

TENDER NO: NAL/PUR/ALD/580/19-Z Date:06-Jul-2020

TENDER DOCUMENT

FOR

FABRICATION, WIRING, INTEGRATION, TESTING AND INSTALLATION OF AVIONIC TEST RIG INSTRUMENTATION RACKS.

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
Fax #: 00 91 80 25269611

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/ALD/580/19-Z	Fabrication, wiring, Integration, Testing and Installation of Avionic test rig instrumentation Racks.	Chapte	s as per er-4 and oQ	Two

1. 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

- 2. 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.
- **3.** 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	23-Jul-2020	10:30 Hrs	THROUGH WEBEX

Bidders desirous of attending Pre-bid meeting are required to provide the following details: -

- 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.

The above information should be sent by e-mail to mkala@nal.res.in /spo@nal.res.in on or before 22-Jul-2020 (3:30 p.m.)

- (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)	In case of Indigenous Bidder		
	Rs.2,00,000/-		
	[Rupees Two Lakh Only]		
b)	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 to address mentioned in Sr.No.1 above on or before bid submission date and time as mentioned in "Date Sheet" failing which the bid shall be summarily 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 e-B		Venue
Date Time (IST)		Date	Time (IST)	As detailed at Sr. No.1
10-Aug-2020	10:00 Hrs	11-Aug-2020	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 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 28th May, 2018 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. 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: -

- O1. 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'.
- O2. 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.

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CRITICAL DATE SHEET

SI. No.	Stage	Date	Time Hrs
1.	Publish Date & Time	06-Jul-2020	18:55
2.	Sale/document Download Start Date & Time	06-Jul-2020	18:55
3.	Last Date & time for receipt of queries	NOT APF	LICABLE
4.	Pre-bid Conference, if any	23-Jul-2020	10:30
5.	Bid Submission Start Date & time	06-Jul-2020	18:55
6.	Bid Submission End Date & Time	10-Aug-2020	10:00
7.	Bid Opening Date & Time	11-Aug2020	11:00

CHAPTER - 1

INSTRUCTIONS TO BIDDERS-Table of Contents

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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,
111)	and-compeditive practice	, , , , , , , , , , , , , , , , , , , ,
		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
\ i\	"Obota stice prostice"	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 lo		
	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)	Pro	visions 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 Purchase 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.
(1)	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 G	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 changes, 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 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
- 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. <u>Documents Establishing Bidder's Eligibility and qualifications</u>

- 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;

- (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 initialled 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 initialled 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. <u>Deadline for Submission of Bids</u>

- 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. <u>Late Submission of EMD</u>

- 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)	(a) Bid Form and Price Schedule, in accordance with ITB Clause 1.10;		
(b)	All th	e 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 no	at meet the basic requirements, are to be treated as unresponsive and ignored. The	
	follow	ring are some of the important points, for which a tender may be declared as	
	unres	sponsive 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 <u>Bidder's right to question rejection.</u>

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:

C	spresent 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,		lification, bidder registration or bidding, as the case may be, can make such				
		representation;				
	ii)		ase pre-qualification bid has been evaluated before the bidding of Technical bids, an			
			lication for review in relation to the technical bid may be filed only by a bidder who has			
		qua	lified in pre-qualification bid;			
	iii)	In c	case technical bid has been evaluated before the opening of the financial bid, an			
		арр	lication for review in relation to the financial bid may be filed only by a bidder whose			
		tech	nnical bid is found to be acceptable.			
	iv)	Foll	owing decisions of the purchaser in accordance with the provision of internal			
		guidelines shall not be subject to review:				
		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;		Provisions limiting participation of bidders in the procurement process;				
e) The decision to enter into negotiations with the L1 bidder;		The decision to enter into negotiations with the L1 bidder;				
f) Cancellation of the procurement process except where it is intended to so		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				

Complaints against specifications except under the premise that they are either

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.

vague or too specific so as to limit competition may be permissible.

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 <u>Evaluation and comparison of bids</u>

- 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)	(a) Where the purchaser has restricted the eligibility of suppliers to Indian suppliers of per para 08 of the invitation to bid/NIT. This is applicable only for those items for the Nodal Ministry has communicated that there is sufficient local capacity and competition for the cost of procurement up to Rs. 50.00 lakhs.		
(b)		tendered items are not listed by the Nodal Ministry indicating the local capacity 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	e tendered item is not divisible, the following procedure of evaluation shall be
(0)	follow	• • • • • • • • • • • • • • • • • • • •
	(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.
iii) iv)	The agency commission etc., if any. Wherever applicable, the cost towards the installation, commissioning, spares,

- 1.32.8 The comparison between the indigenous and the foreign offers shall be made on FOR 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 an 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.
- 1.32.12There is <u>no provision to purchase optional items</u>. 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 valuated 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.

F. 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 Bidderis 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
 - (c) 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)	(ii) Promise on the part of bidders not to offer any benefit to the employees of the Purcha		
	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)

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

GENERAL CONDITIONS OF CONTRACT (GCC)

2.1 <u>Definitions</u>

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

No. Expressions	Sr.	Words /	Meaning
together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein. The documents 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. Calendar day (e) Completion The fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the 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. (ii) 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	No.		
Documents 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 (e) 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 The place named in the SCC.	(a)		together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
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	, ,		designated place in India as specified in SCC
	(n)		The place named in the SCC.

2.2 <u>Contract Documents</u>

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:		visions 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 <u>Joint Venture, Consortium or Association</u>

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:

Ī	(a)	the installation of the Goods by the Supplier or the use of the Goods in India;
		and
Ī	(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
 - (c) 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 <u>Inspections and Tests</u>

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.
(c)	Each package should be marked as 1/x, 2/x, 3/xx/x, where "x" is the total No. of
	packages contained in the consignment
	All the sides and top of each package should carry an Appropriate indication/ label/
(d)	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.

Deta	etails 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		
(c)	Certificate of country of origin		
(d)	Insurance certificate, if required under the contract		
(e)	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		
NOT	ΓΕ:		
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			
(c)	Certificate of country of origin			
(d)	Manufacturer's guarantee and Inspection certificate, if any			
(e)	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			
(1)	Any other document(s) as and when required in terms of the contract			
NOT	E :			
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			
	them accordingly. It is advised to give us and our CHA, a pre-alert before the consignme			
	dispatched. If there is delay in clearing of the consignment for <u>not</u> giving timely pre-			
	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 Inco terms 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 despatch, then the bidder is free to engage the services of any other Airlines.

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 <u>Transportation</u>

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;	
(c)	The changes in inspection arrangements;	
(d)	Changes in terms of payments and statutory levies;	
(e)	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 <u>Liquidated Damages</u>

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	
	Clause on Extension of Time; or	
(b)	If the Supplier fails to perform any other obligation(s) under the Contract.	
(c)	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.		
(c)	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:

Ī	(a)	To have any portion completed and delivered at the Contract terms and prices; and/or		
ſ	(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.
- 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** 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% as per notification 24/2002 Customs on all imports.

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 <u>Protection against Damage</u>

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.

SI.No.	GCC Clause Ref	Condition
1	GCC 2.1.1(I)	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
		Bill to address is same as above
2	GCC 2.1.1(m)	The Final Destination is:
	9.00 =:=:=(:::)	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
3	GCC 2.13.1	Performance Security
		The amount of the Performance Bank Guarantee shall be 10% 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.
4	GCC 2.16.3	Delivery - Mode of Transportation/Shipment
		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	Insurance
		From Abroad
		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.
		Within India
		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
6	000 0 01 0	basis" including strikes, riots and civil commotion.
6	GCC 2.21.3	The period of validity of the Warranty shall be
		The warranty shall remain valid for One Year (12 months) from the date of
		acceptance.
7	GCC 2.22.1	Payment Terms
		The method and conditions of payment to be made to the Supplier under
		this Contract shall be as follows:
		A 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) E-Payment: All payments, CSIR-NAL prefers to make Electronic
		Transfers (RTGS) through State Bank Of India, NAL Branch,
		Bengaluru.

		(c) 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	For notices, the Purchaser's address is
		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: <u>purchasek@nal.res.in</u> , mkala@nal.res.in
11	GCC 2.43.1	Integrity Pact - The integrity pact is not to be signed. However, efforts must
		be made to realize the objectives & spirits thereof.

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 Quantity & Delivery Schedule										
Sr. No. Sr.				Deliv	rery Schedule					
3)	Peri	od of	delivery shall start from :							
C) [shipment or named	place of del	ivery:				
-	Go	nde fr	om India							
	ao.		on maid							
D)	Sco	pe of	Supply:							
-										
						nent, acceptance test,				
					4	Time Frame				
		1	Site Preparation (if required)	(if required)						
		2	Installation & Commissioning							
	;	3	Acceptance Test							
		4								
		5	7	<u>u</u> ,	3/					
Place	: :		s	ignature of the Bidde	er :					
Date	:									
Notes	s for	Bidd	ers:							
		must contr perio cons	deliver the consignment in full from fact or from the date of advance pay d desired for installation and con ignment at the premises of the Purcha	the date of establion the ment etc. It should an incoming of the ser.	shment of L also indica equipment	C or from the date of te separately the time after arrival of the				
			date or period for delivery should be ca							
(3))	Incot deliv	implications of delivery terms stipul erms rules (i.e., EXW, or CIF, CIP, FOB, ered to the carriers), and	FCA terms—that "de	elivery" takes	place when goods are				
(4))		date prescribed herein from which the							

Chapter 4

Specifications and Allied Technical Details for Fabrication, wiring, integration, testing and installation of avionics test rig instrumentation racks

4.1 <u>End Use:</u>

CSIR-NAL is developing 19 seater multirole light transport aircraft, SARAS Mk2. As part of this program, Avionics Integration Test Rig (AITR) is being setup. This facility shall be used for pilot evaluation of aircraft avionics functionality and Avionics LRU testing.

4.2 <u>Detailed Specifications</u>

4.2.1 INTRODUCTION

CSIR-NAL is developing 19 seater multirole light transport aircraft, SARAS Mk2. As part of this program, Avionics Integration Test Rig (AITR) is being setup. This facility shall be used for pilot evaluation of aircraft avionics functionality and Avionics LRU testing.

4.2.1.1 Acronyms and Abbreviation

For Acronyms and Abbreviation Refer Error! Reference source not found..

Table 1: Acronyms and Abbreviation

ACRONYMS/ABBREVIATIONS	EXPANSION
ACARS	Aircraft Communication Addressing and Reporting System
ACAS	Aircraft Collision and Avoidance System
ADCU	Air Data Computer Unit
ADF	Automatic Direction Finder
AFCS	Automatic Flight Control System
AHRS	Attitude And Heading Reference System
AITR	Avionics Integration Test Rig
ALD	Aerospace Electronics Division
AMS	Audio Management System
AP	Autopilot
AWG	Audio Warning Generator
BIBO	Break-In-Break-Out
СВ	Circuit Braker
CPDLC	Controller-pilot Data Link Communications
CSIR	Council of Scientific and Industrial Research
CWP	Caution and Warning Panel
CWxR	Color Weather Radar
DME	Distance Measuring Equipment
DoF	Direction of Freedom
DPDT	Double Pole Double Throw
EDCU	Engine Data Concentrator Unit
EFIS	Electronic Flight Instrument System
EGPWS	Enhanced Ground Proximity Warning System
EICAS	Engine Indication and Crew Alerting System
EFIS	Electronic Flight Information System
ELT	Emergency Locator Transmitter
FDAU	Flight Data Acquisition Unit
FDS	Flight Dynamic Simulation
FMCD	Flight Mechanic and Control Division
FMS	Flight Management system
FPDCU	Flat Panel Control Display Unit
HCM	Heater Current Monitors
HF	High Frequency
ICD	Interconnection Document
IPC	Institute of Printed Circuits
ISIS	Integrated Standby Instrument System
LRU	Line Replaceable Unit
MFD	Multi-Function Display

ACRONYMS/ABBREVIATIONS	EXPANSION
MIL-STD	Military Standard
MIP	Main Instrument Panel
Mk2	Mark-2
NAL	National Aerospace Laboratories
NAVCOM	Navigation and Communication Unit
OAT	Outside Air Temperature
PB	Push Button
PC	Personal Computer
PDU	Power Distribution Unit
PFD	Primary Flight Display
PSA	Production Standard Aircraft
PSTR	Power Supply Test Rig
RADALT	Radio Altimeter
RPU	Remote Processing Unit
RTTS	Real Time Target System
RTU	Radio Tuning Unit
SPDT	Single Pole Double Throw
SSCVFDR	Solid State Cockpit Voice Flight Data Recorder
SW	Switch
SWS	Stall Warning System
TBD	To Be Defined
TCAS	Traffic Alert and Collision Avoidance System
TDR	Transponder
TTI	Triple Trim Indicator
VHF	Very High Frequency
VIR	Very High Frequency Omni directional Range and Instrument
VIII	Landing System
WxR	Weather Radar

4.2.2 OVERVIEW OF SARAS Mk II AVIONIC SYSTEM

SARAS aircraft architecture consists of Display Systems, Communications Systems, Navigation Systems, Surveillance Systems, Utility Systems, Data Recording Systems, Warning system and Miscellaneous Systems. The specifications detailed in subsequent sections are taken from the existing avionics systems of SARAS PT1N Aircraft along with few new aircraft systems; in addition to that, industry standard specifications are also provided.

4.2.3 OVERVIEW OF AVIONIC INTEGRATION TEST RIG (AITR)

The top-level architecture of Avionics Integration Test Rig is as shown in **Error! Reference source n ot found.**. The Avionics Integration Rig (AITR) shall be designed to use as system integration platform for functional testing of SARAS Mk II avionics system in lab environment.

The Test Rig shall consist of aircraft LRUs and simulated data to recreate the aircraft operational environment.

- a) It shall have avionics system simulation facility housed in racks.
- b) It shall have provision to integrate LRU and cockpit controls.
- c) It shall have facility to acquire, monitor and log the data during integrated testing.
- d) Actual LRU shall be supplied by CSIR-NAL to integrate on test rig.

4.2.3.1 Scope

- a) Design, Development and fabrication of AITR along with accessories
- b) Fabrication of Break-In-Break-Out (BIBO) Panel for each LRU.
- c) Installation of LRUs on Racks.
- d) Looming for the interconnection between LRU, Simulator system, cockpit interface unit and power distribution unit.
- e) Pre-dispatch acceptance testing at Bidders place by NAL.
- f) Commissioning final Acceptance testing and Certification of AITR at CSIR-NAL, Bangalore.

4.2.3.2 Layout of Avionics Integration Test Rig

The proposed Avionics Integration Rig layout is as shown in Error! Reference source not found. a nd detailed layout of the Rig is as shown in Error! Reference source not found. and Error! Reference source not found. The layout proposed in these figures are indicative in nature and Bidder can also propose any other possible schemes (layout LRU arrangement interfaces in the racks etc.) to CSIR-NAL.

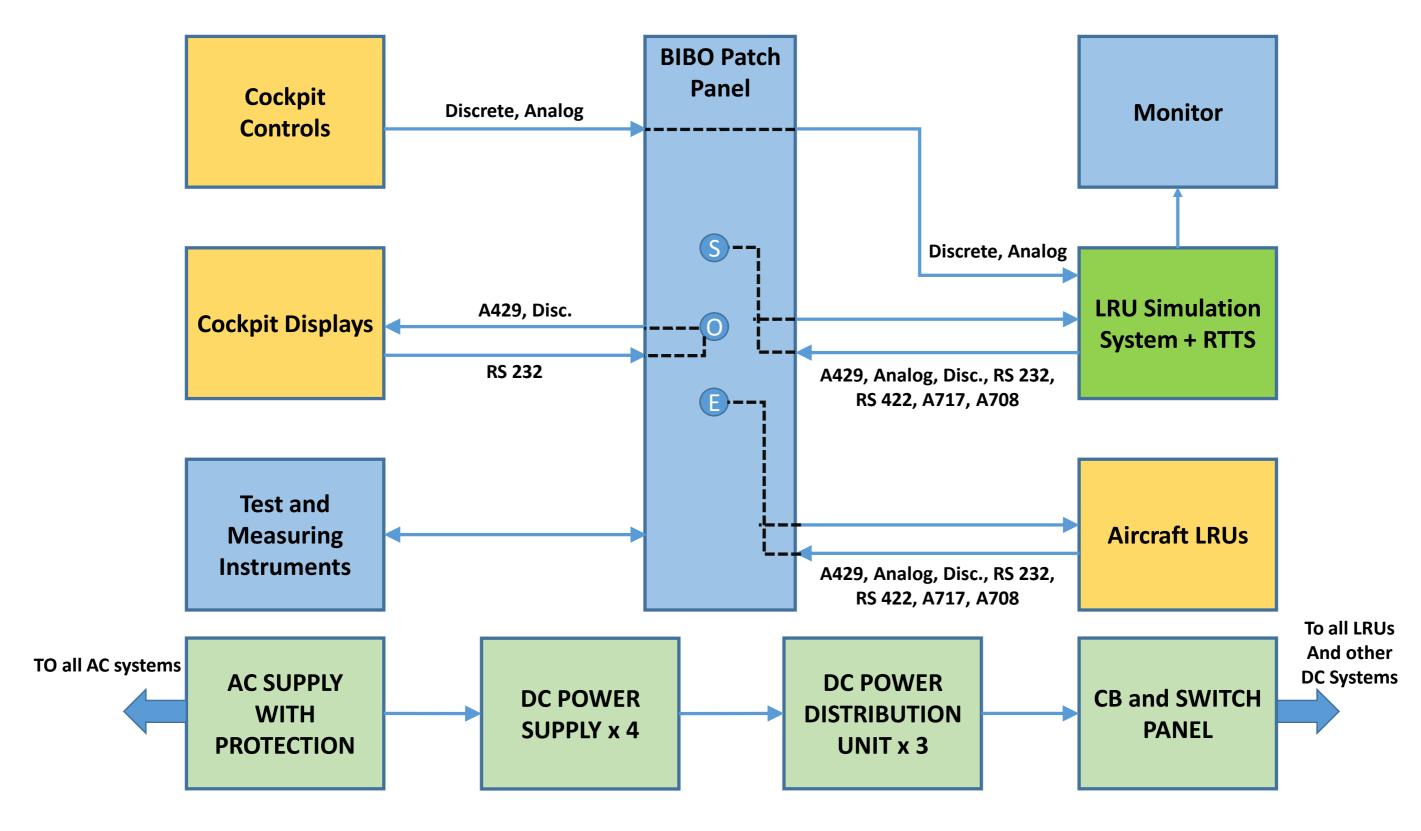


Figure 1: Overview of AITR

Ground Floor Mezzanine Floor

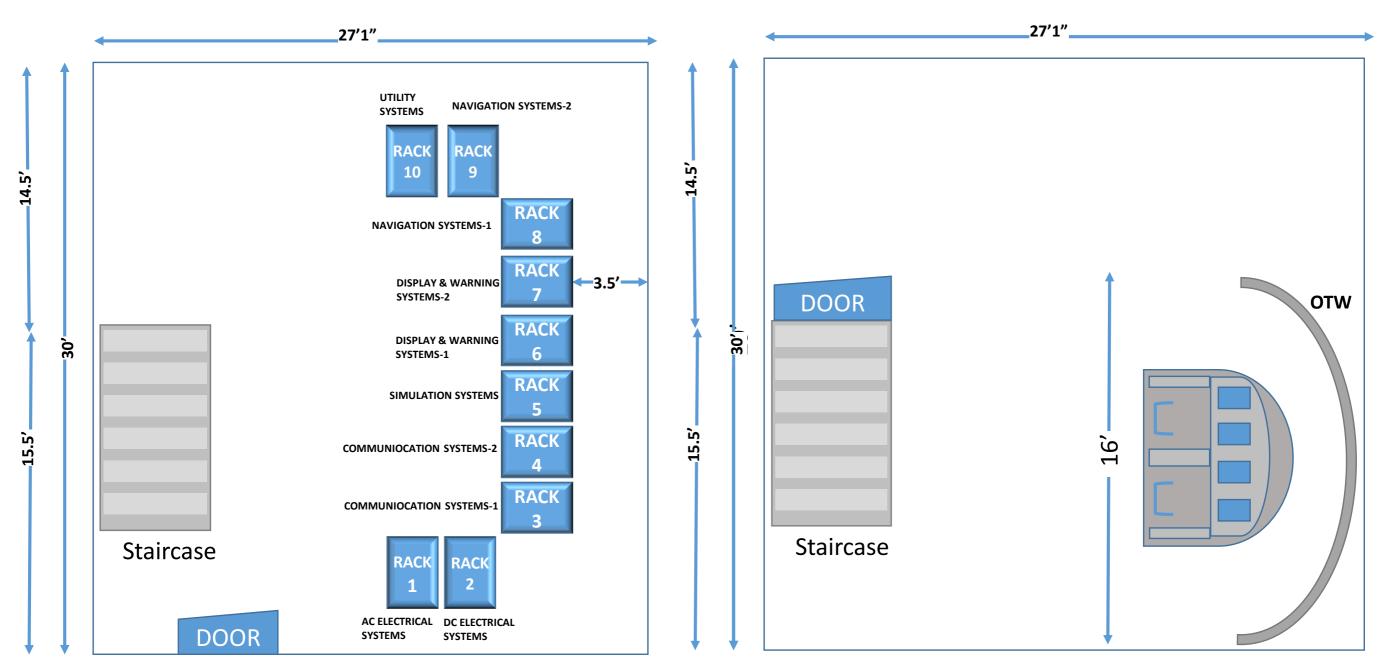


Figure 2: Layout of AITR

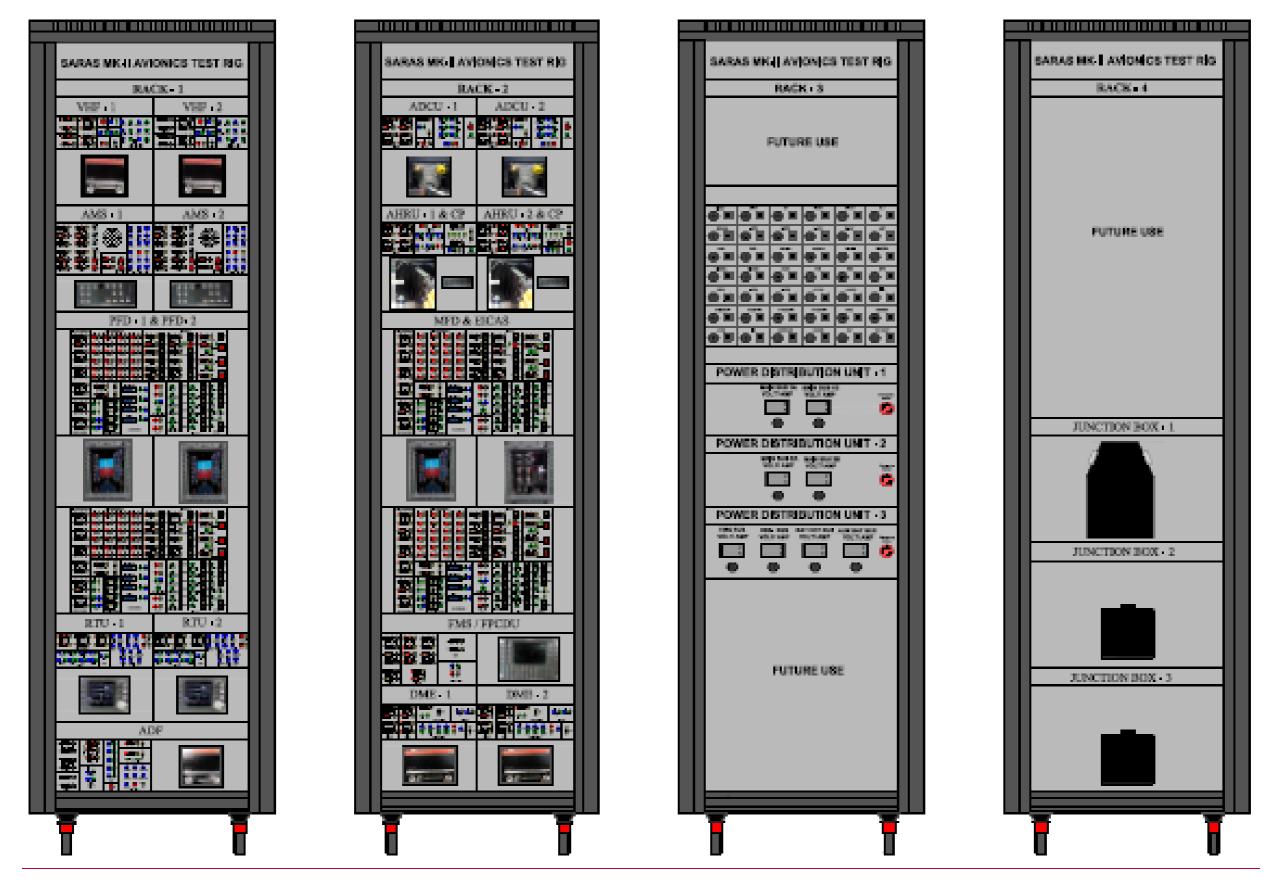


Figure 3: Arrangement of AITR Racks - 1

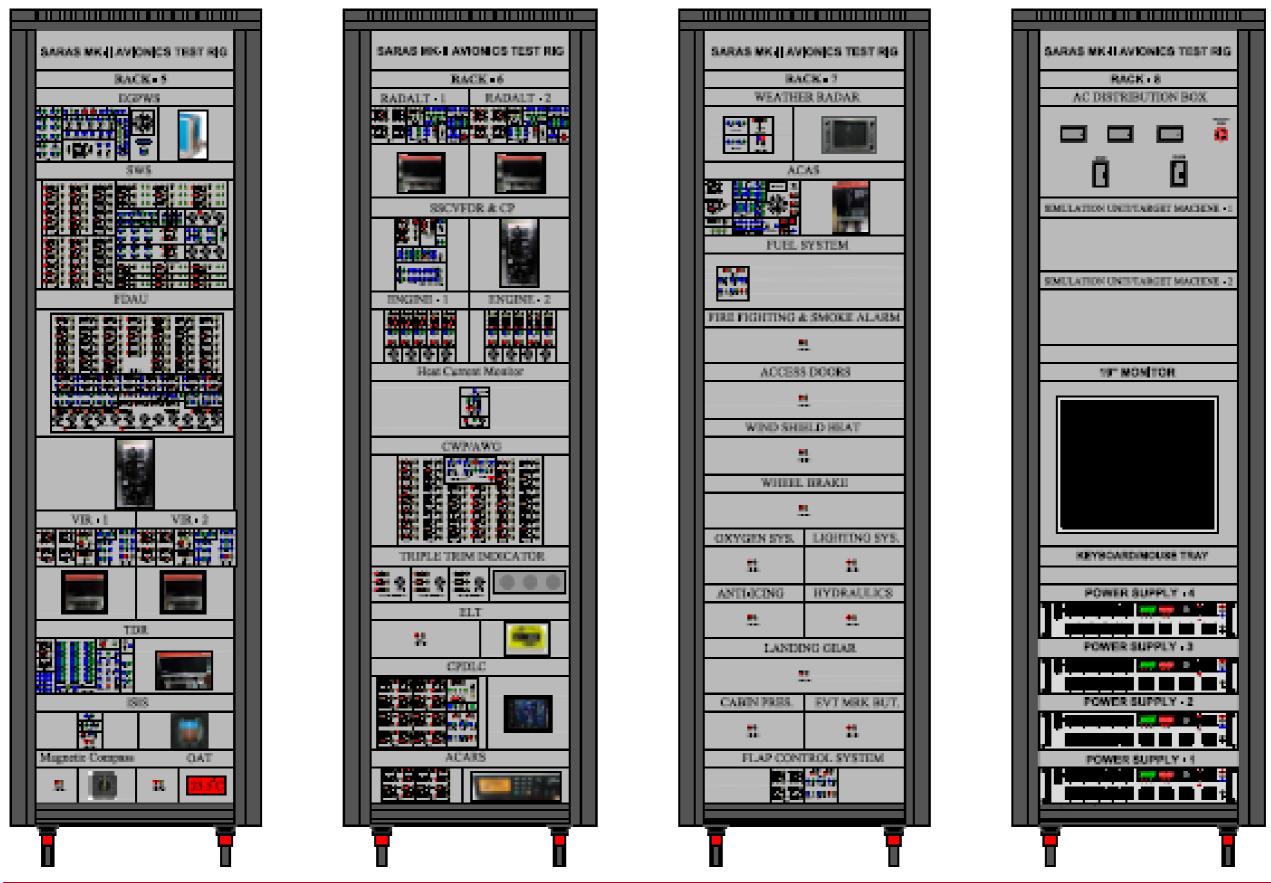


Figure 4: Arrangement of AITR Racks - 2

The Test Rig shall consist of

- a. Avionics systems as mentioned in Table 2: List of Avionics LRUs
- b. Avionics System (LRU) Simulation facility.
- c. Passive Switching mechanism between Actual LRU signal and Simulated LRU signal.
- d. Provision for integrating aircraft LRUs
- e. Racks and consoles
- f. Power supply distribution management system
- g. Utilities systems such as measuring Instruments and cooling system.
- h. Electrical wiring looms.

Table 2: List of Avionics LRUs

REF. NO.	SYSTEM DESCRIPTION	QTY./ AIRCRAFT
1	Communication Suite	
1.1	VHF Communication System	2
1.2	HF Communication System	1
1.3	Radio tuning system	2
1.4	Digital Interphone System	2
1.5	ELT System	1
1.6	SELCAL	1
2	Navigation Suite	
2.1	VHF Navigation System	
2.1.1	VHF Omni range (VOR) system	2
2.1.2	Localizer Receiver	2
2.1.3	Glideslope Receiver	2
2.1.4	Marker Receiver	2
2.15	Flight Management system with GPS	1
2.2	Automatic Direction Finder (ADF) System	1
2.3	Distance Measuring Equipment (DME) System	2
2.4	Weather Radar	1
2.5	Enhanced Ground Proximity Warning System (EGPWS) / Terrain Awareness and Warning System (CLASS-A)	1
2.6	Radio Altimeter System	2
2.7	Attitude And Heading Reference System (AHRS)	2
2.8	Air Data Computer (ADC)	2
2.9	Airborne Collision Avoidance System (ACAS)-II	1
2.10	Mode S Transponder With optional 1090 ADS-B OUT	2 (Mode-S Transponder), 1 (ADS B Out- Optional)
3	Glass Cockpit (Flight Deck)	4
4	Solid State Flight Data Recorder (SSFDR)	1
5	Solid State Cockpit Voice Recorder (SSCVR))	1
6	Autopilot	1(single unit dual channel)
7	Stall Warning System	1(single unit dual channel)
8	Audio Warning Generator	1

REF. NO.	SYSTEM DESCRIPTION	QTY./ AIRCRAFT
9	Electronic Flight Bag	1
10	ENHANCED /SYNTHETIC VISION SYSTEM	1
11	IN FLIGHT ENTERTAINMENT	1 set
12	Engine and Airframe data concentrator	1(single unit dual channel)
13	Controller Pilot Data Link Communication (CPDLC)	1
14	Aircraft Communications Addressing and Reporting System (ACARS)	1
15	Integrated Standby Instrument System (ISIS)	1
16	Clock and other Utility Systems	01 Set

- The Rig shall have dedicated racks for power management, which shall act as the central power distribution of 18VDC to 32 VDC. Nominal 28VDC to aircraft LRUs. Detailed scheme shall be provided by NAL.
- j. It shall house Digital Panel Meter (DPM) to monitor voltages and current for LRUs which is available in Power Distribution unit and it is scope of NAL. Voltage and current range of DPM shall be from 0 to 40VDC.
- k. The Rig shall have provision to mount the aircraft LRUs as listed in **Error! Reference s** ource not found..
- Bidder shall follow the OEM guidelines to mount the LRU on test rig with recommended kits.
- m. Bidder shall develop mounting platform with the exact dimension as provided by OEM for the installation of LRUs in the Rig. Detailed information including weight and volume of LRUs are given in **Error! Reference source not found.**.
- n. Electrical and data signal interconnections shall be made between LRUs and simulation computer as per drawing provided by NAL.

4.2.4 BIDDER QUALIFICATION CRITERIA

4.2.4.1 Requirement

- a. Bidder shall have approval from CEMILAC and DGAQA for design & preparation of aircraft mechanical and electrical drawings, fabrication of electrical looms and installation, fabrication & installation of mechanical parts.
- b. Bidder shall have the domain expertise in development of ground integration test rigs for avionics systems.
- c. Mere theoretical knowledge of the design shall not qualify as eligible Bidder.
- d. Bidder shall produce supporting data of the developed system.
- e. Bidder shall have IPC or equivalent trained personnel for carrying out the fabrication of loom for the interconnectivity of test rig.
- f. Bidder shall have minimum of 5 years of experience in product or facility development for aerospace applications.
- g. Bidder shall have experience in obtaining Military or Civil application certifications.
- h. Proof for all the above shall be provided along with the Technical bid.

4.2.4.2 Bidders Evaluation Matrix for technical Bid.

- a. For technical evaluation of the bidders Technical Evaluation Committee has opted evaluation parameters on which all bidders shall be evaluated based on the submitted tender documents.
- b. Technical Evaluation Committee reserves the right to decide the minimum cut-off score above which, bidders shall be qualified for next round of tender process.
- c. Technical Evaluation Committee shall follow the evaluation parameters with respective weightage based on only technical bid submitted by bidder.
- d. CSIR NAL shall call all participating bidders for a presentation to defend the technical proposal in front of the Technical Evaluation Committee after submission of the bids. The date and time shall be notified to all the bidders in advance.

4.2.4.3 <u>Terms and condition for technical evaluation</u>

- a. TEC Committee reserves the right to add extra evaluation criteria or subtract existing criteria.
- b. Maximum score and weightage against each evaluation criteria is mentioned in the **Error!** R **eference source not found.** and shall be uniform for all bidders.
- c. The final score of individual bidder shall be normalized on the scale of 100 and minimum qualifying score of individual shall be 60% of 85, which is 51.
- d. The technically selected bidder's total score shall be published. However, under NO circumstance, the score of one bidder shall be shared with other bidder.
- e. No oral communication shall be taken as input for technical evaluation.
- f. Bidder shall provide the proof of having worked for similar aerospace projects.

Table 3: Technical Evaluation Matrix

S.N.	NAL Evaluation Criteria	Weightage (0 to 1)	Max Score	Max Score with Weightage	Bidder 'X' Marks (1 to 10) Given by Committee (TEC)	Bidder 'X' Score
		Α	В	C = A * B	D	E= A * D
1	Existing Technology/System towards similar product or technology	1	10	10		
2	Aerospace system/product/technology design expertise	0.5	5	5		
3	Number of projects handled earlier with similar scope	1	10	10		
4	Knowledge of Aerospace wiring having worked earlier	1	10	10		
5	Demonstration of the Design Capability in front of Technical Evaluation Committee if already similar product or technology is available with the bidder	1	10	10		
6	IPC or equivalent Trained personnel for carrying out the fabrication of loom as per NAL requirements.	1	10	10		
7	Understanding of NAL Requirements	1	10	10		
8	Compliance with NAL Requirements	1	10	10		
9	Project Timeline and Delivery Time	0.5	5	5		
10	Technical Support and Representative Availability	0.5	5	5		
	Total			85		

4.2.5 SCOPE OF WORK

4.2.5.1 Scope of CSIR-NAL

- a. NAL Shall provide 42U, 19" racks as required.
- b. NAL shall provide DC power supply.
- c. NAL shall provide DC power supply distribution units. (Refer Rack 3 in Error! Reference s ource not found. for DC power distribution units).
- d. NAL shall provide cables for the fabrication of loom.
- e. NAL shall provide Aircraft LRU and its locations information on the modules.
- f. NAL shall provide BIBO layout design.
- g. NAL shall provide LRU signal details and their captions for screen printing after the selection of bid.
- h. NAL shall provide the drawings for BIBO and inter connections of all LRU.
- i. Bidder shall take the approval from NAL before the actual implementation or fabrication.

j. NAL shall review the work on milestone basis.

4.2.5.2 Scope of Bidder

- a. Bidder shall fully understand the design of the BIBO, Interconnections and component installations.
- b. Bidder shall fabricate the Break-In-Break-Out (BIBO) Panel for each LRU based on number of signals as provided by NAL.
- c. Bidder shall install LRUs inside modules as per the installation instructions/datasheets provided by NAL. Trays for mounting LRUs shall be supplied by NAL. The bidder shall provide mounting arrangements.
- d. Bidder shall fabricate the loom for the interconnection between LRU and BIBO, Simulator system and BIBO and other electrical power system interconnection as defined in ICD/drawing.
- e. Bidder shall integrate the fabricated loom between all subsystems of rig and power system racks.
- f. Bidder shall make the grounding arrangements on rack with copper strips at rear side of rack as per the drawing which shall be provided after the selection of bid..
- g. Bidder shall carry out continuity, bonding, megger/insulation test and power ON test of Rig.
- h. Bidder shall provide support to CSIR-NAL for the preparing ATP. NAL shall prepare the ATP.
- i. Bidder shall execute the ATP at CSIR-NAL.

Note: Bidder shall refer Error! Reference source not found. and Error! Reference source not fo und. for details of BOM and BIBO patch panel details.

4.2.6 TECHNICAL REQUIREMENTS OF RIG

4.2.6.1 Hardware requirements of Rig

- a. Bidder shall fabricate the BIBO panels for each LRU as per as per drawings provided by NAL (refer **Error! Reference source not found.** for BIBO panel details).
- b. Bidder shall use D38999 Series III MIL standard connectors.
- c. Minimum 20% vacant pins shall be provided in all used connectors.
- d. Bidder shall use MIL-DTL-22759 standard cables to fabricate the cable loom in Rig which is provided by NAL.
- e. 16 AWG cables shall be used for power connection of LRU.
- f. 24 AWG cables shall be used for signals of LRU.
- g. Industrial grade shorting plugs and terminals shall be used for the BIBO.
- h. Bidder shall provide the list of deliverables against milestone along with details (make, part number, model number) of all the items used in the Rig.
- i. Industrial grade switch shall be used in BIBO for discrete operations.

4.2.6.1.1 Patch Panel cum BIBO

- a. Passive switching mechanism shall be provided to route the signal either from Actual LRU or simulation system to wherever is required.
- b. A monitoring point shall be provided for every used signal.
- c. Legends of all signals/connector number and LRU names shall be provided, to be screen printed on the front panel of BIBO and rear panel of all LRU modules and shall be legible.
- d. Signals, signal switching mechanism, signal-monitoring points shall be present in front side of the BIBO and cable loom shall be present in rear side of the LRU.
- e. Bidder shall fabricate front panel of BIBO using the layout diagram provided by NAL by considering the actual dimensions of test points, shorting plugs, switches, lamps, push buttons, potentiometers, etc.
- f. Test points and Shorting plugs shall have low contact resistance and have provision to inject/monitor the electrical signals through patch panel using testing and measuring instruments.
- g. The signals required to pass through BIBO panel are provided in Error! Reference source not f ound..
- h. Actual number of signals will be finalized during development stage.

4.2.6.2 Engineering requirements of Rig

4.2.6.2.1 Racks and Consoles

a. Racks and modules shall house avionics LRUs, LRU protocol simulator system, monitors, BIBO, testing and measuring instruments, etc.

- b. Racks shall be of Industrial Standard of 19" width, height & depth approximately 72" (42 U) & 39" respectively and Racks shall be provided by NAL except two racks.
- c. BIBO panels top, front and rear panels shall be detachable.
- d. LRUs shall be installed in the rack modules. Dimension and weight details shall be provided by NAL during development stages.
- e. Bidder shall install LRUs inside modules as per the installation instructions/datasheets provided by NAL. Trays for mounting LRUs shall be supplied by NAL. The bidder shall provide mounting arrangements.
- f. BIBO modules and LRU installed tray shall be installed with sliding rails.
- g. The rack doors at rear side shall have suitable locking mechanism with key.
- h. All racks shall have suitable lighting at rear side.
- i. The Rig shall have minimum 06 numbers of 230 V, 50Hz power extension output with minimum five sockets of 5A rating in each box with fuse and spike protection feature for powering the external computers, monitors and instruments. This will be provided by NAL
- j. The Rig shall have minimum 06 numbers of 230 V, 50Hz power extension output with minimum five sockets of 5A rating in each box with fuse and spike protection feature for powering the external computers, monitors and instruments. This will be provided by NAL

4.2.6.2.2 LRU cooling requirements

- a. FAN shall be provided in appropriate places in all racks to dissipate the heat generated by the rack. Fan Module with 4-fans at top of each rack shall be provided by NAL. Additional fans if required to maintain the sufficient cooling for the LRU and subsystems shall be provided by the bidder.
- b. Temperature stickers shall be pasted on every module to indicate the max-attained temperature. Bidder shall provide sufficient extra stickers to NAL for future use.

4.2.6.2.3 Electrical wiring requirements

- a. Rig design shall cater for switching of signals between simulated LRUs and aircraft LRUs using BIBO panels manually.
- b. The separate grounding scheme shall be adapted for AC and DC, signal and Chassis for avoiding interference.
- c. The electrical loom shall be according to LRUs listed in Error! Reference source not found. a nd layout of LRUs is as specified in Error! Reference source not found. and Error! Reference source not found. Detailed ICD/drawing shall be provided by NAL after the selection of bid.
- d. Continuity checks shall be carried between BIBO, LRU and other connectors as per the continuity test schedule.
- e. Electrical Insulation Resistance between cables (megger) should be greater than 50 Mega-Ohm at 500V DC.
- f. Bonding Resistance should be less than 2.5 milli-Ohm between LRU, mounting base and main ground.
- g. Power checks shall be carried out on all LRU connectors and other points as per schedule.
- h. Shield cable, shield cables to chassis ground shall be terminated at mating connector unless otherwise specified.
- i. All crimping tools, continuity meter, insulation tester, bonding tester used for the fabrication and testing of cable loom shall have inspection validity.
- j. Only mating connectors for all the aircraft LRUs will be provided by CSIR-NAL and arrangement of break-connectors (aircraft standard) used in Rig will be bidders responsibility.
- k. The AC supply lines, DC supply lines, signal and data buses looms shall be bundled and routed separately to avoid interference.
- Each cable shall have identification sleeves on both sides of loom as per ICD provided by NAL.
- m. All connectors shall be provided with identification sleeves as per ICD provided by NAL.
- n. Each loom shall have sleeves, wire ties and identification sleeves and to be routed neatly and secured properly to avoid EMI.
- o. Bidder shall use following items of aircraft standard/grade.
 - MIL-DTL-22759 standard cable, D38999 Series III MIL standard connectors with back shells (M85049-39 series 90° bent) (including break connectors used in the Rig).
- p. The Rig shall have necessary industry standard electrical/safety protections to protect its own resources, LRUs and human operators.

4.2.6.2.4 Power Supply Requirements and Distribution

- a. Rig shall cater for distribution of following types of power supplies for operation of LRUs.
 - Regulated 18-32 VDC, nominal 28V DC power supply to power the DC loads on the Rig.
 - ii. Regulated 230V AC, single-phase 50Hz power supply to power the AC loads on the Rig.
- b. UPS 230V 50Hz AC and 28V DC power supplies will be provided by CSIR-NAL.
- c. There shall be separate bus in the rack for AC & DC power supplies.
- d. DC power distribution to LRUs from DC power supply, DC power distribution unit and CB/switch panel shall be adopted as per the design provided by NAL.
- e. Power supplies, DC power distribution unit and CB/switch panel shall be provided by NAL.

4.2.6.2.5 Development philosophy

- a. Bidder shall finalize the technical specification of the Rig in consultation with CSIR-NAL.
- b. Technical specification each items used in rig shall be provided.
- c. The following shall be finalized by bidder after discussion with CSIR-NAL during development phase
 - i. Rig layout and installation of hardware on Rig.
 - ii. Rack and console layout including controls and displays.
 - iii. Electrical design, grounding scheme and LRU interface wiring diagrams.
- d. Bidder shall carry out preliminary design reviews for Rig during development stage.
- e. Bidder shall incorporate hardware rectification and modification recommendations made by CSIR-NAL during LRU integration & testing till the final certification from DGAQA/CEMILAC for free of charge
- f. Certification activities shall be borne by NAL.
- g. Bidder shall ensure to select latest components for Rig design & development for obsolescence management.

4.2.6.3 Deliverables, BOM and Patch Panel Details

Deliverables and BOM are as provided in Error! Reference source not found..

Table 4: Deliverables and BOM

SL. NO.	BIBO MODULES	PN/ Model Number	QUANTITY Required	NAL shall provide	Bidder scope of supply
1	1U Blank Plates for	NA	47	30	17
	Legends				
2	2U Blank Plates	NA	7	6	1
3	2U Module	NA	14	8	6
4	3U BOX/Module	NA	10	10	0
5	4U BOX/Module	NA	3	3	0
6	5U BOX/Module	NA	7	0	7
7	6U BOX/Module	NA	1	0	1
8	11U BOX/Module	NA	1	0	1
9	16U BOX/Module	NA	2	0	2
10	Power Supply	NA	4	4	0
11	Power Distribution Unit	NA	3	3	0
12	protocol Simulation	NA	2	2	0
	system				
13	19", 42U, 1000mm	NA	8	6	2
	Rack				
14	22 Pin Connector	D38999-20WC-35SN	17	0	17
15	22 Pin Connector	D38999-26WC-35PN	17	0	17
16	Back Shell	M85049-39S-13W	58	0	58
17	8 Pin Connector	D38999-20WB-35PN	12	0	12
18	8 Pin Connector	D38999-26WB-35SN	12	0	12
19	Back Shell	M85049-39S-11W	12	0	12
20	4 Pin Connector	D38999-20WC-4PN	53	0	53
21	4 Pin Connector	D38999-26WC-4SN	53	0	53
22	Back Shell	M85049-39S-13W	53	0	53
23	37 Pin Connector	D38999-20WD-35SN	8	0	8

24 37 Pin Connector D38999-26WD-35PN 8 0 8 25 Back Shell M85049-39S-15W 9 0 9 26 55 Pin Connector D38999-20WE-35SN 4 0 4	of supply
26 55 Pin Connector D38999-20WE-35SN 4 0 4	
27 55 Pin Connector D38999-26WE-35PN 4 0 4	
28 Back Shell M85049-39S-17W 4 0 4	
29 100 Pin Connector D38999-20WH-35SN 5 0 5	
30 100 Pin Connector D38999-26WH-35PN 5 0 5	
31 Back Shell M85049-39S-23W 5 0 5	
32 79 Pin Connector D38999-20WG-35SN 2 0 2	
33 79 Pin Connector D38999-26WG-35PN 2 0 2	
34 Back Shell M85049-39S-21W 2 0 2	
35 6 Pin Connector D38999-20WA-35SN 1 0 1	
36 6 Pin Connector D38999-26WA-35PN 1 0 1	
37 Back Shell M85049-39S-9W 1 0 1	
38 128 Pin Connector D38999-20WJ-35SN 2 0 2	
39 128 Pin Connector D38999-26WJ-35PN 2 0 2	
40 Back Shell M85049-39S-25W 2 0 2	
41 BNC Bulkhead Jack R141-327-000 19 0 1	
42 BNC Right angle plug R141-183-000 19 0 1	
43 TNC Bulkhead Jack R143-325-000 2 0 2	
44 TNC Right angle plug R143-183-000 2 0 2	
(Fabricated loom) provided by bidder	S Required
	200
	439
48 Switches for discrete Industrial Grade 327 0 3	27
49 Lamps Industrial Grade 105 0 1	05
50 Push button Industrial Grade 38 0 3	8
51 Potentiometers (1K Ω) Industrial Grade 15 0 1	5
52 Speaker (8 Ω) Industrial Grade 4 0 4	
Documents	
53 Architecture Design NA 2 Nos. NA 2 Document of the Rig	Nos.
54 Detailed Hardware NA 2 Nos. NA 2 Design Documents for Rig	Nos.
55 Electrical and NA 2 Set. NA 2 Mechanical drawings, circuit's schematics, layout drawing and internal wiring diagrams based on NAL's Theoretical design wiring diagrams.	Set.
56 Continuity test, Megger test (insulation test), bonding test & Power ON test schedule Document for the electrical looms	Nos.
57 Acceptance Test NA 2 Nos. NA 2 Procedure Document of the Rig	Nos.
	Nos.
	Set.

SL. NO.	BIBO MODULES	PN/ Model Number	QUANTITY Required	NAL shall provide	Bidder scope of supply
	applicable data sheets of hardware modules and Certificate of Compliance (COC)				
60	Electrical Grounding and earthling scheme Document	NA	2 Nos.	NA	2 Nos.
61	Pre-Dispatch Inspection Document of the Rig	NA	2 Nos.	NA	2 Nos.
62	Any other documents required for certification of Rig shall be provided.	NA	2 Nos.	NA	2 Nos.

Note:

a. Item specification for SI. No 13 of Table 5 (Rack) are as follows

	ation for St. No 13 of Ta	, ,	
SPECIFICATION	DESCRIPTION	SPECIFICATION	DESCRIPTION
RACK	Width: 19"	Front Door	Not Required
Dimensions	Height: 42U	110116 2001	Troc regarda
Diffictions	Depth: 1000mm		
Color of Rack	Black	Rear Door	42U PERFORATED STEEL DOOR
Coating to the	Powder Coating	Heavy Duty Caster	Heavy Duty Castor wheel with Brake (Load
rack	Fowder Coating	Wheels	· · · · · · · · · · · · · · · · · · ·
Tack		writeeis	bearing capacity of each wheel shall be of
Married	Free standing	Lavallinat Lada	minimum 250 Kg)
Mount type	Free standing	Levelling Legs	Levelling legs with screwing mechanism for
			levelling the racks on uneven surfaces
			(Load bearing capacity of each levelling
	0501/	1161	legs shall be of minimum 250 Kg)
Load Bearing	850 Kgs or above	Lifting Bolts	Lifting bolts for Racks, each bolt shall have
Capacity of rack			load carrying capacity of 400kgs.
Weight of Rack	100 kg or above	Fan Housing Unit	Fan Housing Unit, 90 CFM, 4 Fan
Material used	SPCC Quality Cold	Fan	Fan 230VAC 90 CFM
for rear door	Rolled Steel		
	Metal/Steel		
Support cable	Shall be provided	EARTHING KIT	EARTHING KIT and Earthing bar, CU, 39U-
entry from top			46U
or bottom			
Environmental:	Rack shall be	AC Power	Vertical mount AC mains spike busters at
	resistant to dust or	Distribution Units	the rear side of racks;
	water	(Spike busters)	5A x 8 sockets, 22U with 32A MCB
Warrantee	Minimum 3 years	Cable Manager	Cable manager for routing the cables
	warrantee shall be		horizontally;
	provided		1U, 19" Mounting
RACK	19" Rack	Cable Channel in	Cable manager for routing the cables
	42U/1000D with	rear side for cable	vertically at the rear of rack;
	side panels	management	42U Channel with cable loops : Mounting
la Fallendora en	th		4 +- OL N- O - (T-1-1- F

b. Following are the specifications for the Items from SI. No. 1 to SI. No. 9 of Table 5.

i. Width of units and blank plates shall fit the 19" 42U 1000mm rack.

ii. 2024 T3 Aluminum Alloy sheet of thickness 3 mm shall be used and it shall be powder coated in black color.

Patch panel details with location in respective rack are as provided in Error! Reference source not found.. Table 5: BIBO Panel Details

lable 5: BIBO	LRU	ELE	CTRICAL		WEIGHT		DIMENSION		Number of		Switches	Lamp	Potentiometer	Speaker		Rack
SL. NO.		CB Rating	Switch	Current Drawn (A)	(Kg)	X	Y	Z	Signals on each LRU Modules	Push Button	for Discrete Operation				Module	
A B	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	Q	R
1 LRU 1	VHF1	10	Required	8.725	2.24	85.3	96.5	353.8	51	1	NA	1	NA	NA	5U	Rack 1
2 LRU 2	VHF2	10	Required	8.725	2.24	85.3	96.5	353.8	51	1	NA	1	NA	NA		_
3 LRU 3	AMS	3	Required	2.03	0.855	58	140	120	72	4	NA	NA	NA	1	5U	
4 LRU 4	AMS	3	Required	2.03	0.855	58	140	120	72	4	NA 0.4		NA	1	4.011	4
5 LRU 5	PFD1	10	Required	4.36	3.02	204	255	77	205	3	34	8	NA	NA	16U	
6 LRU 6	PFD2	10	Required	4.36	3.02	204	255	77	205	3	34	8	NA	NA	F	4
7 LRU 7	RTU1	2	Required	1.82	1.325	83.24	111.372	163.33	58	NA	NA	NA	NA	NA	5U	
8 LRU 8	RTU2	2	Required	1.82	1.325	83.24	111.372	163.33	58	NA	NA	NA	NA	NA	211	4
9 LRU 9	ADF	2	Required	0.6	1.745	85.4	96.6	354.5	65	1	2	2	NA	NA	3U	DI-O
10 LRU10		1	Required	0.44	1.275	92	95.3	148.6	56	1	1	2	NA	NA	5U	Rack2
11 LRU1:		1	Required	0.44	1.275	92	95.3	148.6	56	1	1	2	NA	NA	FII	4
12 LRU 1		3	Required	1.09	3.05	111.75	105.4	288.5	61	NA	2	4	NA	NA	5U	
13 LRU 1		3	Required	1.09	3.05	111.75	105.4	288.5	61	NA 2	2	4	NA	NA	4011	4
14 LRU 1		10	Required	4.36	3.02	204 257	255	77	205	3	34	8	NA	NA	16U	
15 LRU 1		5	Required	4.36	3.02		273	205	205	3	34	8	NA	NA	211	4
16 LRU 1	•	7.5	Required	1.52	3	194.056	56.896	387.604	75	NA 1	NA 1	NA 1	NA	NA	3U 4U	4
17 LRU 1		2	Required	0.75	2.44	84.1	123.8	355.6	52	1	1	1	NA	NA	40	
18 LRU 1		2	Required	0.61	2.44	84.1	123.8	355.6	52	1	1	1	NA	NA 1	211	Deals
19 LRU 1		2	NA	1.75	1.47	155	75	260	67	2	9	4	NA	1	3U	Rack5
20 LRU 2		3	NA	1.34	2	183	337	30	294	NA	54	36	NA 10	NA	6U	4
21 LRU 2		2.5	NA	0.54	3.98	194	92	382	372	NA 1	47	NA	12	NA	11U	4
22 LRU 2		2	Required	0.61	2.005	85.3	96.5	354.8	65	1	2	2	NA	NA	5U	
23 LRU 2		2	Required	0.61	2.005	85.3 84.6	96.5	354.8	65 122	1	2	2	NA	NA	211	4
24 LRU 2 25 LRU 2		5	NA	3.57 0.72	3.86		124.5	317.5 297.9		NA NA	NA NA	1 NA	NA NA	NA NA	3U 2U	4
25 LRU 2 26 LRU 2		2	NA NA	1	1.785 0.26	*	83 *	*	11	NA	NA NA	NA	NA	NA	2U	-
27 LRU 2	7 ACARS	1	*	*	<5	*	*	*	E0	NA	NA	NIA	NA	NIA	211	Rack6
		1		*	<5	*	~ 	*	50 50	NA NA	NA NA	NA	NA	NA NA	3U 4U	Racko
		1	NA		2.0128	55.8	33.02		50	NA NA	NA NA	NA	NA	NA NA	2U	4
29 LRU 2 30	TTI	2	NA NA	NA 0.11	0.355	42.1	85.7	30.48 110	31	NA NA	INA	NA	3	NA	2U	4
			INA							INA			3		20	
31 LRU 3	,	7.5	NA	7.27	2.03	109	177	140	228	NA	55	2		NA	5U	
32	Engine 1	NA	NA	NA	NA	NA	NA	NA	25	NA	NA	NA	NA	NA	3U	
33	Engine 2	NA	NA	NA	NA	NA	NA	NA	25	NA	NA	NA	NA	NA		
34	Heat Current Mon	2	NA	NA	NA	NA	NA	NA	9	NA	NA	1	NA	NA	3U	
35 LRU 3	1 SSCVFDR	2	NA	0.72	3.07				53	1	3	NA	NA	NA	4U	1
36 LRU 3		2	NA	1.1	2.03	84.6	90.5	353.7	71	1	2	2	NA	NA	4U	1
37 LRU 3		2	NA	1.1	2.03	84.6	90.5	353.7	71	1	2	2	NA	NA		
38 LRU 3	4 WxR	7.5	Required	3.2	4	85.2	115.3	160.3	8		1	NA	NA	NA	3U	Rack7
39 LRU3!	ACAS	1	*	*	*	*	*	*	66	3	3	3	NA	1	3U	1
40	Fuel System	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	3U	1
41	Fire &	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	2U	1
42	Smoke Alarm	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA		
43	Access Doors	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	2U	1
44	Wind Shield Heat	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	2U	1
45	Wheel Brake	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	2U	1
46	Oxygen System	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	2U	1
47	Lighting System	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	1	
48	Anti-Icing	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	2U	1
49	Hydraulics	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	1	

		LRU	ELEC	CTRICAL		WEIGHT		DIMENSION		Number of		Switches	Lamp	Potentiometer	Speaker		Rack
SL. NO.	LRU		CB Rating	Switch	Current Drawn (A)	(Kg)	X	Y	Z	Signals on each LRU Modules	Push Button	for Discrete Operation				Module	
Α	В	C	D	E	F	G	Н	I	J	K	L	M	N	0	Р	Q	R
50		Landing Gear	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	2U	
51		Cabin Pressure	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	2U	1
52		Event Marker	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA		1
53		Flap Control System	NA	NA	NA	NA	NA	NA	NA	40	NA	NA	NA	NA	NA	2U	1
54		DC PDU1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4U	Rack 3
55		DC PDU2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4U	1
56		DC PDU3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4U	1
57		CB/Switch Panel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8U	1
58		Junction Box1	NA	NA	NA	4.65	165.625	90	240	NA	NA	NA	NA	NA	NA	NA	Rack 4
59		Junction Box2	NA	NA	NA	2.23	130	125	305	NA	NA	NA	NA	NA	NA	NA	1
60		Junction Box3	NA	NA	NA	2.23	130	125	305	NA	NA	NA	NA	NA	NA	NA	1
61		Power Supply 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Rack 8
62		Power Supply 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
63		Power Supply 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
64		Power Supply 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
65		Simulation System1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
66		Simulation System2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
67		Monitor and Keyboard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
68		AC Distribution Unit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u> </u>

Note: * indicates the details shall be provided after the selection of bid.

4.2.7 GROWTH POTENTIAL REQUIREMENTS OF RIG

- a. Minimum 20% extra spare shorting plugs and patch terminals in BIBO.
- b. 20 % change in the design based on the selection of LRU shall be taken care.
- c. Signal details, LRU dimensions, LRU weight provided are captured from existing avionics systems, which are subjected to change when the Avionics LRUs are finalized.

4.2.8 WORK SHARE AND RESPONSIBILITY

SI.No	Activity description	CSIR NAL scope	OEM/Bidder scope	Remarks
01	Design Requirements	To provide design requirements of AITR for implementation	Prepare detailed design document for the implementation	
02	Wiring interconnection design	Provide Wiring interconnection ICD/drawings	Prepare initial design document for the implementation	
03	LRU installation requirements	Provide LRU installation requirements and related data	Prepare installation design document	
04	Design review and approval	Review, comment(if required), recommend changes (if required) and approve	Submit Design Document to NAL 2)Amendment of Design Document as per the design review comments and suggestions	
05	Fabrication of BIBO Panels	Periodical inspection at bidders place, progress review and approval	1)submit design document and get reviewed and approved by NAL 2)Fabricate BIBO Panel	
06	Fabrication of Loom	Periodical inspection at bidders place, progress review and approval	1) Fabrication of Loom	
07	Installation and Integration of AITR	Periodical inspection at bidders place, progress review and approval	Installation and integration of subsystems of AITR	
08	System Clearance	Review and approval	Execution of ATP	
09	Deliverables	Inspect	Provide the deliverables.	

4.2.9 PROGRAM SCHEDULE FOR RIG

a. Bidder shall meet the program schedule mentioned in Error! Reference source not found..

Table 6: Program Schedule for Rig development

SI.No	Development Phase Milestones	Time Schedule in months
1	Release of Purchase Order (PO)	TO
2	Finalization of Technical specification	T0+1
3	Design Review (fabrication and Installation)	T0+1
4	Fabrication of BIBO, loom and LRU installation arrangements	T0+4
5	Pre-dispatch testing of Rig at bidders place (Continuity, Megger & Bonding Test)	T0+5
6	Delivery of Rig to CSIR-NAL	T0+5
7	Power ON Checks	T0+5
8	Installation of all LRUs	T0+5
9	Integration Test with simulation system and LRUs	T0+6
10	Execution of ATP	T0+6
11	Clearance by CEMILAC	T0+6
12	Certification of Rig (Support for all the artifacts required by CEMILAC/DGAQA)	T0+6

4.2.10 CERTIFICATION AND ACCEPTANCE REQUIREMENTS OF RIG

- a. NAL shall approach CEMILAC to get AITR certification. The bidder shall provide all necessary data for obtaining the approval for these documents.
- b. NAL shall co-ordinate with DGAQA to execute the ATP of the test rig. The bidder shall be responsible for the execution of the ATP document. NAL shall prepare the ATP; bidder shall provide support to CSIR-NAL for the preparing ATP.
- c. The bidder shall provide the required technical documents generated during implementation, test reports, etc. to meet the Rig certification requirements as per DGAQA procedures.
- d. The bidder shall deliver and commission the Rig at CSIR-NAL.
- e. Bidder shall provide support at CSIR-NAL during warranty period of the Rig.
- f. Bidder shall provide technical support post warranty period for minimum of 12 months.

4.2.11 DOCUMENTATION REQUIREMENTS OF RIG

- a. The following documents (two sets each in hard and soft copy) shall be delivered during development phase of the Rig.
 - i. Architecture Design Document of the Rig.
 - ii. Detailed Hardware Design Documents for Rig.
 - iii. Electrical and Mechanical drawings, circuit's schematics, layout drawing and internal wiring diagrams.
 - iv. Continuity test, Megger test (insulation test), bonding test & Power ON test schedule and report for the electrical looms.
 - v. Acceptance Test Procedure for the Rig.
 - vi. Acceptance Test Report of the Rig.
 - vii. Rig bill of materials, applicable data sheets of hardware modules and Certificate of Compliance (COC).
 - viii. Electrical Grounding and earthling scheme.
 - ix. Pre-Dispatch Inspection Document of the Rig
 - x. Any other documents required for certification of Rig shall be provided.

4.2.12 WARRANTY

- a. The Bidder shall provide On-Site warranty and technical support for 12 months from the date of acceptance and certification of Rig by CSIR-NAL.
- b. Logistic and replacement of non-working System shall be borne by the Bidder only.

List of Deliverables (BoQ):

Sr. No.	Item Description	Unit	Quantity
1	1U Blank Plates for Legends	Nos.	17
2	2U Blank Plates	Nos.	1
3	2U Box Module	Nos.	6
4	5U BOX/Module	Nos.	7
5	6U BOX/Module	Nos.	1
6	11U BOX/Module	Nos.	1
7	16U BOX/Module	Nos.	2
8	19", 42U, 1000mm Rack	Nos.	2
9	22 Pin Connector	Nos.	17
10	22 Pin Connector	Nos.	17
11	Back Shell	Nos.	58
12	8 Pin Connector	Nos.	12
13	8 Pin Connector	Nos.	12
14	Back Shell	Nos.	12
15	4 Pin Connector	Nos.	53
16	4 Pin Connector	Nos.	53
17	Back Shell	Nos.	53
18	37 Pin Connector	Nos.	8
19	37 Pin Connector	Nos.	8
20	Back Shell	Nos.	9
21	55 Pin Connector	Nos.	4
22	55 Pin Connector	Nos.	4
23	Back Shell	Nos.	4
24	100 Pin Connector	Nos.	5

25	100 Pin Connector	Nos.	5
26	Back Shell	Nos.	5
27	79 Pin Connector	Nos.	2
28	79 Pin Connector	Nos.	2
29	Back Shell	Nos.	2
30	6 Pin Connector	Nos.	1
31	6 Pin Connector	Nos.	1
32	Back Shell	Nos.	1
33	128 Pin Connector	Nos.	2
34	128 Pin Connector	Nos.	2
35	Back Shell	Nos.	2
36	BNC Bulkhead Jack	Nos.	19
37	BNC Right angle plug	Nos.	19
38	TNC Bulkhead Jack	Nos.	2
39	TNC Right angle plug	Nos.	2
40	Interconnection Loom (Fabricated loom)	Set	1
41	Shorting Plugs	Nos.	1200
42	Patch Terminals	Nos.	3439
43	Switches for discrete operation	Nos.	327
44	Lamps	Nos.	105
45	Push button	Nos.	38
46	Potentiometers (1K Ω)	Nos.	15
47	Speaker (8 Ω)	Nos.	4
	Documents		
48	Architecture Design Document of the Rig	Nos.	2
49	Detailed Hardware Design Documents for Rig	Nos.	2
50	Electrical and Mechanical drawings, circuit's	Set.	2
	schematics, layout drawing and internal wiring		
	diagram based on NAL's Theoretical design wiring		
	diagrams		
51	Continuity test, Megger test (insulation test),	Nos.	2
	bonding test & Power ON test schedule Document		
FO	for the electrical looms	Nee	
52	Acceptance Test Procedure Document of the Rig	Nos.	2
53 54	Acceptance Test Report Document of the Rig Rig bill of materials, applicable data sheets of	Nos.	2
54	hardware modules and Certificate of Compliance	Set.	2
	(COC)		
55	Electrical Grounding and earthling scheme	Nos.	2
	Document	1103.	~
56	Pre-Dispatch Inspection Document of the Rig	Nos.	2
57	Any other documents required for certification of	Nos.	2
3,	Rig shall be provided.	1103.	~
L	THE STIGHT DO PROVIDUOUS		

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.4.4.5
- (iii) Training as per clause no.4.5
- (iv) On site comprehensive Warranty as per clause No.4.6.
- (v) Delivery Schedule as per clause No.4.7.

4.4 <u>Inspection & Tests</u>

- 1. Bidder shall carry out continuity, bonding, megger/insulation test and power ON test of Rig.
- 2. Bidder shall execute the Acceptance Test Procedure at CSIR-NAL.
- 3. Detailed requirements are as provided as per clause No.4.2.

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 <u>Manufacturer's Inspection Certificate`</u>

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 <u>Installation, Commissioning and Acceptance Test</u>

The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at Purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified.

On the event of the ordered item failing to pass the acceptance test, a period not exceeding two weeks will be given to rectify the defects and clear the acceptance test, failing which, the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser.

Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier.

The acceptance tests at the final destination include the following:

a)	Subsystem level and integrated level Continuity Test
b)	Subsystem level and integrated level Bonding Test
c)	Subsystem level and integrated level Megger/insulation test
d)	Subsystem level and integrated level Power ON test

4.4 Training

1)	Location	CSIR NAL
2)	Number of persons	15
3)	Period of Training	1 week
4)	Nature of Training	Practical Training on Test Rig with Lectures

4.5 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

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

Delivery of t	Delivery of the Item		Installation & Commissioning		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
Six Months	CSIR-NAL	One Month	CSIR-NAL	One Week	One Month

4.7 Commercial evaluation of bid

The bid shall be treated as incomplete if bidder has not quoted for all the components given in scope of supply and the incomplete bid will be rejected. The bidder should also quote for all incidental services. The bid will be commercially evaluated for the components in the scope of supply including services

4.7.1 Terms and condition for Commercial evaluation

- a. L1 criteria of the bidder shall be based on Grand Total of **Table 7: Commercial Evaluation Matrix only**.
- b. Bidders shall quote for all the items listed in Table 7: Commercial Evaluation Matrix.
- c. To assist bidders a breakup and respective heading mapping is provided in **Table 7:** Commercial Evaluation Matrix.
- d. Bidders shall use this breakup against budget heading of CHAPTER 6- A/B: PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD/INDIA

Table 7: Commercial Evaluation Matrix

S.N.	NAL Evaluation Criteria	Quantity	Bid Price		ce
			Unit	Unit Rate	Amount (Rs.)
	1. Item name				
а	1. Fabrication of BIBO	01	Set		
	(Please refer Sl. No. 1 to 44 & 46 to 62 in Error! R				
	eference source not found.)				
	2. Fabrication of loom for the interconnectivity	01	Set		
	(Please refer Sl. No. 45 in Error! Reference s				
	ource not found.)	0.1	0 .		
	3. Integration of BIBO and wiring to 19" Racks	01	Set		
	(Please refer Sl. No. 45 in Error! Reference s				
	ource not found.)	04	C = 4		
0.4	Installation of LRUs with tray	01	Set		
	eptance Testing in Test Rig at NAL	I	1		
a Doo	Acceptance Testing Charges if any				
	juired Spares/Consumables (if any)	ı	T		
а	List of critical Spares and their cost (if applicable and				
4 400	extra)				
	essories (if any)	I	1		
а	Associated Cables, mating Connectors & installation				
	kits such as mounting arrangements with screws, nuts, etc., for BIBO (If any)				
b	Any other charges (if extra)				
	litional Items				
a. Aud	One time License Fee for Background IP (if any and	Ι	1		
а					
	applicable)				
Sub-T/	otal Ex-Works Price				
	otal: Before Tax				
	ST/IGST (against Concessional Certificate)				
	Total (A):				
Other Charges					
5 Installation and Commissioning Charges (If any)					
6					
Sub-Total: Before Tax					
Add: GST/IGST on Sr. No 5 and 6 (If Applicable)					
7 Bank Charges (If any)					
Total (
	Total (A+B): F.O.R. CSIR-NAL				
G. GIIG					

Note:

Bidder shall put the above table in Technical Bid also indicating what all heads the commercial quotation is submitted without any commercial numbers.

4.8.2 Other Terms and Conditions

4.8.2.1 Bidding for Tender

- a. Bidder shall bid for whole system.
- b. Bidder shall quote for items per unit cost separately in the commercial bid.
- c. Bid for partial technical specification shall be rejected without any explanation.
- d. Bidders shall furnish clause-by-clause compliance of the technical specification.
- e. Bidders should avoid putting "COMPLIED" against the technical specification. Bidder shall provide the means of compliance statement.

- f. Bidders are advised to provide compliance statement with proper justification against each technical specification.
- g. Bidder has to make sure the availability and techno-commercial support for COTS items during full lifecycle about (10 years) of this product.

4.8.2.2 Intellectual Property Related Terms and Condition

- a. The Intellectual Property Rights & Software copy rights developed in this project shall be owned by CSIR-NAL.
- b. Ownership shall be applicable to the Intellectual Property developed as part of this project only.
- Bidder can't use this design for similar application without written permission from CSIR-NAL

4.8.2.3 Project Execution and Delivery Related Terms and Conditions

- a. CSIR-NAL Team shall be part of the design team of the Bidder as observer and the design shall be accessible to the team members only.
- b. After placement of Purchase Order on selected Bidder, followings project review mechanism shall be adopted:
 - i. Kick-off Meeting
 - ii. System Requirements Review (SRR)
 - iii. Design Review
 - iv. System Integration at Bidder Site
 - System Integration, Lab Test and Acceptance Test at NAL

CHAPTER-5

PRICE SCHEDULE FORMS

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

Note:

The Bidder may fill the appropriate Price Schedule Form and enclose as per Clause 1.10 and 1.18.3 of the Bidding documents.

CHAPTER-6 Qualification Requirements

Criteria 1 - Experience and Past Performance:

- a) The bidder (manufacturer or principal of authorised representative hereinafter referred simply as 'The Bidder') should have regularly for at least the last three years, ending 31st March of the previous financial year (hereinafter called 'The relevant Date'), manufactured and supplied (/erected/ commissioned Avionics Test Rigs with the same or higher specifications as in Chapter 4 parameters (hereinafter called 'The Product'). The bidder should submit the manufacturer authorisation form as appended in Chapter-8 and
- b) 'The bidder' should have manufactured and supplied (/erected/commissioned) at least **three** 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 two numbers of offered version/model of 'The product' should be in successful operation for at least **two** 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 one set (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 **Rs.**64,00,000/- (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) Bidder Firm (manufacturer or principal of authorised representative) should not have suffered any financial loss for more than one year during the last three years, ending on 'The Relevant Date'.
- c) The net worth of the Bidder firm (manufacturer or principal of authorised 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 authorised 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 authorised 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 authorised 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 authorised 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 authorisation		
	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 authorised 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) For Existing Successful Past Suppliers: In case the bidder (manufacturer or principal of authorised representative) who is a successful past supplier of 'The Product' in at least one of the recent past two procurements, who do not meet any or more of requirements above, would also be considered to be qualified in view of their proven credentials, for the maximum quantity supplied by him in such recent past.
- d) 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 authorised 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], [in	nsert: year].

BETWEEN

- (1) The Council of Scientific & Industrial Research registered under the Societies Registration Act 1860 of the Government of India havingits registered office at 2, Rafi Marg, New Delhi-110001, India represented by National Aerospace Laboatories, 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:

- O1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- O2. 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)]

- O3. 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.
- O5. 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

SI. No.	Name	Annexure
1	Bid Security Form (to be enclosed with the technical bid)	А
2	Bid Securing Declaration. (to be enclosed with the technical bid)	В
3	Bidder Information Form (to be enclosed with the technical bid)	С
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)	Н
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), if applicable	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

Where	eas				
(herei	nafter called the tenderer)				
has	submitte	d	their	offer	dated
for the	e supply of nafter called the tender)				
Agains	st the Purchaser's Tender N	0			
	/ ALL MEN by these present			having our	
"Purch	are naser")	bound unto		(herei	inafter called the
In		the		sum	of
(1) (2)	ONDITIONS OF THIS OBLIGATION OBLIGATION OF THIS OBLIGATION OBLIGATION OBLIGATION OF THIS OBLIGATION OBLIGATION OBLIGATION OBLIGATION OBLIGATION OB	s or amends or m of validity of this te	nder OR		
	(a) If the tenderer fail contract.	s to furnish the Per		urity for the due Perfo	rmance of the
the Pu amoun occurr This g	ndertake to pay the Purchasurchaser having to substant nt claimed by it is due to it red condition or conditions. Suarantee will remain in found in respect thereof should	ser up to the above liate its demand, pr t owing to the occi rce up to and inclu	e amount upor rovided that in urrence of one uding 45 days	its demand the Purcha e or both the two cond after the period of te	aser will note that the ditions, specifying the
			(Sign	ature of the authorized	officer of the Bank)
			Na	me and designation of	the officer

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.

Seal, name & address of the Bank and address of the Branch

_			
Ton	dor	No.:	
161	ucı	INU	

	BID-SECURING DECLARATION FORM
	Date:
	Bid No
To (inse	ert complete name and address of the purchaser)
I/We. TI	he undersigned, declare that:
I/We ur	nderstand that, according to your conditions, bids must be supported by a Bid Securing Declaration.
	ccept that I/We may be disqualified from bidding for any contract with you for a period of one year from e of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We 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 having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (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.
upon th	nderstand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, ne earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days e expiration of the validity of my/our Bid.
	(insert signature of person whose name and capacity are shown) apacity of (insert legal capacity of person signing the Bid Securing Declaration).
Name: ((insert complete name of person signing he Bid Securing Declaration)
Duly au	thorized to sign the bid for an on behalf of : (insert complete name of Bidder)
Dated o	on day of(insert date of signing)
Corpora	ate 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.	Bidder's Authorized Representative Information
	Name: [insert Authorized Representative's name]
	Address: [insert Authorized Representative's Address]
	Telephone/Fax numbers: [insert Authorized Representative's telephone/fax numbers]
	Every Address - Stage of Authorized Department for the days of
	Email Address: [insert Authorized Representative's email address]
07.	Attached are copies of original documents of:
	Articles of Incorporation or Registration of firm named in 1, above.

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
							3 3 3 4 4 7	

Signatu	ure 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 Tend we shall abide by the Code of Integ Tender document and have no confl	der No dated I/We hereby declare that trity for Public Procurement as mentioned under Para 1.3.0 of ITB of your ict of interest.
	transgressions of the code of integrity with any entity in any country during rred by any other Procuring Entity are as under:
a b c	
We undertake that we shall this code.	be liable for any punitive action in case of transgression/ contravention of
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:

SI.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"**.

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	1.18	Bid is Signed	Yes / No	Yes / NA
2	1.17	Bid Validity (90 days after the date of Bid opening)	Yes / No Bid valid up to	Yes / NA
3	1.16, Chapter-8, Annexure-A	Bid Security/Earnest Money Deposit	Yes / No	Yes / NA
4	Chapter-8, Annexure-C	Bidder Information Form	Yes / No	Yes / NA
5	Chapter-8, Annexure-D	Manufacturer's Authorisation Form	Yes / No	Yes / NA
6	Chapter-8, Annexure- E	List of Supply and Installation of the Equipment & Performance Statement Form	Yes / No	Yes / NA
7	Chapter-8, Annexure-F	Service Support Detail Form	Yes / No	Yes / NA
8	Chapter-8,Annexure-G	Format of declaration by the Bidder for Code of Integrity & conflict of interest	Yes / No	Yes / NA
9	Chapter-8, Annexure-I	Bid Form	Yes / No	Yes / NA
10	Chaper-8,Annexure-M	Integrity Pact	Yes / No	Yes / NA
11	GCC 2.21.3 & as specified in SCC	Warranty	Yes / No	Yes / NA
12	Clause 2.13.1 & as specified in SCC	Agree to submit Performance Security 10% of PO Value	Yes / No	Yes / NA

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 ir	this	Form	in	accordance	with	the	instructions	indicated	No	alterations	to	its	format
sha	II be pe	rmitte	d and	d no s	substit	uti	ons shall be a	acce	pted	.]						

5/10	in be permitted and no substitutions shall be decepted.]
Date	: [insert date (as day, month and year) of Bid Submission]
Tende	er No. :
То	: Director, CSIR-NAL, Bengaluru
We. t	he undersigned, declare that:
(a)	We have examined and have no reservations to the Bidding Documents, including Addenda No.:
	[insert the number and issuing date of each Addenda]
(p)	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
(c)	[insert a brief description of the Goods and Related Services]as specified in Chapter 4 The total price of our Bid, excluding any discounts offered in item (d) below, is: [insert the total bid]
	price inwords and figures, indicating the various amounts and the respective currencies]
(d)	The discounts offered and the methodologies for their application are:
	Discounts. If our bid is accepted, the following discounts shall apply. [Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]
(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)	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: [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]
Nam	e of Recipient Address Reason Amount
Ivaiii	e of Necipient Address Neason Amount
	
	
	
/lf no	no boo boon noid avia to be noid indicate "none "\
(11 110	ne 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.
	ed : [insert signature of person whose name and capacity are shown]
In the	e capacity of [insert legal capacity of person signing the Bid Submission Form]
Name	e : [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]
	d on day of,[insert date of signing]

Tender No.:

To.

PERFORMANCE SECURITY FORM/STAND-BY LETTER OF CREDIT

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

WHEREAS
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
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
(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.

	Acceptano	e Certifica	ate		Annexure-K	
PO No. NAL/I	PUR/			Date:		
0.1	O difference of O and I had all all					
	Certificate of Supply, Installation		I.	I .	I .	
1	This is to certify that the equip along with all the standard and installed, commissioned and a	d special acces	•	_		
(a)	Contract No.					
	Date					
	Value					
(b)	Mode of Shipment Description of the Equipment					
(6)	Description of the Equipment					
(c)	Name of the Consignee		CSIR-NAL, Bengal	uru		
(d)	Scheduled date of Delivery of t					
(0)	Consignment to the Laboratory		of LC Establishe	.d		
(e)	Date of Establishment		Shipment		f Expiry	
(f)	Actual date of	receipt of Co	nsignment by the	e Laboratory/Ins	titute	
	Date of Shipmer	nt	Date	of Receipt at CS	IR-NAL	
(g)	Scheduled date for completion Installation, Commissioning an					
(h)	Actual date of completion of In	<u> </u>				
	Commissioning and acceptanc					
(i)	Penalty for Late Delivery (at La	boratory /				
(1)	Institute level) Rs.		4			
()	Penalty for Late Installation, Co and Acceptance (at Laboratory	_				
	level) Rs.					
2	Details of accessories/items no		and recoveries to b			
Sr. No.	Desc	ription		Amount to	be recovered	
3	The acceptance test has been	dono to our on	tire estimation. Th	o Supplier bee fulf	illed his contractua	
3	obligations satisfactory - Yes	done to our en	tire satisfaction. Th	ie Supplier flas full	med ms contractua	
			OR			
C= N=	The Supplier has falled to ful		ctual obligations wi		lowing: be recovered	
Sr. No.	Desc	ription		Amount to	be recovered	
The amount of	recovery on account of failure o	f the supplier t	to meet his contrac	tual obligations is a	as indicated at Para	
3	T					
4	Liquidated Damages/Penalty F	Percentage	Commission the s in the order within Supplier is liable to per week or part of	n the due date incli to pay penalty of 0. of a week.	fications mentioned uding training, the 5% of order value	
	No. of Days / Weeks of	delayed	(b) The maximum amount of penalty shall be 10% Amount to be recovered			
			7			
5	Warranty Details			1		
	Tables of 15		COMPLETES (1)	T COMPLETES :	and the second	
6	Training, if any		COMPLETED/ NO Certificate/docum	T COMPLETED (atta lent, if any)	ach training	
7	Details of Performance Security	, submitted in			d Droft	
,	BG No.	Date	Amount in Rs.	Valid till	% of BG	
	<u> </u>				l	
For Purchase	r (Indenting Officer)		For Purchaser (I	Project Leader)		
Signature			Signature			
Name			Name			
Designation			Designation			
_	la cuata a coloratito de	OCID NAI			OCID NAI	
	aboratory/Institute	CSIR-NAL	Name of the Labo	ratory/Institute	CSIR-NAL	
Date	<u> </u>		Date			
For Supplier						
Signature						
Name		79				
Designation Name of the						
Supplier						
Date						

FORMAT OF INTEGRITY PACT INTEGRITY PACT

Tender No.:

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Prear	mble											
	Principal		,						•	,	,	
regul	ations, eco ractor(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.
- 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 singed 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), CSIR.

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):	