

### **REQUEST FOR BIDS (RFB)**

Name of the Procuring Entity: Sri Lanka Air Force.

**Title of Contract:** Purchase of Qty 01 Brand New Aviation Re- Fuel Bowser (10,000Ltrs Capacity)

### Bid Number: AHQ/25/PUB/E/1007

1. This Request for Bids follows the General Procurement Notice/Advanced Procurement Notice for this purchase that appeared in:

- a. Sunday Observer on 08 Jun 25
- b. Waramanjali on 08 Jun 25
- c. Silumina on 08 Jun 25

2. The Chairman Ministry Procurement Committee Department Procurement Committee (DPC) on behalf of the Sri Lanka Air Force now invites sealed bids/proposals from eligible and qualified bidders for Purchase of Qty 01 Brand new Aviation Re- fuel Bowser (10,000Ltrs Capacity)

### 3. **The delivery period is.**

- a. **Earliest Delivery Period**: 10 Months
- b. Latest Delivery Period: 11 Months
- 4. Bidding will be conducted through International Competitive Bidding (ICB).

### 5. **Qualifications requirements include:**

a. Documents specified in eligibility and qualification requirements specified in Section V.

b. A margin of preference for eligible locally produced goods **shall not be applied.** 

6. A complete set of Procurement Documents in English may be purchased by interested bidders:

a. Upon submission of a written request to the address given in para 5 above.

b. Upon payment of a non-refundable fee of LKR 20,000.00 to the Director Finance of the Sri Lanka Air Force (SLAF) at the address given in para 5.

c. **Method of payment**: By cash.

7. Bids addressed to the Chairman Department Procurement Committee (DPC) must be delivered to the address mentioned in para 12.

a. **Bids** should only be **hand delivered**, sent via registered post or couriered.

b. **Emailed bids** and bids sent via fax will not be accepted.

c. Late bids shall be rejected.

d. Bids/proposals will be opened at 1030 hrs on 22 July 2025 in the presence of bidders' representatives (in-person or virtually) at LL2 Floor, Air Force Headquarters, Sri Jayewardenapuara, Kotte.

# 8. All bids must include a **Bid-Security for the value of LKR 1,200,000.00 validity date until 16 December 2025.**

9. If stated in the Data Sheet the Bidder shall submit a certificate from the manufacturer to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in Sri Lanka.

10. If the testing charges / samples are required by the Bidding Document (Please refer Section IV) the relevant conditions given in the Bidding Document shall be complied with in all respects without any reservation. The original cash receipt for testing charges issued by the Director Finance of the SLAF shall be attached to the original bid.

11. The successful bidder shall undertake to perform the resulting order/ contract with allreasonable skill, diligence and care in accordance with sound industry practice to the satisfaction of the SLAF and accept full responsibility for the satisfactory quality of such goods/services as delivered /performed by them. Any non-conformity/ malfunction/ defect/ deficiency noticed in the goods delivered/ services rendered shall be promptly remedied by the successful bidder upon the receipt of written notice from the SLAF.

12. Interested eligible bidders may inspect the Procurement Documents at the address given above during 0900 hrs to 1500 hrs on any working day and obtain further information from

Chief Procurement Officer Air Force Headquarters P.O Box 594, Defence Headquarters Complex Sri Jayewardenepura, Kotte Sri Lanka **Tel**: +94 112 328850/ 2441553 **E-mail**: <u>lquote@slaf.gov.lk</u>

> -Signed-(HAD DIAS) Air Commodore Chief Procurement Officer for COMMANDER OF THE AIR FORCE

08 June 2025

## SECTION I. INSTRUCTIONS TO BIDDERS (ITB)

ITB shall be read in conjunction with the Section II, Bidding Data Sheet (BDS), which shall take precedence over ITB.

SECTION	ITB	Clause
	1. Scope of Bid	1.1 The Purchaser indicated in the Bidding
		Documents for the supply of Goods and
		Related Services incidental thereto as specified
		in Section V, Schedule of Requirements. The
		name and identification number of this procurement are specified in the BDS. The
		name, identification, and number of lots
		(individual contracts), if any, are provided in
		the BDS.
		1.2 Throughout these Bidding Documents:
		(a) the term "in writing" means communicated
GENERAL		in written form by mail (other than electronic
		(b) if the context so requires, "singular" means
		"plural" and vice versa; and
	2 Source of Funds	(c) "day" means calendar day.
	2. Source of Funds	financed by the source specified in the BDS.
	3. Ethics, Fraud and	3.1 The attention of the bidders is drawn to the
	Corruption	following guidelines of the Procurement
		Guidelines published by National Procurement
		Actions, namely, suppliers/contractors and
		officials shall ensure that they maintain strict
		confidentiality throughout the process;
		- Officials shall refrain from receiving any
		personal gain from any Procurement Action.
		No gifts or inducement shall be accepted.
		disgualified from the bidding process if found
		offering any gift or inducement which may
		have an effect of influencing a decision or
		impairing the objectivity of an official.
		3.2 The Purchaser requires the bidders,
		suppliers, contractors, and consultants to observe the highest standard of ethics during

		the procurement and execution of such contracts. In pursuit of this policy:
		(a) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
		(b) "fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
		(c) "collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the Purchaser to establish bid prices at artificial, non- competitive levels; and
		(d) "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.
		3.3 If the Purchaser found any unethical practices as stipulated under ITB Clause 3.2, the Purchaser will reject a bid, if it is found that a Bidder directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.
ELIGIBLE BIDDERS	4. Eligible Bidders	4.1 All bidders shall possess legal rights to supply the Goods under this contract. 4.2 A Bidder shall not have a conflict of interest. All bidders found to have conflict of interest shall be disqualified. Bidders may be considered to have a conflict of interest with one or more parties in this bidding process, if they:
		(a) are or have been associated in the past, 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 these Bidding Documents; or

		<ul> <li>(b) submit more than one bid in this bidding process. However, this does not limit the participation of subcontractors in more than one bid.</li> <li>4.3 A Bidder that is under a declaration of ineligibility by the National Procurement Agency (NPA), at the date of submission of bids or at the date of contract award, shall be disqualified. The list of debarred firms is available at the website of NPA, www.npa.gov.lk.</li> </ul>
		4.4 Foreign Bidder may submit a bid only if so stated in the BDS
ELIGIBLE GOODS AND RELATED SERVICES	5. Eligible Goods and Related Services	5.1 All goods supplied under this contract shall be complied with applicable standards stipulated by the Sri Lanka Standards Institute (SLSI). In the absence of such standards, the Goods supplied shall be complied to other internationally accepted standards
CONTENTS OF BIDDING DOCUMENTS	6. Sections of Bidding Documents	6.1 The Bidding Documents consist of 2 Volumes, which include all the sections indicated below, and should be read in conjunction with any addendum issued in accordance with ITB Clause 8.
		Section VI. Conditions of Contract (CC) Section VIII. Contract Forms
		VOLUME 2 Section II. Bidding Data Sheet (BDS) Section III. Evaluation and Qualification Criteria Section IV. Bidding Forms Section V. Schedule of Requirements Section VII. Contract Data Invitation For Bid
		6.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Documents may result in the rejection of the bid.
CLARIFICATION AND AMENDMENT	7. Clarification of Bidding Documents	7.1 A prospective Bidder requiring any clarification of the Bidding Documents including the restrictiveness of specifications

		shall contact the Purchaser in writing at the
		Shah contact the furchaser in writing at the
		Purchaser's address specified in the BDS. The
		Purchaser will respond in writing to any
		request for clarification, provided that such
		request is received no later than ten (10) days
		prior to the deadline for submission of bids.
		The Purchaser shall forward copies of its
		response to all those who have purchased the
		Bidding Documents, including a description of
		the inquiry but without identifying its source.
		Should the Purchaser deem it necessary to
		amend the Bidding Documents as a result of a
		clarification it shall do so following the
		procedure under ITB Clause 8
	8 Amondmont of	8.1 At any time prior to the deadline for
	o. Allenument of Bidding Documents	submission of hids the Durcheser may amond
	Didding Documents	submission of blus, the Fulchaser may amend
		the Blading Documents by issuing addendum.
		8.2 Any addendum issued shall be part of the
		Bidding Documents and shall be
		communicated in writing to all who have
		purchased the Bidding Decuments
		purchased the Bidding Documents.
		8.3 To give prospective Bidders reasonable
		time in which to take an addendum into account
		in propering their hide, the Durcheson may at its
		dispersion autond the deadline for the
		discretion, extend the deadline for the
		submission of bids, pursuant to IIB Sub-
	0 Cast of Didding	Clause 25.2.
PREPARATION	9. Cost of Bidding	9.1 The Bidder shall bear all costs associated
OF BIDS		with the preparation and submission of its bid,
		and the Purchaser shall not be responsible or
		liable for those costs, regardless of the conduct
		or outcome of the bidding process.
	10. Language of Bid	10.1 The Bid, as well as all correspondence and
		documents relating to the Bid (including
		supporting documents and printed literature)
		exchanged by the Bidder and the Purchaser,
		shall be written in English language.
	11. Documents	11.1 The Bid shall comprise the following:
	Comprising the Bid	
		(a) Bid Submission Form and the applicable
		Price Schedules, in accordance with ITB
		Clauses 12, 14, and 15:
		(b) Bid Security or Bid-Securing Declaration,
		in accordance with ITB Clause 20;
		(c) documentary evidence in accordance with
		ITB Clauses 18 and 29, that the Goods and

		Related Services conform to the Bidding Documents;
		(d) documentary evidence in accordance with ITB Clause 18 establishing the Bidder's qualifications to perform the contract if its bid is accepted; and
		(e) any other document required in the BDS
BID SUBMISSION	12. Bid Submission Form and Price Schedules	12.1 The Bidder shall submit the Bid Submission Form using the form furnished in Section IV, Bidding Forms. This form 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.
	13. Alternative Bids	13.1 Alternative bids shall not be considered.
	14. Bid Prices and Discounts	14.1 The Bidder shall indicate on the Price Schedule the unit prices and total bid prices of the goods it proposes to supply under the Contract.
		14.2 Any discount offered against any single item in the price schedule shall be included in the unit price of the item. However, a Bidder wishes to offer discount as a lot the bidder may do so by indicating such amounts appropriately.
		14.3 If so indicated in ITB Sub-Clause 1.1, bids are being invited for individual contracts (lots) or for any combination of contracts (packages). Unless otherwise indicated in the BDS, prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer any price reduction (discount) for the award of more than one Contract shall specify the applicable price reduction separately.
		<ul><li>14.4</li><li>(i) Prices indicated on the Price Schedule shall include all duties and sales and other taxes already paid or payable by the Supplier:</li></ul>
		<ul><li>(a) on components and raw material used in the manufacture or assembly of goods quoted; or</li></ul>

	(b) on the previously imported goods of foreign origin.
	(ii) However, VAT shall not be included in the price but shall be indicated separately;
	(iii) the price for inland transportation, insurance and other related services to deliver the goods to their final destination;
	(iv) the price of other incidental services.
	14.5 The Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non- responsive and rejected, pursuant to ITB Clause 31.
	14.6 All lots, if any, 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.
15. Currencies of Bid	15.1 Unless otherwise stated in Bidding Data Sheet, the Bidder shall quote in Sri Lankan Rupees and payment shall be payable only in Sri Lanka Rupees.
16. Documents Establishing the Eligibility of the Bidder	16.1 To establish their eligibility in accordance with ITB Clause 4, Bidders shall complete the Bid Submission Form, included in Section IV, Bidding Forms.
17. Documents Establishing the Conformity of the Goods and Related Services	17.1 To establish the conformity of the Goods and Related Services to the Bidding Documents, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section V, Schedule of Requirements.
	17.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description (given in Section V, Technical Specifications) of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if

		applicable, a statement of deviations and exceptions to the provisions of the Schedule of Requirements.
		17.3 The Bidder shall also furnish a list giving full particulars, including quantities, available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period if specified in the BDS following commencement of the use of the goods by the Purchaser.
18. Est Qu Bid	Documents tablishing the alifications of the lder	18.1 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:
		(a) A Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods;
		(b) that, if required in the BDS, in case of a Bidder not doing business within Sri Lanka, the Bidder is or will be (if awarded the contract) represented by an Agent in Sri Lanka equipped and able to carry out the Supplier's maintenance, repair and spare parts stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and
		(c) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.
19. Val	Period of lidity of Bids	19.1 Bids shall remain valid until the date specified in the BDS. A bid valid for a shorter date shall be rejected by the Purchaser as non-responsive.
		19.2 In exceptional circumstances, prior to the expiration of the bid validity date, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 20, it shall also be extended for a corresponding period. A Bidder may refuse the

		request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its bid.
<b>BID SECURITY</b>	20. Bid Security	20.1 The Bidder shall furnish as part of its bid, a Bid Security or a Bid-Securing Declaration, as specified in the BDS.
		20.2 The Bid Security shall be in the amount specified in the BDS and denominated in Sri Lanka Rupees, and shall:
		(a) at the bidder's option, be in the form of either a bank draft, a letter of credit, or a bank guarantee from a banking institution;
		(b) be issued by a institution acceptable to Purchaser. The acceptable institutes are published in the NPA website, www.npa.gov.lk.
		(c) be substantially in accordance with the form included in Section IV, Bidding Forms;
		(d) be payable promptly upon written demand by the Purchaser in case the conditions listed in ITB Clause 20.5 are invoked;
		(e) be submitted in its original form; copies will not be accepted;
		(f) remain valid for the period specified in the BDS.
		20.3 Any bid not accompanied by a substantially responsive Bid Security or Bid Security Declaration in accordance with ITB Sub-Clause 20.1 and 20.2, may be rejected by the Purchaser as non-responsive.
		20.4 The Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the Performance Security pursuant to ITB Clause 43.
		20.5 The Bid Security may be forfeited or the Bid Securing Declaration executed:
		(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder

		on the Bid Submission Form, except as
		provided in ITB Sub-Clause 19.2; or
		(b) if a Bidder does not agreeing to correction
		of arithmetical errors in pursuant to ITB Sub-
		Clause 50.5
		(c) if the successful Bidder fails to:
		(i) sign the Contract in accordance with ITB Clause 42;
		(ii) furnish a Performance Security in
	21. Format and	21.1 The Bidder shall prepare one original of
	Signing of Bid	the documents comprising the bid as described
		in ITB Clause 11 and clearly mark it as
		"ORIGINAL." In addition, the Bidder shall submit a copy of the bid and clearly mark it as
		"COPY." In the event of any discrepancy
		between the original and the copy, the original
		shall prevail.
		21.2 The original and the Copy of the bid shall
		be typed or written in indelible ink and shall be
		signed by a person duly authorized to sign on behalf of the Bidder
		21.3 Any interlineations, erasures, or
		overwriting shall be valid only if they are signed or initialled by the person signing the
		Bid.
SUBMISSION	22. Submission,	22.1 Bidders may always submit their bids by
AND OPENING OF BIDS	Sealing and Marking of Rids	mail or by hand. (a) Bidders submitting bids by mail or by hand shall enclose the original and
	that ming of Dido	the copy of the Bid in separate sealed
		envelopes, duly marking the envelopes as
		"ORIGINAL" and "COPY." These envelopes
		be enclosed in one single envelope.
		22.2 The inner and outer envelopes shall:
		(a) Bear the name and address of the Bidder;
		(b) be addressed to the Purchaser in accordance with ITB Sub-Clause 23.1.
		(c) bear the specific identification of this
		bidding process as indicated in the BDS; and
		(d) bear a warning not to open before the time
		and date for bid opening, in accordance with ITB Sub-Clause 26.1
		If all envelopes are not sealed and marked as
		required, the Purchaser will assume no

	reen	onsibility for	the	misplacement	or
	nren	nature opening of	the bi	id	01
23 Deadl	ne for 23.1	Bids must be rec	eived	by the Purchas	er at
Submissio	<b>n of Bids</b> the a	address and no lat	ter that	in the date and	time
	spec	ified in the BDS.			
	1				
	23.2	The Purchaser	may,	at its discret	tion,
	exte	nd the deadline for	or the	submission of	bids
	by	amending the	Biddiı	ng Documents	s in
	acco	ordance with ITB	Claus	se 8, in which	case
	all r	ights and obligati	ons of	f the Purchaser	and
	Bidd	ters previously su	bject t	to the deadline s	shall
	there	eanter be subject	ct to	the deadline	e as
24 Late I	$\frac{1}{100}$	The Purchaser of	hall n	ot consider any	bid
24. Late 1	that	arrives after the d	eadlin	e for submissic	on of
	bids	in accordance v	vith I	TB Clause 23.	Anv
	bid 1	eceived by the Pu	irchase	er after the dead	lline
	for a	submission of bio	ls sha	ll be declared	late,
	rejec	cted, and returned	unop	ened to the Bid	der.
25. Withd	<b>rawal</b> , 25.1	A Bidder may wi	thdrav	w, or modify its	Bid
and Modi	fication of after	: it has been subm	itted b	by sending a wr	itten
Bids	noti	ce in accordance v	with I	I B Clause 22, (	duly
	sign	l include a conv		representative,	n in
		rdance with ITB	Sub-C	lause 21.2. (ex	cent
	that	no copies of th	e with	hdrawal notice	are
	requ	ired). The corres	spond	ing substitution	n or
	mod	ification of the l	oid m	ust accompany	the
	resp	ective written not	tice. A	All notices must	t be:
	(a) s	submitted in acco	rdance	e with ITB Cla	uses
	21 a	and 22 (except the	at wit	hdrawal notice	s do
	not	require copies),	, and	in addition,	the
	"wi	THDRAWAL "	shan	MODIFICATIC	IKed
	and	(b) received by t	he Pu	rchaser prior to	the
	dead	(b) received by the	or sub	mission of bid	s in
	acco	ordance with ITB	Claus	e 23.	<b>5, 111</b>
	25.2	Bids requested	d to	be withdrawn	n in
	acco	ordance with ITB	Sub-C	Lause 25.1 sha	II be
	retur	rned to the Bidde	rs onl	y upon notifica	tion
		ontract award to	ule si	$\frac{1}{\sqrt{1}}$	er in
	25 3	No bid may be w	vithdre	 awn_substituted	d. or
	mod	ified in the inter	val be	tween the dead	illine
	for s	ubmission of bids	s and t	he expiration o	f the
	peri	od of bid validity	speci	ified by the Bi	dder
	on t	he Bid Submissio	n For	m or any exten	sion
	there	eof.		-	

	26. Bid Opening	26.1 The Purchaser shall conduct the bid
		opening in public at the address, date and time
		specified in the BDS.
		•
		26.2 First, envelopes marked
		"WITHDRAWAL" shall be opened and read
		out and the envelope with the corresponding
		bid may be opened at the discretion of the
		Purchaser. No bid withdrawal shall be
		permitted unless the corresponding withdrawal
		notice contains a valid authorization to request
		the withdrawal and is read out at bid opening.
		Envelopes marked "MODIFICATION" shall
		be opened and read out with the corresponding
		Bid. No Bid modification shall be permitted
		unless the corresponding modification notice
		contains a valid authorization to request the
		modification and is read out at Bid opening.
		Only envelopes that are opened and read out at
		Bid opening shall be considered further.
		26.3 All other envelopes shall be opened one at
		a time, reading out: the name of the Bidder and
		whether there is a modification; the Bid Prices,
		including any discounts and alternative offers;
		the presence of a Bid Security or Bid-Securing
		Declaration, if required; and any other details
		as the Purchaser may consider appropriate.
		only discounts and alternative offers fead out at Bid opening shall be considered for
		at blu opening shall be rejected at Bid
		opening except for late hids in accordance with
		ITB Sub-Clause 24.1
		26.4 The Purchaser shall prepare a record of
		the Bid opening that shall include, as a
		minimum: the name of the Bidder and whether
		there is a withdrawal, or modification; the Bid
		Price, per lot if applicable, including any
		discounts, and the presence of absence of a Bid
		becurity or Bid-Securing Declaration. The bids
		anyelones promptly after the hid opening. The
		Ridders' representatives who are present shall
		be requested to sign the attendance sheet A
		copy of the record shall be distributed to all
		Bidders who submitted bids in time.
EVALUATION	27. Confidentiality	27.1 Information relating to the examination,
AND		evaluation, comparison, and post-qualification
		(if applicable) of bids, and recommendation of

COMPARISON		contract award, shall not be disclosed to
OF BIDS		bidders or any other persons not officially concerned with such process until publication of the Contract Award.
		27.2 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.
		27.3 Notwithstanding ITB Sub-Clause 27.2, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, from the time of bid opening to the time of Contract Award, it should do so in writing.
	28. Clarification of Bids	28.1 To assist in the examination, evaluation, comparison and post-qualification of the bids, the Purchaser may, at its discretion, request any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered for purpose of evaluation. The Purchaser's request for clarification and the response shall be in writing. No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids, in accordance with ITB Clause 30.
	29. Responsiveness of Bids	29.1 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself.
		29.2 A substantially responsive Bid is one that conforms to all the terms, conditions, and specifications of the Bidding Documents without material deviation, reservation, or omission. 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.
	29.3 If a bid is not substantially responsive to the Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.
30. Nonconformities, Errors, and Omissions	30.1 Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.
	30.2 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. 30.3 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 in figures is greater, in which case the amount in figures shall prevail.

		30.4 If the Bidder that submitted the lowest
		evaluated Bid does not accept the correction of
		errors, its Bid shall be disqualified and its Bid
		Security shall be forfeited or its Bid-Securing
		Declaration shall be executed.
	31. Preliminary	31.1 The Purchaser shall examine the bids to
	Examination of	confirm that all documents and technical
	Bids	documentation requested in ITB Clause 11
		have been provided, and to determine the
		completeness of each document submitted
		compreteness of each document submitted.
		31.2 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 Bid
		shall be rejected
		shan be rejected.
		(a) Bid Submission Form in accordance with
		ITB Sub-Clause 12 1.
		(b) Price Schedules in accordance with ITB
		Sub Clause 12:
		(a) Bid Security or Bid Securing Declaration
		in accordance with ITB Clause 20
	32 Examination of	22.1 The Durchesor shall examine the Rid to
	52. Examination of Torms and	confirm that all terms and conditions specified
	Conditions:	in the CC and the Contract Data have been
	Tochnicol	accepted by the Bidder without any material
	Fyelyetion	deviation or reservation
		32.2 The Purchaser shall evaluate the technical
		aspects of the Bid submitted in accordance with
		ITB Clause 17 to confirm that all requirements
		specified in Section V Schedule of
		Requirements of the Bidding Documents have
		been met without any material deviation or
		reservation
		32.3 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 20 the Purchaser shall reject the
		Bid
	33 Conversion to	33.1 If the hidders are allowed to quote in
	Single Currency	foreign currencies in accordance with sub
	Single Currency	clause 15.1 for evaluation and comparison
		nurposes the Purchaser shall convert all bid
		prices expressed in foreign currencies in to Sri
		I ankan Runees using the selling rates preveiled
		28 days prior to closing of hids as multished by
1		$_{\perp}$ 20 days prior to closing of bids as published by

	the Central Bank of Sri Lanka. If this date falls
	on a public holiday the earliest working day
	prior to the date shall be applicable.
34. Domestic	34.1 Domestic preference shall be a factor in
Preference	bid evaluation only if stated in the BDS. If
	domestic preference shall be a bid-evaluation
	factor, the methodology for calculating the
	margin of preference and the criteria for its
	application shall be as specified in Section III
	Evaluation and Qualification Criteria
27 F 1 41 6	25.1 The Development all see least and hid that
<b>55.</b> Evaluation of	55.1 The Purchaser shall evaluate each bld that
BIOS	has been determined, up to this stage of the
	evaluation, to be substantially responsive.
	35.2 To evaluate a Bid, the Purchaser shall only
	use all the factors, methodologies and criteria
	defined in this ITB Clause 35.
	35.3 To evaluate a Rid the Purchaser shall
	consider the following:
	(a) the Bid Price as quoted in accordance with
	clause 14:
	(h) mice ediverment for competion of
	(b) price adjustment for conection of
	Clause 20.2.
	(a) price adjustment due to discounts offered in
	(c) price adjustment due to discounts offered in
	accordance with TTB Sub-Clause 14.2; and
	(d) adjustments due to the application of the
	evaluation criteria specified in the BDS from
	amongst those set out in Section III, Evaluation
	and Qualification Criteria;
	(e) adjustments due to the application of a
	domestic preference, in accordance with ITB
	Clause 34 if applicable.
	35.4 The Purchaser's evaluation of a hid may
	require the consideration of other factors in
	addition to the factors used in ITR Sub-Clause
	addition to the factors used in TTD Sub-Clause
	35.3, if specified in BDS. These factors may be
	related to the characteristics, performance, and
	terms and conditions of purchase of the Goods
	and Related Services. The effect of the factors
	selected, if any, shall be expressed in monetary
	terms to facilitate comparison of hids
	terms to ruemtate comparison of olds.
	35.5 If so specified in the RDS these Ridding
	Documents shall allow Ridders to quote for one
	or more lots and shall allow the Durchaser to
	1 or more row, and shan allow the rule faser to

[		award one or multiple lots to more then one
		Bidden The methodology of evoluation to
		Blader. The methodology of evaluation to
		determine the lowest-evaluated lot
		combinations, is specified in Section III,
		Evaluation and Qualification Criteria.
	36. Comparison of	36.1 The Purchaser shall compare all
	Bids	substantially responsive bids to determine the
		lowest-evaluated bid, in accordance with ITB
		Clause 35.
	37. Post	37.1 The Purchaser shall determine to its
	qualification of the	satisfaction whether the Bidder that is selected
	Bidder	as having submitted the lowest evaluated and
		substantially responsive bid is qualified to
		perform the Contract satisfactorily
		37.2 The determination shall be based upon an
		examination of the documentary evidence of
		the Bidder's qualifications submitted by the
		Bidder pursuant to ITR Clause 18
		Didder, pursuant to TTD Clause 10.
		37.3 An affirmative determination shall be a
		prerequisite for award of the Contract to the
		Bidder A negative determination shall result in
		disqualification of the bid in which event the
		Purchaser shall proceed to the next lowest
		avaluated hid to make a similar determination
		of that Biddor's canabilities to perform
		of that Bluder's capabilities to perform
	20 Dunch a gan?g	28.1 The Dunchaser records the right to accent
AWAKD OF CONTRACT	<b>Jo.</b> Furchaser's Dight to Account Any	50.1 The Fulchaser reserves the right to accept
CONTRACT	Right to Accept Any	or reject any bid, and to annul the blocking
	Bid, and to Keject	process and reject an blds at any time prior to
	Any or All Blds	is tilter to Didden
		11ability to Bidders.
	<b>39.</b> Award Criteria	39.1 The Purchaser shall award the Contract to
		the Bidder whose offer has been determined to
		be the lowest evaluated bid and is substantially
		responsive to the Bidding Documents,
		provided further that the Bidder is determined
		to be qualified to perform the Contract
		satisfactorily.
	40. Purchaser's	40.1 At the time the Contract is awarded, the
	<b>Right to Vary</b>	Purchaser reserves the right to increase or
	Quantities at Time	decrease the quantity of Goods and Related
	of Award	Services originally specified in Section V,
		Schedule of Requirements, provided this does
		not exceed twenty five percent (25%) or one
		unit whichever is higher and without any
		change in the unit prices or other terms and
		conditions of the bid and the Bidding
		Documents.

41. Notification of	41.1 The Standstill Period will be observed to
Award	provide sufficient time for Bidders to consider
	whether they should submit an appeal against
	the Purchaser's decision to award the contract.
	The Standstill Period shall apply to all
	competitive bidding processes, except in the
	following circumstances:
	(a) Only a single bid/proposal has been
	received in response to the bidding process.
	(b) The procurement is conducted
	through Direct Contracting, Request for
	Quotations (RFQ), or Shopping methods.
	(c) The procurement is made to address
	an emergency situation, as determined by the
	relevant Government Authorities.
	41.2 Any unsuccessful Bidder may request a debriefing from the Purchaser to obtain further
	clarification on the reasons for the decision
	The request for debriefing must be submitted in
	writing to the Purchaser before the expiry of the
	third (3rd) working day of the Standstill Period.
	The Purchaser shall conclude the debriefing
	and provide the requested information to the
	Bidder before the expiry of the fifth (5th)
	working day of the Standstill Period. If any
	Bidder wishes to submit an appeal against the
	Purchaser's decision to award the contract,
	Such appear must be submitted in writing to the Purchaser before the expirit of the Standstill
	Period 10 working days
	(b) The appeal shall include the grounds for the
	appeal and any supporting evidence.
	(c) The Purchaser shall review the appeal and
	respond in accordance with the applicable
	laws, regulations, and procurement guidelines.
	11.3 After the Standstill Period or any appeals
	heing resolved prior to the expiration of the
	period of hid validity the Purchaser shall notify
	the successful Bidder, in writing, that its Bid
	has been accepted.
	_
	41.4 Until a formal Contract is prepared and
	executed, the notification of award shall
	constitute a binding Contract.

		41.5 Upon the successful Bidder's furnishing of the signed Contract Form and performance security pursuant to ITB Clause 43, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 20.4.
4	2. Signing of	42.1 Within Seven (7) days after notification,
	Contract	the Purchaser shall complete the Agreement,
		and inform the successful Bidder to sign it.
		42.2 Within Seven (7) days of receipt of such
		information, the successful Bidder shall sign
		the Agreement.
4	<b>13. Performance</b>	43.1 Within fourteen (14) days of the receipt of
S	Security	notification of award from the Purchaser, the
		successful Bidder, if required, shall furnish the
		Performance Security in accordance with the
		CC, using for that purpose the Performance
		Security Form included in Section VIII
		Contract forms. The Employer shall promptly
		notify the hame of the winning bluder to each unguages of the Bidder and discharge the Bid
		unsuccession bloder and discharge the blo
		to ITP Sub Clause 20.4
		10 11 D Sub-Clause 20.4.
		43.2 Failure of the successful Bidder to submit
		the above-mentioned Performance Security or
		sign the Contract shall constitute sufficient
		grounds for the annulment of the award and
		forfeiture of the Bid Security or execution of
		the Bid-Securing Declaration. In that event the
		Purchaser may award the Contract to the next
		lowest evaluated Bidder, whose offer is
		substantially responsive and is determined by
		the Purchaser to be qualified to perform the
		Contract satisfactorily.

## SECTION II. BIDDING DATA SHEET

SECTION	CLAUSE	GENERAL
GENERAL	ITB 1.1	The Purchaser is Sri Lanka Air Force.
	ITB 1.1	The name of the Contract is: Purchase of Qty 01
		Brand new Aviation Refuel Bowser (10,000 ltrs
		Capacity) Bid Identification Number:
		AHQ/25/PUB/E/1007
	ITB 2.1	The source of funding Government of Democratic
		Socialist Republic of Sri Lanka.
	ITB 3.2 (c)	Submit a Non-Collusion Affidavit (refer to in Section
		IV Form V) as part of their bid submission, affirming
		that they have not engaged in any collusive, corrupt, or
		fraudulent practices in connection with the
		procurement process.
	ITB 4.4	Foreign bidders are ALLOWED to participate in
		bidding.
CONTENTS OF	ITB 7.1	For Clarification of bid purposes only, the Purchaser's
BIDDING		address is:
DOCUMENTS		Chief Procurement Officer
		Air Force Headquarters
		P.O Box 594, Defence Headquarters Complex
		Sri Jayewardenepura, Kotte
		Sri Lanka
		Tel: +94 112 328850/ 2441553
		<b>E-mail</b> : lquote@slaf.gov.lk
PREPARATION	ITB 11.1 (e)	The documents that should be included in your bid:
OF BIDS		i. Forwarding/ covering letter duly signed by
		the Authorized person. The following documents
		must be firmly attached to this letter:
		a. The original cash receipt issued for the purchase
		of the Bidding Document, by the Director of Finance
		(DF) Sri Lanka Air Force (SLAF)
		(DF), SII Lanka All Force (SLAF).
		b. The original payment receipt for testing charges,
		issued by the Dr, SLAF (ii applicable).
		ii. Bid Security if applicable (if applicable, shall
		be as per the form available in Section IV – Form
		III).
		iii. Bid Submission Form (shall be as per the
		form available in Section IV – Form I).
		iv. Non-Collusion Affidavit (refer to in Section
		IV Form V)
		v. Price Schedule (shall be as per the form
		available in Section IV – Form II)
		vi. A copy of the letter issued by Inland Revenue
		Department as an active VAT payee or Non- VAT
		pavee.

	vii. Company Profile (shall be as per the form available in Section IV – Form VI). viii. Authority of signing officer (if applicable),
	whether a power of attorney or any relevant
	Resolution) for the authorized person. In case of
	Joint Venture copy of JV Agreement or intent to
	form a Joint Venture.
	ix. Documents required to establish
	Requirements.
	x. Documents required to establish
	QUALIFICATION as per Section V Schedule of
	Requirements.
	xi. Duly prepared Certificate of Compliance for the Schedule of Requirements given in Section V
	This certificate shall evidence that the
	Goods/Services conform to the technical
	specifications, conditions and requirements and
	standards specified in Section V- Schedule of
	xii. Manufacturer's Authorization (shall be as
	per the form available in Section IV – Form IV)
	xiii. Any other document specified in the ITB
	BDS.
	xiv. A copy of this Bidding Document.
	xiv. A copy of this Bidding Document. Bidders are advised to compile the relevant documents as appropriate as per the sequence given in ITB C-1.
ITB 13	xiv.       A copy of this Bidding Document.         Bidders are advised to compile the relevant documents         as appropriate as per the sequence given in ITB C-1.         Alternative Bids WILL NOT BE considered.
ITB 13 ITB 14	xiv.       A copy of this Bidding Document.         Bidders are advised to compile the relevant documents as appropriate as per the sequence given in ITB C-1.         Alternative Bids WILL NOT BE considered.         .3       Bidders are not allowed to quote less than 100% quantity for each item.
ITB 13 ITB 14 ITB 15	xiv.       A copy of this Bidding Document.         Bidders are advised to compile the relevant documents as appropriate as per the sequence given in ITB C-1.         Alternative Bids WILL NOT BE considered.         .3       Bidders are not allowed to quote less than 100% quantity for each item.         .1       DDP (SLAF Base Katunayake – INCOTERMS 2020) price
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ITB 13 ITB 14 ITB 15	<ul> <li>xiv. A copy of this Bidding Document.</li> <li>Bidders are advised to compile the relevant documents as appropriate as per the sequence given in ITB C-1.</li> <li>Alternative Bids WILL NOT BE considered.</li> <li>.3 Bidders are not allowed to quote less than 100% quantity for each item.</li> <li>.1 DDP (SLAF Base Katunayake – INCOTERMS 2020) price for the items/services to be delivered under this tender may be quoted, United States Dollars (USD), Sterling Pounds (£), Yen (¥) or Euro (All related costs to deliver the goods to their</li> </ul>
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ITB 13 ITB 14 ITB 15	xiv.       A copy of this Bidding Document.         Bidders are advised to compile the relevant documents as appropriate as per the sequence given in ITB C-1.         Alternative Bids WILL NOT BE considered.         .3       Bidders are not allowed to quote less than 100% quantity for each item.         .1       DDP (SLAF Base Katunayake – INCOTERMS 2020) price for the items/services to be delivered under this tender may be quoted, United States Dollars (USD), Sterling Pounds (£), Yen (¥) or Euro (All related costs to deliver the goods to their final destination inclusive of duties, sales and other taxes, transportation, insurance. Excluding VAT. The prices offered in Sri Lankan Rupees (LKR) shall also be for Delivery to SLAF Base Katunayake).         Please note that the bids that will be based on foreign currency will be converted to the Sri Lankan Rupee by using the parity rate prevailed 28 days before the deadline for submission of bid.
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ITB 13         ITB 14         ITB 15         ITB 15         ITB 17	<ul> <li>xiv. A copy of this Bidding Document.</li> <li>Bidders are advised to compile the relevant documents as appropriate as per the sequence given in ITB C-1.</li> <li>Alternative Bids WILL NOT BE considered.</li> <li>Bidders are not allowed to quote less than 100% quantity for each item.</li> <li>DDP (SLAF Base Katunayake – INCOTERMS 2020) price for the items/services to be delivered under this tender may be quoted, United States Dollars (USD), Sterling Pounds (£), Yen (¥) or Euro (All related costs to deliver the goods to their final destination inclusive of duties, sales and other taxes, transportation, insurance. Excluding VAT. The prices offered in Sri Lankan Rupees (LKR) shall also be for Delivery to SLAF Base Katunayake).</li> <li>Please note that the bids that will be based on foreign currency will be converted to the Sri Lankan Rupee by using the parity rate prevailed 28 days before the deadline for submission of bid.</li> <li>a. Technical Specifications / Brochures for each product offered.</li> </ul>
ITB 13         ITB 14         ITB 15         ITB 15         ITB 17         ITB 17	<ul> <li>xiv. A copy of this Bidding Document.</li> <li>Bidders are advised to compile the relevant documents as appropriate as per the sequence given in ITB C-1.</li> <li>Alternative Bids WILL NOT BE considered.</li> <li>Bidders are not allowed to quote less than 100% quantity for each item.</li> <li>DDP (SLAF Base Katunayake – INCOTERMS 2020) price for the items/services to be delivered under this tender may be quoted, United States Dollars (USD), Sterling Pounds (£), Yen (¥) or Euro (All related costs to deliver the goods to their final destination inclusive of duties, sales and other taxes, transportation, insurance. Excluding VAT. The prices offered in Sri Lankan Rupees (LKR) shall also be for Delivery to SLAF Base Katunayake).</li> <li>Please note that the bids that will be based on foreign currency will be converted to the Sri Lankan Rupee by using the parity rate prevailed 28 days before the deadline for submission of bid.</li> <li>a. Technical Specifications / Brochures for each product offered.</li> <li>a. A statement of deviations and exceptions to the</li> </ul>
ITB 13         ITB 14         ITB 15         ITB 15         ITB 17         ITB 17	xiv.       A copy of this Bidding Document.         Bidders are advised to compile the relevant documents as appropriate as per the sequence given in ITB C-1.         Alternative Bids WILL NOT BE considered.         .3       Bidders are not allowed to quote less than 100% quantity for each item.         .1       DDP (SLAF Base Katunayake – INCOTERMS 2020) price for the items/services to be delivered under this tender may be quoted, United States Dollars (USD), Sterling Pounds (£), Yen (¥) or Euro (All related costs to deliver the goods to their final destination inclusive of duties, sales and other taxes, transportation, insurance. Excluding VAT. The prices offered in Sri Lankan Rupees (LKR) shall also be for Delivery to SLAF Base Katunayake).         Please note that the bids that will be based on foreign currency will be converted to the Sri Lankan Rupee by using the parity rate prevailed 28 days before the deadline for submission of bid.         .1       a.       Technical Specifications / Brochures for each product offered.         .2       a.       A statement of deviations and exceptions to the provisions of the Technical Specifications given.

		The Bidder shall submit a detailed list of spare parts, special tools, and consumables necessary for the proper functioning of the Goods for 10 years after commissioning. The list must include: (a) Quantities: Minimum required stock for 10 years of operation. (b) Sources: OEM or approved alternative suppliers (with proof of authorization). (c) Current Prices: Unit prices (d) Delivery Time: Lead time for each item. (e) Compatibility: Certification of compatibility with supplied Goods.
	ITB 18.1 (b)	After-sales service is: "REQUIRED"
	ITB 19.1	The bid shall be valid until 19 September 2025.
	ITB 20.1	Bid shall include a Bid Security (issued by bank) included in Section IV Bidding Forms.
	ITB 20.2	The amount of the Bid Security shall be LKR
		1,200,000.00 The validity period of the bid security
		shall be until 16 December 2025
SUBMISSION	ITB 21.1	Bidders shall submit their bids in duplicate in sealed
AND OPENING		envelopes marked as ORGINAL and DUPLICATE,
OF BIDS		containing all required documents, including all
		documents ITB 11.1 (BDS).
	ITB 22.2 (c)	The envelope must be clearly marked as "ORIGINAL" and DUPLICATE along with the Tender Details as follows and addressed to the Purchaser as specified in the Bidding Data Sheet (BDS). <b>Bid Number: AHQ/25/PUB/E/1007</b> <b>Title of Contract:</b> Purchase of Qty 01 Brand New Aviation Re-Fuel Bowser <b>Opening Date</b> : 22 July 2025 <b>Opening Time</b> :1030 hrs.
	ITB 23.1	For bid submission purposes, the Purchaser's address is: Chief Procurement Officer
		Air Force Headquarters
		P.O Box 594, Defence Headquarters Complex
		Sri Jayewardenepura, Kotte
		Sri Lanka Tal. $\pm 0.4, 112, 228850/(2441552)$
		<b>E.mail</b> : lauote@slaf gov.lk
	ITB 23.1	The deadline for the submission of bids is:
		Date: 22 July 2025
		<b>Time</b> : 1030 hrs
	ITB 26.1	The bid opening shall take place at:
		Chief Procurement Officer
		Air Force Headquarters

		P O Box 594 Defence Headquarters Complex
		Sri Javewardenenura Kotte
		Shi Jaylewardenepura, Kotte
		Tel: +94 112 328850/ 2441553
		<b>E-mail</b> : lquote@slaf.gov.lk
		Date: 22 July 2025
		<b>Time</b> : 1030 hrs
EVALUATION	ITB 34.1	A margin of preference for eligible locally produced
	112 0	goods shall not be annlied
COMDADISON	ITD 25 2(d)	The adjustments shall be determined using the
OF DIDG	11D 55.5(u)	The aujustments shan be determined using the
OF BIDS		following criteria, from amongst those set out in
		Section III, Evaluation and Qualification Criteria:
		(a) Deviation in Delivery schedule: +1% of bid price
		per week beyond the earliest delivery date.
		(b) Deviation in payment schedule: +Interest cost
		(AWPR+3%) for days below the 45-day standard.
		(These adjustments are comprehensively described in
		(These adjustments are comprehensivery accentical in
	ITB 25 /	The following factors will also be considered for
	11D 55.4	The following factors will also be considered for
		evaluation in line with the criteria specified in Section
		111:
		a. Assessment of the quality standards of the
		goods or services offered. This will include
		certifications, compliance with industry standards,
		or past performance records.
		1 1
		b The length and terms of warranties offered as
		well as the availability and quality of after-sales
		well as the availability and quality of alter-sales
		service and support.
		c. Compliance with the technical specifications
		outlined in the bidding documents. This will include
		performance characteristics, durability, and
		compatibility with existing systems.
		1 7 0 7
		d The track record and experience of the hidder in
		u. The nack record and experience of the bluder in
		supplying similar goods or services. This will
		include references from previous clients or case
		studies of past projects.
		e. The financial health of the bidder, which may
		be assessed through financial statements, credit
		ratings, or other indicators of financial stability.
		f Consideration of the environmental impact of
		the goods or services including systems hilling
		the goods of services, including sustainability
		practices, eco-triendliness, and compliance with
		environmental regulations.

	g. Adherence to local laws and regulations, including labour laws, safety standards, and import/export regulations.
	h. Availability of training for the purchaser's staff on the use and maintenance of the goods or services, as well as ongoing support.
	i. The ability of the bidder to customize the goods or services to meet specific needs of the purchaser, as well as their flexibility in accommodating changes.
ITB 35.5	Refer to Section III Evaluation and Qualification
	Criteria, for the evaluation methodology.

### SECTION III

### **EVALUATION CRITERIA**

1. The Sri Lanka Air Force (SLAF) reserves the right to evaluate and award a contract or contracts based on the following principles:

a. <u>Price Evaluation</u>. Bids will be evaluated based on the Total Amount, excluding VAT, contingencies, and provisional sums. The lowest bidder will be evaluated after adjusting for arithmetical errors, omissions, and other factors as specified in the Procurement Documents.

#### b. <u>Award Options</u>.

a. Evaluate total extended pricing for all items and award to a single bidder.

b. Evaluate total extended pricing by item, section, or category and award to multiple bidders.

c. Evaluate and make partial or no award of items.

2. **Clarifications**. To assist in the examination, evaluation, and comparison of bids, the Bid Evaluation Committee (BEC) may, at its discretion, request clarifications from bidders. However, no modifications to bid prices, delivery terms, or other key contractual conditions will be permitted.

3. **Preliminary Examination of Bids.** Before conducting a detailed evaluation, the Bid Evaluation Committee (BEC) will determine bid responsiveness based on the following criteria:

Criteria	Yes	No
The bid is complete and does not deviate from the scope.		
Bid bond/security has been furnished as per the requirements.		
Bid bond/security is submitted in the correct format.		
The bid security amount meets the specified percentage/requirement.		
The validity of the bid security matches the bid validity period.		
The bid remains valid for the duration specified in the bidding document.		
All other required forms, schedules, and annexures are included as provided in the		
Bidding Document.		
All pricing is firm, fixed, and valid for the contract duration.		
Clear Breakdown of costs is provided as required by the Bidding Document.		
Any computational errors have been corrected.		
All documents are properly signed by an authorized representative.		
Company stamp/seal is applied where necessary.		
Copies are certified/notarized if required.		
The completion period offered is within the specified limits.		
The bidder has fulfilled the eligibility and qualification requirements as per the		
bidding document.		

The bid does not deviate from basic technical requirements.	
The bid is generally in order.	

### **Reasons for Bid Rejection**

Reason	Yes	No			
The bid is unsigned.					
The bid is delivered via fax/email.					
The bid is received after the deadline (late submission).					
The bid's validity period is shorter than required.					
The bid is missing, invalid, or insufficient					
The bidder refuses correction of arithmetical errors.					
Prices are conditional (e.g., linked to currency fluctuations or stock sales).					
All pricing is not firm, fixed, and valid for the contract duration.					
The bidder requests an advance payment exceeding 30% of the total contract					
value or without a valid Advance Payment Guarantee					
Mandatory pre-bid inspections have not been carried out (per bid conditions).					
Testing charges for samples (by a professional institution) are not deposited.					
Warranty terms (duration, coverage) do not meet requirements.					
Critical deviations from technical specifications or commercial terms.					
Price breakdown is insufficient for comprehensive evaluation as required by the					
Bidding Document.					
The bid lacks brochures, required certifications, technical details, or samples as					
required.					
The bidder fails to meet legal/financial/technical eligibility criteria.					
Eligibility or qualification requirements have not been met.					
The bid is submitted for an incomplete scope of work.					
The bid proposes a completion period beyond limits or deviates critically from					
the requirements.					

4. **Detailed Evaluation.** After passing the preliminary examination, bids will undergo a detailed evaluation based on the following criteria:

CRITERIA	JUDGMENT						
Technical	- Compliance with required technical specifications including						
Evaluation	verification of proof of compliance with test reports/certificates -						
	Scope of supply, delivery, or services Warranty, spare parts						
	availability, and after-sales service requirements.						
	Products/services may undergo testing/certification as specified in						
	Section V (inspection and tests) including from professional local						
	institutions such as SLSI, SLITA, ITI, Moratuwa University, etc.						
Commercial	- Terms of payment Delivery schedule or completion period						
Evaluation	Compliance with duties and taxes.						
Experience & Past	- Experience in the respective field Experience in similar contracts.						
Performance							
Financial	Financial soundness of the bidder.						
Technical and	Technical Expertise and Project Management Strength -						
managerial	Availability of <b>certified/qualified professionals</b> (engineers,						
competence.	technicians, specialists)						

	-Proposed methodologyand management plan.						
	- Avanable resources (equipment & manpower).						
	Quality & Compliance - Technical certifications (ISO, industry-						
	specific standards).						
Additional	- Risk assessment.						
Considerations	- Innovation & sustainability (if applicable).						

5. **Price Evaluation & Adjustments.** Bids will be evaluated based on the Total Amount, excluding VAT, contingencies, and provisional sums. The lowest bidder will be determined after adjustments for the following factors:

a. **Delivery Period**. Bids that propose a delivery schedule exceeding the maximum allowable period (Latest Delivery period) will be deemed non-compliant and rejected. For bids offering delivery beyond the earliest acceptable delivery date, a price adjustment of 1% of the bid price per additional week will be applied.

# Adjusted Price = Total Bid Price × [1 + (0.01 × (Offered Delivery Time – Earliest Delivery Time))]

b. **Credit Period**. A credit facility must be provided. The standard credit period required is 45 days, with a minimum acceptable credit period of 30 days. Bids offering credit terms below 45 days will be subject to an adjustment reflecting the financial cost of the variance, calculated based on the prevailing AWPR (weekly for LKR transactions), SOFR (monthly for USD transactions), and SONIA (daily for GBP transactions) + 3% for administrative cost.

## Adjusted Bid Price = Total Bid Price × [1 + ((AWPR + 0.03) × (45 – Offered Credit Days) / 365)]

AWPR (Sri Lanka Average Weighted Prime Lending) for LKR Rate): <u>https://www.cbsl.gov.lk/en/statistics/economic-indicators/daily-indicators</u>

SOFR (Secured Overnight Financing Rate) for USD Contracts: <u>https://www.newyorkfed.org/markets/reference-rates/sofr</u>

SONIA (Sterling Overnight Index Average) for GBP Contracts: <u>https://www.bankofengland.co.uk/markets/sonia-benchmark</u>

c. **Domestic Preference**: +20% to foreign bids (if applicable).

6. **Award Options.** Depending on the evaluation, SLAF may opt for one of the following award methods:

- a. Award to a single bidder based on total extended pricing.
- b. Award by item, section, or category to multiple bidders.
- c. Partial or no award of certain items.

7. **Domestic Preference.** If applicable, domestic preference will be applied per PG 2024, Section 7.7.1. For comparison, an amount equal to **20% of the bid price** will be added to foreign (Group B) bids when compared with domestic (Group A) bids.

**Domestic Preference Criteria for Locally Manufactured Goods**. The domestic preference provision shall apply exclusively to manufactured goods, with bidders required to demonstrate compliance with all of the following conditions:

a. Local Content Requirement. A minimum of thirty percent (30%) of the EXW (Ex-Works) price must comprise:

- (1) Local labour costs
- (2) Locally sourced raw materials
- (3) Domestically produced components
- b. **Manufacturing Facility Qualification.** The production facility must:
  - (1) Be operational in Sri Lanka
  - (2) Have prior experience manufacturing the offered goods
  - (3) Demonstrate continuous manufacturing capability before the bid invitation date

### c. Legal Registration

(1) The bidder must be duly registered under the Companies Act No. 7 of 2007 (as amended)

#### d. **Documentary Evidence Requirements.** Bidders must submit:

- A notarized affidavit certifying: Minimum 30% local value addition
   Detailed breakdown of the EXW price structure
- (2) Certified audited financial statements: Substantiating the claimed 30% local value addition covering the most recent financial year.
- e. Verification Process. All claims of local content will be subject to:
  - (1) Independent verification by the Procuring Entity
  - (2) Potential audit by authorized government agencies

### f. **Any false declarations will result in**:

- (1) Immediate disqualification
- (2) Potential blacklisting proceedings

**Note:** Domestic preference will only be applied after full verification of all stipulated requirements, and bidders must facilitate the Bid Evaluation Committee's (BEC) verification process by providing access to manufacturing facilities for site visits and submitting all relevant supporting documents, including audited financial statements, procurement records, and payroll documentation. Bidders that fail to meet any of the domestic preference criteria will be reclassified as international suppliers and evaluated without price preference benefits. All verification findings will be formally documented and, upon request, shared with bidders to

ensure transparency. Any false declarations or non-compliance will result in disqualification from the bidding process and may lead to further legal or administrative actions.

8. **Determination of the Lowest Evaluated Substantially Responsive Bid.** After applying all necessary adjustments (e.g., delivery period penalties, domestic preference adjustments, and credit period adjustments), the lowest evaluated substantially responsive bid will be selected.

9. **Post-Qualification Checks.** Before awarding the contract, the selected lowest evaluated bidder will undergo a **final verification process** to confirm compliance with all financial, technical, and contractual requirements. The post-qualification verification will include:

(1) **Financial Capacity Review**: Ensuring the bidder can meet financial obligations considering current work commitments.

(2) **Performance Review**: Examination of past contract performance and compliance history including past SLAF experience with the bidder.

(3) Verification that the bidder meets all necessary legal (litigation, sanctions – as per Form- VI of Section IV), and regulatory including Environmental compliance (if applicable).

(4) **Compliance with Contract Requirements:** Ensuring the bidder's agreement for the following contractual requirements as given in Section VI and Section VII.

S/No	Feature	Whether agreed by the	If deviates the reason
		firm	
1.	Scope of Supply		
2.	Contract Price & Payment		
	Terms		
3.	Quantity & Delivery		
4.	Transportation		
5.	Inspection & Tests		
6.	Rejection & Replacement		
7.	Warranty		
8.	Taxes & Duties		
9.	Signing of Contract		
10.	Performance Security		
11.	Liquidated Damages		
12.	Assumption of Compliance		
13.	Settlement of Disputes		
14.	Termination & Expiry of		
	the Contract		
15.	Severability		
16.	Governing Law		
17.	Joint Venture		
18.	Force Majeure		
19.	Amendments		
20.	Confidentiality		

10. If the lowest evaluated bidder fails post-qualification, the next substantially responsive bid will be considered.

11. **If alternative Bids allowed (Please refer BDS)**. If the lowest evaluated substantially responsive and post-qualified bidder has submitted an alternative bid/offer, the alternative offer will be assessed using the same evaluation process and criteria applied to the original bid. This includes verification of technical details, compliance with bidding requirements (e.g., separate bid security, if applicable), and financial evaluation. The alternative offer will only be considered if its evaluated price is lower than the original bid's evaluated price.

**Important**: The prospective Bidders are advised not to offer more than one alternative for the same item but furnish the most competitive among the options available to the bidder if so wishes. Alternative Bids / Offers made other than one will not be considered.

### PRICE EVALUATION CRITERIA FOR FOREIGN BIDDERS

12. Quotation Breakdown. The price quoted as per price schedule given in Form II(B), Section IV for foreign currency shall be evaluated.

13. **Currency Conversion for Evaluation.** All bid prices quoted in foreign currencies (USD, GBP, EUR) will be converted into Sri Lankan Rupees (LKR) for evaluation purposes. The conversion rate will be the selling rate published by the Central Bank of Sri Lanka, valid 28 days prior to the bid closing date. If the 28th day falls on a public holiday, the rate from the earliest working day prior to that date shall apply. Bidders must acknowledge and accept this currency conversion process as part of their submission.

## Section IV.

## Bidding Forms Table of Forms

- 1. FORM I Bid Submission Form
- 2. FORM II Price Schedule
- 3. FORM III Bid Security (Guarantee)
- 4. FORM IV Manufacturer's Authorization
- 5. FORM V Non-collusion Affidavit
- 6. FORM VI Company Profile

### FORM I - BID SUBMISSION FORM

[Note: the purchaser is required to fill the information marked as "\*" and delete this note prior to selling of the bidding document]

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

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

### No.: AHQ/25/PUB/E/1007

# To: Commander of the Sri Lanka Air Force, Air Force Headquarters, P.O Box 594, Defence Headquarters Complex, Sri Jayewardenepura, Kotte, Sri Lanka

We, the 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];

(b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services Purchase of Qty 01 Brand new Aviation Re- fuel Bowser (10,000Ltrs Capacity)

(c) The total price of our Bid without VAT, including any discounts offered is: [insert the total bid price in words and figures];

(d) The total price of our Bid including VAT, and any discounts offered is: [insert the total bid price in words and figures];

(e) Our bid shall be valid for the period of time specified in ITB Sub-Clause 18.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 23.1, 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 43 and CC Clause 17 for the due performance of the Contract;

(g) We have no conflict of interest in accordance with ITB Sub-Clause 4.3;

(h) Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared blacklisted by the National Procurement Commission;

(k) 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.

(1) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

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

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

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

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

Dated on	day of	<b>Finsert</b>	date	of	sign	ing	1
	uuy or	 Luisert	uute	OI 1	JISH	ms.	

### FORM II (A) - PRICE SCHEDULE – SRI LANKAN RUPEES

Item No	Item Description	Den of Qty	Qt y	Unit Price without VAT	VAT Rs	Total Price with VAT Rs	Total Price with VAT Rs	Brand Name	Countr y of Manuf a cture	Warra nty	Bidder's Remarks (Different Pack Size / Description , Part No, Model No, Colour, Item Discount % etc)
1.	Aviation Refuelling Bowser (10,000 Ltr)	Ea	01								
Total I	Rs										
Discounts Rs											
Total I	Total Price after Discount Rs										
*The Prices shall be inclusive of Transport Charges including unloading at the											
given d	given delivery location (i.e Supply & Maintenance Depot SLAF Base Katunayake)										

VAT REGISTRATION LETTER (applicable for VAT payees)	YES / NO	VAT REGISTRATION NUMBER :
VAT EXCEPTION LETTER ATTACHED (applicable for non VAT payees)	YES /	ΝΟ
VAT LETTER AS AN ACTIVE VAT PAYEE ATTACHED	YES /	NO
VALIDITY OF BID		
VALUE OF BID SECURITY		
VALIDITY OF BID SECURITY		
<b>BID SECURITY NO</b>		
<b>BID SECURITY OBTAINED FROM</b>		
# FORM II (B) - PRICE SCHEDULE – FOREIGN CURRENCY

Item No	Item Description	Den of Qty	Qt y	FOB Cost	Freight	Insurance	Total Price	Brand Name	Country of Manufa cture	Warrant y	Bidder's Remarks (Different Pack Size / Description ,
											No, Colour, Item Discount % etc)
	Aviation Refuelling Bowser (10,000 Ltr)	Ea	01								
1.											
CIP/CIF											
Discou	nts			1		1					
Total I	Price after Discount										
All rela	ated costs to deliver th	e goods vo of	s to								
duties, transp VAT	their final destination inclusive of duties, sales and other taxes inland transportation, insurance, Excluding VAT										
*The F given a	*The Prices shall be inclusive of Transport Charges including unloading at the given delivery location (i.e. Supply & Maintenance Depot SLAF Base Katunayake)										

VAT REGISTRATION LETTER (applicable for VAT payees)	YES / NO	VAT REGISTRATION NUMBER :
VAT EXCEPTION LETTER ATTACHED (applicable for non VAT payees)	YES /	NO
VAT LETTER AS AN ACTIVE VAT PAYEE ATTACHED	YES /	ΝΟ
VALIDITY OF BID		
VALUE OF BID SECURITY		
VALIDITY OF BID SECURITY		
<b>BID SECURITY NO</b>		
<b>BID SECURITY OBTAINED FROM</b>		

## IMPORTANT

\* Each page of the price schedule shall be authenticated by the bidder.

\* The bidder shall ensure that all the details provided herein are 100% accurate.

\* It is mandatory that the unit price of the article or service be inclusive of NBT Tax, if applicable. Based on that, VAT shall be indicated on the price which includes NBT.

\* Manufacturing details of the goods and warranty details shall be provided in a separate list prepared by the bidder as applicable.

## ADDRESS AND CONTACT DETAILS OF THE BIDDER:

Name & Address:

**Company Name:** ..... **Registered Address.** ..... **Contact Person** Name. Phone Email 1..... ..... ..... 2..... 

Date .....

Signature of Bidder .....

## FORM III - BID SECURITY (GUARANTEE)

[This bank Guarantee form shall be filled in accordance with the instructions indicated in brackets]

----- [Insert issuing agency's name and address of issuing branch or office]

Beneficiary: Commander of the Sri Lanka Air Force, Air Force Headquarters, P.O Box 594, Defence Headquarters Complex, Sri Jayewardenepura, Kotte, Sri Lanka

Date: ----- [Insert (by issuing agency) date]

BID GUARANTEE No.: ----- [Insert (issuing agency) number]

13. We have been informed that ------ [Insert (issuing agency) name of the bidder; if a Joint Venture, list complete legal names of partners] (hereinafter called "the bidder") has submitted to you its bid dated ------ [Insert (issuing agency) date] (hereinafter called "the bid") for Purchase of Qty 01 Brand new Aviation Re- fuel Bowser (10,000Ltrs Capacity) for SLAF requirement under invitation for bids No. **AHQ/25/PUB/E/1007** ("the IFB").

Furthermore, we understand that, according to tour conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we ------ [Insert name of issuing agency] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of **LKR 1,200,000.00** [Insert amount in words] upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder.

(a) has withdrawn its Bid during the period of bid validity specified; or

(b) does not accept the correction of errors in accordance with the instructions to Bidders (herein after "the ITB") of the IFB; or

(c) having been notified of the acceptance of its Bid by the Employer/Purchaser during the period of bid validity,

(i) fails or refuses to execute the contract form, if required, or

(ii) fails or refuses to furnish the Performance Security, in accordance with the ITB. This Guarantee shall expire:

(a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or

(b) if the Bidder is not the successful bidder, upon the earlier of

(i) our receipt of a copy of your notification to the Bidder that the Bidder was unsuccessful, otherwise it will remain in force up to ------ (Insert date)

Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date ------.

[signature(s) authorized representative(s)]

## Notes:

Bank Guarantees issued by any of the following Banks/Institutions are acceptable;

(a) A local commercial bank approved by the Central Bank of Sri Lanka, which is operating in Sri Lanka;

(b) A foreign commercial bank operating in Sri Lanka, which is approved by the Central Bank of Sri Lanka;

(c) A foreign bank operating outside of Sri Lanka, provided that the relevant Bank Guarantee is confirmed by a local or foreign bank operating in Sri Lanka, which is approved by the Central Bank; and

Note: The requirement of confirmation referred to above is not necessary, if the entity that issues the guarantee is an Export Import Bank (EXIM Bank), Export Credit Agency of any foreign Government or a reputed international financier acceptable to the Central Bank of Sri Lanka if proof concerning such approval is available.

## ADVANACE PAYMENT GUARANTEE FORMAT

[Name and address of Agency, and Address of issuing Branch or Office]

# Beneficiary: Commander of the Sri Lanka Air Force, Air Force Headquarters, P.O Box 594,

Date: -----

ADVANCE PAYMENT GUARANTEE No.: ------

We have been informed that ------ [name of contractor / supplier/hereinafter called "the Contractor"] has entered into to contract No. ------ [reference number of the contract] dated ------- [reference number of the contract] mane of contract and brief description] (hereinafter called "the Contract").

The maximum amount of this guarantee shall be progressively reduced by the amount of the **advance** payment recovered from the contractor or repaid by the Contractor.

This guarantee shall expire, Insert the date, 28 days beyond the expected expiration date (completion date) of the Contract.

Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

<sup>1</sup>The guarantor shall insert an amount representing the amount of the **advance** payment and denominated either in the currency/currencies) of the **advance** payment as specified in the contract.

## Note:

An unconditional on demand advance payment guarantee issued in the format given above by the following agencies are accepted. Advance payment guarantee shall be furnished including the correct amount, validity and payable upon the receipt of the first demand in writing without critical deviations to the format given in this Procurement Manual.

(a) A commercial bank operating in Sri Lanka approved by the Central Bank of Sri Lanka;

(b) A bank based in another country, backed by a commercial bank operating in Sri Lanka and approved by the Central Bank of Sri Lanka;

(c) Unconditional, on demand advance payment guarantee issued by the Construction Guarantee Fund;

Maximum amount that can be released as an advance payment is 30% of the total contract value.

## FORM IV - MANUFACTURER'S AUTHORIZATION

[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. The Bidder shall include it in its bid, if so indicated in the BDS.]

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

No.: AHQ/25/PUB/E/1007

# To: Commander of the Sri Lanka Air Force, Air Force Headquarters, P.O Box 594, Defence Headquarters Complex, Sri Jayewardenepura, Kotte, Sri Lanka

## 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 27 of the 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]	-	

## FORM V - NON-COLLUSION AFFIDAVIT (TEMPLATE)

The undersigned bidder or agent, hereby solemnly, sincerely, and truly declares and affirms/makes an oath and states as follows;

a) That he/she has not, nor has any other member, representative, or agent of the firm, company, corporation, or partnership representing him/her, entered into any combination, collusion, or similar agreement with any person in connection with the price to be bid;

b) That he/she or anyone representing him/her has not taken any step whatsoever to prevent any person from bidding, nor to induce anyone to refrain from bidding; and

c) That this bid is made without reference to any other bid and without any agreement, understanding, or combination with any other person in reference to this bid.

He/she further states that no person, firm, or corporation has received or will receive, directly or indirectly, any rebate, fee, gift, commission, or thing of value in connection with the submission of this bid.

The bidder accepts full responsibility for ensuring the absence of collusion and hereby pledges to abide by fair and ethical competition practices throughout the procurement process and fully comply with the applicable Procurement Guidelines.

I hereby affirm, under the penalties for perjury, that all statements made by me in this affidavit are true and correct.

The foregoing Affidavit having been duly read over and explained by me to the Affirmant above named and he/she having understood the contents therein and admitted to be correct, affirmed and set his/her signature hereto before me) on this .... day of ... at ...

## BEFORE ME,

JUSTICE OF THE PEACE/COMMISSIONER OF OATHS

## FORM VI - COMPANY DETAILS

1.	COMPANY DETAILS					
	Name of the Company					
	Tunie of the Company					
	Address					
	PV Number/ Company Registration Number					
	T v Rumber/ Company Registration Rumber					
	Date of Registration:					
	Dut of Registration.					
2	VAT					
2.	VAT Registration Number					
3	POINT OF CONTACT					
<u> </u>	Contact name for anguiries about this submission:					
	Contact name for enquiries about this submission.					
	Contact position (Job Title)					
	Contact position (Job Title)					
	Address					
	Tel number:					
	For number					
	rax number:					
	E-mail address:					
4.	OTHER DETAILS					
Does an	ny of the following apply to your organisation, or to (any of) the director(s	) / partners / proprietor				
(s)?						
Is in a	state of bankruptcy, insolvency, compulsory winding up, receivership or					
subject to relevant proceedings:						
conduc	t.					
Has committed an act of grave misconduct in the course of business						
Has no	Has not fulfilled obligations related to payment of taxes					
Is guilt	y of serious misrepresentation in supplying information					
Is not i	n possession of relevant licences or membership of an appropriate					
organis	sation where required by law					
Wheth	er from a country sanction under UN?					
If the a	nswer to any of these is "Yes" please give brief details, including what has	s been done to put things				
right.						

# Section V. **Schedule of Requirements**

## Contents

- Delivery Schedule 1.
- Eligibility and Qualification Requirements Technical Specifications 2.
- 3.
- Drawings 4.
- Inspections and Tests 5.

## 1. <u>DELIVERY SCHEDULE</u>

Earliest Delivery Period	Latest Delivery Period	Bidders offered Delivery Date		
10 Months	11 Months			
Delivery Destination:	Supply and Maintenance Depot, Sri Lanka Air Force Base Katunayake	Agreed	Not Agreed	

The Bidder must indicate whether he **agreed** to deliver the goods to **the SLAF Base Katunayake** within the maximum allowable period. In other words, deliveries beyond the latest delivery period will be rejected.

## **Instructions**:

- 1. Cross out (X) either "Agreed" or "Not Agreed" to confirm compliance.
- 2. Fill in the proposed delivery date within the range above.

## DETAILED EXPLANATION OF DELIVERY PERIOD CLAUSE

## **Key Definitions**

## 1. Latest Delivery Period.

- a. Absolute deadline set by the SLAF for delivery/completion.
- b. Bids exceeding this period **automatically rejected**.

## 2. Earliest Acceptable Delivery Period.

- a. SLAF's preferred timeline for delivery/completion.
- b. Bids meeting this date gain a competitive advantage.

## 3. Compliance Rules.

a. **Non-negotiable rejection.** Proposals exceeding the maximum allowable period (Latest Delivery Period) will be disqualified.

b. Adjustment for delays beyond earliest date. A 1% cost will be added to the total bid price per additional week beyond the earliest delivery period.

## 2. <u>ELIGIBILITY AND QUALIFICATION REQUIREMENTS FOR</u> <u>BIDDERS</u>

1. **General Eligibility Criteria**. Bidders must meet the following requirements to participate in the bidding process:

a. Legal Status: Must be a legally registered entity (or natural person, where applicable) with valid documentation.

b. Financial Standing: Must demonstrate financial stability and capability to perform the contract.

c. Experience: Must have relevant experience in similar contracts (minimum years/scope to be specified based on the procurement nature).

d. Technical Capacity: Must possess the necessary technical expertise, equipment, and personnel to execute the contract.

e. Compliance with Laws: Must not be debarred, blacklisted, or under sanctions (as per Section 10.4 of the Procurement Guidelines).

2. <u>Ineligible Bidders</u>. A bidder shall be disqualified if:

a. They are debarred or blacklisted by the Procuring Entity (PE) or any relevant authority.

b. They have provided consulting services for the same contract (conflict of interest).

c. In case of Joint Ventures (JV):

d. No JV partner can submit more than one bid (individually or collectively).

e. They are from a country under UN sanctions (for natural persons: nationality; for legal entities: country of incorporation).

## 3. **Qualification Assessment**.

a. After passing the preliminary examination, bids will undergo a detailed evaluation based on the following criteria:

CRITERIA	JUDGMENT				
Technical	- Compliance with required technical specifications including				
Evaluation	verification of proof of compliance with test reports/certificates -				
	Scope of supply, delivery, or services Warranty, spare parts				
	availability, and after-sales service requirements.				
	Products/services may undergo testing/certification by designated				
	institutions (e.g., SLSI, SLITA, ITI, Moratuwa University) if				
	specified in Section V.				

Commercial	- Terms of payment Delivery schedule or completion period			
Evaluation	Compliance with duties and taxes.			
<b>Experience &amp; Past</b>	- Experience in the respective field Experience in similar contracts.			
Performance				
Financial	Financial soundness of the bidder.			
Technical and	Technical Expertise and Project Management Strength -			
managerial	Availability of <b>certified/qualified professionals</b> (engineers,			
competence.	technicians, specialists)			
	-Proposed methodologyand management plan.			
	- Available resources (equipment & manpower).			
	Quality & Compliance - Technical certifications (ISO, industry-			
	specific standards).			
Additional	- Risk assessment.			
Considerations	- Innovation & sustainability (if applicable).			

b. Before awarding the contract, the selected lowest evaluated bidder will undergo a **final verification process** to confirm compliance with all financial, technical, and contractual requirements. The post-qualification verification will include:

(1) **Financial Capacity Review**: Ensuring the bidder can meet financial obligations considering current work commitments.

(2) **Performance Review**: Examination of past contract performance and compliance history including past SLAF experience with the bidder.

(3) Verification that the bidder meets all necessary legal (litigation, sanctions - please provide the details required by Form- VI of Section IV), and regulatory including Environmental compliance (if applicable).

(4) **Compliance with Contract Requirements:** Ensuring the bidder's agreement for the following contractual requirements as given in Section VI and Section VII.

S/No	Feature	Whether agreed by the	If deviates the reason
		firm	
21.	Scope of Supply		
22.	Contract Price & Payment		
	Terms		
23.	Quantity & Delivery		
24.	Transportation		
25.	Inspection & Tests		
26.	Rejection & Replacement		
27.	Warranty		
28.	Taxes & Duties		
29.	Signing of Contract		
30.	Performance Security		
31.	Liquidated Damages		
32.	Assumption of Compliance		

33.	Settlement of Disputes	
34.	Termination & Expiry of	
	the Contract	
35.	Severability	
36.	Governing Law	
37.	Joint Venture	
38.	Force Majeure	
39.	Amendments	
40.	Confidentiality	

## 4. **Documentation Required**. Bidders must submit:

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- a. Proof of legal registration (business license, tax certificates).
- b. Audited financial statements (last 3 years, if applicable).
- c. Experience records (similar projects completed).
- d. Declaration of non-debarment and compliance with sanctions.

#### SPECIFICATION OF 10,000 LITRES CAPACITY AIRCRAFT REFUELLER

This specification covers requirements for Construction of a 10,000 Litres Capacity, Aircraft Refueller on Diesel Powered suitable Chassis, capable of Fuelling Jet Aircraft Under-Wing at Flow Rates up to 1000 litres/min. with a suction defueling capability up to 400 litres/minute from reel hose and, minimum 200 litres/minute from Over-Wing Refuelling facility.

The basic vehicle shall be with the, Hose Reels, Pumping, Metering, Filtration Equipment and Operation Panel located between the drivers cab and the tank.

#### 1.1 General

This specification sets out the requirements for the design, construction and testing of the Aircraft Refuellers. The vehicle is intended for use on public roads and airside areas at the speed of 72 km/h. It is intended for general transportation and delivery on public highways.

The dimensions and other requirements set forth by Motor Traffic Department, Sri Lanka (Motor Traffic Act chapter. 203) are listed below for reference. The Aircraft Refuellers offered shall comply with said requirements.

(1) The dimensions of any motor vehicle must not exceed the dimensions specified hereunder for motor vehicles of the class or description to which the motor vehicle belongs:-

Length, width and Height	Millimetres
Overall width of motor vehicle,	2,500
Height of motor vehicle (other than a double decked	3,800
motor coach)	
Height of a double decked motor coach	4,600
Overall length of motor vehicle with two axles other than	10,000
a motor coach	
Overall length of motor vehicle with more than two axles	11,000
Overall length of an articulated vehicle	14,000

	Overall length of motor coach	10,700
	Overall length of a combination vehicle with one trailer	17,000
(2)	GROSS VEHICLE WEIGHT	Kgs
	(a). No motor vehicle with a 4 wheeled rear axle	15,275
	Shall exceed	
	(b). No motor vehicle with an wheeled dual rear	20,000
	Axle shall exceed	
	(c). No articulated or combination vehicle with a 4	21,000
	Wheeled rear axle for driving unit and a 4 wheeled	
	Axle for trailer shall exceed	
	(d). No articulated or combination vehicle having a lesser	16,500
	Number of wheels than (c) above shall exceed	
	(e). No articulated or combination vehicle with two	27,500
	Wheeled front axle and 4 wheeled rear axle driving unit	
	And dual axle 8 wheeled trailers shall exceed	
	(f). No articulated or combination vehicle with 2 wheeled	30,500
	Front axles and 8 wheeled dual rear axle for driving unit	
	And 8 wheeled dual axle trailers shall exceed	

1.1 (a) The overhang of any motor vehicle other than an articulated vehicle must not exceed 60 per centum of the distance between the plane perpendiculars to the longitudinal axle of the vehicle which passes through the centre of centres of the front wheel or wheels and the rearmost vertical plane from which the overhang is to be measured as defined in regulation 57:

Provided that the preceding provisions of this regulations shall not apply to a motor vehicle designed for use and used buy or on behalf of a local authority solely in connection with the clearing of streets, the collection of disposal of refuse or the collection of disposal of the contents of gullied or cesspool.

- 1.1. (b). A vehicle designed so that it can dispose of its load by tripping to the rear shall in addition to the requirements of 2(1)(a) have a distance not exceeding one thousand one hundred and fifty millimetres, between the vertical passing through the axis on which the load is pivoted and the second plane described in the definition of wheel base in Regulation 57.
- (2). the overhang of an articulated vehicle must not exceed that specified for any motor vehicle in paragraph (1) of this Regulation or 1,850 millimetres whichever is less.

## 1.1.1 Standards and specifications

The following shall be the applicable standards for the respective equipment.

Int'l /Euro/	British	USA	Subject
German			(not necessary the full and proper title
DIN ISO 1185	BS AU 197	SAE J 560b	Electrical connections, 24V type 24N
			normal - 7 contact
DIN ISO 3731	BS AU 198		Electrical connections, 24V type 24S
			Supplementary -7 contact
DIN ISO 4009	BS AU 195a		Mounting of electrical connections on the rear cross members
DIN ISO 4141		SAE J1067	Seven conductor jacketed cable for truck/trailer connections
German GGVS			Electrical connection for vehicles, 13 contact
ISO 7638			Brake anti - lock device connector - truck to trailer
DIN ISO 1728		SAE J318	Pneumatic braking connections - Palm/Glad-hand type
	BS AU 138a		Contact type brake couplings
ISO 1728	BS AU 138a		Location of brake couplings on rear cross members
ISO 1102	BS AU 220		Dimensions of 50 mm drawbar couplings
ISO 3584	BS AU 166		Mounting of drawbar couplings on rear cross members
		SAE J697	Safety chain for full trailers or converter dollies
DIN ISO 7706	BS AU 215		Power take off's (PTO's) - Clearance envelope

## TABLE 1: APPLICABLE STANDARDS

DIN ISO 7653	BS AU 203a		Dimensions of couplings between PTO's and ancillary units
ISO – various	BS AU 50		Vehicle tyres, loads, rims, wheels
ISO 2882/3	BS 2050		Elect. resistance-conductive/anti static products/inc. tyres
ISO 45	BS 3C 14	MS 24484	Adapter, Pressure Fuel Servicing, nominal 2.5 inch diameter
		MIL.A 25896	Adapter, Fuel, 2.5 inch diameter-includes strength tests.
Int'l /Euro/	British	USA	Subject
German			(not necessary the full and proper title)
		API RP 1004	Tank Vehicle Bottom loading and Unloading-4 inch
			Adapters
ISO 102	BS 2C 13	SAE AS 1852	Gravity/over-wing fuelling nozzles and ports
		API 1542	Airport Equipment Marking for Fuel Identification
		EI 1581	Aviation Filter Water Separators
EN/ISO 1825	BS 3158	EI 1529	Aviation fuelling hose and hose assemblies
VG 85 328			Hose couplings with clamps
VG 95 950			Hose couplings with Whitworth pipe threads (BSPP)
ECE/TRANS /110			European Agreement concerning the international carriage of dangerous goods
DG EN 10210			
5:2005			refuellers, Dispensers etc.
		NFPA 30	Flammable and Combustible Liquids Code/vent requirements
		NFPA 385	Tank Vehicles for Flammable and Combustible Liquids.
		NFPA 407	Aircraft Fuel Servicing

	BS 476		Fire tests - pt. 7 flame spread classification pts. 12/13 ignitability
	BS 5958		Control of undesirable static electricity
	BS EN ISO 4126-2:2019	ASME.VIII UG131	Vapour flow calculations - BS EN ISO 4126-2:2019 specific to Bursting discs.
		Mil.F. 38363	US Mil. Spec- Aircraft fuel systems, general
		SAE.AS 1484A	Test procedure/limits of surge pressure - fuel dispensing system.
		Various SAE-AE-5C Documents In Preparation	Surge pressure generation and measurements
			Glossary of terms – Aircraft fuelling
			Commercial nozzle specification
	-		Guidelines for procurement of fuelling vehicles Adapter wear limits.
Int'l /Euro/	British	USA	Subject
Int'l /Euro/ German	British	USA	Subject (not necessary the full and proper title)
Int'l /Euro/ German DIN 28459	British	USA E	Subject(not necessary the full and proper title)Flanges for 'Tank wagon'- connecting flanges
Int'l /Euro/ German DIN 28459 DIN 28460	British	n TTMA and NTT specs	Subject(not necessary the full and proper title)Flanges for 'Tank wagon'- connecting flangesFlanges for 'Tank wagon' - welded, for aluminium pipe
Int'l /Euro/ German DIN 28459 DIN 28460 DIN 28461	British	Similar in TTMA and NTT specs	Subject(not necessary the full and proper title)Flanges for 'Tank wagon'- connecting flangesFlanges for 'Tank wagon' - welded, for aluminium pipeFlanges for 'Tank wagon' - welded, for steel pipe
Int'l /Euro/ German           DIN 28459           DIN 28460           DIN 28461           DIN 28462	British	<b>NSV</b> Similar in TTMA and NTT specs	Subject(not necessary the full and proper title)Flanges for 'Tank wagon'- connecting flangesFlanges for 'Tank wagon' - welded, for aluminium pipeFlanges for 'Tank wagon' - welded, for steel pipe
Int'l /Euro/         German         DIN 28459         DIN 28460         DIN 28461         DIN 28462         DIN 28463	British	Similar in TTMA and NTT specs	Subject(not necessary the full and proper title)Flanges for 'Tank wagon'- connecting flangesFlanges for 'Tank wagon' - welded, for aluminium pipeFlanges for 'Tank wagon' - welded, for steel pipeFlanges for 'Tank wagon' - welded flanges for 'Tank wagon' - threaded flanges for couplingsFlanges for 'Tank wagon' - gaskets
Int'l /Euro/         German         DIN 28459         DIN 28460         DIN 28461         DIN 28462         DIN 28463	British	USA LLU PURCES Specs Specs ANSI B.16.5	Subject(not necessary the full and proper title)Flanges for 'Tank wagon'- connecting flangesFlanges for 'Tank wagon' - welded, for aluminium pipeFlanges for 'Tank wagon' - welded, for steel pipeFlanges for 'Tank wagon' - gasketsSteel pipe flanges and fittings

DIN ISO	BS 2779	JIS B0202	Pipe threads- tubes and fittings-		
220/1		рп	Tastening/non thread sear type		
DIN 2999, ISO.7/1	BS.21	JIS.B0203 tpr	Pipe threads - tubes and fittings - thread seal type / tapered		
	BS 4677		Arc welding of austenitic stainless steel pipe		
BS EN	BS 1470/1/		Aluminium and aluminium alloys, tube,		
485/515/573	2/3/4/5		lorging, sneet, plate		
	BS 6363		Welded cold formed steel structural hollow section		
	BS EN 1570:1998+ A2:2009		Code of Practice for scissor lifts		
ISO 18893:2014	BS EN 280:2001+A 2:2009		Mobile elevating work platform		
	BS 5395		Stairs, ladders and walkways		
	BS 4592 pt.1		Open bar/mesh gratings and panels		
	BS.4592 pt.2		Expanded metal gratings and panels		
BS EN ISO 8503	BS 7079		Preparation of steel substrates before application		
ISO 8502/4			of paint -Blast cleaning etc.		
ISO 11124/5/6/7					
	BS 308 series		Engineering drawing		
IEC 617-4	BS 3939		Graphic symbols and diagrams for electrical power circuits		
Int'l /Euro/	British	USA	Subject		
German			(not necessary the full and proper title		
BS EN 60598	BS 4533		Luminaries		
IEC 598					
	BS 5308		Instrumentation cables		
	BS 6862 Pt.1		Cables with copper conductors for vehicles		

	BS 2950		Cartridge fuse links for telecom's and light electrical apparatus.
	IP/Electrical		Electrical Safety Code. pt.1 of the Model Code of Safe Practice
IEC 529	BS 5490(obs)		Classification of degrees of protection provided by enclosures
BS EN 60947			Degrees of protection of enclosures/low
IEC 144			voltage switch gear and control gear
	BS 5435		Selection, installation and maintenance
			of electrical apparatus for use in potentially explosive atmospheres
DIN EN 50	BS 5501	USA UL698	Electrical apparatus for potentially
Osrs IEC 79 series	Series		explosive atmospheres
VDE			
0170series			
IEC 79-15	BS 6941		Specification for electrical apparatus for explosive atmospheres with type of protection N (Zone 2)
IEC 34 Pt.5	BS 4999		Rotating electric machines
EN 60 034 Pt5	BS 5000		
ISO 4148		SAE J1318	Flashing beacons- *Also EEC
ECE 65 / *			(Electro-magnetic compatibility)
*		SAE J994	Audible alarms - *Also EEC Directive 91/368-supply of Machinery (safety) Regulations, clauses 3.2.1 and 3.6.1

## **1.2** Specification for Chassis of Aircraft Refueller

## **1.2.1.** General requirements

- 1.2.1.1 The vehicle chassis must be capable of carrying, when fully laden, a full refueller tank a capacity of 10,000 litres of Jet A-1 and the Refuelling station with all the equipment.
- 1.2.1.2 Refuelling module frame shall be mounted on the vehicle chassis by using the nuts & bolts and shall not be welded enabling easily removal from the vehicle chassis. The frame of the refuelling module has to be composed of set of open frame elements structures; box steel elements

are not allowed. Further, components in the refuelling module shall be installed with nut & Bolts as far as possible enabling easy replacement i.e. in case of accident repair.

1.2.1.3 The chassis shall be purchased by the aircraft refueller manufacturer and it shall be equipped with following typical requirements as appropriate.

Model	4x2 (4 wheeled rear axles) day cab with rear windows, right hand drive, ADR compliance or double poled wired, air-conditioned.
GVW	Shall be capable of carrying the capacity of 10,000 Litres of JET A-1
Engine	4 strokes, direct injection, naturally aspirated/ turbocharged, water cooled, diesel engine.(refer fuel specification given below), minimum 320 hp at rated rpm
Turning circle diameter	21 meters - minimum possible.
Ground clearance	210 mm minimum
Gear box	Six speeds standard, with PTO, manual, fully synchronised.
Axle	Total axle loading capacity shall be more than the GVW.
Wheel base	Suitable wheel base shall be selected to install the tank and the refuelling module on the chassis to meet the specified government regulation clause 3.1.

## TABLE 2: BASIC FEATURES

## Specification of Diesel Fuel available in Sri Lanka

## LANKA SUPER DIESEL OIL (P – 016)

Property/Test	Test Method		Specifications
	IP	ASTM-D	
Appearance			Clear and visually free from water and impurities
Density @ 15° C kg/m <sup>3</sup>	160	1298, 4052	820 - 860
Colour ASTM	196	1500	Report
Marketing Colour			Amber

DISTILLATION			
IBP °C	123	86	
	125	00	
			Report
10% Vol. Evaporated at ° C			Report
50% Vol. Evaporated at ° C			Report
90% Vol. Evaporated at ° C			Max. 370 (with effect from 01.01.2004)
Recovery at 315° C			Min 50%
Recovery at 350° C			Min 80%
Cetane Index		976	Min. 46 (see note-1 below)
Cetane No.	21	613	Min. 49
Cloud Point, ° C (° F )		2500	Max. 15.5 (Max. 60)
CFPP ° C (° F )	309		Max. 10 (Max. 50)
Sulphur Content % w/w		4294, 2622	Max. 0.25 (with effect from 01.07.2003)
			Max. 0.05 (with effect from 01.01.2004)
Flash Point PM CC, ° C (° F)	34	93	Min 60 (Min. 140)
Viscosity Kin @ 37.8° C, cSt	71	445	1.5 – 5.0
Water content % (v/v)	74	95	Max. 0.05
Cu Strip corrosion 3 hrs. @ 50° C	154	130	Max. 1
Ash % (w/w)	4	482	Max. 0.02
Carbon Residue, Ramsbottom On 10% residue % w/w	14	524	Max. 0.3
Water content % v/v	74	95	Max. 0.05%
Sediment by extraction % w/w	53	473	Max. 0.01
Total Acid No. KOH mg/g	1	974	Max 0.2
Strong Acid No. KOH mg/g	1	974	Nil
Calorific Value Gross, Kcal/kg.	12	240	Min 10,500

The bidder shall confirm that the engine of the Aircraft Refueller offered complies with the fuel specification aforesaid.

1.2.1.4 The confirmation shall be obtained by Aircraft Re-fueller manufacturer from Chassis manufacturer that all the required optional fitments have been included correctly before supplying the chassis. A repeat check shall be performed by the Aircraft re-fueller manufacturer when the Chassis is received at his works.

## 1.2.2 Weight, Distribution, Stability of the Chassis

- 1.2.2.1 The GCW of the vehicle shall be capable for the payload capacity of 10,000 Litres & dead stock of JET A-1and weight of re-fueller tank and there fuelling module.
- 1.2.2.2 The height of centre of gravity of the fully loaded vehicle shall not be greater than 95% of the distance between the outer ground contact/track widths of the tyres.

## **1.2.3** Performance - Speed, Power, Tractive Effort and vehicle movement

- 1.2.3.1 For normal Aircraft refuelling services, the refueller is intended to travel up to the maximum speed of 30 km/h within the airfield. However this Aircraft refueller is intended to be used at public highways (Movement between Airports) at the speed of 72 km/h. This will be comprised of many 'cold starts, very short journeys, mostly static engine operations and tight turns over level / coarse concrete surfaces.
- 1.2.3.2 When considering chassis selection, it must be ensured that the maximum torque applied by the PTO gear unit output drive shaft to the pump does not exceed the rated capacity of the fuel pump gear box. (Hydraulic pump gear box for hydraulically driven fuel pump)

## **1.3.** Chassis – Features & requirements

## **1.3.1.** Engine / Mechanical

## **Basic Chassis Features**

1.3.1.1The diesel engine is to be sized to meet performance requirements in marginal<br/>1.2.1.3 and shall develop a minimum of 320 hp at rated rpm.

The engine exhaust manifold, radiator and thermostat shall be suitable for stationary engine operations in tropical climates, driving a P.T.O pump and auxiliary power unit. A standard electric starter and air compressor shall be fitted.

- 1.3.1.2 The transmission and any modifications must be suitable for the service specified via a manual gearbox.
- 1.3.1.3 Electrical current is to be supplied by a heavy duty alternator and rectifier to heavy duty/high capacity batteries, suitable for the tropical climate. Selection shall take into account that although the engine will be kept running during fuelling, overall journey times will be short.
- 1.3.1.4 The cab shall be full forward with forward tilting.
- 1.3.1.5 Leaf springs selected for the chassis must be suitable for the applied loads.

- 1.3.1.6 Power steering with a reasonable degree of 'feel' shall be fitted.
- 1.3.1.7 The wheel base of the chassis shall be selected so that the tank and equipment can be arranged without exceeding the permitted load for front and rear axles, so that the chassis frame remains substantially horizontal, and so that the tank minimum bottom is maintained whatever the load.
- 1.3.1.8 The vehicle shall be fitted with fully air operated pneumatic type brakes. The system shall be of failsafe dual circuit arrangement with independent lines for front and rear brakes where one line will continue to be operative in the event of the failure of other.
- 1.3.1.9 Electrical requirements are described separately in item 3.3.2. When possible, it is better that equipment normally fitted by the chassis manufacturer is suitable and retained for further use. However, the aircraft refueller manufacturer will need to carry out other modifications.
- 1.3.1.10 Dual large rectangular rear view mirrors are required (convex type) extended as necessary to provide a clear / unobstructed view along the side of the vehicle / tank, even in the maximum turning position. In addition, there shall be a mirror on the passenger side, positioned so that the driver can see to ground level beneath the door and front of the cab.
- 1.3.1.11 No cigar lighter or ash tray is to be fitted. However, if the is normally provided with a cigar lighter socket, then the electrical supply shall be disconnected and insulated.
- 1.3.1.12 adequate ventilation is required for use in hot climates. Cab heater and air conditioning is to be fitted.
- 1.3.1.13 Front and rear directional signals, normal hazard flasher warning, reverse and brake lighting are required.
- 1.3.1.14 In addition to normal panel / dashboard instruments, an engine revolution counter and low air pressure indicator are required.
- 1.3.1.15 To prevent fuel or fuel vapour from contacting hot parts of the engine or exhaust , a metal fire screen is to be fitted, extending from the back of the cab, over most of its width, to the top of the chassis and below on each side to 400 mm above ground level. To allow the cab to tilt forward, the fire screen shall be in two parts. One section attached to the back of the cab extending almost the whole of its width, and this overlaps, by 50 mm minimum, measured as a vertical dimension, another section attached to the chassis frame.

The gap between the two parts shall be as small as practicable but in any case not more than  $\frac{1}{4}$  of the vertical overlap.

As necessary additional screening shall be attached to the front wheel mud flaps or the side of the chassis / prime mover frame to the screen exhaust pipes.

- 1.3.1.16 If windows do exist in the rear cab wall, preferably they shall be removed and replaced with metal panels.
- 1.3.1.17 A robust channel bumper shall be fitted at the rear of the aircraft refueller.

- 1.3.1.18 A system must be provided to stop the engine from both the pumping control station and opposite side of the pumping control station (left side of the chassis) and the Controls shall be the push button/lock off type, requiring a special action to reset them.
- 1.3.1.19 Rear mudguards and mud flaps shall be provided.

## **1.3.2** Electrical requirements

## Standards and specifications

1.3.2.1. All electrical requirements shall comply with particular BS, EN, IEC standards & ADR requirements.

## Miscellaneous items

- 1.3.2.2. Lighting (with glass lenses) is required to illuminate the meter counters and all gauges and controls and VCFS at the operating station and access ladders to the tank top. These lamps may be controlled either locally, from the vehicle cab, or near the operating station by a separate switch.
- 1.3.2.3 Aircraft / obstruction / marker warning lights shall be fitted, 2 at the front of the cab, 2 at rear of tank. These shall be in amber colour. A large flashing beacon is required, centrally placed on top of the cab roof.
- 1.3.2.4 Where applicable, all electrical connections shall be fitted with heat shrink insulation sleeves, and well fitted boots as a minimum standard.
- 1.3.2.5 All cables and electrical connections to be labelled and colour coded

(With matching details in the operating / maintenance manual).

- 1.3.2.6 Any modifications or repairs to electrical circuits or equipment on vehicles shall be to recognised manufacturer's standards or equivalent.
- 1.3.2.7 As a reversing aid, buzzer or voice type to warn other personnel when reverse gear is selected shall be provided.

## **General Design**

The electrical system shall be designed and installed to minimise the risk of sparking and electrical fires.

1.3.2.8 There shall be electrical continuity between the chassis, tanks and sub frames, fuelling cabinet and all fuelling components. Electrical resistance shall not exceed 10 ohms.

The tank shall be bonded to the chassis by means of a substantial braided copper strap.

1.3.2.9 The nominal system voltage on the circuit shall not exceed 24 volts and the equipment shall be suitable for the appropriate zone as defined in British Standard 5345 for a Class II (2) product.

Jet A-1 fuel is covered by the category of Gas Group IIA,

## **Temperature Classification T3**

Zone 0	within the main tank or product recovery / sample	
	Recovery tank.	

- Zone 1 Within an area between the ground and a point 300 mm above and on each side of any discharge opening or vent on top of the tank.
- Zone 2 Within an area between the ground and a point

1000 mm above and on each side of any discharge opening, vent or sealed (gasket / O ring) joint.

1.3.2.10 all wire conductors behind the rear of the driver's cab shall conform to BS.6862 or equivalent to ensure that they are adequately insulated and able to carry more than the designed circuit current without causing an unsafe rise in wire temperature.

The conductors shall also be adequately fixed and protected so as to minimise the risk of damage or deterioration. Plastic flexible conduit is acceptable providing it is resistant to degradation by UV light. Where metal conduit is used for added protection and durability in particular location, then it must be corrosion resistant.

Conduit must not be routed where it might provide a tempting hand hold or be easily stood upon. All terminals including battery terminals shall be effectively protected and insulated by a cover against inadvertent contact and spillage of flammable liquids. All electrical enclosures to be to IEC .144/BS.EN.60947(was BS.5420) / IP65 Standards.

1.3.2.11 Screw-in or cap-less bulbs shall not be used behind the driver's cab

Junction box, connectors and all electrical equipment behind the driver's cab shall be adequately protected and shielded as far as practicable from the ingress of moisture or dangerous substances under normal conditions of use.

- 1.3.2.12 An insulated return circuit must be used, and shall not have more than 300 milliamps leakage between either polarity circuit or the vehicle chassis. (Not applicable if the vehicle is ADR complied)
- 1.3.2.13 Master switch shall comply with Zone 2 requirements, as defined in BS.5345, to enable all electrical circuits to be isolated (including open circuiting of the generator field windings) shall be placed as near as possible to the battery and extra remote battery isolation switch shall be provided inside the cab. (Not applicable if the vehicle is ADR complied)

This shall not prevent intrinsically safe or flameproof circuits, as defined in BS.5345 requirements, from being taken from the battery side of the master switch. The master switch control shall be readily accessible to persons outside the vehicle and its location shall be indicated by a clearly visible notice with an indication to when it is in the "ON" position.

## **Circuit protection**

The following steps shall also be taken to ensure protection of the electrical circuits -

- 1.3.2.14 all circuits, with the exception of the main battery supply and the starter and generator circuits shall be protected with fuses or circuit breakers in the feed side of each circuit.
- 1.3.2.15 Exposed fuse wire or links shall be avoided, but if used shall be

Fitted within a sealed unit.

1.3.2.16 All circuit protection devices with the exception of any barrier device

For a tachometer or other intrinsically safe device shall be mounted

Forward of the cab rear wall.

## **1.3.3** Brake interlocks: Electrical Switches acting over pneumatic operation

- 1.3.3.1 Any pneumatic circuit for control or ancillary operation must include an auxiliary air reservoir and circuit, quite separate from the vehicle braking system, and supplied through a pressure regulating valve from the main braking system.
- 1.3.3.2 A brake interlock system, with switches in series, is to be fitted, so that when any of the fuelling nozzles is not secure in its holder or the platform is not in the fully down position, or a hose is connected to the loading adapter, or a power take off is selected, then the vehicle brakes will be applied, (either main system or parking brake system).
- 1.3.3.3 A separate warning light shall be provided to clearly indicate when the PTO is engaged. It shall not be possible to drive the vehicle with the PTO engaged.
- 1.3.3.4 In the event that an interlock is inadvertently activated and the brakes applied while the vehicle is moving, the application shall be slow enough to bring the vehicle to a controlled halt without endangering the driver or passengers.
- 1.3.3.5 Whether the interlock switches are electrical reed switch / magnetic proximity type, the system shall be designed to exhaust air from the vehicle brake actuating pilot.

Systems which require a positive air pressure signal to cause the vehicle brakes to be applied shall not be used.

- 1.3.3.6 The use of shuttle, check or non-return valves shall be minimised.
- 1.3.3.7 All switches and related devices shall be designed, arranged and protected to withstand external fuel contact and environmental conditions bright sunlight / high and low humidity / dust and wind blown sand / rain etc.
- 1.3.3.8 The brake interlock switch system fitted must respond to
  - (I) A Jet A-1 selective spout, and

(II) The presence of the nozzle body for over-wing fuelling system.

(III) In presence of non selective spout (Separate Holder for ZRS 32)

1.3.3.9 An emergency override pneumatic switch shall be fitted in the vehicle cab to allow the vehicle to be driven even if an interlock is operating to apply the brakes. This override switch is to be clearly marked and wire sealed in the position where it is non operative.

The override switch system shall be arranged to by-pass and isolate the interlock switches (and in the case of electrical switches, the solenoid operated pilot valve) and act directly to apply pressure to the pilot valve controlling air supply to the chassis.

- 1.3.3.10 Four large (50 mm min. dia.) warning lights, protruding 30 to 40 mm. shall be provided in the cab in a prominent position, with shielding as necessary from bright sunlight.
  - One flashes red, to indicate that the override system is in operation.
  - One flashing amber, to indicate if any interlock has been operated

(Equipment not stowed)

- One continuous amber to indicate that pump drive is fully engaged.
- One continuous amber to indicate that road drive is fully engaged.

Small pneumatic 'blinking eye' type indicators shall not be used.

The colour green must not be used for indicating that the P.T.O pump is in the drive position since it might be understood to indicate that it is safe to drive the vehicle away from an aircraft, even though the interlock warning light is flashing.

1.3.3.11 Signals for indicating the pump gearbox engagement position can be taken from switches or sensors actuated by a device attached to the exposed selector shaft - monitoring selection by the presence or absence of air pressure to the gearbox is not sufficient to give clear indication of engagement / dis-engagement.

## **Chapter 2:- Functionality and Construction**

## 2.1 Flow performance

The operating capacities noted below must be sustainable for periods long enough to enable the complete contents of the Refueller to be delivered or received (during defueling or self loading) without any components being over rated or overheated.

## 2.1.1 Fuelling

Under mentioned reel hose flow rates shall be achieved when the secondary pressure control valve is set to provide maximum 55 psi (air reference pressure shall be 55 psi + spring bias) meanwhile the pressure downstream of the nozzle/aircraft adapter is 2 bars:-

Also the same flow rates shall be achieved within the most economical engine RPM range (operation)

a) Reel hose - 1000 1/m via 30m x 2 1/2 inch

Pressure losses between the pump outlet and hose inlet (s) shall be minimised and shall take into account a potential pressure loss across the filter Water Separator of 1.5 bars at maximum rated flow.

#### **Over-wing fuelling facility:**

One over-wing hose reel must be Stainless steel hub self-lubricated without chain -200 l/min minimum discharge rate via 20 meters of 1.5 inch diameter hose.

#### 2.1.2 Defueling

In this mode, fuel will pass through the meter (counting in the reverse direction) and into the Refueller via the normal bottom loading system.

Required performance is: - 1 reel hose - 400 1/m,

The flow rate is to be achieved with the engine at idle speed, increased automatically above normal by pump engagement and, if necessary, by using RQV governor.

#### 2.2 Dimensions – Aircraft Refueller

According to the maximum allowable dimensions and other requirements set forth by Motor Traffic Department, Sri Lanka (Motor Traffic Act chapter. 203), the Aircraft Refuellers offered shall comply with the following dimensional requirements.

Width: 2500mm Maximum

Length: 11000mm Maximum

Height of completed vehicle with dead stock

Chassis / cab height (with flash beacon):3500 mm maximum.

## 2.3 Transverse Weight Distribution

Aspects of longitudinal weight distribution are covered in items 1.2.2, 1.3.1.5, 1.3.1.7 and 3.1.1.4 Transverse weight distribution must be arranged such that the vehicle remains substantially horizontal under all loading conditions.

## 2.4 Equipment and functions

## 2.4.1 General information

- 2.4.1.1 Where a fuelling component is not specified by name, the constructor is required to propose a suitable item. Where a component is specified 'typical' or 'equal' is stated, the constructor shall submit details of an alternative item.
- 2.4.1.2 The meter, all pumping controls and the system instruments are to be located close together at an "operating station" on the driver's side of the aircraft refueller.

- 2.4.1.3 The movement of only one control shall be required to convert from fuel to defuel operation or vice versa.
- 2.4.1.4 The fuelling equipment shall be laid out in a compact neat and tidy manner so as to give an overall streamlined appearance to the aircraft refueller.
- 2.4.1.5 All hose reels, meters and controls must be so arranged and shall be totally enclosed in a cabinet.
- 2.4.1.6 All hydraulic power for the hose reels is to be derived from engine driven components, not electrical batteries.
- 2.4.1.7 There shall be a minimum clearance of 600 mm, when loaded, between the ground and vulnerable fittings such as sample point and drain line outlets. This distance allows easy access for bucket, sample jar or small bore hose connection. However, sample points shall not be too high off the ground otherwise excessive splashing and spillage could occur.
- 2.4.1.8 Only open channel rectangular corrosion resistant structures is to be used for vertical or horizontal members of the panel and top deck. Finished appearance of the unit must be good and angled section bar supports are not acceptable if they are visible, except where used for securing fuelling components. All steel sub-assembly components must grit blasted and prime coated before attachment.
- 2.4.1.9 The design and position of equipment shall minimise corrosion.

Surface preparation and coating shall be of the highest standard

With water traps avoided.

All small fastenings shall be of non corrosive materials.

- 2.4.1.10 all welding shall be continuous where practical. Where stitch welding on exterior components is used, epoxy sealant shall be applied to un-welded areas to prevent water entrapment. All welding must achieve full penetration and any weld splatter must be removed.
- 2.4.1.11 All pop rivets shall be stainless steel or aluminium with high magnesium alloy (5%) material composition to British Standard 1473 A1 Mg5 or similar.
- 2.4.1.12 The material or finish of fuel sense lines shall differ from that of pneumatic lines for ease of identification.
- 2.4.1.13 Tamper proof covers or locking devices are required on the following

Controls to prevent inadvertent alteration:-

- The hydraulic flow divider (if fitted)
- The air sense pressure regulator
- The hydraulic hose reel rewind speed controls
- Platform speed controls

## 2.4.2. Functions

2.4.2.1 The design of the system ensures that when fuelling, product cannot by-pass the filter or be circulated or returned to storage from downstream of the meter. Interlocked systems, which are intended to achieve this, are not acceptable. - i.e. the meter must be downstream of all other branches connected back to the tank or pump inlet.

No pressurised transfer or delivery pipe work is permitted inside the tank.

- 2.4.2.2 A combined bottom loading / outlet valve is not used. Use of a single valve does not permit re-circulation for purposes such as hose / system flushing or fuel drying. The short length of common line would also contain fuel, which had not been in the tank for settling or checking. For defueled product, all these aspects are particularly relevant.
- 2.4.2.3 All products entering the tank goes through the bottom loading system (The bottom loading valve shall be off-loading lever operated type or pneumatically operated type) and hence is subject to the high level shut off control system.
- 2.4.2.4. A none return / check valve is positioned downstream of the pump / filter to prevent reverse flow in the fuelling mode of operation.
- 2.4.2.5 When defuelling, no product can be recorded as being defueled which has not been removed from the aircraft. Potentially contaminated bacteria laden product does not pass through the filter Water Separator, which is additionally protected form possible contamination by a closed valve on the inlet side. The dead man valve may be used for this purpose depending on equipment arrangement.
- 2.4.2.6 During pressurised defueling, when the aircraft pumps are operating and if the fuel / defuel control is in the fuelling position, thus allowing the dead man valve to be opened, the non return valve also prevents product from being passed backwards through the filter, thus causing element damage, and into the tank via the foot valve, the tank being unprotected by the high level shut off system.
- 2.4.2.7 In the defuel mode, it shall not be possible for the operator to increase pump speed using the control lever. This can be achieved by arranging for air pressure to be applied to the air cylinder installed to automatically reduce engine speed to idle when the dead man valve handle is released.
- 2.4.2.8 There is an isolating valve in the return line between pump outlet and the tank, automatically open for defuel and closed for fuelling. This prevents high pump pressure from being imposed on the bottom loading couplings in the reverse direction and on the bottom loading valve.
- 2.4.2.9 There is a non return valve in the defuel line between the pump and connection to the bottom loading system. This ensures that all product entering the Refueller passes into the tank, even if the isolating valve is open (control lever in 'defuel') or has failed.

In addition, if the control lever is in the 'defuel' position, the non return valve prevents fuel being pumped from elsewhere into the bottom loading couplings, through the defuel return line, backwards through the pump, backwards through the line by-passing the filter and hence into aircraft.

- 2.4.2.10 The system provides an ability to draw from an outside fuel source so that the Refueller can normally be arranged via the dead man valve, filter Water Separator, delivery hose system to aircraft.
- 2.4.2.11 When Fuelling from the outside suction point using the on-board pump, the Refueller 'foot valve' lever controls will need to be closed, and the 'fuel / defuel' selector will be in the 'fuel' position.

**Note:-** In general, it is not recommended that a pressurised source of product be connected to the outside suction point of a Refueller (A), e.g. from a second Refueller (B), since there is a risk that the tanks of Refueller (A) could be reverse filled via their respective foot valves without the safety benefit offered by the high level automatic shut off system.

## 2.4.3. Instrument panel / control station

The following instruments and controls are required and are to be neatly located at the pumping control station. The control panel must be swivelling so that access behind is easy for maintenance purpose. Minimum length of the instrument control panel (instrument cabinet as mentioned in2.4.1.5) shall be 2000mm.

• Pump speed control lever (below panel, not illustrated).

A movement limit stop shall be fitted and adjusted to prevent

Over speeding the pump. Item 2.4.5 gives more information.

- Engine RPM indicator or pump RPM indicator (mechanical drive type). A red line is to be marked on the gauge face at the maximum speed recommended for pump operation (or affix an adjacent label).
- Hydraulic oil pressure gauge.
- Pump vacuum gauge, 100 mm, glycerine damped, calibrated In inches of mercury.
- Pump discharge pressure gauge, 100 mm, glycerine damped.

Maximum range shall be approximately zero to  $200 \text{ lbf/in}^2/14 \text{ bar}$ .

- Filter Water Separator differential pressure gauge, direct reading `piston type 0-30 lbf/in<sup>2</sup>, with low pressure side drain test and isolating valves and drain line to be extended up to slope tank. Also see item 2.5.9. Concerning tubing and fittings.
- Fuel sense point (venturi) pressure gauge, 100 mm, glycerine damped, for the secondary pressure control. The range shall be approximately zero to  $150 \text{ lbf/in}^2/10 \text{ bar}$ .

• Air reference pressure gauge for the SPCV, 100 mm, range zero to approximately 150 lbf/in<sup>2</sup> / 10 bars.

**Note:**- Gauges are to be dual calibration (bar and  $lbf/in^2$ ).

• Quick disconnect fittings (male and female halves) with

Isolating valves to permit the pump discharge, sense point (Venturi), and air reference pressure gauges to be tested in situ.

• Air pressure regulator (on or easily accessible just behind the panel) for setting the secondary pressure control valve.

The regulator must be stable and of the self relieving, rapid response type. It shall be capable of handling the volume of air displaced by the secondary pressure control valve when caused to close by increasing downstream fuel pressure.

- De-pressurising control. (Manual)
- Fuel / defuel selector lever control (or adjacent push / pull type

with indicator).

- Outlet / foot valve control (with emergency trip on the other side of the aircraft refueller).
- Two (02) Push and lock type engine stop control (one at control panel side and one at other side of the refueller)

## 2.4.4 Labels and signs

2.4.4.1 All gauges, controls, switches and warning lights are to be labelled using engraved laminate or similar plastic UV light resistant material (Embossed Dymotape labelling is not acceptable.) - suitably inscribed to give white letters on a contrasting background, or vice versa.

Notwithstanding the above, items whose functions are very obvious do not need to be so identified. Excessive labelling / identification shall be avoided where it results in overcrowding or potential confusion.

- 2.4.4.2 Thin, self adhesive labelling or painting (except on the tank or cab) is not acceptable. Labels inside the cab may be bonded in position but those outside the cab shall be affixed using rivets. Care shall be taken to ensure that labels are aligned correctly / not askew and located adjacent to the item or control to which they apply.
- 2.4.4.3 The SPCV 'fuel sense pressure' gauge shall be labelled as such. If a venturi pressure control system is fitted, the gauge shall be labelled 'venturi pressure' not 'fuelling pressure' or 'nozzle pressure'.
- 2.4.4.4 A fuelling circuit and operating instruction plate shall be affixed near the control station.
- 2.4.4.5 Required warning labels shall be attached to the relevant points.

- 2.4.4.6 An instruction plate shall be attached near the pump selector on the dashboard giving clear instructions for:-
  - Minimum air pressure requirement
  - Engaging pump drive
  - Disengaging pump drive

2.4.4.7 Labels for tyre inflation pressure shall be affixed to the wheel arches / mudguards.

- 2.4.4.8 Filter Water Separator sample points are to be clearly marked Filter Sump, Filter Inlet, and Filter Outlet.
- 2.4.4.9 Jet A-1 grade stickers (API.1542) shall be fixed to sides, front and rear of vehicle. "No smoking" signs are to be attached to the doors of the cab (International Symbol).
- 2.4.4.10 the language used for labels and signs shall be English.

## 2.4.5 Pump controls

2.4.5.1 Pump engagement and dis-engagement shall be controlled from the vehicle cab, the control lever and air pressure gauge being adjacent to the normal gear selector.

Selection of pump drive shall automatically increase engine idling speed to prevent gearbox chatter.

2.4.5.2 A manually adjustable, lever type engine speed control (non pneumatic) is required at the pumping control station, complete with quick release action. An automatic control linked to the dead man operation is also required to return the engine to the idle position when the dead man valve is closed. Subsequent operation of the dead man shall not cause the engine to automatically increase above idling speed.

## 2.4.5.3 Also see:

Items 1.3.3.10 and 1.3.3.11 concerning warning lights

Items 1.3.3.2 concerning interlocks

Item 2.4.2.7 concerning de-activation of the speed control during

Defueling

Item 2.4.4.6 concerning labelling / instructions

## 2.4.6 Outside suction / self loading

2.4.6.1 The outside suction point shall comprise a 3 inch ball valve and 2 <sup>1</sup>/<sub>2</sub> inch aircraft adapter type tank unit with ANSI 150 flange complete with dust / sealing cap. Outside suction point shall be upstream of isolation valve.

## 2.4.7 Pressure control / dead man

2.4.7.1 Pressure control is to be provided both by hose end (primary) pressure control valves (HEPCV's) and by a direct line mounted, non bypass, secondary pressure
control valve (SPCV). The latter will also act as a deadman valve, it shall be remote sensed.

- 2.4.7.2 Sense line valve shall be sealed in the open position.
- 2.4.7.3 The system may include one or more venturis to compensate for downstream pressure loss. In this case, the venturi sense lines shall be connected together via 'leaky non return valve' for selection purposes. Solenoid or pilot operated selection shall not be used. In this case, the venturi system shall not allow the pressure downstream of a blocked open HEPCV to exceed 55 lbf/in<sup>2</sup> from maximum to low flow rate, with shut off pressure being 65 lbf/in<sup>2</sup> maximum.
- 2.4.7.4 The standard method of dead man control shall be an electric over air system using a Suzy (Suzie) cable connection rather than a reel. Single line air bleed systems shall be avoided since in general, they introduce reaction time delays and are difficult to adjust correctly.

Spring loaded push button type dead man override which requires constant pressure on the button to maintain fuel flow shall be provided.

- 2.4.7.5 The dead man handle is to be located at the operating station, is to be easily operated by one hand and designed so that when dropped onto the ground or stowed it is not normally possible for it to become operative. For stowage, a simple open box, with water drain hole, is adequate. Although difficult to achieve, every effort shall be made when designing the operating station area not to create nooks or crannies where an operator could place and leave the dead man handle in the operating / active state. A dead man timer system Green prompt lamp is required.
- 2.4.7.6 No dead man override shall be provided for over-wing fuelling applications. (Over wing refuelling shall be done by operating dead man.
- 2.4.7.7 The dead man operation, with minimal reaction time, shall shut-off flow evenly in not less than 2 to 5 seconds from the maximum rated flow of 1000 litres/minute, overshoot quantity after release of the handle being less than 100 litres.

When the dead man valve is signalled to open, initial response shall be with minimum delay and flow shall increase evenly from zero to maximum in not less than 3 seconds. There is no upper time limit from the viewpoint of safety, but for practical reasons 15 seconds shall be regarded as a maximum.

# 2.4.8 Meters

2.4.8.1 One positive displacement (PD) meters shall be provided. Meter will be for flow through the under wing hose reel and for the over wing delivery. The meter shall be designed as per the requirements set forth by API MPMS 6.4 manual of petroleum measurement standards chapter 6-metering assemblies, section 4metering system for aviation fuelling facilities

Turbine type meters are not acceptable.

2.4.8.2 The meter shall be a suitable for the under wing and over wing flow rates.

2.4.8.3 The meter shall be accompanied, when purchased, by a calibration / test certificate using kerosene or a test fluid with a viscosity representative of Jet A-1

# This meter is available with optional flow configurations - left to right or vice versa.

- 2.4.8.4 Meter characteristics are to be:-
  - Accuracy to be:-
  - a) +/- 0.05% at 75% of meter rated maximum flow rate or the maximum achievable if less.
  - b) +/-0.2% at 20% of meter rated capacity.
  - Maximum linearity a) 0.18% for 4 inch and 6 inch triple-capsule size
    - b) 0.15% for 3 inch and 4 inch double capsule Size
    - c) 0.10% for  $2^{1/2}$  inch and 3 inch single capsule size
  - Repeatability shall not exceed 0.02%.
  - The indicated reading of the mechanical rate of flow indicator (ROF) shall be accurate to +/- 5% of the true value.
- 2.4.8.5 The meter register must be fitted with a non-resettable totaliser and a large numeral counter. The right hand wheel or drum must be subdivided. Measurement units shall be in litres.
- 2.4.8.6 The meter shall be capable of occasional over speeding by 25% without damage or losing set calibration.
- 2.4.8.7 Meters must be able to operate / **count under reverse flow** and shall

be fitted with a rate of flow indicator(Direct readings in LPM) ).

#### 2.4.9 Reels and hoses

2.4.9.1 Reel Hoses:- One delivery hoses 2 <sup>1</sup>/<sub>2</sub> inch in accordance with EN ISO 1825/ EI 1529 type C latest edition. 30 meter long 2 <sup>1</sup>/<sub>2</sub> inch Female coupling for vehicle end with BSPP thread and other end 2 <sup>1</sup>/<sub>2</sub> inch male coupling with BSPP thread.

Overwing Hose:- One delivery hoses  $1\frac{1}{2}$  inch in accordance with EN ISO 1825/ EI 1529 type C latest edition. 20 meter long  $1\frac{1}{2}$  inch Female coupling for vehicle end with BSPP tread and other end  $1\frac{1}{2}$  inch male coupling with BSPP tread.

Attachment screw threads shall be BSPP.

The couplings shall be of the bolted clamp type meeting VG.85 328 / VG.95 950 requirements.

Swaged couplings are not acceptable and shall not be used.

Hose coupling tails shall be stainless steel.

2.4.9.2 Under-wing hose reels shall be of the Catherine wheel type, single

width with a minimum core diameter of 600 mm, and be located close to the meters and controls. It must be Stainless steel hub self-lubricated without chain Catherine wheel type hose reel is required for over-wing hose.

2.4.9.3 Swivel joints, which need grease for lubrication, are not permitted.

In addition, the design of the swivels shall be such that seals are easily accessible and can be replaced without the need to either remove the reels or engage in major disassembly work.

2.4.9.4 The reels are to be free running out and hydraulic power rewind. The control levers (each with lock, reel out, rewind functions) are to be situated at the hose reels, on the pumping control station side only.

Rewind speed shall be adjustable by means of a valve or other device which can be locked / sealed in its set position.

- 2.4.9.5 Suitable rollers or trays below the reel and rollers at the pull off points are required to ensure proper hose handling, prevent drooping and tangling etc.
- 2.4.9.6 Hoses must be easy to pull off the reels under all conditions but adjustable devices to prevent excessive overrun, when pulling stops, shall be provided if necessary.
- 2.4.9.7 Male threaded connections are required on hose reel outlets. It shall not be necessary to remove the reel outlet elbow in order to facilitate hose removal. The female swivel nut connection on the hose at reel end shall be easily accessible using normal tools.
- 2.4.9.8 Hose reels must be suitable for testing hoses to 20 bar while still connected.

#### 2.4.10 Filter Water Separator

- 2.4.10.1 Only EI approved stainless steel vessels shall be used with rod mounted six inch (6") filter elements.
- 2.4.10.2 The filter water separator cover shall have a swing bolted cover (not flanged through bolts) and be installed to allow easy removal of the elements without the need to remove any other components or panels. It shall be situated to open on the opposite side of the Refueller from the 'operating station'.
- 2.4.10.3 It shall have <sup>3</sup>/<sub>4</sub> inch sump drain lines with ball type isolating valves at the vessel end and Spring return valve at the drain point. Sampling lines shall be provided from Filter Water Separator outlet side with ball type isolating valves at the vessel end and Spring return valve at the drain point. The sample / drain lines shall be as short as possible and conveniently positioned for use with a bucket or jar.

- 2.4.10.4 The filter water separator is to be fitted with a piston type differential pressure gauge with readings in psi.. Isolating valves shall be fitted in the sense lines together with a valve to allow fuel from the underside of the piston to be bled to a collection jar for the purpose of verifying that the integral filter is not blocked and that the piston is free to move over the whole of its potential stroke. The low pressure side isolating and piston chamber bleed (drain) valves may be combined into one multiport valve if desired.
- 2.4.10.5 An automatic air eliminator is required on the highest point of the filter water separator. The air bleed line is to be taken back into the tank through a visible flow (ShoFlo) indicator, easily identifiable from the control station. The flow indicator shall not be a plain window type, but shall incorporate a ball or spinner to indicate that flow is occurring. The design shall be such that incoming air or vapour will easily displace accumulated liquid downstream i.e. it shall be self draining. Air shall be able to pass freely into the tank vapour space, but liquid leakage shall pass via a tube to the bottom of the tank. A non return valve shall be installed in the air eliminator line to ensure that the filter cannot drain back into an empty tank (Refueller) via an open foot valve.
- 2.4.10.6 Re-settable system shall be provided to cut off the refuelling when the differential pressure reaches to 15 psi of filter water separator

# 2.4.11 Miscellaneous Equipment

The following miscellaneous equipment is to be fitted.

- 2.4.11.1 Weather proof **lockable stowage** for two 5 Litres containers and miscellaneous sampling equipment shall be provided. Typical dimensions shall be 600 mm long x 600 mm. high x 250 mm deep. Standard electrical enclosure boxes, fitted with a wooden internal base panel, have been found suitable for this application.
- 2.4.11.2 A **sample recovery tank** of approximately 150 Litres capacity, equipped with fill point, vent, dial or fire resistant window type level gauge and drain shall be fitted at operational station side.

The fill point shall be of an easy to use design incorporating a funnel, removable screen filter and down pipe. The fill point cover shall be operable by one hand and stay in the open position when so set. Large diameter fill covers / inspection hatches of the type used on vehicle cargo tanks shall not be used.

The funnel opening shall be of an adequate size and positioned high enough above surrounding surfaces or obstructions so that a full 5 Litres jar can be easily positioned and emptied without spillage.

2.4.11.3 Two manual rewind reels, each with 40 metres of bonding cable and a substantial clip (MIL-C-83413/7) are to be fitted for Refueller one near the pumping control station, the other on the opposite side of the vehicle in a convenient location.

These may be used both for fuelling and bottom loading purposes.

**Characteristics of the reel** and its operation are important. Materials shall be corrosion resistant. It must not over-run on reeling out when the cable is no longer being pulled. It must not be stiff to rewind. It must be possible for the operator to properly / evenly guide the cable onto the reel over its full width,

thus avoiding localised coil build up and subsequent loosening / overlaying / tangling. It must not be possible for the reel / cable to unwind due to vibration when the vehicle is moving.

The **cable** is to be very flexible, corrosion resistant, and resistant to kink and have substantial tensile strength. Core material  $16 \times 14 \times 0.15$  single copper braided 3mm diameter, electrical resistant 0.007 Ohms per metre cable has been found to be very good and is recommended.

For protection against abrasion, it must be covered in a suitable, UV light resistant clear plastic coating.

The coating may be transparent (to aid location of faults or damage) or coloured bright yellow or have a reflective surface to aid visual identification of its presence on the ground.

An interlock switch is not required at the bonding clip securing point.

- 2.4.11.4 A bonding connection shall be installed at each bottom loading point, the tank drain, the product recovery (dump) tank and at the drain panel.
- 2.4.11.5 Two bucket or scabbard type fire extinguisher holders shall be provided, one at each side of the Refueller, suitable for both 9 kg. dry powder type units.

They must be easy to use, at a shallow slope, with water drain holes and of non corrosive material. To ease handling and help prevent the hose from being squashed or damaged, wooden slats either side of the lower centre line may be found useful.

Holders, which require clamps or latches, must not be used.

2.4.11.6 01 No. Two kg.  $CO_2$  fire extinguisher shall be fixed in an accessible position in the cab.

#### 2.5 Pipe work, flanges and isolating valves

2.5.1 All piping used shall be seamless Aluminium Alloy or Stainless Steel. Mild Steel is not permitted even if internal surfaces are completely coated by hot tin dip or epoxy lining.

For visual appearance, pipe sections shall normally be butt welded together.

For information, the following stainless steel material has been found to be generally suitable.

Pipe to ASTM A.312, grade TP. 304 L, and Schedule 5S (0.083" thick). Forged flanges to ASTM A.182, grade F.304L. Wrought fittings to ASTM A.403 grade WP .304L.

ASTM grades A.321 and A.316 are also acceptable.

- 2.5.2 Victaulic joints and flexible couplings are not permitted downstream of the pump
- 2.5.3 Flanges shall be to ANSI.B16.5 class 150 pattern dimensions

- 2.5.4 Swivel joints are to be self lubricating, without the need for grease. Ductile iron swivels are not acceptable even if they are internally coated.
- 2.5.6 All pipe work is to be fully drainable. There shall be a drain line with ball isolating valve and Kamlock coupling / sealing cap installed from a point where the bulk of the fuel can be drained.

Other piping low points are to be fitted with minimum  $^{3}/_{4}$  inch BSPPF (mutter) drain points, fitted with screwed plugs (parallel thread with sealing washer).

- 2.5.7 Plugged, parallel threaded connection ports shall be provided on pipe work in accessible positions to permit hose testing to be carried out on the Refueller Provision shall also be made in the design of the piping layout to permit in situ routine testing of the riser hoses to the elevating platform.
- 2.5.8 All hoses shall be capable of being isolated for routine pressure testing to 20 bars, without the need of removing them from the vehicle. Accordingly, all pipework, fittings and isolating valves, which would be subject to this pressure, shall be suitably rated for 'hose test use, even though the normal system hydrostatic test pressure is 15 bars.

Isolating valves shall not leak in the reverse direction when subject to 20 bar applied from the downstream side.

2.5.9 All fuel sample, drain, sense and gauge lines shall be Stainless Steel except in sized of 1/2 inch and above when Aluminium can also be used. Where there are individual sections as part of a whole, it shall be possible to dismantle them separately i.e. use compression ferrule type fittings and avoid multiple screwed joints.

Elbow fittings with tapered threads must never be used in parallel threaded ports such as on the differential pressure gauge and filter Water Separator vessel.

- 2.5.10 Valves on drain / sample lines are to be ball type, terminating in Kamlock type couplings with quick release sealing caps secured by retaining wires or chains.
- 2.5.11 Copper, Copper Alloys with more than 35% Copper, Zinc or Cadmium shall not be in contact with the fuel. All valves, couplings, and swivels etc. in contact with the fuel shall be non-ferrous. Valves may use Aluminium, Stainless Steel or chromium plated bronze components.
- 2.5.12 where valves are actuated by pneumatic cylinders, consideration shall be given to protecting shafts and seals, which could be damaged in a potentially dirty / wet environment, by use of a flexible rubber boot.

This may apply even if the shaft is made of stainless steel.

Advice on this aspect shall be sought from the cylinder manufacturer since in some cases, a rubber boot may accelerate rather than prevent wear by 'inhaling' and accumulating abrasive particles / moisture during the extension mode.

# Chapter 3:- Tank and fittings

#### 3.1 Tank design – Re-fueler

# **3.1.1 Basic structure**

3.1.1.1 This specification gives some general design principles and particular requirements. For detail on material grades and thickness, or weld procedures refer NFPA.385, (pr) EN12312-5, ECE/TRANS/110 (ADR) and DOT 406

# 3.1.1.2 The tank is to be made from Aluminium Alloy (EN AW 5182) with 5.2mm minimum thickness or 304L Stainless steel.

Refueller tank is to be a single compartment with a usable liquid capacity of 10,000 litres for Refueller a sump giving minimum dead stock and a minimum of 3% liquid expansion / ullage space. A typical gross 'rate' would be 3.76 litres / mm length.

With due regard for the constraints of width and height, length shall be minimised. The man lids and vent valves do not protrude above the tank top, but instead are set below it.

- 3.1.1.3 The tanks must be able to withstand an internal pressure of at least 0.35 bar.
- 3.1.1.4 The tank sump / bottom, when mounted on the chassis in both the loaded and unloaded condition, shall have a bottom slope of not less than 2° (1:24 or 3.6%) from each end towards a single low point in a convenient central location.
- 3.1.1.5 The bottom interior surface must be smooth and free from pockets or depressions where water might collect. Welds around the sump and in the centre bottom area shall be ground flat / flush to prevent obstruction to water flow. Other welds, either of the baffles or tank plates, shall be positioned such that flow of water / water globules to the centre bottom and sump is not obstructed.
- 3.1.1.6 Refueller tank is to be fitted with one (01) baffle to form divisions, each division of about 5,000 Litres capacity, varying according to the design constraints of the tank. Baffles shall be dished to give increased strength and acute angles at the tank shell joint shall be avoided.

All baffles must be open at the top and the bottom for liquid levelling and be provided with substantially off-set (not overlapping) access holes, with smooth edges, approximately 600 mm. diameter at some intermediate height. it shall be possible for a person to clamber through these holes without undue difficulty. Internal piping must not pass through these access holes.

# 3.1.2 Miscellaneous

- 3.1.2.1 The outlet line from the filter air eliminator and any other fill lines into the Refueller tank must be taken to near the tank bottom to minimise splashing. However, air shall be able to pass directly into the tank vapour space to avoid it bubbling up through the fuel.
- 3.1.2.2. A spring-loaded soft seat non-return valve is to be fitted at any point where sense or return or control lines enter the tank. This is to prevent spillage in case of accident damage or if equipment is removed for maintenance.
- 3.1.2.3 A side mounted contents gauge, unaffected by tank pressure, is required see item 3.4.3

- 3.1.2.4 Any appendages fixed to the tank (ladders, grips, braces, etc.) shall be suspended from pads or brackets welded to the tank shell.
- 3.1.2.5 Flat washers lock washers and self locking nuts / stiff-nuts are to be used on all bolted or studded fastenings.
- 3.1.2.6 Studs or captive nuts must not be welded to the tank shell, affixed pads or brackets.
- 3.1.2.7 An access ladder shall be fitted at rear of the tank and the tank top shall have an aluminium chequered walkway from the access point to the manholes.
- 3.1.2.8 Electric cables / conduit must not be positioned such that they provide a convenient hand hold or grip for someone climbing onto the tank top.
- 3.1.2.9 No pressurised fuel delivery pipes are permitted to pass through the tank.
- 3.1.2.10 One and half inch (1 <sup>1</sup>/<sub>2</sub>") rapid drain line shall be installed from the tank sump, flush with the bottom and not surrounded by raised welds, to an accessible point. A ball valve shall be installed at the sump end and the outlet shall terminate in a 1 <sup>1</sup>/<sub>2</sub>" inch ball valve and 1 <sup>1</sup>/<sub>2</sub> inch extended pipe with BSPP sealing dust cap.

A  $^{3}/_{4}$  inch sample line and valve shall be connected into bottom of the 1  $\frac{1}{2}$  inch line as close as possible to the outside valve.

#### **3.2** Tank attachments and controls

# **3.2.1** Top fittings

- 3.2.1.1 Hinged manhole cover assemblies shall be provided to enable the tank to be inspected internally. They shall be of lightweight construction but sufficiently robust to withstand rough treatment. They shall be capable of being locked or sealed and shall be easily detachable from the tank for maintenance purposes.
- 3.2.1.2 When pressure / vacuum valves (or other equipment) are fitted to the manhole cover they shall be so positioned that they are protected from damage in case of any vehicle overturn.
- 3.2.1.3 The arrangement of vent valve and cover installation shall be such that there will be no liquid spillage when the Refueller is on an incline of 1:15 (6.7%), the most suitable position for this equipment are the centre two baffled sections as opposed to the end ones.
- 3.2.1.4 The manhole arrangement shall be positioned so that if the cover is inadvertently left open, the cover will fall to the closed / latched position when the vehicle moves forward.
- 3.2.1.5 In order to provide for adequate gas freeing prior to entry of personnel, and to provide for escape in case of emergency, at least 2 openings for the tank each of 600 mm diameter shall be available. These may form part of the manhole / inspection hatch installation, or may be separate.
- 3.2.1.6 Any recess on top of the tank, which could collect rain water, shall be provided with a drain tube, minimum diameter 25 mm.

- 3.2.1.7 Stainless steel studs / fasteners shall always be used for attaching manlids and cover plates to the top of the tank.
- 3.2.1.8 Collapsible handrail ((Height 3 <sup>1</sup>/<sub>2</sub> feet Stainless Steel/ Aluminium) shall be provided on top of the tank. A system shall be provided to raise the hand rail before climbing to the tank top.

# **3.2.2.** Bottom loading

3.2.2.1 Two non selective bottom fill point flanged connections shall be fitted on each side of the Refueller, one of each pair being fitted with a  $2^{1/2}$  inch aircraft type self-sealing adapter and metal sealing dust cap, the other being blanked with drain point assembly with spring return valve.

Flange type Isolating ball valves are required downstream of the bottom loading adapters and blanked pipe line connected to the loading with sealing provision for open position.

3.2.2.2 Required height for the centre line of bottom fill point flanged connections shall be in between 650 and 750 mm.

They shall be positioned so that they are not overly vulnerable to impact damage.

3.2.2.3 The tank filling systems must be arranged so that fuel flow is stopped automatically when the fuel level reaches a predetermined maximum. The bottom loading valve shall be positioned on the same side as the operating station. Two automatic high-level shut-off valves shall be provided (first to act as primary and second to act if first fails) One of the high level detectors shall be the jet sensing type, acting in conjunction with a wholly mechanical / hydraulically balanced bottom loading valve. Drain tubing shall be 'anti static', resistant to fuel, and be substantial enough not to kink easily.

Systems using floats, magnetic switches or air pressure shall not be fitted.

3.2.2.4 A pre-check system, removable and serviceable from outside the tank (i.e. normally mounted on a pad or block flange), is to be fitted adjacent to the bottom loading valve in order to simulate loss of the hold open pressure to the high level jet sensor, thus causing the valve to close.

The pre-check test device also acts as an emergency closure for the bottom loading valve before the Refueller is full but it will not otherwise act as an emergency stop if the loading valve itself is faulty and allows liquid over spill.

3.2.2.5 Inside the tank, the bottom loading valve shall be fitted with a deflector to minimise splashing and cause the product to flow laterally.

# 3.2.3 Outlet valve

3.2.3.1 The outlet / emergency / foot valve on the Refueller tank outlet is to be mechanically or pneumatically actuated from the operating station, located as close as possible to the pump inlet. Low level indication shall be provided before suction loss of the pump. If necessary, a suitable vortex breaker shall be fitted.

3.2.3.2 An emergency button or mechanical trip device is also to be located on the opposite side of the Refueller to close the foot valve. Emergency closure trips / stops shall not require a pull action actuate them - rather, a push action shall be necessary, the device remaining in the actuated / stop position until reset.

#### **3.3** Tank venting and pressure relief

## 3.3.1 Normal service - loading, fuelling

- 3.3.1.1 With due allowance for safety factors, sufficient venting capacity shall be provided to cope with thermal breathing, fuel loading at up to 2,000 litres / minute and for delivery up to 2,000 litres / minute.
- 3.3.1.2 The valves used for these purposes shall be wholly mechanical, self contained and automatic in operation. Air operated vents connected to the loading or delivery system shall not be used.
- 3.3.1.3 General requirements and practice are that for outward vapour flow, the vent valve system shall begin to open at approximately 70 m. bar for thermal breathing, and 175 m. bar for loading with a sufficient number of small and large capacity devices provided so that the tank internal pressure does not exceed 175 m bar.

For inward flow, the vent valve system shall begin to open at a differential pressure of 4.5 m.bar with a sufficient number of small and large capacity devices provided so that the tank is not subject to a vacuum of more than 70 m.bar.

Vent valves of different types and sizes within the system may have different settings, provided the above overall requirements are met at the liquid loading and discharge flow rates specified.

3.3.1.4 For safety purposes, the valves shall restrict leakage of product 15 ml in 30 minutes in the event of vehicle overturn and when subject to a pressure equivalent to 110% of the maximum static head of liquid in the tank.

Valves shall be fitted with a fine mesh wire screen (wire 0.3 mm minimum diameter, maximum aperture 0.5 mm x 0.5 mm) or an acceptable multiplate / wound equivalent.

3.3.1.5 The valves may be all of one type or a combination of various capacities according to what can be provided by the manufacturer.

For example, small values attached to the manhole covers may be used for thermal venting with larger ones fitted alongside or elsewhere on the tank. Alternatively, if the manufacturer can provide high capacity values for cover installations, additional vents elsewhere may not be necessary.

# 3.3.2 Emergency - fire engulfment, liquid overspill

3.3.2.1 To cope with fire engulfment, additional pressure relief / venting shall be provided by the manhole covers or other special purpose, high capacity vent valves lifting against a spring - they shall begin to open at not less than 210 m.bar, and be fully open at 350m. bar. The manlids / emergency devices shall not lift under normal operation for venting purposes.

3.3.2.2 The venting devices shall have a minimum flow capacity, at 350 m.bar tank pressure, of equivalent free air based on a log / log graph constructed using the following data points (general application).

Approximate Tank	Total Surface Area m <sup>2</sup>	Capacity of Free Air
Capacity - m <sup>3</sup>		m <sup>3</sup> / hour
1	6.2	1,817
8	24.8	7,269
57	124.0	18,070
150	347.0	25,602

The basis for calculation is NFPA.30, using 75% wetted area and n-Hexane plus 22%, included to allow for Jet A-1 molecular mass, enthalpy of evaporation, relieving temperature and the isentropic exponent of fuel vapour. These figures also cover the Avgas requirement, this being 19% greater than for n-hexane. When tanks are circular or elliptical in cross section, the above tabled capacities for Jet A-1 will need to be increased by up to 14.5% - e.g. for up to 86% wetted area.

- 3.3.2.3 The Refueller covered by this specification requires an emergency venting capacity of 15,500 m<sup>3</sup>/hour of equivalent free air at 350 m.bar internal pressure.
- 3.3.2.4 The size of holes at the top of the baffles is critical and shall be determined by calculations similar to those used for bursting discs e.g. B.S. 2915. These holes shall be large enough to allow vapour to flow easily, with minimal pressure drop, from baffled sections with no emergency venting device to those so provided, thus preventing changes in liquid level which could otherwise result in the vent being blocked / flooded with liquid in a situation which would otherwise be contained.
- 3.3.2.5 The equipment provided for emergency air venting shall also be capable of preventing the tank pressure from exceeding 350 m.bar in the event of liquid overspill at flow rates up to 2,000 litres/minute.

#### **3.4** Tank calibration and contents

3.4.1 The tanks are to be calibrated in litres.

During calibration, the refueller is to be standing on level ground, with all tyres inflated to the correct pressures.

3.4.2 An aluminium dip tube shall be fitted in tank. The closure shall be such that any excess pressure in the tank will be released before the closure can be removed.

The tube shall have an opening in the wall above the maximum contents level to provide a pressure balance.

A captive black anodised aluminium or hardwood dip stick or equivalent is to be provided with each tank, calibrated and marked with suitably small increments according to actual measurements.

The marking must be directly in volume units. Those which require reference to calibration tables are not acceptable.

3.4.3 A 250 mm diameter tank contents gauge is to be fitted in Refueller tank to indicate either litres x 1000 (preferred) or as a minimum - empty,  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$  and full - based on actual measured volumes. The Refueller manufacturer will therefore need to make or obtain a new scale for the gauge. Operation must be unaffected by the pressure in the tank. The gauge is to be fitted on the same side of the tank as the fuelling control station.

#### Chapter 4:- Testing and records

- 4.1 Testing shall be performed after completion of painting.
- 4.2 On completion, hydrostatic pressure of 15 bar or 20 bar(as applicable) are to be applied to the fuelling circuits, followed by performance/functional tests to check that all items are in good working order.

These tests shall be repeated in the presence of the representative of Sri Lanka Air Force.

- 4.3 The tank shall be subjected to a hydrostatic test of 0.35 bar measured at the top surface.
- 4.4 A set of filter elements for flow testing shall be provided by the constructor.
- 4.5 Proof is to be furnished that the Filter Water separator has been hydrostatically tested to the design test pressure.
- 4.6 A calibration / test certificate for the meter shall be available.
- 4.7 A complete functional test on all items of equipment shall be undertaken prior to shipment of the refueller.
- 4.8 An Inspection test report and record shall be completed and forwarded with a copy also being included in the vehicle operating / maintenance manual.
- 4.9 Six weeks prior to inspection & testing, the contractor shall forward an inspection and performance test schedule for the approval of the client. The schedule shall cover all the major and important components of the equipment / vehicle offered. It shall also include equipment and gauges used for inspection and testing.

Chapter 5:- External painting

#### 5.1 General

The vehicle is required for operation in a humid, tropical climate and may expose to conditions such as about 90% humidity, heavy rain, foggy weather, bright sunlight and a daily average air temperature range of 20 to  $40^{\circ}$ C.

Coatings shall not be affected or discoloured by the contamination with grease, oil hydraulic fluids, fuels or routine pressure/chemical washing.

It is therefore essential that surfaces to be painted are correctly prepared and properly coated, with particular attention to hidden surfaces to avoid early breakdown of paint film. The **final finish** must be smooth and free from specks and runs.

The mating faces of **bolted assemblies** must be sealed with a mastic type compound to prevent corrosion resulting from the ingress of water.

Any components or assemblies which **shall not to be painted**, such as nozzles, hoses, interlock switches, screw threads, adjusting devices, pressure/vacuum valves, data plates etc., shall be removed or suitably masked. **Open ports** shall be securely capped.

#### 5.2 Surface Preparation, Priming and finish Painting

The following information shall be considered as a general guide the paint manufacturer's recommendations on the selection and application instructions should always be followed.

The **applicator must be experienced and equipped** with adequate facilities and all necessary equipment in safe and orderly manner.

#### 5.2.1 Surface Preparation/Priming

- 5.2.1.1 **Bare steel** shall be de-greased/oiled and cleaned before painting. If de-rusting chemical solutions are used, all traces shall be removed by neutralizing/washing. Tanks and steelwork shall be grit-blasted to BS.4232:1967 2nd Quality or Swedish Standard Sa.2<sup>1</sup>/<sub>2</sub>. After blast cleaning, all the components shall be Hot Zinc Spray coated or Hot Dip Galvanized.
- 5.2.1.2 Upon completion of applicable surface preparation, **Hot Zinc Spray coating or Hot Dip Galvanizing** shall be performed on all the steel structures and the steel plates of the refuelling module.
- 5.2.1.3 **Aluminium** or aluminium-alloy sheet, shall be de-greased and be treated with a thin a coat of applicable primer before painting. It should not be abraded.
- 5.2.1.4 Wood surfaces shall be abraded smooth and dry before priming/painting.
- 5.2.1.5 **Glass fibre** reinforced surfaces shall be de-greased and lightly abraded before painting.

# 5.2.2 Preparation/Finish Painting

# 5.2.2.1 Further Preparation:-

Any indentations, welds or rough uneven surfaces shall be filled with stopping putty or brushing filler applied in thin layers at suitable intervals. When completely dry/cured, the surface shall be rubbed down wet with waterproof abrasive paper.

#### 5.2.2.2 Finish coating:-

The cab (if necessary) and other components (as required) shall be under coated and top coated according to the paint manufacturer's instructions. Particular care must be taken to achieve the correct film thickness at each stage, taking into account the surface texture/finish of the item being painted. If necessary, additional coats shall be applied

but excessive thickness shall be avoided as this can reduce the durability of the coating. Specks and runs, shall be avoided and in the case of panels, will not be accepted.

# **5.3.** Colour scheme / visual identity

- 5.3.1 Final colours of the upper half of the cab, refueller shall be white (RAL 9010) and the lower half in "Signal" red (RAL 3000). The chassis and frame shall be Grey (RAL 7000).Chassis, recovery tank, mudguards, wheels, fuelling components and Panelling of the refueller shall be painted in Grey. For the vehicle exterior, a high gloss finish is necessary.
- 5.3.2 Emblems and lettering will be done locally.

# Instruction Manual (IM)

Supplier shall provide following Manuals/Catalogues on delivery of the Aircraft Refueller and shall cover the entire units. All such manuals shall be in English.

- 1. Workshop Manual for the Chassis Two Copy
- 2. Spare Part Catalogue for the Chassis Two Copy
- 3. Operations & Maintenance Manual for the Refueller Module Two Copy
- 4. Spare Part Catalogue for the Refueller Module Two Copy
- 5. Calibration chart of the tank Two Copy

# IM 1 Contents and format

The manual shall provide clear and comprehensive guidance on vehicle operation and maintenance, so that it can be kept in good working order. All due allowance shall be made for lack of user familiarity with a completely new vehicle.

A typical content / arrangement would be as described in IM2 to IM6.

# IM 2 Miscellaneous sections

- IM 2.1. A title page showing manufacturer's name / address / telecommunication details, customer, purchase order number, works order / serial number. This shall be followed with 4 colour photographs showing the vehicle right and left views, the rear, and tank top (to include fittings / manholes / vents).
- IM 2.2 An index / contents list showing the various sections and list of illustrations.
- IM 2.3 A list of applicable specifications and standards e.g. BS. ISO, EN etc.
- IM 2.4 General safety precautions relations relating to workshop practices, fire prevention/precautions, toxic vapours/fumes, the battery, main electrical equipment, asbestos packing (if any). Also list sources of potential danger when loading, driving, fuelling etc. and stress that the equipment shall only be operated by personnel qualified to do so by the user company.
- IM 2.5 A list of threaded fastener sizes used metric/UNC/UNF/BSW/BSF etc., with spanner/ hexagon sizes and recommended torque values.

IM 2.6. Basic vehicle data - chassis / prime mover details (make/model/VIN/engine model/power output/serial no/wheel-base etc.) - actual measured weights per axle when loaded-tyres/pressures-actual dimensions (heights of cab, tank, platform, overall length, width)- tank fabrication number - scissor lift fabrication number.

#### IM 2.7 General description

This shall be written to aid understanding of the more complex details later in the manual. Content can be short or long according to the other information provided. A simple diagram shall be included.

#### IM 2.8 Tank and fittings

This detailed information is necessary as preparation for the operating instruction and commissioning procedure sections.

**To cover topics such as -** description including attachments and their controlsbottom loading valve-high level shut off and test cock - manlids and vents contents gauge - dip stick - sampling and rapid draining.

#### IM 2.9 Operating instructions

To be read only at first, in preparation for carrying out the commissioning procedure.

**To cover such topics as -** loading from the depot - self loading - platform operation - engaging/ disengaging the pump - reeling out and rewind the hose reels - starting flow(to recirculate or fuel aircraft) - fuelling operations with a trailer/tank - stopping flow - depressurising the hoses - defuelling aircraft - use of emergency engine stops - use of the sampling cabinet and dump/recovery tank - use of the interlock override - etc.

# IM 2.10 Commissioning procedure

**To cover topics such as** - packing removal - installing (as applicable) nozzles, filter elements, fire extinguishers bonding reels or anything else such as lights, fuses and relays which may have been removed for safe keeping during shipment/transportation - loading - purging air from the fuelling pipework - purging air from the SPCV/ deadman valve- recirculating via each hose - checking /cleaning nozzle strainers - purging air from the defuel pipework - clearing of tank and filter sample / drain lines etc. Also it shall be cover in detail with block diagrams the procedure for re-commissioning after a major overhaul of the vehicle.

#### IM 3 System detail sections

These sections are needed to describe very clearly, details of the various systems as follows. For clarify, it is suggested that numbered items on circuit drawings also be given a letter prefix.

Where the systems interface, the diagrams shall so indicate and thus, the related or linked item will be easier to identify.

It is suggested that the following letter prefixes be used:-

- A Fuelling system e.g. A5 Meter, A17 Fuel sense pressure gauge.
- **B** Pneumatic system e.g. B17 Foot valve control, B9 Interlock

Override switch

- **C** Hydraulic system e.g. C23 Cylinder, C4 Flow control valve, reel
- D Electrical system e.g. D35 Pump tachometer, D12 1/S relay unit

E - Miscellaneous - e.g. E17 Drawbar coupling, E6 Pump speed control cable

Each of these sections shall include a clear circuit diagram, on large size paper (A3 folded) for clarity if necessary, with all components given a discreet item number such as C5, D23 etc. with any interfaces to other systems shown.

For example, the electrical circuit diagram will have most items marked with the prefix D but when electric interlock switches are used, there will also be a B item shown representing the solenoid actuated pilot valve for the brake system.

Where components can fall into two categories, it is suggested that the code letter to apply is that for the first diagram in which it appears.

For example, the pneumatic operator of a foot valve, code A, would also have a code A. When the same pneumatic operator was illustrated with other pneumatic B components, it would still be code A.

Similarly, a pneumatically operated pressure switch to activate a warning light would appear as code B in both pneumatic and electrical systems. Each section shall also include a table showing, for example, the following information:-

Item	Part No.	Description	Qty.	Location	Supplier
A20	N2005060010	Non return valve	01	Tank rear, right hand side defuel line	Northvale Korting

Where it is not feasible to describe the item location such that it could be easily found, then simple sketches or photographs shall be provided.

For wholly bought out/unmodified items, the **original manufacturer's part numbers** must be used. Where items have been purchased and modified or added to by the Refueller manufacturer to form a distinguishable separate assembly, then preferably, the separate part numbers shall be given. Where this is really not feasible, a new unique part number may be given and the Refueller manufacturer may be given and the Refueller manufacturer may be mentioned as the supplier.

# IM 3.1 Fuelling system A

**Comprising** - Diagrams of the fuelling circuit and operating panel. parts list, operating/functional descriptions of fuelling/defuelling, secondary pressure control system, depressurising etc.

Reference shall be made to the item numbers on the circuit and what occurs when each control is selected.

#### IM 3.2 Pneumatic System B

**Comprising -** A diagram of the pneumatic circuit including inter-connections with other systems, parts list, operating/ functional descriptions of pump selection, fuel/defuel selection, dead man control system (if pneumatic), air reference supply to the SPCV, brake interlock system, engine stop control system, trailer interlock and foot valve controls etc.

Reference shall be made to the item numbers on the circuit and what occurs in what sequence to what component, where air can go and does go under various circumstances.

#### IM 3.3 Hydraulic System C

**Comprising** - A diagram of the hydraulic circuit including, parts list, descriptive information on safety, cleanliness, the reservoir, pump, pressure relief and flow control system, hose rewind and elevating platform operations/controls. Reference shall be made to item numbers on the circuit and where the oil travels in each situation. There shall also be a section here, or under 'Trouble Shooting' per item IM 4.2 describing how to remedy a 'stuck up' platform and re-set the various flow controls. This may be necessary following injudicious opening of the platform cylinder outward flow control, allowing excess flow rate and triggering of the cylinder emergency fuses/ restrictors. In turn, this would cause the platform to stick in the up position or only descend exceptionally slowly.

# IM 3.4 Electrical system D

**Comprising** - A diagram of the electrical circuit including wire colours and interconnections with other systems, parts lists, operating/functional descriptions of operations lights, obstruction lamps, deadman system (if electrical), pump speed tachometer, pump/road drive warning lights, platform alarm, brake interlocks (if electrical switches), brake override warning light, battery isolator, alternator protection circuit etc.

#### IM 3.5 Miscellaneous items E

**Comprising** - Itemised parts list/location description etc. Components to be included with diagrams if necessary can include such things as pump speed controls, sampling cabinet, chain tensioners, hose reels guide rollers, trailer drawbar coupling, bonding reel, nozzle stowage assemblies/shrouds, scissors lift assembly, cab fire extinguisher, drive shaft modifications (gearbox to pump, pump to rear axle), recovery tank contents gauge, earthling/bonding lugs, tamper proof covers for adjusters, hydraulic drive coupling on the product pump extension, latch on bottom loading coupling interlock lever etc.

## IM 4 Maintenance sections

#### IM 4.1 Routine inspection and lubrication.

This part of the manual applies to the items and equipment installed by the Refueller manufacturer as opposed to the chassis / prime mover itself. Aspects covered shall include recommended **lubricants** and **schedules -** daily, weekly, monthly, 3 monthly, 6 monthly etc. as appropriate.

Typical details might be:-

Daily - check air reservoir drain

**Weekly** - check/top up hydraulic oil reservoir level , grease drawbar coupling pin, top up the pneumatic system lubricator and drain water, operate fuel/defuel selector and trailer foot valve switches to prevent seal stiction.

**Monthly** - Apply a few drops of oil to the drawbar actuating lever, platform gate hinges, air cylinder pivots pins, deck nozzle stowage cover hinges, bottom loading interference bar pivots. Apply grease to spring loaded catches. Check/top up oil level in the fuelling pump gearbox.

**3 monthly** - check /top up oil level in the bulk meter gearbox. Check/replace oil filter in hydraulic system Clean the pneumatic system filter elements. Lubricate the hose reel rewind chains.

**6 monthly** - change the oil in the fuelling pump gearbox.

# IM 4.2 Trouble shooting

Clearly it is not possible to cover every eventuality and difficulty which might be encountered in a complex system. Sections covering the fuelling, pneumatic, hydraulic, and electrical systems shall be good enough for users to educate themselves and decide what may be causing trouble. Nevertheless, the following major difficulties shall be addressed and suggestions made to investigate and remedy the situation.

- Brakes cannot be released.
- Interlock action to apply brakes slowly or not working.
- No fuel flow when in the fuelling mode.
- Flow rate unusually low in the fuelling mode.
- Release of the dead man handle does not stop flow or flow Stops too slowly.
- Release of dead man does not return pump speed to idle.
- No fuel flow when in the defuelling mode.
- No fuel flow when bottom loading.
- Elevating platform will not rise, stop rising or lower.
- Fuel pump will not engage or disengage or gears baulk.
- Reels will not rewind, lock or free-wheel out.

#### IM 4.3 Recommended spare parts

The bidder shall submit the following priced spare parts lists along with the bid.

- (1). To cover **normal requirements** for approximately 2 years operation, on a per unit basis.
- (2). To cover anticipated **major maintenance requirements** over a 5 year period, on a per unit basis.

# IM 4.4 Component servicing and repair

In this section, it will not be sufficient only to enclose manufacturers' general leaflets and information sheets.

In some cases, for the more simple assemblies, it will be sufficient to provide only the drawings covered by item IM 6 below.

In other cases, complete and current information will be required for such items as:-

Bulk meter - Fuel pump - Hose reel swivels

Fuelling nozzles and regulators - Secondary pressure control/deadman valve

Tank foot valve - Bottom loading valve and high level sensor – Filter Water Separator element changing - Fuel/defuel valve - Differential pressure gauge -Hydraulic pump and motors

### IM 5 Test certificates

Certificates shall be provided for the tank pressure test, bulk meter calibration, the 5 bar general circuit pressure test, the 20 bar system test downstream of the closed line isolating valves.

In addition, the manufacturer shall enclose a copy of his own test schedule/results.

A copy of a check list for verifying all the chassis / prime mover options and type variants specified on the purchase order shall be provided for easy reference.

#### IM 6 Illustrated parts list and drawings

General arrangement, sub-assembly and any useful detail drawings or descriptive sketches, which are not included elsewhere, shall be placed here, together with an index. The aim shall be to provide as much information as possible in the form of an "illustrated catalogue" of components, with readily available (not necessarily specially created) exploded views and parts lists so that locally, equipment can be dismantled/repaired if necessary without specialised overhaul instructions to hand.

As necessary, the drawings shall be marked with the item number from the detailed parts list and placed in sections A, B, C and E. Full size drawings shall be carefully folded and kept in plastic pockets, together with any other booklets and leaflets and leaflets covering complete units, such as pressure control equipment, meters, etc

#### IM 7. TRAINING OF PERSONNEL

The successful tender will be responsible for meeting the cost and arranging the following training, including course notes. The training will have to take place at the manufacture premises. The total cost related to same should be born by the tender.

#### **Operational and Routine Maintenance Training**

#### a. Instructor/Operator

A total number of **four (04)** AFQC personnel (Bowser Operator) tradesmen are to be trained as instructor / Operator, to the level where they competent to instruct other other AFQC personnel (Bowser Operator) tradesmen in the safe and efficient operation , inspection and daily maintenance.

#### b. Maintenance Training

A total number of **two (02) MT engineering Staff** to be trained to the level where they are competent to carry out standard routine preventive maintenance, fault finding, operation and testing of vehicle tasks.

#### c. Specialized Training

The successful bidder will be responsible for training of **04 personnel** (**02 AFQC operators and 02 MT Technicians**) to be fully competent to handle major repairs and servicing tasks related to the vehicle chassis and fuelling equipment & accessories fitted to this specialist vehicle.

# IM 8. INTERIM INSPECTION

The successful bidder will be responsible to arrange an interim inspection on Chassis and all the components prior to the assembling of fuelling equipment to the main chassis at manufactures premise for **two officers** (one logistics and one engineering) and **four airmen** (Three AFQC and One MTM) nominated by the Commander of the Air Force. All the expenses, including return air tickets inland transport, food and accommodation to be borne by the bidder.

# FINAL INSPECTION

The successful bidder will be responsible to arrange final inspection on total function after assembling fuelling equipment to the main chassis, before painting at manufactures premise for **three Officers** (Two logistics and one engineering) and **four airmen** (Three AFQC and One MTM) nominated by the Commander of the Air Force. All the expenses, including return air tickets inland transport, food and accommodation to be borne by the bidder.

# IM9. <u>WARRANTY</u>

a. Period of warranty for vehicle and fuelling pump and accessories should be minimum warranty of 04 years from the date of acceptance by SLAF with at least 60,000Km mileage warranty.

- b. Components that come under warranty to be stated.
- c. Indicate the number of free servicing provided by the local agent.

# IM 9.1 <u>DELIVERY</u>

d.

a. Delivery period to be indicated.

b. Bidder is responsible for register the Aircraft at the department of motor traffic in Sri Lanka under the name of **"The Commander of the Air Force"** and to delivered with the civil number plates, Registration Cerificate at RMV with all other necessary documents.

c. Vehicles to be delivered to the supply and maintenance depot at SLAF Base Katunayake on FOC basis.

#### IM10. <u>BIDDER IS TO BE FURNISHED THE FOLLOWING DOCUMENTS</u>

a. Name of Aircraft Refueller Manufacturer and Country of Origin and country of manufacture.

b. Company profile of the Aircraft Refueller Manufacturer & Audited financial

statements for the last three (03) years.

c. Detailed technical specification of the Aircraft Refueller model offered iv. covering chassis with the relevant detailed technical catalogue for the offered chassis model and detailed technical catalogue for all major components refuelling module.

d. Certificate from the Manufacturer that the Aircraft Refueller model offered is of currently in manufacture and availability of spares for a minimum period of 10 years.

e. Name and address of the Accredited Local Agent for the Aircraft Refueller.

f. Registration certificate of Accredited Local Agent issued by Registrar of Public Contract in terms of the Public Contract Act No. 3 of 1987 on submission of Form PCA3.

g. Name and address of the Accredited Local Agent of the Chassis manufacturer along with copy of letter of Authorization issued by the Chassis Manufacturer and valid copy of Certificate of Registration issued by the Registrar of Companies in Sri Lanka.

h. The Chassis brand offered shall be essentially represented by an Accredited Local Agent in Sri Lanka who is capable of providing warranty services/repairs as well as after sales services & spare part requirements. A Commitment Letter from the Accredited Local Agent of the Chassis Manufacturer declaring the agreement for providing after sales services aforesaid & supply of spares for the next 10 years period, shall be forwarded along with the offer.

j. The Chassis offered shall comply with ADR regulation (European Agreement Concerning the International Carriage of Dangerous Good by Road). A copy of the certificate of approval shall be submitted along with the Bid.

k. Inspection / Performance Testing criteria of the Aircraft Refueller and agreement to furnish test certificates on delivery of the Aircraft Refueller.

1. Past performance – Past supply records of Aircraft Refuellers on commercial use in the International Market for the last 10 years,

m. Specify the conditions of warranty offered on time/distance basis for the Chassis and Aircraft Refueller module separately.

n. Indicate all the breakdowns and / or repairs within the warranty period can be undertaken on urgent basis through his Local Agent. Therefore, the Local Agent shall be well equipped, capable of handling repairs of Chassis Engine and Aircraft Refueller module and such details shall be attached to the offer.

p. Supplier has to provide a list of recommended spare parts with prices separately, for Chassis & Aircraft Refueller module for 02 years operations.

q. A dimensional drawing showing key dimensions of the layout of the entire Aircraft Refueller. It shall include dimensions of the operational panel, height & width of the Aircraft Refueller and load distribution for the axels of the aircraft refueller with the calculations.

r. Flow Schematic Diagrams of Fuelling system, Hydraulic system, Pneumatic systems and Electrical Wiring.

s. The bidder is required to submit and independent audit report from a reputed institute (Third Party) with confirms standards and specifications given in 1.1.1 table are fulfilled /achieved

#### V. Inspections, Training and Tests

The following inspections and tests shall be performed, Inspection

a.	Inspection authority	-	Sri Lanka Air Force

- b. Place of Inspection At Manufacture's premises
- c. Training of personnel At Manufacture's premises
- d. The Supplier will provide all administrative facilities and all financial requirements (Air tickets, food and accommodation etc.) to the trainees and inspectors at the time of inspection at its premises.
- e. It shall be accepted by the buyer that the vehicles inspected would be from the order placed by the buyer and inspected vehicle/s would be shipped to Sri Lanka with the mileage it incurs during the said inspection and no separate vehicle would be offered for inspection and/or road test.

SECTION	CLAUSE	ТЕХТ
DEFINITIONS	1 Definitions	1.1 The following words and expressions shall
DEFINITIOND	1. Definitions	have the meanings hereby assigned to them:
		(a) "Contract" means the Contract Agreement
		entered into between the Purchaser and the
		Supplier together with the Contract Documents
		referred to therein including all attachments
		appendices and all documents incorporated by
		reference therein
		(b) "Contract Documents" means the documents
		listed in the Contract Agreement including any
		amendments thereto
		(c) "Contract Price" means the price payable to
		the Supplier as specified in the Contract
		Agreement subject to such additions and
		adjustments thereto or deductions therefrom as
		may be made pursuant to the Contract
		(d) "Day" means calendar day.
		(e) "Completion" means the fulfillment of the
		supply of Goods to the destination specified and
		completion of the Related Services by the
		Supplier in accordance with the terms and
		conditions set forth in the Contract.
		(f) "CC" means the Conditions of Contract.
		(g) "Goods" means 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) "Purchaser" means the entity purchasing the
		Goods and Related Services, as specified in the
		Contract Data.
		(i) "Related Services" means the services
		incidental to the supply of the goods, such as
		insurance, installation, training and initial
		maintenance and other such obligations of the
		Supplier under the Contract.
		(j) "Subcontractor" means any natural person,
		private or government entity, or a combination
		of the above, to whom any part of the Goods to
		be supplied or execution of any part of the
		Related Services is subcontracted by the
		Supplier.
		(k) "Supplier" means 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.

# Section VI Conditions of Contract

		(1) "The Project Site," where applicable, means
		the place named in the Contract Data.
Contract	2. Contract	2.1 Subject to the order of precedence set forth
Documents	Documents	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.
Fraud and	3. Fraud and	3.1 The Government of Sri Lanka requires the
Corruption	Corruption	Purchaser as well as bidders, suppliers,
		contractors, and consultants to observe the
		ingliest standard of ethics during the
		producement and execution of such contracts. In pursuit of this policy:
		(i) "corrupt practice" means offering giving
		receiving or soliciting directly or indirectly of
		anything of value to influence the action of a
		public official in the procurement process or in
		contract execution;
		(ii) "fraudulent practice" means a
		misrepresentation or omission of facts in order
		to influence a procurement process or the
		execution of a contract;
		(111) "collusive practice" means a scheme or
		arrangement between two or more bidders, with
		or without the knowledge of the Purchaser to
		levels: and
		(iv) "coercive practice" means harming or
		threatening to harm, directly or indirectly.
		persons or their property to influence their
		participation in the procurement process or
		affect the execution of a contract.
Interpretation	4. Interpretation	4.1 If the context so requires it, singular means
		plural and vice versa.
		4.2 Entire Agreement: The Contract constitutes
		the entire agreement between the Purchaser and
		the Supplier and supersedes all
		(whether written or oral) of the parties with
		respect thereto made prior to the date of
		Contract
		4.3 Amendment: No amendment or other
		variation of the Contract shall be valid unless it
		is in writing, is dated, expressly refers to the
		Contract, and is signed by a duly authorized
		representative of each party thereto.
		4.4 Severability: If any provision or condition of
		the Contract is prohibited or rendered invalid or
		unenforceable, such prohibition, invalidity or

		unenforceability shall not affect the validity or
		enforceability of any other provisions and
		conditions of the Contract
Language	5 Language	5.1 The Contract as well as all correspondence
Danguage	5. Language	and documents relating to the Contract
		exchanged by the Supplier and the Durchaser
		shall be written in English language Supporting
		documents and printed literature that are part of
		the Contract may be in another language
		provided they are accompanied by an accurate
		translation of the relevant passages in the
		language specified in which case for purposes
		of interpretation of the Contract this translation
		shall govern
		5.2 The Supplier shall hear all costs of
		translation to the governing language and all
		risks of the accuracy of such translation for
		documents provided by the Supplier
Loint Venture	6 Joint Venture	6.1 If the Supplier is a joint venture, consortium
Consortium or	Consortium or	or association all of the parties shall be jointly
Association	Association	and severally liable to the Purchaser for the
Association	rissociation	fulfillment of the provisions of the Contract and
		shall designate one party to act as a leader with
		authority to hind 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.
Eligibility	7. Eligibility	7.1 All goods supplied under this contract shall
8	8 5	be complied with applicable standards stipulated
		by the Sri Lanka Standards Institute. In the
		absence of such standards, the Goods supplied
		shall be complied to other internationally
		accepted standards, such as British Standards.
Notices	8. Notices	8.1 Any notice given by one party to the other
		pursuant to the Contract shall be in writing to the
		address specified in the Contract Data. The term
		"in writing" means communicated in written
		form with proof of receipt.
		8.2 A notice shall be effective when delivered or
		on the notice's effective date, whichever is later.
Governing Law	9. Governing	9.1 The Contract shall be governed by and
	Law	interpreted in accordance with the laws of the
		Democratic Socialist Republic of Sri Lanka.
Settlement of	10. Settlement of	10.1 The Purchaser and the Supplier shall make
Disputes	Disputes	every effort to resolve amicably by direct
		informal negotiation any disagreement or
		dispute arising between them under or in
		connection with the Contract.

		10.2 If, after twenty-eight (28) 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
		Coode under the Contract Arbitration
		boods under the Contract. Arbitration
		with the Arbitration Act No:11 of 1995.
		10.3 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.
Scope of Supply	11. Scope of	11.1 The Goods and Related Services to be
	Supply	supplied shall be as specified in the Schedule of
		Requirements.
<b>Delivery and</b>	12. Delivery and	12.1 Subject to CC Sub-Clause 32.1, the
Documents	Documents	Delivery of the Goods and Completion of the
		Related Services shall be in accordance with the
		Delivery and Completion Schedule specified in
		the Schedule of Requirements. Where
		applicable the details of shipping and other
		documents to be furnished by the Supplier are
		· 11
		specified in the Contract Data.
Supplier's	13. Supplier's	specified in the Contract Data. 13.1 The Supplier shall supply all the Goods and
Supplier's Responsibilities	13. Supplier's Responsibilities	specified in the Contract Data. 13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of
Supplier's Responsibilities	13. Supplier's Responsibilities	specified in the Contract Data. 13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and
Supplier's Responsibilities	13. Supplier's Responsibilities	specified in the Contract Data. 13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per
Supplier's Responsibilities	13. Supplier's Responsibilities	specified in the Contract Data. 13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.
Supplier's Responsibilities Contract Price	<ul><li>13. Supplier's</li><li>Responsibilities</li><li>14. Contract</li></ul>	<ul> <li>specified in the Contract Data.</li> <li>13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.</li> <li>14.1 Prices charged by the Supplier for the</li> </ul>
Supplier's Responsibilities Contract Price	<ul><li>13. Supplier's Responsibilities</li><li>14. Contract Price</li></ul>	<ul> <li>specified in the Contract Data.</li> <li>13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.</li> <li>14.1 Prices charged by the Supplier for the Goods supplied and the Related Services</li> </ul>
Supplier's Responsibilities Contract Price	<ul><li>13. Supplier's Responsibilities</li><li>14. Contract Price</li></ul>	<ul> <li>specified in the Contract Data.</li> <li>13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.</li> <li>14.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not exceed</li> </ul>
Supplier's Responsibilities Contract Price	<ul><li>13. Supplier's Responsibilities</li><li>14. Contract Price</li></ul>	<ul> <li>specified in the Contract Data.</li> <li>13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.</li> <li>14.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not exceed the Contract Price.</li> </ul>
Supplier's Responsibilities Contract Price Terms of	<ul> <li>13. Supplier's Responsibilities</li> <li>14. Contract Price</li> <li>15. Terms of</li> </ul>	<ul> <li>specified in the Contract Data.</li> <li>13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.</li> <li>14.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not exceed the Contract Price.</li> <li>15.1 The Contract Price, shall be paid as</li> </ul>
Supplier's Responsibilities Contract Price Terms of Payment	<ul> <li>13. Supplier's Responsibilities</li> <li>14. Contract Price</li> <li>15. Terms of Payment</li> </ul>	<ul> <li>specified in the Contract Data.</li> <li>13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.</li> <li>14.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not exceed the Contract Price.</li> <li>15.1 The Contract Price, shall be paid as specified in the Contract Data.</li> </ul>
Supplier's Responsibilities Contract Price Terms of Payment	<ul> <li>13. Supplier's Responsibilities</li> <li>14. Contract Price</li> <li>15. Terms of Payment</li> </ul>	<ul> <li>specified in the Contract Data.</li> <li>13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.</li> <li>14.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not exceed the Contract Price.</li> <li>15.1 The Contract Price, shall be paid as specified in the Contract Data.</li> <li>15.2 The Supplier's request for payment shall be</li> </ul>
Supplier's Responsibilities Contract Price Terms of Payment	<ul> <li>13. Supplier's Responsibilities</li> <li>14. Contract Price</li> <li>15. Terms of Payment</li> </ul>	<ul> <li>specified in the Contract Data.</li> <li>13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.</li> <li>14.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not exceed the Contract Price.</li> <li>15.1 The Contract Price, shall be paid as specified in the <b>Contract Data</b>.</li> <li>15.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied</li> </ul>
Supplier's Responsibilities Contract Price Terms of Payment	<ul> <li>13. Supplier's Responsibilities</li> <li>14. Contract Price</li> <li>15. Terms of Payment</li> </ul>	<ul> <li>specified in the Contract Data.</li> <li>13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with CC Clause 11, and the Delivery and Completion Schedule, as per CC Clause 12.</li> <li>14.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not exceed the Contract Price.</li> <li>15.1 The Contract Price, shall be paid as specified in the <b>Contract Data</b>.</li> <li>15.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the</li> </ul>

		<ul> <li>performed, and by the documents submitted pursuant to CC Clause 12 and upon fulfillment of all other obligations stipulated in the Contract.</li> <li>15.3 Payments shall be made promptly by the Purchaser, but in no case later than 45 days after submission of an invoice or request for payment</li> </ul>
		by the Supplier, and after the Purchaser has accepted it.
Taxes and Duties	16. Taxes and Duties	16.1 The Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
Performance Security	17. Performance Security	<ul> <li>17.1 If required as specified in the Contract</li> <li>Data, the Supplier shall, within fourteen (14)</li> <li>days of the notification of contract award,</li> <li>provide a performance security of Ten percent</li> <li>(10%) of the Contract Price for the performance</li> <li>of the Contract.</li> <li>17.2 The proceeds of the Performance Security</li> <li>shall be payable to the Purchaser as</li> <li>compensation for any loss resulting from the</li> <li>Supplier's failure to complete its obligations</li> <li>under the Contract.</li> <li>17.3 As specified in the Contract Data, the</li> <li>Performance Security, if required, shall be in Sri</li> <li>Lanka Rupees and shall be in the format</li> <li>stipulated by the Purchaser in the Contract</li> <li>Data, or in another format acceptable to the</li> <li>Purchaser.</li> <li>17.4 The Performance Security shall be</li> <li>discharged by the Purchaser and returned to the</li> <li>Supplier not later than twenty-eight (28) days</li> <li>following the date of Completion of the</li> <li>Supplier's performance obligations under the</li> </ul>
Copyright	18. Copyright	18.1 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.
Confidential Information	19. Confidential Information	19.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by

		the other party hereto in connection with the
		Contract, whether such information has been
		furnished prior to, during or following
		completion or termination of the Contract
		Notwithstanding the above the Supplier may
		furnish to its Subcontractor such decuments
		furnish to its Subcontractor such documents,
		data, and other information it receives from the
		Purchaser to the extent required for the
		Subcontractor to perform its work under the
		Contract, in which event the Supplier shall
		obtain from such Subcontractor an undertaking
		of confidentiality similar to that imposed on the
		Supplier under CC Clause 19.
		19.7 The Purchaser shall not use such
		documents data and other information received
		from the Supplier for any purposes unrelated to
		the contract Similarly the Supplier shall not use
		une contract. Similarly, the Supplier shall not use
		such documents, data, and other information
		received from the Purchaser for any purpose
		other than the performance of the Contract.
		19.3 The above provisions of CC Clause 19 shall
		not in any way modify any undertaking of
		confidentiality given by either of the parties
		hereto prior to the date of the Contract in respect
		of the Supply or any part thereof.
		19.4 The provisions of CC Clause 19 shall
		survive completion or termination. for whatever
		reason of the Contract
Subcontracting	20	20.1 The Supplier shall notify the Purchaser in
Subcontracting	Subcontracting	writing of all subcontracts awarded under the
	Subcontracting	Contract if not already specified in the hid Such
		Contract in not alleady specified in the bld. Such
		notification, in the original bid of later shall not
		relieve the Supplier from any of its obligations,
		duties, responsibilities, or liability under the
		Contract.
		20.2 Subcontracts shall comply with the
		provisions of CC Clauses 3 and 7.
Specifications	21. Specifications	21.1 Technical Specifications and Drawings:
and Standards	and Standards	(a) The Goods and Related Services supplied
		under this Contract shall conform to the
		technical specifications and standards
		mentioned in Section V, Schedule of
		Requirements and, when no applicable standard
		is mentioned, the standard shall be equivalent or
		superior to the official standards whose
		application is appropriate to the Goods' country
		of origin.
		(b) The Supplier shall be entitled to disclaim
		responsibility for any design data drawing

Desking and	22. Decking and	<ul> <li>modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.</li> <li>(c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with CC Clause 32.</li> </ul>
Documents	Documents	required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract
Insurance	23. Insurance	23.1 Unless otherwise specified in the <b>Contract</b> <b>Data</b> , the Goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery.
Transportation	24. Transportation	24.1 Unless otherwise specified in the <b>Contract Data</b> , responsibility for arranging transportation of the Goods shall be a responsibility of the supplier.
Inspections and Tests	25. Inspections and Tests	<ul> <li>25.1 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 in the Contract Data.</li> <li>25.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place as specified in the Contract Data. Subject to CC Sub-Clause 25.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.</li> <li>25.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in CC Sub-Clause 25.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.</li> <li>25.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a</li> </ul>

		reasonable advance notice, including the place
		and time, to the Purchaser. The Supplier shall
		obtain from any relevant third party or
		obtain from any relevant unity party of
		manufacturer any necessary permission or
		consent to enable the Purchaser or its designated
		representative to attend the test and/or
		increasion
		25.5 The Purchaser may require the Supplier to
		carry out any test and/or inspection not required
		by the Contract but deemed necessary to verify
		that the characteristics and performance of the
		that the characteristics and performance of the
		Goods comply with the technical specifications
		codes and standards under the Contract,
		provided that the Supplier's reasonable costs
		and expenses incurred in the carrying out of
		and expenses incurred in the carrying out of
		such test and/or inspection shall be added to the
		Contract Price. Further, if such test and/or
		inspection impedes the progress of
		manufacturing and/or the Supplier's
		manufacturing and/or the Supplier's
		performance of its other obligations under the
		Contract, due allowance will be made in respect
		of the Delivery Dates and Completion Dates and
		the other obligations so affected
		25 6 The Supplier shall provide the Durcheson
		25.6 The Supplier shall provide the Purchaser
		with a report of the results of any such test
		and/or inspection.
		25.7 The Purchaser may reject any Goods or any
		part thereof that fail to page any test and/or
		part thereof that fail to pass any test and/of
		inspection or do not conform to the
		specifications. The Supplier shall either rectify
		or replace such rejected Goods or parts thereof
		or make alterations necessary to meet the
		on make alterations necessary to meet the
		specifications at no cost to the Purchaser, and
		shall repeat the test and/or inspection, at no cost
		to the Purchaser, upon giving a notice pursuant
		to CC Sub-Clause 25.4
		25.8 The Supplier agrees that neither the
		25.8 The Supplier agrees that hertifer the
		execution of a test and/or inspection of the
		Goods or any part thereof, nor the attendance by
		the Purchaser or its representative, nor the issue
		of any report pursuant to CC Sub-Clause 25.6
		shall release the Court in form
		snah release the Supplier from any warranties or
		other obligations under the Contract.
Liquidated	26. Liquidated	26.1 Except as provided under CC Clause 31, if
Damages	Damages	the Supplier fails to deliver any or all of the
- 41114900	2 41114500	Goods by the Date(s) of delivery or perform the
		Doods by the Date(s) of derivery of perform the
		Related Services within the period specified in
		the Contract, the Purchaser may without
		prejudice to all its other remedies under the
		Contract, deduct from the Contract Price as
		contract, accord itom the contract inter, as

		liquidated damages, a sum equivalent to the percentage specified in the Contract Data of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the
		once the maximum is reached, the Purchaser may terminate the Contract pursuant to CC Clause 34.
Warranty	27. Warranty	<ul> <li>27.1 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.</li> <li>27.2 Subject to CC Sub-Clause 21.1(b), 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 the country of final destination.</li> <li>27.3 Unless otherwise specified in the Contract Data, 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 Contract Data.</li> <li>27.4 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.</li> <li>27.5 Upon receipt of such notice, the Supplier shall, within the period specified in the Contract Data, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.</li> <li>27.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the Contract Data, 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</li> </ul>
	20 D	Supplier under the Contract.
Patent Indemnity	28. Patent Indemnity	28.1 The Supplier shall, subject to the Purchaser's compliance with CC Sub-Clause 28.2, indemnify and hold harmless the

	Purchaser and its employees and officers from
	and against any and all suits actions or
	administrative proceedings claims demands
	administrative proceedings, claims, demands,
	losses, damages, costs, and expenses of any
	nature, including attorney's fees and expenses,
	which the Purchaser may suffer as a result of any
	infringement or alleged infringement of any
	patent, utility model, registered design,
	trademark, copyright, or other intellectual
	property right registered or otherwise existing at
	the date of the Contract by reason of:
	(a) the installation of the Coards has the Complian
	(a) the installation of the Goods by the Supplier
	or the use of the Goods in the country where the
	Site is located; and
	(b) the sale in any country of the products
	produced by the Goods. Such indemnity shall
	not cover any use of the Goods or any part
	thereof other than for the purpose indicated by
	or to be reasonably inferred from the Contract
	neither any infringement resulting from the use
	of the Coode or any part thereof or any products
	of the Goods of any part thereof, of any products
	produced thereby in association or combination
	with any other equipment, plant, or materials not
	supplied by the Supplier, pursuant to the
	Contract.
	28.2 If any proceedings are brought or any claim
	is made against the Purchaser arising out of the
	matters referred to in CC Sub-Clause 28.1, 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
	aloim
	28.3 If the Supplier fails to notify the Purchaser
	within twenty-eight (28) days after receipt of
	such notice that it intends to conduct any such
	proceedings or claim, then the Purchaser shall
	be free to conduct the same on its own behalf.
	28.4 The Purchaser shall, at the Supplier's
	request, afford all available assistance to the
	Supplier in conducting such proceedings or
	claim and shall be raimbursed by the Supplier
	for all reasonable expenses incurred in so doing
	20 5 The Durchasser shall indemnify and 1-14
	20.5 The Purchaser shall indemnity and hold
	narmless the Supplier and its employees,
	officers, and Subcontractors 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 Supplier 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 arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.
Limitation of Liability	29. Limitation of Liability	<ul> <li>29.1 Except in cases of criminal negligence or willful misconduct,</li> <li>(a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser and</li> <li>(b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the purchaser with respect to patent infringement.</li> </ul>
Change in Laws and Regulations	30. Change in Laws and Regulations	30.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in Sri Lanka that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with CC Clause 14.
Force Majeure	31. Force Majeure	31.1 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
		31.2 For purposes of this Clause "Force
		Majouro?' magne on overt on situation havend
		the control of the Supplier that is not
		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.
		31.3 If a Force Majeure situation arises, the
		Supplier shall promptly notify the Purchaser in
		writing of such condition and the cause thereof.
		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
Change Orders	32 Change	32.1 The Purchaser may at any time order the
and Contract	Orders and	Supplier through notice in accordance CC
A mendments	Contract	Clause 8 to make changes within the general
7 michailentis	Amendments	scope of the Contract in any one or more of the
	Amendinents	following:
		(a) drawings designs or specifications where
		(a) drawings, designs, or specifications, where
		be specifically manufactured for the Durchesory
		(b) the method of shipmont or packing:
		(b) the file of delivery and
		(c) the place of derivery, and
		(d) the Related Services to be provided by the
		Supplier.
		32.2 If any such change causes an increase or
		decrease in the cost of, or the time required for,
		the Supplier's performance of any provisions
		under the Contract, an equitable adjustment
		shall be made in the Contract Price or in the
		Delivery/Completion Schedule, or both, and the
		Contract shall accordingly be amended. Any
		claims by the Supplier for adjustment under this
		Clause must be asserted within twenty-eight
		(28) days from the date of the Supplier's receipt
		of the Purchaser's change order.
		32.3 Prices to be charged by the Supplier for any
		Related Services that might be needed but which
		were not included in the Contract shall be agreed
		upon in advance by the parties and shall not
		exceed the prevailing rates charged to other
		parties by the Supplier for similar services.

		32.4 Subject to the above no variation in or
		modification of the terms of the Contract shall
		he made except by written amendment signed by
		the parties
Extensions of	22 Extensions of	22.1 If at any time during performance of the
Time	Time	Contract the Supplier or its subcontractors
1 mic		should encounter conditions impeding timely
		delivery of the Goods or completion of Polated
		Services pursuant to CC Clause 12 the Supplier
		shall promotive notify the Dyrahoson in writing of
		the delay its likely duration and its says As
		the delay, its likely duration, and its cause. As
		soon as practicable after receipt of the Supplier's
		notice, the Fulctiaser shall evaluate the Studion
		time for performance in which case the
		extension shall be ratified by the parties by
		amendment of the Contract
		33.2 Except in case of Force Majeure as
		provided under CC Clause 31 a delay by the
		Supplier in the performance of its Delivery and
		Completion obligations shall render the Supplier
		liable to the imposition of liquidated damages
		pursuant to CC Clause 26, unless an extension
		of time is agreed upon, pursuant to CC Sub-
		Clause 33.1.
Termination	34. Termination	34.1 Termination for Default:
Termination	34. Termination	<ul><li>34.1 Termination for Default:</li><li>(a) The Purchaser, without prejudice to any</li></ul>
Termination	34. Termination	<ul><li>34.1 Termination for Default:</li><li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written</li></ul>
Termination	34. Termination	<ul><li>34.1 Termination for Default:</li><li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may</li></ul>
Termination	34. Termination	<ul><li>34.1 Termination for Default:</li><li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li></ul>
Termination	34. Termination	<ul><li>34.1 Termination for Default:</li><li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li><li>(i) if the Supplier fails to deliver any or all of the</li></ul>
Termination	34. Termination	<ul><li>34.1 Termination for Default:</li><li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li><li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the</li></ul>
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Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> </ul>
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Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> <li>(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> <li>(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> <li>(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.</li> <li>(b) In the event the Purchaser terminates the Contract.</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> <li>(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.</li> <li>(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to CC</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> <li>(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.</li> <li>(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to CC Clause 34.1(a), the Purchaser may procure, upon</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> <li>(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.</li> <li>(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to CC Clause 34.1(a), the Purchaser may procure, upon such terms and in such manner as it deems</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> <li>(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.</li> <li>(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to CC Clause 34.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> <li>(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.</li> <li>(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to CC Clause 34.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier of the Supplier of the Supplier of the Supplier of the Supplier fails to perform the Supplier fails to perform the Supplier of the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> <li>(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.</li> <li>(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to CC Clause 34.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any</li> </ul>
Termination	34. Termination	<ul> <li>34.1 Termination for Default:</li> <li>(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:</li> <li>(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to CC Clause 33;</li> <li>(ii) if the Supplier fails to perform any other obligation under the Contract; or</li> <li>(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in CC Clause 3, in competing for or in executing the Contract.</li> <li>(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to CC Clause 34.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any additional costs for such similar Goods or Related Services for any</li></ul>
		and in the second
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		continue performance of the Contract to the
		extent not terminated.
		34.2 Termination for Insolvency:
		(a) The Purchaser may at any time terminate the
		Contract by giving notice to the Supplier if the
		Supplier becomes bankrupt or otherwise
		insolvent. In such event, termination will be
		without compensation to the Supplier, provided
		that such termination will not prejudice or affect
		any right of action or remedy that has accrued or
		will accrue thereafter to the Durchaser
		24.2 Termination for Convenience:
		54.5 Termination for Convenience.
		(a) The Purchaser, by nonce sent to the Supplier,
		may terminate the Contract, in whole of in part,
		at any time for its convenience. 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.
		(b) The Goods that are complete and ready for
		shipment within twenty-eight (28) 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:
		(i) to have any portion completed and delivered
		at the Contract terms and prices; and/or
		(ii) to cancel the remainder and pay to the
		Supplier an agreed amount for partially
		completed Goods and Related Services and for
		materials and parts previously produced by the
		Supplier
Assignment	35 Assignment	35.1 Neither the Durchaser nor the Supplier shall
17991211110110	55. Assignment	assign in whole or in part their
		assign, in whole of in part, then

### **SECTION VII**

# **CONTRACT DATA**

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

CLAUSE	GENERAL		
CC 1.1(i)	The Purchaser is Sri Lanka Air Force.		
CC 1.1(m)	The Project Site(s)/Final Destination(s) is Sri Lanka Air Force Base		
	Katunayake		
CC 8.1	For notices, the Purchaser's address shall be:		
	Chief Procurement Officer		
	Air Force Headquarters		
	P.O Box 594, Defence Headquarters Complex		
	Sri Jayewardenepura, Kotte		
	Sri Lanka.		
	<b>Tel</b> : +94 112 328850/ 2441553		
	E-mail: <u>lquote@slaf.gov.lk</u>		
CC 12.1	Details of Shipping and other Documents to be furnished by the Supplier are		
	For Local Contract		
	i. Original Invoice (This should be prepared in accordance with the		
	details given in the SLAF Order Form – Any disparity between the order		
	form and your invoice may cause rejection of your invoice and delays in the		
	payment process)		
	ii. A copy of the SLAF Order Form		
	iii. Duly Completed and signed F 666 s (F 666 is an SLAF document		
	that must be submitted along with your invoice)		
	iv. SLAF Convoy Note (this should be collected from Collection and		
	Clearance Section Sri Lanka Air Force Station Colombo on Iel. 0112-		
	441044).		
	v. Any other document such as warranty Cards, Manuals etc which are		
	Tequired for acceptance of the goods.		
CC 15.1	The method and conditions of payment to be made to the Supplier under this		
	Contract shall be as follows:		
	A: For Goods offered within Sri Lanka		
	submission of the invoice along with duly completed E 666s and copy of the		
	SLAE Order Form and after the SLAE has accepted it whichever occurs		
	SLAP Order Portin and after the SLAP has accepted it, whichever occurs		
	As stated above, the following documents are required for the payment:		
	The stated above, the following documents are required for the phyllicit.		
	i. Original Invoice (This should be prepared in accordance with the		
	details given in the SLAF Order Form)		
	ii. A copy of SLAF Order Form		
	iii. Duly Completed and signed F 666 s (F 666 is an SLAF document		
	that must be submitted along with your invoice)		

in Warmanty Cartificate (if applicable)
iv. warranty Certificate (ii applicable)
Advance payment may be released against an advance payment bank guarantee by the SLAF on request of the bidder up to a maximum of 30% of the total contract value through the Letter of Credit. The guarantee shall remain valid till final acceptance of the goods.
B: For Goods offered in Foreign Currency
The payment may be effected on <b>LETTER OF CREDIT</b> basis as required, which is paid on 40% (on presentation of documents) 60% (on receipt and acceptance) basis for the payment of total invoice value. If any local SELLER becomes eligible to supply the component(s)/item(s) the payments will be settled after acceptance of component(s)/item(s) to Sri Lanka Air Force.
The LETTER OF CREDIT for the value of the total cost of the component(s)/item(s) is to be established by the SERVICE RECIPIENT in a form of an irrevocable unconfirmed at sight Letter of Credit opened in favour of the SELLER. The Letter of Credit shall be issued by People's Bank, and established with the agents of the People's Bank in the country of the SELLER and advised through SELLER's bank nominated by the SELLER. If confirmation insisted by the SELLER, Confirmation charges shall be at the SELLER's cost.
<b>40%</b> of the total cost of the component(s)/item(s) shall be paid to the SELLER at sight upon presentation of the following documents (in English Language) stipulated under the LETTER OF CREDIT and provided that the documents so prescribed are in conformity with this Contract.
<ul> <li>a. Commercial Invoice in Three (3) Originals for the amount of 40% value of the total cost of the item(s) /component(s).</li> <li>b. Clean Bill of Lading/Airway Bill.</li> <li>c. Packing List.</li> <li>d. Insurance certificates</li> <li>e. Certificate of Compliances (<i>if applicable</i>).</li> <li>f. Certificate of Country of origin</li> <li>g. Warranty Certificate (<i>if applicable</i>).</li> </ul>
60% of the total cost of the component(s)/item(s) shall be paid to the SELLER after completion of the final acceptance in Sri Lanka at Sri Lanka Air Force Base Katunayake and upon presentation of the following documents stipulated under the LETTER OF CREDIT including Certificate of Acceptance issued by the SLAF.
<ul> <li>a. Commercial Invoice in Three (3) Originals for the amount of 60% value of the total cost of the item(s) /component(s).</li> <li>b. Final Acceptance Certificate signed and issued by the Sri Lanka Air Force</li> </ul>

CC 17.1	A Performance Security shall be (10%) of the contract value.				
CC 25.1	INTERIM INSPECTION The successful bidder will be responsible to arrange an interim inspection on Chassis and all the components prior to the assembling of fuelling equipment to the main chassis at manufactures premise for two officers (one logistics and one engineering ) and four airmen ( Three AFQC and One MTM ) nominated by the Commander of the Air Force. All the expenses, including return air tickets inland transport, food and accommodation to be borne by the bidder. <u>FINAL INSPECTION</u> The successful bidder will be responsible to arrange final inspection on total function after assembling fuelling equipment to the main chassis, before painting at manufactures premise for three Officers (Two logistics and one engineering) and four airmen ( Three AFQC and One MTM) nominated by the Commander of the Air Force. All the expenses, including return air tickets inland transport, food and accommodation to be borne by the bidder.				
	The following inspections and tests shall be performed, <u>Inspection</u>				
	a. Inspection authority - Sri Lanka Air Force				
	b. Place of Inspection - At Manufacture's premises				
	c. Training of personnel - At Manufacture's premises				
	d. The Supplier will provide all administrative facilities and all financial requirements (Air tickets, food and accommodation etc.) to the trainees and inspectors at the time of inspection at its premises.				
	e. It shall be accepted by the buyer that the vehicles inspected would be from the order placed by the buyer and inspected vehicle/s would be shipped to Sri Lanka with the mileage it incurs during the said inspection and no separate vehicle would be offered for inspection and/or road test.				
	As more fully describe in the Technical specification in the Section III				
CC 25.2	The inspections and tests shall be conducted upon receipt of Goods at Sri Lanka Air Force Base Katunayake.				
CC 26.1	In the event that the Supplier/Service Provider fails to deliver the goods within the agreed delivery schedule, the Supplier/Service Provider shall be liable to pay liquidated damages to the Sri Lanka Air Force (SLAF) at a rate				

	of 1% of the total contract value per week (or part thereof) for each week
	of delay. The total liquidated damages payable under this clause shall not
	exceed <b>10% of the total contract value</b> . Should the accumulated liquidated
	damages reach the maximum limit of 10%, SLAF reserves the right to
	terminate the contract and seek alternative suppliers without further notice)
	applicable at the time of the delay calculation.
CC 26.1	The maximum amount of liquidated damages shall be 10%.

## **SECTION IX**

## **CONTRACT FORMS**

#### **1. Contract Agreement**

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

#### BETWEEN

(1) [insert complete name of Purchaser], a [insert description of type of legal entity, for example, an agency of the Ministry of ..... or corporation and having its principal place of business at [insert address of Purchaser] (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:

- 1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- 2. 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) Contract Data
  - (c) 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)]
- 3. 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.
- 4. 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.

5. 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 the Democratic Socialist Republic of Sri Lanka on the day, month, and year indicated above.

#### For and on behalf of the Purchaser

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]

#### 2. PERFORMANCE SECURITY

[Note: the purchaser is required to fill the information marked as "\*" and delete this note prior to selling of the bidding document]

[The issuing agency, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]

--- [Issuing Agency's Name, and Address of Issuing Branch or Office] ---

Beneficiary: Commander of the Sri Lanka Air Force, Air Force Headquarters, P.O Box 594, Defence Headquarters Complex, Sri Jayewardenepura, Kotte, Sri Lanka

Date: ---

#### PERFORMANCE GUARANTEE No.: ---

We have been informed that --- [name of Supplier] (hereinafter called "the Supplier") has entered into Contract No. --- [reference number of the contract] dated --- with you, for the Supply of Qty 01 Brand new Aviation Re- fuel Bowser (10,000Ltrs Capacity) for SLAF requirement (hereinafter called "the Contract"). Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Supplier, we ---- [name of Agency] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ---- [amount in figures] (----) [amount in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the ... day of ....., 2025.. [insert date, 28 days beyond the scheduled completion date including the warranty period], and any demand for payment under it must be received by us at this office on or before that date.

[signature(s)]