companies: Credentials of the partners of Joint ventures cannot (repeat cannot) be clubbed for the purpose of compliance of PQC in supply of Goods/Equipment, and each partner must comply with all the PQC criteria independently. However, for the purpose of qualifying the Financial Standing Criteria, the Financial Standing credentials of a Holding Company can be clubbed with only one of the fully owned subsidiary bidding company, with appropriate legal documents proving such ownership.

Note for Bidders:

- a) 'Doctrine of Substantial Compliance': The Pre-Qualification Bidding (PQB) and Pre- Qualification Criteria (PQC) are for shortlisting of sources who are competent to perform this contract to ensure best value for money from expenditure of Public Money. This process is neither intended to bestow any entitlement upon nor to create any rights or privileges for the Bidders, by way of overly hair-splitting or viciously legalistic interpretations of these criteria, disregarding the very rationale of the PQB and PQC. Keeping this caveat in view, interpretation by the Purchaser would be based on common usage of terminologies and phrases in public procurement in accordance with the 'Doctrine of Substantial Compliance' and would be final.

- b) The Bidder must declare, whether asked or not in a bid document, any previous transgressions of such a code of integrity with any entity in any country during the last three years or of being debarred by any other Procuring Entity. Failure to do so would amount to violation of this code of integrity.
- c) In case of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/ dealer. There can be only one bid from the following:
- | | |
|-----|--|
| i) | The Principal manufacturer directly or through one Indian agent on his behalf; and |
| ii) | Indian/foreign agent on behalf of only one principal. |
- d) Along with all the necessary documents/certificates required as per the tender conditions, the bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity (both technical and financial), for manufacture and supply of the required goods/equipment, within the specified time of completion, after meeting all their current commitments.
- e) Supporting documents submitted by the bidder must be certified as follows:
- | | |
|-----|---|
| i) | All copy of supply/work order; respective completion certificate and contact details of clients; documents issued by the relevant Industries Department/National Small Industries Corporation (NSIC)/ manufacturing license; annual report, etc., in support of experience, past performance and capacity/capability should be authenticated by the by the person authorized to sign the tender on behalf of the bidder. Original Documents must be submitted for inspection, if so demanded. |
| ii) | All financial standing data should be certified by certified accountants, for example, Chartered Accountants/Cost Accountants or equivalent in relevant countries; and Indian bidder or Indian counterparts of foreign bidders should furnish their Permanent Account Number. |
- f) A bidder or any of its affiliates who participated as a consultant in the preparation of the design or technical specifications of the contract i.e. the subject of the bid; cannot participate in the bidding process.
- g) Indian agents quoting on behalf of its foreign principal need to submit a copy of the agency agreement with the foreign principal detailing the services to be rendered by them on behalf of the principals, failing which its bid shall not be considered.
- (h) Foreign bidders to disclose the name and address of agent and representatives in India and Indian bidder to disclose their foreign principal or associates.

CHAPTER 7
Contract Form

Contract No. _____ Date: _____

THIS CONTRACT AGREEMENT is made
the [insert: number] day of [insert: month], [insert: year].

BETWEEN

- (1) The Council of Scientific & Industrial Research registered under the Societies Registration Act 1860 of the Government of India having its registered office at 2, Rafi Marg, New Delhi-110001, India represented by National Aerospace Laboratories, Bengaluru (hereinafter called "the Purchaser"), and
- (2) [insert name of Supplier], a corporation incorporated under the laws of [insert: country of Supplier] and having its principal place of business at [insert: address of Supplier] (hereinafter called "the Supplier").

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., [insert brief description of Goods and Services] and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of [insert Contract Price in words and figures, expressed in the Contract currency(ies)] (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

01. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
02. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:

(a)	This Contract Agreement
(b)	General Conditions of Contract
(c)	Special Conditions of Contract
(d)	Technical Requirements (including Schedule of Requirements and Technical Specifications)
(e)	The Supplier's Bid and original Price Schedules
(f)	The Purchaser's Notification of Award
(g)	[Add here any other document(s)]

03. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.
04. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
05. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Union of India on the day, month and year indicated above.

For and on behalf of the Council of Scientific & Industrial Research

Signed : [insert signature]
in the capacity of [insert title or other appropriate designation]
in the presence of [insert identification of official witness]

Signed : [insert signature]
in the capacity of [insert title or other appropriate designation]
in the presence of [insert identification of official witness]

For and on behalf of the Supplier

Signed : [insert signature of authorized representative(s) of the Supplier]
in the capacity of [insert title or other appropriate designation]
in the presence of [insert identification of official witness]

CHAPTER 8

Other Standard Forms (To be enclosed as indicated below)

TABLE OF CONTENTS

Sl. No.	Name	Annexure
1	Bid Security Form (to be enclosed with the technical bid)	A
2	Bid Securing Declaration. (to be enclosed with the technical bid)	B
3	Bidder Information Form (to be enclosed with the technical bid)	C
4	Manufacturers' Authorization Form (to be enclosed with the technical bid)	D
5	Performance Statement Form (to be enclosed with the technical bid)	E
6	Service Support Detail Form (to be enclosed with the technical bid)	F
7	Format of declaration of abiding by the code of integrity and conflict of interest to be submitted by the bidder (to be enclosed with the technical bid)	G
8	Deviation Statement Form (to be enclosed with the technical bid)	H
9	Bid Form (to be enclosed with the priced bid)	I
10	Performance Security Form (to be submitted on award of Contract)	J
11	Acceptance Certificate Form (to be submitted on award of Contract)	K
12	Integrity Pact (to be enclosed with the technical bid) To be executed on Company's Letterhead duly stamped and signed	L

Note: Please refer clause 1.10.1 of the bidding documents for other documents to be attached with the bids/offers

BID SECURITY FORM

Whereas

(hereinafter called the tenderer)

has submitted their offer dated _____
for the supply of _____
(hereinafter called the tender)

Against the Purchaser's Tender No. _____

KNOW ALL MEN by these presents that WE _____
of _____ having our registered office at
_____ are bound unto _____ (hereinafter called the "Purchaser")

In _____ the _____ sum _____ of

For which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20____.

THE CONDITIONS OF THIS OBLIGATION ARE:

(1)	If the tenderer withdraws or amends or modifies or impairs or derogates from the Tender in any respect within the period of validity of this tender OR
(2)	If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity
(a)	If the tenderer fails to furnish the Performance Security for the due Performance of the contract.
(b)	Fails or refuses to accept/execute the contract.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)

Name and designation of the officer
Seal, name & address of the Bank and address of the Branch

Note: Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

Tender No.:

BID-SECURING DECLARATION FORM

Date: _____

Bid No. _____

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

(a)	have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
(b)	having been notified of the acceptance of our Bid by the purchaser during the period of bid validity <ul style="list-style-type: none"> (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration).

Name: (insert complete name of person signing the Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of: (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

BIDDER INFORMATION FORM

- (a) [The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted. This should be done of the letter head of the firm]

Date : [insert date (as day, month and year) of Bid Submission]

Tender No : [insert number from Invitation for bids]

01.	Bidder's Legal Name [insert Bidder's legal name]
02.	In case of JV, legal name of each party: [insert legal name of each party in JV]
03.	Bidder's actual or intended Country of Registration: [insert actual or intended Country of Registration]
04.	Bidder's Year of Registration: [insert Bidder's year of registration]
05.	Bidder's Legal Address in Country of Registration: [insert Bidder's legal address in country of registration]
06.	<p>Bidder's Authorized Representative Information</p> <p>Name: [insert Authorized Representative's name]</p> <p>Address: [insert Authorized Representative's Address]</p> <p>Telephone/Fax numbers: [insert Authorized Representative's telephone/fax numbers]</p> <p>Email Address: [insert Authorized Representative's email address]</p>
07.	<p>Attached are copies of original documents of:</p> <p>Articles of Incorporation or Registration of firm named in 1, above.</p>

Signature of Bidder _____

Name _____

Business Address _____

MANUFACTURERS' AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Date : *[insert date (as day, month and year) of Bid Submission]*

Tender No. : *[insert number from Invitation For Bids]*

To : *[insert complete name and address of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 2.20 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

PERFORMANCE STATEMENT FORM**Details of similar equipment / systems supplied & installed during past 3 years in India & Abroad**

Tender No.:

Name of the Bidder _____

Order Placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered equipment	Value of order	Date of completion of deliver as per contract	Date of actual completion of delivery	Remarks indicating reasons for late delivery, if any	Has the equipment been installed/ working satisfactory? (Attach a certificate from the purchaser / Consignee)	Name of Contact person along with Telephone No., Fax No. and e-mail address

Signature and Seal of the manufacturer/Bidder

Place :

Date :

Tender No.:

SERVICE SUPPORT DETAIL FORM

Sr. No.	List of similar type of equipment's serviced in the past 3 years	Address, Telephone Nos., Fax No. and e-mail address of the buyer	Nature of training Imparted/ service provided	Name and address of service provider

Signature and Seal of the manufacturer/Bidder.....

Place :

Date :

Format for declaration by the Bidder for Code of Integrity & conflict of interest
(On the Letter Head of the Bidder)

Ref. No: _____

Date _____

To,

(Name & address of the Purchaser)

Sir/Madam,

With reference to your Tender No. _____ dated _____ I/We hereby declare that we shall abide by the Code of Integrity for Public Procurement as mentioned under Para 1.3.0 of ITB of your Tender document and have no conflict of interest.

The details of any previous transgressions of the code of integrity with any entity in any country during the last three years or of being debarred by any other Procuring Entity are as under:

- a
- b
- c

We undertake that we shall be liable for any punitive action in case of transgression/ contravention of this code.

Thanking you,

Yours sincerely,

Signature
(Name of the Authorized Signatory)
Company Seal

Tender No.:

DEVIATION STATEMENT FORM**PART –I****The following are the particulars of deviations from the requirements of the tender specifications:**

Sl.No.	Name of Specifications/ Parts/Accessories of Tender Enquiry	Specifications of quote Model / Part / Accessory	Compliance whether YES/NO	Deviation, if any to be indicated in unambiguous terms (The compliance/ Deviation should be supported by relevant Technical Literature)	Technical justification for the deviation, if any. If specification is superior / inferior than asked for in the enquiry, it should be clearly brought out in the justification

Signature of Bidder

- If the Bidder offers more than one model, then the Compliance Statement must be enclosed for each and every model separately.
- The Technical and Commercial deviations should be indicated separately.
- If the Bidder fails to enclose the compliance statement, his bid is likely to be rejected.

Place:

Date:

Signature and seal of the Manufacturer/Bidder

NOTE:

Where there is no deviation, the statement should be returned duly signed with an endorsement indicating **“No Deviations”**.

Tender No.:

PART – II**(Refer Clause 1.26 of Tender Document, Chapter-7 & Chapter-8)**

Sr. No.	Tender Clause No./Chapter/Annexure	Tender Requirement	Compliance	Document Submitted
1	ITB 1.16 Chapter 8:Annexure-A	EMD (to be valid till 45 days beyond the validity of Bid)	Yes / No	Yes / No
2	Chapter-8, Annexure-B	Bid Securing Declaration Form	Yes / No	Yes / No
3	ITB 1.18	Bid is Signed	Yes / No	Yes / No
4	ITB 1.17	Bid Validity (90 days after the date of Bid opening)	Yes / No Bid Valid up to.....	Yes / No
5	Chapter 8: Annexure –C	Bidder Information Form enclosed	Yes / No	Yes / No
6	Chapter 8: Annexure-D	Manufacturers Authorisation Form (MAF) (If Applicable) enclosed	Yes / No	Yes / No
7	Chapter 8 - Annexure E	Performance Statement Form enclosed	Yes / No	Yes / No
8	Chapter 8: Annexure F	Service Support details enclosed	Yes / No	Yes / No
9	Chapter 8: Annexure-G	Declaration-Code of Integrity	Yes / No	Yes / No
10	Chapter 8:Annexure H - Part I & Part II	Deviation Statement Form enclosed	Yes / No	Yes / No
11	Chapter 8: Annexure-L	Integrity Pact	Yes / No	Yes / No
12	Chapter 6	Audited Balance Sheet and Profit & Loss Account for the last three years, duly authenticated by Chartered Accountant/Cost Accountant	Yes / No	Yes / No
13	GCC/SCC 2.21	Warranty: One year warranty from Installation & Commissioning and date of acceptance	Yes / No	Yes / No
14	GCC/SCC 2.13	Agree to submit Performance Security 10% of PO Value	Yes / No	Yes / No
15	Chapter 3	Schedule of Requirement	Yes / No	Yes / No
16	Chapter 8: Annexure-I	Bid Form enclosed	Yes / No	Yes / No
17	Terms and Conditions		Yes / No	Yes / No

The Bidder should submit other documents such as fulfillment of financial qualification criteria, Schedule of Requirement (Chapter-3) and various forms as specified in Chapter-8.

Bid Form

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date : *[insert date (as day, month and year) of Bid Submission]*

Tender No. :

To : Director, CSIR-NAL, Bengaluru

We, the undersigned, declare that:

(a)	We have examined and have no reservations to the Bidding Documents, including Addenda No.: <i>[insert the number and issuing date of each Addenda]</i>
(b)	We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services <i>[insert a brief description of the Goods and Related Services]</i> as specified in Chapter 4
(c)	The total price of our Bid, excluding any discounts offered in item (d) below, is: <i>[insert the total bid price in words and figures, indicating the various amounts and the respective currencies]</i>
(d)	The discounts offered and the methodologies for their application are: Discounts. If our bid is accepted, the following discounts shall apply. <i>[Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]</i>
(e)	Our bid shall be valid for the period of time specified in ITB Clause 1.17.1, from the date fixed for the bid submission due date in accordance with ITB Clause 1.19 and it shall remain binding upon us and may be accepted at any time before the expiration of that period
(f)	If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 1.43 and GCC Clause 2.13 for the due performance of the Contract and also submit order acceptance within 14 days from the date of contract in accordance with ITB Clause 1.42 and GCC Clause 2.44;
(g)	The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: <i>[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]</i>

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(If none has been paid or is to be paid, indicate "none.")

(h)	We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
(i)	We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed : *[insert signature of person whose name and capacity are shown]*

In the capacity of *[insert legal capacity of person signing the Bid Submission Form]*

Name : *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Tender No.:

PERFORMANCE SECURITY FORM/STAND-BY LETTER OF CREDIT**MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY/ STAND-BY LETTER OF CREDIT**

To,

.....

WHEREAS (name and address of the supplier) (hereinafter called "the supplier") has undertaken, in pursuance of contract No. datedto supply (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the day of, 20.....

(Signature of the authorized officer of the Bank)

.....

Name and designation of the officer

.....

Seal, Name & Address of the Issuing Branch of the Bank

Note:

Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

Acceptance Certificate				Annexure-K	
PO No. NAL/PUR/			Date:		
Sub: Certificate of Supply, Installation, Commissioning, Training and Acceptance of Goods & Services					
1	This is to certify that the equipment as detailed below has/have been received in good condition along with all the standard and special accessories (subject to remarks in Para 2). The same has been installed, commissioned and accepted.				
(a)	Contract No.				
	Date				
	Value				
	Mode of Shipment				
(b)	Description of the Equipment				
(c)	Name of the Consignee		CSIR-NAL, Bengaluru		
(d)	Scheduled date of Delivery of the Consignment to the Laboratory/Institute				
(e)	Details of LC Established				
	Date of Establishment	Date of Shipment	Date of Expiry		
(f)	Actual date of receipt of Consignment by the Laboratory/Institute				
	Date of Shipment	Date of Receipt at CSIR-NAL			
(g)	Scheduled date for completion of Installation, Commissioning and acceptance				
(h)	Actual date of completion of Installation, Commissioning and acceptance				
(i)	Penalty for Late Delivery (at Laboratory / Institute level) Rs.				
(j)	Penalty for Late Installation, Commissioning and Acceptance (at Laboratory / Institute level) Rs.				
2	Details of accessories/items not yet supplied and recoveries to be made on that account				
Sr. No.	Description			Amount to be recovered	
3	The acceptance test has been done to our entire satisfaction. The Supplier has fulfilled his contractual obligations satisfactory - Yes				
	OR				
	The Supplier has failed to fulfill his contractual obligations with regard to the following:				
Sr. No.	Description			Amount to be recovered	
The amount of recovery on account of failure of the supplier to meet his contractual obligations is as indicated at Para 3					
4	Liquidated Damages/Penalty Percentage		(a) If the Supplier fails to Supply, Install and Commission the system as per specifications mentioned in the order within the due date including training, the Supplier is liable to pay penalty of 0.5% of order value per week or part of a week.		
	No. of Days / Weeks delayed		(b) The maximum amount of penalty shall be 10%		
			Amount to be recovered		
5	Warranty Details				
6	Training, if any		COMPLETED/ NOT COMPLETED (attach training Certificate/document, if any)		
7	Details of Performance Security submitted in the form of Bank Guarantee / Demand Draft				
	BG No.	Date	Amount in Rs.	Valid till	% of BG
For Purchaser (Indenting Officer)			For Purchaser (Project Leader)		
Signature			Signature		
Name			Name		
Designation			Designation		
Name of the Laboratory/Institute			Name of the Laboratory/Institute		
Date			Date		
For Supplier					
Signature					
Name					
Designation					
Name of the Supplier					

ANNEXURE–L

FORMAT OF INTEGRITY PACT **INTEGRITY PACT**

Tender No.:

Between

Council of Scientific & Industrial Research (CSIR) a Society registered under the Indian Societies Act 1860 represented by _____ hereinafter referred to as “The Principal”.

Andherein referred to as “The Bidder/ Contractor.”

Preamble

The Principal intends to award, under laid down organizational procedures, contract/s for The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/ transparency in its relations with its Bidder(s) and/or Contractor(s).

In order to achieve these goals, the Principal will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

- (1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - (a) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - (b) The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - (c) The Principal will exclude from the process all known prejudiced persons.
- (2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary action.

Section 2 – Commitments of the Bidder(s)/Contractor(s)

- (1) The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 - (a) The Bidder(s)/Contractor(s) will not, directly or through any other Person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - (b) The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, Certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

- (c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s)/Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- (d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the Bidder(s)/Contractors(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the “Guidelines on Indian Agents of Foreign Suppliers” shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only. Copy of the “Guidelines on Indian Agents of Foreign Suppliers” is annexed and marked as Annexure.
- (e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- (2) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- (3) The person signing IP shall not approach the courts while representing the matters to IEMs and he/she will await their decision in the matter.

Section 3 – Disqualification from tender process and exclusion from future Contracts

- (1) If the Bidder(s)/Contractor(s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as per the procedure mentioned in the “Guidelines on Banning of business dealings”. Copy of the “Guidelines on Banning of business dealings” is annexed and marked as Annex -“B”.

Section 4 – Compensation for Damages

- (1) If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- (2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the contract value or the amount equivalent to Performance Bank Guarantee.

Section 5 – Previous transgression

- (1) The Bidder declares that no previous transgressions occurred in the last 3 Years with any other Company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in “Guidelines on Banning of business dealings.”

Section 6 – Equal treatment of all Bidders / Contractors/ Sub-contractors

- (1) The Bidder(s)/Contractor(s) undertake(s) to demand from all Subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.

- (2) The Principal will enter into agreements with identical conditions as this one with all Bidders, Contractors and Subcontractors.
- (3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 – Criminal charges against violating Bidders / Contractors/ Subcontractors

- (1) If the Principal obtains knowledge of conduct of a bidder, Contractor or Subcontractor or of an employee or a representative or an associate of a bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8 - Independent External Monitors

- (1) The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- (2) The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the JS (A), CSIR.
- (3) The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Subcontractor(s) with confidentiality.
- (4) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- (5) As soon as the Monitor notice, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- (6) The Monitor will submit a written report to the JS(A), CSIR within 8 to 10 weeks from the date of reference or intimation to him by the Principal and should the occasion arise, submit proposals for correcting problematic situations.
- (7) Monitor shall be entitled to compensation on the same terms as being extended to/provided to Independent Directors on the CSIR.
- (8) If the Monitor has reported to the JS(A), CSIR, a substantiated suspicion of an offence under relevant IPC/PC Act, and the JS(A), CSIR has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
- (9) The word 'Monitor' would include both singular and plural.

Section 9 – Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 10 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been

awarded.

If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by JS(A), C

Section 10 – Other provisions

- (1) This agreement is subject to Indian Law. Place of performance and Jurisdiction is the Registered Office of the Principal, i.e. New Delhi
- (2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- (3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- (4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(For & On behalf of the Principal)
(Office Seal)

(For & On behalf of Bidder/Contractor)
(Office Seal)

Place.....

Place.....

Date.....

Date.....

Witness 1:(Name & Address): _____

Witness 2:(Name & Address): _____

TERMS & CONDITIONS

Tender No.	NAL/PUR/CAD/321/20-Z	
Terms and Conditions		
Sr. No.	Approximate weight of the Consignment	Approximate dimensions of the consignment
1		
2	Indian Customs Tariff No. and HSN No. (ICT & HSN No.)	
3	Country of Origin	
4	Percentage of Local Content	
5	Mode of Shipment By Air / SEA / Road / e-download	
6	Port of Destination	Final Destination
7	Delivery Term (INCO Term)	
8	Delivery Schedule including Supply, Installation, Commissioning, Training & Acceptance	
a)	Delivery of the Item as per Chapter-4/BoQ [In weeks / Days / Months] from the date of PO/ LC/ ILC/ Advance [Mention the appropriate term]	
b)	Installation & Commissioning from the date of Delivery of item [In weeks/Days/Months]	
c)	Training from the date of Installation & Commissioning of item [In weeks/Days/Months]	
d)	Acceptance from the date of Training [In weeks/Days/Months]	
9	Installation & Commissioning (if any) Quoted Price inclusive or exclusive	
10	Training (if any) Quoted Price inclusive or exclusive	

11	Payment Term	
12	Currency of Bid/Quotation	
13	Statutory Levies [GST/IGST or any other taxes, duties] % of tax to be mentioned.	
14	Bidder GST No.	
15	Bidder Bank Details along with Cancelled cheque	
16	Insurance Coverage as per GCC/SCC Clause No.2.17.1	
17	Warranty	
18	Agree to submit Performance Security as per GCC/SCC Clause No.2.13.1	
19	Integrity Pact as per GCC/SCC Clause No.2.43.1 to be signed and stamped on Organization's Letterhead, if applicable	
20	Validity of offer as per Tender document	
21	Order to be placed [Full address, Tel #, Fax #, Email Id, Contact Person]	
22	Any other	
23	Total Price quoted as per BoQ/Price Schedule/List of Deliverables exclusive of tax	
24	Total Price quoted as per BoQ/Price Schedule/List of Deliverables inclusive of tax	
Note:	Unit Price indicating currency FOB (named port of shipment) or FCA (named place of delivery)	