

Invitation to Bid (ITB)

For the Supply and Delivery of 1x Fire Fighting Vehicle for Bamyan Airport in Bamyan Province of Afghanistan

UNOPS/AGOC/ITB/010/013Re-tender

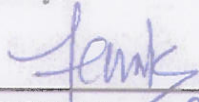
Project no. 00082996 – Improvement of the existing Bamyan Airport Project

August 8, 2013

1. UNOPS has been contracted by (JICA) to procure 1x Fire Fighting and Aircraft Rescue vehicle on their behalf under Japanese funded project for Bamyan Airport.
2. UNOPS now invites bids from eligible and qualified Bidders for the supply of the goods and services as described above.
3. Bidding will be conducted through the One Envelope International Competitive Bidding procedures specified in the UNOPS Procurement Manual, and are open to all eligible Bidders as defined in this ITB.
4. Interested eligible Bidders may obtain further information from Mr. Mahbobulhaq FAIZI at, Mahbobulhaqf@unops.org +93 (0)794 44 80 99.
5. Qualifications requirements are specified in the ITB.
6. Bids must be delivered as specified in the Instructions to Bidders of this ITB (please read this part carefully). Late bids will be rejected. Bidders' representatives are invited to attend the bid opening. If you plan to attend, you must advise UNOPS at least 24 hours in advance of the opening by sending an email to Mahbobulhaqf@unops.org. Please indicate the bid reference number in the email subject. A bid opening report indicating the total price of each offer is available to all Bidders upon request. As soon as a contract award has been approved by all parties, the results will be posted on <http://www.unops.org/english/whatweneed/Pages/Contractawards.aspx>.
7. Please acknowledge receipt of this ITB by returning Form I (see Section II, Bidding Forms) as far in advance of the bid opening date as possible, to email address: Mahbobulhaqf@unops.org indicating whether or not you intend to submit a bid. If you are declining to bid, please state the reasons on the form in order for UNOPS to improve its effectiveness in future invitations.
8. UNOPS strongly encourages all Bidders to subscribe to the Tender Alert Service available on the United Nations Global Market Place (www.ungm.org). This will allow Bidders to be notified automatically of all UNOPS business opportunities for the products and services for which they have registered. Instructions on how to subscribe to the Tender Alert Service can be found in the UNGM Interactive Guide for Suppliers.

Pre-cleared by:

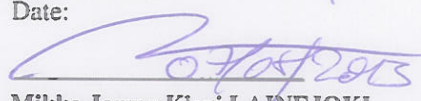
Date:


Farouk HIRZAILA,
Regional Practice Specialist
UNOPS IPAS

8/8/13

Approved by:

Date:


Mikko Jarmo Kleivi LAINEJOKI
Director & Representative
UNOPS AFOH

ITB for Procurement of Goods

Summary

- Section I. Instructions to Bidders**
This Section provides information to help Bidders prepare their bids. Information is also provided on the submission, opening, and evaluation of bids and on the award of Contracts. Section I contains provisions that are to be used without modification.
- Section II. Bidding Forms**
This Section includes the forms for the Bid Submission, Price Schedules, Bid Security, and the Manufacturer's Authorization to be submitted with the Bid.
- Section III. Schedule of Requirements**
This Section includes the List of Goods and Related Services, the Delivery and Completion Schedules, the Technical Specifications and the Drawings that describe the Goods and Related Services to be procured.
- Section IV. UNOPS General Conditions for Goods (GCG)**
This Section includes the general clauses to be applied in all contracts. The text of the clauses in this Section shall not be modified.
- Section V. Special Conditions for Goods (SCG)**
This Section includes clauses specific to each contract that modify or supplement Section VI, UNOPS General Conditions for Goods.
- Section VI: Contract Forms**
This Section includes the form for the Agreement, which, once completed, incorporates corrections or modifications to the accepted bid that are permitted under the Instructions to Bidders, the General Conditions for Goods, and the Special Conditions for Goods. The forms for Performance Security and Advance Payment Security, when required, shall only be completed by the successful Bidder after contract award.

Section I. Instructions to Bidders

Table of Clauses

A. General

1. **Scope of Bid**
2. **Source of Funds**
3. **Fraud and Corruption**
4. **Eligible Bidders**
5. **Eligible Goods and Related Services**

B. Contents of Bidding Documents

6. **Sections of Bidding Documents**
7. **Clarification of Bidding Documents**
8. **Amendment of Bidding Documents**

C. Preparation of Bids

9. **Cost of Bidding**
10. **Language of Bid**
11. **Documents Comprising the Bid**
12. **Bid Submission Form and Price Schedules**
13. **Alternative Bids**
14. **Bid Prices and Discounts**
15. **Currencies of Bid**
16. **Documents Establishing the Eligibility of the Bidder**
17. **Documents Establishing the Eligibility of the Goods and Related Services**
18. **Documents Establishing the Conformity of the Goods and Related Services**
19. **Documents Establishing the Qualifications of the Bidder**
20. **Period of Validity of Bids**
21. **Bid Security**
22. **Format and Signing of Bid**

D. Submission and Opening of Bids

23. **Submission, Sealing and Marking of Bids**
24. **Deadline for Submission of Bids**
25. **Late Bids**
26. **Withdrawal, Substitution, and Modification of Bids**
27. **Bid Opening**

E. Evaluation and Comparison of Bids

28. **Confidentiality**
29. **Clarification of Bids**
30. **Responsiveness of Bids**
31. **Nonconformities, Errors, and Omissions**
32. **Preliminary Examination of Bids**
33. **Examination of Terms and Conditions; Technical Evaluation**
34. **Conversion to Single Currency**
35. **Domestic Preference**
36. **Evaluation of Bids**
37. **Comparison of Bids**
38. **Post-qualification of the Bidder**
39. **UNOPS's Right to Accept Any Bid, and to Reject Any or All Bids**

F. Award of Contract

40. **Award Criteria**
41. **UNOPS's Right to Vary Quantities at Time of Award**
42. **Publication of Contract Award**
43. **Signing of Contract**
44. **Performance Security**

Section I. Instructions to Bidders

A. General

1. Scope of Bid

1.1 The type of Goods and Related Services to be purchased is: Supply and Delivery of 1x fire fighting and aircraft rescue vehicle for Bamyan Airport in Bamyan Province of Afghanistan

2. Source of Funds

2.1 UNOPS intends to apply a portion of the funds it has received from funding sources to eligible payments under the contract for the Supply and Delivery of 1x fire fighting vehicle for Bamyan Airport in Bamyan Province of Afghanistan.

3. Fraud and Corruption

3.1 It is UNOPS policy to require that Bidders, suppliers, and contractors and their subcontractors under UNOPS contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, UNOPS:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) bribery is the act of unduly offering, giving, receiving or soliciting anything of value to influence the process of procuring goods or services, or executing contracts;
 - (ii) extortion or coercion is the act of attempting to influence the process of procuring goods or services, or executing contracts by means of threat of injury to person, property or reputation;
 - (iii) fraud is the misrepresentation of information or facts for the purpose of influencing the process of procuring goods or services, or executing the contracts, to the detriment of UNOPS or other participants;
 - (iv) collusion is the agreement between Bidders designed to result in bids at artificial prices that are not competitive.
- (b) will reject a proposal to award a contract if it determines that a vendor recommended for award has engaged in corrupt practices in competing for the contract in question;
- (c) will declare a vendor ineligible, either indefinitely or for a stated period of time, to become a UN registered vendor if it at any time determines that the vendor has engaged in corrupt practices in competing for or in executing a UNOPS contract;
- (d) will cancel or terminate a contract if it determines that a vendor has engaged in corrupt practices in competing for or in executing a UNOPS contract;
- (e) will normally requires a UNOPS vendor to allow UNOPS, or any person that UNOPS may designate, to inspect or carry out audits of the vendor's accounting records and financial statements in connection with the contract.

3.2 Any vendor participating in UNOPS' procurement activities, shall facilitate to UNOPS personnel upon first request, all documents, records and other elements needed by UNOPS to investigate the allegations of misconduct by either vendors or any other party to the procurement activities. The absence of such cooperation may be sufficient grounds for the debarment of the vendor from UNOPS vendor roster and may lead to suspension following review by UNOPS Vendor Review Committee.

3.3 Suppliers, their subsidiaries, agents, intermediaries and principals must cooperate with the Office of Internal Oversight Services (OIOS) of the United Nations, UNOPS Internal Audit and Investigations Group (IAIG) as well as with other investigations authorized by the Executive Director and with the UNOPS Ethics Officer (during preliminary reviews in line with UNOPS whistle blower policy) as and when required. Such cooperation shall include, but not be limited to, the following: access to all employees, representatives, agents and assignees of the vendor; as well as production of all documents requested, including financial records. Failure to fully cooperate with investigations will be considered sufficient grounds to allow UNOPS to repudiate and terminate the contract, and to debar and remove the supplier from UNOPS's list of registered suppliers.

3.4 Information regarding Bid Protest can be found at:

<http://www.unops.org/english/whatwedo/services/procurement/Pages/Procurementpolicies.aspx>

4. Eligible Bidders

- 4.1 A Bidder, and all parties constituting the Bidder, may have the nationality of any country.
- 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:
- i) are or have been associated in the past, with a firm or any of its affiliates which have been engaged by UNOPS 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
 - ii) submit more than one bid in this bidding process, except for alternative offers permitted under Instructions to Bidders Clause 13. However, this does not limit the participation of subcontractors in more than one bid.
- 4.3 A Bidder that is under a declaration of ineligibility by UNOPS in accordance with Instructions to Bidders Clause 3, at the date of contract award, shall be disqualified. Bidders shall not be eligible to submit a bid when at the time of bid submission:
1. Suppliers are already suspended by UNOPS; or,
 2. Supplier's names are mentioned in the UN 1267 Terrorist list issued by the Security Council resolution 1267 which establishes a sanctions regime to cover individuals and entities associated with Al-Qaida and/or the Taliban; or,
 3. Suppliers are suspended by the UN Procurement Division (UNPD); or,
 4. Suppliers have been declared ineligible by the World Bank (see <http://www.worldbank.org/debarr>).
- 4.4 Bids may be submitted by a Joint Venture (JV). In the case of a JV:
- a. The duly filled Form 4: Joint Venture Partner Information Form of Section II, Bidding Forms must be included with the Bid; and
 - b. All parties to the JV shall be jointly and severally liable; and
 - c. The JV shall nominate a Representative who shall have the authority to conduct all businesses:
 - for and on behalf of any and all the parties of the JV during the bidding process; and
 - in the event the JV is awarded the Contract, during contract execution.

5. Eligible Goods and Related Services

- 5.1 All the Goods and Related Services to be supplied under the Contract may have their origin in any country.
- 5.2 For purposes of this Clause, the term “origin” means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

B. Contents of Bidding Documents**6. Sections of Bidding Documents**

- 6.1 The Bidding Documents consist of:
- Section I. Instructions to Bidders
 - Section II. Bidding Forms
 - Section III. Schedule of Requirements
 - Section IV. General Conditions for Goods (GCG)
 - Section V. Special Conditions for Goods (SCG)
 - Section VI. Contract Forms
- 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.
- 6.3 Bidders are cautioned to read the specifications carefully (see Schedule III - Schedule of Requirements), as there may be special requirements. The technical specifications presented herein are not to be construed as defining a particular manufacturer's product. Bidders are encouraged to advise UNOPS, if they disagree.

6.4 The specifications are the minimum requirements for the products. Products offered must meet or exceed all requirements herein. The products shall conform in strength, quality and workmanship to the accepted standards of the relevant industry. Modifications of or additions to basic standard products of less size or capability to meet these requirements will not be acceptable.

7. Clarification of Bidding Documents

7.1 A prospective Bidder requiring any clarification of the Bidding Documents shall contact UNOPS in writing at mahboubulhaq@unops.org. UNOPS will respond in writing to any request for clarification, provided that such request is received no later than 3 days prior to the deadline for submission of bids. UNOPS shall forward copies of its response to all those who have acquired the Bidding Documents directly from it, including a description of the inquiry but without identifying its source.

8. Amendment of Bidding Documents

8.1 At any time prior to the deadline for submission of bids, UNOPS may amend the Bidding Documents by issuing amendment.

8.2 Any amendment issued shall be part of the Bidding Documents and shall be communicated in writing to all who have obtained the Bidding Documents directly from UNOPS.

8.3 To give prospective Bidders reasonable time in which to take an amendment into account in preparing their bids, UNOPS may, at its discretion, extend the deadline for the submission of bids.

C. Preparation of Bids

9. Cost of Bidding

9.1 The Bidder shall bear all costs associated with the preparation and submission of its bid.

10. Language of Bid

10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and UNOPS, shall be written in English language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into English language, in which case, for purposes of interpretation of the Bid, such translation shall govern.

11. Documents Comprising the Bid

11.1 The Bid shall comprise the following:

- (a) Bid Submission Form and the applicable Price Schedules, in accordance with Instructions to Bidders Clauses 12, 14, and 15;
- (b) Bid Security in accordance with Instructions to Bidders Clause 21
- (c) Documentary evidence in accordance with Instructions to Bidders Clause 16 establishing the Bidder's eligibility to bid;
- (d) Documentary evidence in accordance with Instructions to Bidders Clause 17, that the Goods and Related Services to be supplied by the Bidder are of eligible origin;
- (e) Documentary evidence in accordance with Instructions to Bidders Clauses 18 and 30, that the Goods and Related Services conform to the Bidding Documents;
- (f) Documentary evidence in accordance with Instructions to Bidders Clause 19 establishing the Bidder's qualifications to perform the contract if its bid is accepted.

12. Bid Submission Form and Price Schedules

12.1 The Bidder shall submit the Bid Submission Form and the Price Schedules using the forms furnished in Section II, Bidding Forms.

13. Alternative Bids

13.1 Alternative Bids will not be accepted. In the event of a supplier submitting more than one Bid, the following shall apply:

- (a) All Bids marked alternative Bids will be rejected and only the base Bid will be evaluated.

(b) All Bids will be rejected if no indication is provided as to which Bids are alternative Bids.

14. Bid Prices and Discounts

- 14.1 The prices and discounts quoted by the Bidder in the Bid Submission Form and in the Price Schedules shall conform to the requirements specified below. Unit prices and total prices shall be quoted as specified in Price Schedule included in Section II, Bidding Forms. Bidders are allowed the option to submit the Bid for any one or more lots specified in the Schedule of Requirements, see Section III, and to offer discounts for combined lots. However, Bidders shall quote for the complete requirement of Goods and Related Services specified under each lot on a single responsibility basis. Incomplete offers for the quoted items will be rejected.
- 14.2 The terms FCA, DAP and other similar terms shall be governed by the rules prescribed in the Incoterms 2010, published by The International Chamber of Commerce.
- 14.3 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 shall be treated as non-responsive and shall be rejected.
- 14.4 The Bidder shall also submit the list of the components and spare parts, along with their numbers and unit price, that may be required in the initial period of operation of 365 days.
- 14.5
- 14.6 Overcharges related to the age of the vessel as well as pre-loading survey cost as specified in Section V, Special Conditions for Goods must be included in the bid price.

15. Currencies of Bid

The Bidder shall quote in any freely convertible currency or United States Dollars.

16. Documents Establishing the Eligibility of the Bidder

- 16.1 To establish their eligibility in accordance with Instructions to Bidders Clause 4, Bidders shall:
- complete the Bid Submission Form, included in Section II, Bidding Forms.
 - complete Form 4: Joint Venture Partner Information Form of Section II, Bidding Forms, and provide all documents as required in the Form, in the event that the Bid is submitted by a Joint Venture.

17. Documents Establishing the Eligibility of the Goods and Related Services

- 17.1 To establish the eligibility of the Goods and Related Services in accordance with Instructions to Bidders Clause 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section II, Bidding Forms.

18. Documents Establishing the Conformity of the Goods and Related Services

- 18.1 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 III, Schedule of Requirements.
- 18.2 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during *one year* following commencement of the use of the Goods by UNOPS.
- 18.3
- 18.4 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by UNOPS in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to UNOPS's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Schedule of Requirements.

19. Documents Establishing the Qualifications of the Bidder

- 19.1 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to UNOPS's satisfaction:

- (a) that 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 II, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the Country of destination;
- (b) that in case of a Bidder not doing business within the Country of destination, the Bidder is or will be (if awarded the contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions for Goods and/or Technical Specifications; and
- (c) that the Bidder meets each of the qualification criterion specified in Instructions to Bidders, Sub-section 38.4.

20. Period of Validity of Bids

- 20.1 Bids shall remain valid for a period of *90 (Ninety)* days after the bid submission deadline date prescribed by UNOPS. A bid valid for a shorter period shall be rejected by UNOPS as non-responsive.
- 20.2 In exceptional circumstances, prior to the expiration of the bid validity period, UNOPS 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 Instructions to Bidders Clause 21, 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.

21. Bid Security

- 21.1 A Bid Security as part of the Bidder's bid shall be required
- 21.2 **August 8, 2013 until December 06, 2013.**
- 21.3 The Bid Security shall be in original, in favour of UNOPS, *Afghanistan Operations Centre*, in the amount equivalent to **USD 5,000 Five Thousand United States Dollars**, and denominated in a freely convertible currency, and shall:
 - (a) at the Bidder's option, be in the form of either a bank guarantee from a banking institution, as per the form included in Section II, Bidding Forms, or a demand draft, cashier's cheque or irrevocable cheque certified by a banking institution. In the event of Bidders submitting the Bid Security in the form of a cheque or demand draft, such documents shall be accompanied by a signed statement from the issuing bank on its letterhead indicating the validity period and confirming irrevocability of the cheque or demand draft during the required validity period;
 - (b) be issued by a reputable institution selected by the Bidder. Reputable banking institutions have to be banks certified by the Central bank of the country to operate as commercial bank;
 - (c) be payable promptly upon written demand by UNOPS in case the conditions listed in Instructions to Bidders Clause 21.5 are invoked;
 - (d) remain valid for a period of **120** days beyond the validity period of the bids, as extended, if applicable, in accordance with Instructions to Bidders Clause 20.2;
- 21.4 Any bid not accompanied by a substantially responsive Bid Security in accordance with Instructions to Bidders Sub-Clause 21.2, shall be rejected by UNOPS as non-responsive.
- 21.5 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 Instructions to Bidders Clause 44.
 - 21.6 The Bid Security may be forfeited:
 - 21.7 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 Instructions to Bidders Sub-Clause 20.2; or
 - 21.8 if the successful Bidder fails to:
 - 21.9 sign the Contract in accordance with Instructions to Bidders Clause 43;
 - 21.10 furnish a Performance Security in accordance with Instructions to Bidders Clause 44;
 - 21.11 accept the arithmetical correction in accordance with Instructions to Bidders Clause 33.
- 21.12 The Bid Security of a joint venture (JV) must be in the name of the JV that submits the bid. If the JV has not been legally constituted at the time of bidding, the Bid Security shall be in the names of all

future partners as named in the letter of intent mentioned in Section II, Bidding Forms, JV Partner Information Form, Item 4.

22. Format and Signing of Bid

- 22.1 The Bidder shall prepare one original of the documents comprising the bid as described in Instructions to Bidders Clause 11 and clearly mark it “ORIGINAL.” No copy of the bid is required.
- 22.2 The original 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.
- 22.3 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialled by the person signing the Bid.

D. Submission and Opening of Bids

23. Submission, Sealing and Marking of Bids

- 23.1 Bidders may always submit their bids by mail or by hand. Bidders *shall* have the option of submitting their bids electronically.
- (a) Bidders submitting bids by mail or by hand, shall enclose the original of the Bid in a sealed envelope, which shall:
- bear the name and address of the Bidder as well as the ITB reference number;
 - be addressed to UNOPS in accordance with Instructions to Bidders Sub-Clause 24.1;
 - bear a warning “Not to be opened by registry”;
 - if the envelope is not sealed and marked as required, UNOPS will assume no responsibility for the misplacement or premature opening of the bid.
- (b) Apart from the Bid Security which shall be submitted in original (unless not required in accordance with Instructions to Bidders Clause 21.1), Bidders’ bid may be submitted electronically. A bid sent by email or fax may only be sent to the secure bid email address pmafg@unops.org and must indicate the ITB reference number in the subject. Bids sent or copied to any other email address will be declared invalid. Bids sent via the correct route after having been sent incorrectly will be declared invalid. Size of individual e-mails, including e-mail text and attachments, must not exceed 7 MB. An auto reply message acknowledging receipt of email will be sent to Bidders submitting their bid by email. In order to avoid last minute line congestion, please note the following:
- Send your Bid as early as possible before the deadline;
 - Send only the duly completed Bidding Documents to the secure email address. Do not send other large documents by email such as commercial brochures as these documents should accompany the original hard copy of your Bid, which must be received within five (7) business days from the Bid Receipt deadline;
 - If the size of the email is likely to exceed 8 MB, please send the required Bidding Documents via multiple emails and indicate the email number (email 1, email 2, etc.) in the subject field of each email;

24. Deadline for Submission of Bids

- 24.1 Bids must be received by UNOPS at

United Nations Office for Project Services (UNOPS)

UNOCA Compound, Jalalabad Industrial Zone Road, Kabul, Afghanistan

Ref: For the Supply and Delivery of 1x Fire Fighting & Aircraft Rescue vehicle to Bamyan Airport project in Bamyan Province of Afghanistan

No later than

Date: August 28, 2013

Time: 10:00 am Kabul hrs time (ref.: www.timeanddate.com/worldclock).

- 24.2 UNOPS may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with Instructions to Bidders Clause 8, in which case all rights and

obligations of UNOPS and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

25. Late Bids

25.1 UNOPS shall not consider any bid that arrives after the deadline for submission of bids, in accordance with Instructions to Bidders Clause 24. Any bid received by UNOPS after the deadline for submission of bids shall be declared late, rejected, and returned unopened to the Bidder (or Bidders will be notified if the bid has been submitted electronically).

26. Withdrawal, Substitution, and Modification of Bids

26.1 Prior to the deadline prescribed for submission of bids, a Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice.

26.2 Bids requested to be withdrawn in accordance with Instructions to Bidders Sub-Clause 26.1 shall be shredded if there is no requirement for Bid Security or shall be returned unopened to the Bidders if a Bid Security is required.

26.3 No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Submission Form or any extension thereof.

27. Bid Opening

27.1 UNOPS shall conduct the bid opening in public at the following address, date and time.

Street Address: *UNOPS AGOC, UNOCA Compound Jalalabad Road,*

Room number: *Conference Room*

City: *Kabul*

Country: *Afghanistan*

Date: **August 28, 2013**

Time: *11:00 a.m., Kabul time,* (ref.: www.timeanddate.com/worldclock).

27.2 Envelopes shall be opened one at a time, reading out: the name of the Bidder and the Bid Prices; and any other details as UNOPS may consider appropriate. No Bid shall be rejected at Bid opening except for late bids, in accordance with Instructions to Bidders Sub-Clause 25.1.

27.3 UNOPS shall prepare a record of the Bid opening that shall include, as a minimum: the name of the Bidder and the Bid.

E. Evaluation and Comparison of Bids

28. Confidentiality

28.1 Information relating to the examination, evaluation, comparison, and post-qualification of bids, and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until publication of the Contract Award.

28.2 Any effort by a Bidder to influence UNOPS in the examination, evaluation, comparison, and post-qualification of the bids or contract award decisions may result in the rejection of its Bid.

Notwithstanding Instructions to Bidders Sub-Clause 28.2, from the time of bid opening to the time of Contract Award, if any Bidder wishes to contact UNOPS on any matter related to the bidding process, it should do so in writing.

29. Clarification of Bids

29.1 To assist in the examination, evaluation, comparison and post-qualification of the bids, UNOPS may, at its discretion, ask any Bidder for a clarification of its Bid. UNOPS'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.

30. Responsiveness of Bids

30.1 UNOPS's determination of a bid's responsiveness is to be based on the contents of the bid itself.

- 30.2 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, UNOPS'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.

UNOPS considers material deviation to include but not to be limited to the following situations:

- (d) During preliminary examination of bids (verification of formal criteria):
 - Lack of proper bid securities in terms of change in the wording (not consistent with the prescribed format), amount, or validity period.
 - Absence of bid submission form, change in the wording (not consistent with the prescribed format) or lack of signature of key portions of the bid form.
 - The Bidder does not accept important Contract conditions, i.e. related to Performance Security, Warranty, Force Majeure, Applicable Law, Delivery Schedule, Payment Terms, Limitation of Liability, etc..
 - Non historical documents required in the ITB, i.e. document specifically related to the tender and one that the Bidder could not be expected to possess before the ITB was issued, have not been provided.
- (e) During technical evaluation of bids and qualification of Bidders:
 - Specifications of the item quoted vary in one or more significant respect(s) from the minimum required Technical Specifications.
 - Bidders do not meet the minimum post-qualification requirements.
- (f) During financial evaluation of bids:
 - The Bidder does not accept the required price correction as per ITB conditions.
 - The Bidder offers less quantity than what is required.

- 30.3 If a bid is not substantially responsive to the Bidding Documents, it shall be rejected by UNOPS and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.

31. Nonconformities, Errors, and Omissions

31.1 Provided that a Bid is substantially responsive, UNOPS:

- (a) may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.
- (b) 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.
- (c) shall correct arithmetical errors on the following basis:
 - 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 UNOPS 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;
 - 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
 - if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

- 31.2 If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be rejected and its Bid Security may be forfeited.

32. Preliminary Examination of Bids

32.1 UNOPS shall examine the bids to confirm that all documents and technical documentation requested in Instructions to Bidders Clause 11 have been provided, and to determine the completeness of each document submitted.

33. Examination of Terms and Conditions and Technical Evaluation

33.1 UNOPS shall examine the Bid to confirm that it does not contain material deviation or reservation related to the conditions and requirements specified in the GCG, Section IV, and in the Schedule of Requirements, Section III.

33.2 If, after the examination of the terms and conditions and the technical evaluation, UNOPS determines that the Bid is not substantially responsive in accordance with Instructions to Bidders Clause 30, it shall reject the Bid.

34. Conversion to Single Currency

34.1 For evaluation and comparison purposes, UNOPS shall convert all bid prices expressed in amounts in various currencies into an amount in *USD* using the United Nations exchange rates established for the month in which the bids are opened.

35. Domestic Preference

35.1 Domestic preference shall not be a factor in bid evaluation.

36. Evaluation of Bids

36.1 UNOPS shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.

36.2 To evaluate a Bid, UNOPS shall consider the following:

- (a) evaluation will be done for each *item and any supplier who has substantially complaint offer will be awarded.*;
- (b) price adjustment for correction of arithmetic errors in accordance with Instructions to Bidders Sub-Clause 31.3;
- (c) price adjustment due to discounts offered in accordance with Instructions to Bidders Sub-Clause 14.4;
- (d) the availability in the Beneficiary's Country of spare parts and after-sales services for the equipment offered in the bid;

36.3 UNOPS's evaluation of a bid will exclude and not take into account:

- (a) Customs duties and other import taxes, sales and other similar taxes, which will be payable on the Goods if the contract is awarded to the Bidder;
- (b) Any allowance for price adjustment during the period of execution of the contract, if provided in the bid.

36.4 Bidders are allowed to quote separate prices for one or more lots. UNOPS may award one or multiple lots to more than one Bidder. The methodology of evaluation to determine the lowest-evaluated lot combinations, is as follows:

UNOPS shall:

- (a) evaluate only complete lots;
- (b) take into account the lowest priced substantially compliant offer for each lot; and
- (c) where a supplier does not meet all post-qualification criteria as specified in Instructions to bidders, Clause 38, Sub-clause 38.4 for all the lots for which it is lowest priced, substantially compliant, UNOPS will award each of the affected lots in a manner which achieves the best overall value-for-money combination for UNOPS. Therefore, in situations whereby a Bidder has offered the lowest evaluated bid price (i.e. the L1 Bidder) for more than one lot in the same Bid and at the post-qualification stage of the evaluation, it is determined that the Bidder does not meet some post-qualification requirements for all the lots bid by it UNOPS shall proceed as follows:
 - (d) A price comparison lot wise shall be made with the other Bidders with the second lowest bid price (i.e. L2 Bidder).
 - (e) The price difference between the L1 offer and the offer of the L2 Bidder for each lot shall then be calculated.
 - (f) In order to achieve the highest savings and select the most cost effective combination of multiple offers for the final recommendation of award, the lots where the price differences between the L1

offer and the offer of the L2 Bidder are higher shall be awarded to the L1 Bidder until the combinations of all lots awarded to the L1 Bidder reaches the value that could be awarded to the L1 Bidder taking into account the post-qualification requirements as stated in the ITB (e.g. production capacity, turnover, maximum contract value, etc.).

37. Comparison of Bids

37.1 UNOPS shall compare all substantially responsive bids to determine the lowest priced compliant offer, in accordance with Instructions to Bidders Clause 36.

37.2 Bid comparison will be made on the total cost, delivered to final destination. UNOPS reserves the right to compare freight prices of Bidders with rates of reputable freight forwarders and to consider such rates for the purpose of bid evaluation. In the event of freight prices of Bidders being found less competitive than rates offered by freight forwarders, UNOPS may issue a Contract on FCA or DAP basis to the Vendor instead of CPT/CFR, and issue a separate contract for freight to a freight forwarder, if deemed in the best financial interest of UNOPS.

38. Post-qualification of the Bidder

38.1 UNOPS shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid is qualified to perform the Contract satisfactorily.

38.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to Instructions to Bidders Clause 19.

38.3 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 UNOPS shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.

38.4 After determining the lowest priced substantially compliant offer in accordance with Instructions to Bidders Sub-Clause 37.1, UNOPS shall carry out the post-qualification of the Bidder in accordance with Instructions to Bidders Clause 38, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications. When the Bidder is not the manufacturer of the Goods, the Bidder shall be duly authorized by the manufacturer of the Goods who meets the criteria below and all supporting documents/information as asked below for the Bidder shall also be submitted for the manufacturer with the Bid:

(a) Financial Capability

The Bidder shall furnish documentary evidence that it meets the following financial requirement(s):

- Liquidity: the ratio Average Current assets / Current liabilities over the last 2 years must be equal or greater than 1. Bidders must include in their Bid audited balance sheets covering the last 2 exercises
- The Bidders who are manufacturers should have annual sales turnover of minimum 2 times the value as quoted against each lot, in any one of the last five years to qualify for a particular lot. The above criteria will be cumulative for the purpose of evaluating multiple lots.
- For non-manufacturer Bidders (excluding agents quoting in the name of the manufacturer): the Bidder should have annual sales turnover of minimum the value as quoted against each lot, in any one of the last five years to qualify for a particular lot. The above criteria will be cumulative for the purpose of evaluating multiple lots.

(b) Experience and Technical Capacity

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

- The manufacturer whose products are offered by the Bidder must have manufactured and supplied the specific Goods to the extent of at least 50 (fifty) % of the quantity indicated against each lot under "Section V, Schedule of Requirements" in any one of the last five calendar years. There should not be any adverse report regarding the supplies for at least five years preceding the date of bid opening.
- For non manufacturer Bidders (excluding agents quoting in the name of the manufacturer): the Bidder, as authorized by the manufacturer, has supplied and provided after sales services to the

extent of at least *10 (ten)*% of the quantities indicated against each lot specified in the Schedule of Requirements in any one of the last three (3) years. The Goods must be in satisfactory operation.

- Bidders shall invariably furnish documentary evidence (Client's certificate) in support of the satisfactory operation of the Goods supplied by the Bidder.
- Bidders shall furnish data to support that they have the production capacity to perform the Contract and complete delivery of the supplies within the stipulated delivery period.
- Bidder should be in continuous business of manufacturing / supplying the specific product as specified in the 'Schedule of requirement' during the last 1 (one) year and similar products during the last 3 (three) years prior to bid opening.
- Details of experience and past performance of the Bidder on product offered and on those of similar nature within the past 5 (five) years and details of current contracts in hand and other commitments (suggested form given in Section II, Bidding Forms, Form 10: Performance Statement Form.
- Brief write-up, backed with adequate data, explaining the Bidder's available capacity and experience (both technical and commercial) for the manufacture and supply of the required Goods within the specified time of completion after the meeting of all of the Bidder's current commitments.
- Confirmation that all the facilities exist in the Bidder's factory for inspection and testing and these will be made available to UNOPS or his representative for inspection.

(c) Additional Requirements:

- Certification of incorporation of the Bidder and Manufacturer. Legal status, place of registration and principal place of business of the company or firm or partnership, etc
- Written confirmation from the Bidder that the Bidder is neither suspended by the UN system nor debarred by the World Bank group.
- Detailed description of the Goods with essential technical and performance characteristics.
- Documentary evidence of the Bidder's eligibility to bid establishing to UNOPS's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under Instructions to Bidders Clause 4.
- Detailed description of the Goods essential technical and performance characteristics.
- For non-manufacturer Bidders only (this excludes agents quoting in the name of a manufacturer): Legally enforceable authorization from the manufacturer in the prescribed Form (see Section II, Form 9) assuring full guarantee and warranty obligations as per the General Conditions for Goods.
- Proper authorization from the manufacturer for Bids from Agents.
- The past performance of the Bidder shall be taken into account for evaluation. The Bidder shall disclose instances of previous past performance that may have resulted in adverse actions taken against the Bidder and the manufacturers whose products are being offered by the Bidder, in the last 5 (Five) years (see Schedule IV, Bidding Forms, Form 11). Such adverse actions (including suspension or cancellation of its manufacturing license by regulatory authorities, product recalls etc.) may be treated as unsatisfactory performance history while deciding the award of contract. If no instance of previous past performance has resulted into adverse actions this should be clearly indicated in the Bidder's bid.

38.5 Notwithstanding anything stated above, UNOPS reserves the right to assess the Bidder's capabilities and capacity to execute the Contract satisfactorily before deciding on award.

38.6 Even though the Bidders meet the above qualifying criteria, they are subject to be disqualified if they have made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or record of poor performance such as, not properly completing contracts, inordinate delays in completion, litigation history, financial failures etc.

39. UNOPS's Right to Accept Any Bid, and to Reject Any or All Bids

39.1 UNOPS reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders.

F. Award of Contract

40. Award Criteria

- 40.1 In the event of a Contract award, UNOPS shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated bid substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
- 40.2 Before the award of Contract, UNOPS may inspect the manufacturing facilities of the lowest evaluated responsive Bidder to assess his capability to successfully perform the Contract as per the terms and conditions specified in the ITB.

41. UNOPS's Right to Vary Quantities at Time of Award

- 41.1 At the time the Contract is awarded, UNOPS reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section III, Schedule of Requirements, provided this does not exceed 50 (*fifty*) %, and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.

42. Publication of Contract Award

- 42.1 UNOPS shall publish in UNOPS website (<http://www.unops.org/english/whatweneed/Pages/Contractawards.aspx>) the following information: the ITB Reference Number, the Description of the Goods / Services procured, the Beneficiary Country, The Supplier Name and Country, the Contract Value and the Issue Date of the Contract. After publication of the award, unsuccessful Bidders may request in writing to UNOPS for a debriefing seeking explanations on the grounds on which their bids were not selected. UNOPS shall promptly respond in writing to any unsuccessful Bidder who, after Publication of contract award, requests a debriefing.
- 42.2 Upon the successful Bidder's furnishing of the signed Contract Form and performance security pursuant to Instructions to Bidders Clause 44, UNOPS will promptly notify and will discharge the Bid Security of each unsuccessful Bidder, pursuant to Instructions to Bidders Clause 21.4.

43. Signing of Contract

- 43.1 Prior to the expiration of the period of bid validity, UNOPS shall send the successful Bidder the Contract and the Special Conditions for Goods.
- 43.2 Within 7 (*seven*) days of receipt of the Contract, the successful Bidder shall sign, date, and return it to UNOPS.

44. Performance Security

- 44.1 Within 10 (*ten*) days of receipt of the Contract from UNOPS, the successful Bidder, if required, shall furnish the Performance Security in accordance with the GCG, using for that purpose the Performance Security Form included in Section VI, Contract forms, or another Form acceptable to UNOPS. UNOPS shall promptly discharge the Bid Securities of the unsuccessful Bidders pursuant to Instructions to Bidders Sub-Clause 21.4.
- 44.2 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. In that event UNOPS may award the Contract to the next lowest evaluated Bidder, whose offer is substantially responsive and is determined by UNOPS to be qualified to perform the Contract satisfactorily.

Section II. Bidding Forms

Table of Forms

1. Bid / No Bid Confirmation Form
2. Check-List Form
3. Bidder Information Form
4. Joint Venture Partner Information Form
5. Bid Submission Form
6. Price Schedule Form
7. Technical Specification Form
8. Bid Security (Bank Guarantee) Form
9. Manufacturer's Authorization Form
10. Performance Statement Form
11. No Adverse Action Confirmation Form

1. Bid / No Bid Confirmation Form

[Complete this page and return it prior to bid opening if you do not intend to bid]

Date:

To: UNOPS
Mahbobulhaq FAIZI
Procurement Officer

Fax/email: Mahbobulhaqf@unops.org

From: _____

Subject: ITB, UNOPS case no.: **UNOPS/AGOC/ITB/010/013** Re-tender
Project no. 00082996

YES, we intend to submit an offer.

NO, we are unable to submit a bid in response to the above mentioned invitation to bid due to the reason(s) listed below:

- The requested products are not within our range of supply
- We are unable to submit a competitive offer for the requested products at the moment
- The requested products are not available at the moment
- We cannot meet the requested specifications
- We cannot offer the requested type of packing
- We can only offer FCA prices
- The information provided for quotation purposes is insufficient
- Your ITB is too complicated
- Insufficient time is allowed to prepare a quotation
- We cannot meet the delivery requirements
- We cannot adhere to your terms and conditions (please specify: payment terms, request for performance security, etc)
- We do not export
- Our production capacity is currently full
- We are closed during the holiday season
- We had to give priority to other clients' requests
- We do not sell directly but through distributors
- We have no after-sales service available
- The person handling the bids is away from the office
- Others (please specify)
- We would like to receive future ITBs for this type of goods
- We don't want to receive ITBs for this type of goods

If UNOPS has questions to the bidder concerning this NO BID, UNOPS should contact Mr./Ms. _____, phone/email _____, who will be able to assist.

2. Check-List Form

Please fill in and include with your Bid

Activity	Yes/No/NA	Page No in your Bid	Remark
Have you duly completed as all the Bidding Forms provided in Section II?; i.e.:			
- Bid / No bid Confirmation			
- Bidder Information			
- Joint Venture Partner Information and associated documents as per Instructions to Bidders Sub Clause 4.4			
- Bid Submission Form			
- Price Schedule			
- Technical Specification Compliance Confirmation (Comparative Data Table)			
- Manufacturer' Authorization			
- Performance Statement			
- No Adverse Action Confirmation Form			
- Client Certificate			
Have you provided the information as per Instructions to Bidders Clauses:			
- 18: Documents establishing the conformity of the Goods and Related Services			
- 38: Post-qualification of the Bidder			
- Financial capability related documents			
- Experience and technical capacity related documents			
- Additional requirements			

3. Bidder Information Form

1. Financial information

A. SUPPLIER INFORMATION:					
Company Name :		Parent Company name (If applicable)		Web Site URL (If applicable)	
Main Street Address			SECOND Street Address (Please provide purpose of second address)		
City	State/Province/Country	Postal Cde	City	State/Province/Country	Postal Code
Country			Country		
Contact Person		Phone	Alternate Contact Person		Phone
Name :		Fax	Name:		Fax
Title:			Title:		
Email Address:			Email Address:		
B. BANKING INFORMATION:					
Name of Banking Institute		Beneficiary Name of Account (Name as it appears on account)			
Street Address		Branch Name		Phone	
City	State/Province/Country	Postal Code (Zip)		Country	
Bank transwire code information					
Bank Account Number (max. 17 digits)		Account Type <input type="checkbox"/> Checking <input type="checkbox"/> Savings <input type="checkbox"/> Other			
ABA No. 9 digits (for US banks only)		SWIFT/BIC Code, 8 or 11 digits (not applicable to US banks)			
Bank ID (e.g. Transit No., BSB No., Sort Code, BLZ No.)		Branch ID (if applicable)			
IBAN (Required for European banks)		Bank Account Currency <input type="checkbox"/> US\$ <input type="checkbox"/> Other (PLEASE SPECIFY)			
		Currency of Payment <input type="checkbox"/> US\$ <input type="checkbox"/> Other (PLEASE SPECIFY)			
Bank transwire code information for Intermediary Bank*, if applicable					
Name of Intermediary Bank			Address of Intermediary Bank		
ABA No. 9 digits (for US banks only)			SWIFT /BIC Code		
Bank Account No. (of the beneficiary bank with the intermediary bank)					

* If more than one **Intermediary Bank**, please complete the bottom part twice

Note: please make sure that it is signed and stamped.

2. Expertise of Organization:
Please fill in

Organization structure (e.g. service provider, wholesaler, trader, manufacturer)	
Years of company experience	
Areas of expertise of organization	
Current Licenses if any, and Permits (with dates, numbers and expiration dates)	
Production Capacity	

3. Quality Assurance Certification:

International Quality Management System (QMS)	
List of other ISO certificates or equivalent certificates	
Presence and characteristics of in-house quality control laboratory	

4. Expertise of Staff:

Total number of staff	
Number of staff involved in similar supply contracts	

5. Client Reference List:

Please provide references such as client details, commercial bank details, etc.

Name of company:	Contact person:	Telephone:	E-mail:
1.			
2.			
3.			

6. Contact details of persons that UNOPS may contact for requests for clarification during bid evaluation:

Name/Surname	
Tel Number (direct)	
Email address (direct):	

PS: This person must be available during the next two weeks following receipt of bid

4. Joint Venture Partner Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below].

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

ITB No.: **UNOPS/AGOC/ITB/010/013 Re-tender– Project no. 0082996**

Page _____ of _____ pages

1. Bidder's Legal Name: <i>[insert Bidder's legal name]</i>
2. JV's Party legal name: <i>[insert JV's Party legal name]</i>
3. JV's Party Country of Registration: <i>[insert JV's Party country of registration]</i>
4. JV's Party Year of Registration: <i>[insert JV's Party year of registration]</i>
5. JV's Party Legal Address in Country of Registration: <i>[insert JV's Party legal address in country of registration]</i>
6. JV's Party Authorized Representative Information Name: <i>[insert name of JV's Party authorized representative]</i> Address: <i>[insert address of JV's Party authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Party authorized representative]</i> Email Address: <i>[insert email address of JV's Party authorized representative]</i>
7. Attached are copies of original documents of: <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation or Registration of firm named in 2, above, in accordance with Instructions to Bidders Sub-Clauses 4.1 and 4.2. <input type="checkbox"/> JV Agreement, or letter of intent to enter into such an Agreement, signed by the legally authorized signatories of all the parties

5. Bid Submission Form

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

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

ITB No.: **UNOPS/AGOC/ITB/010/013 Re-tender– Project no. 00082996**

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Amendment No.: _____ *[insert the number and issuing date of each Amendment];*
- (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 _____ *[insert a brief description of the Goods and Related Services];*
- (c) The total price of our Bid, excluding any discounts offered in item (d) below, is: _____ *[insert the total bid price in words and figures, indicating the various amounts and the respective currencies];*
- (d) The discounts offered and the methodology for their application are:

Discounts. If our bid is accepted, the following discounts shall apply. _____ *[Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]*

Methodology of Application of the Discounts. The discounts shall be applied using the following method: _____ *[Specify in detail the method that shall be used to apply the discounts];*

- (e) Our bid shall be valid for the period of time specified in Instructions to Bidders Sub-Clause 20.1, from the date fixed for the bid submission deadline in accordance with Instructions to Bidders Sub-Clause 24.1, 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 Instructions to Bidders Clause 44 and GCC Clause 12 for the due performance of the Contract;
- (g) We, including any subcontractors or suppliers for any part of the contract, have nationality from countries _____ *[insert the nationality of the Bidder, including that of all parties that comprise the Bidder, if the Bidder is a JV, and the nationality each subcontractor and supplier]*
- (h) We have no conflict of interest in accordance with Instructions to Bidders Sub-Clause 4.2;
- (i) Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared ineligible by UNOPS, in accordance with Instructions to Bidders Sub-Clause 4.3;
- (j) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed: _____ *[insert signature of person whose name and capacity are shown]*
In the capacity of _____ *[insert legal capacity of person signing the Bid Submission Form]*

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

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

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

6. Price Schedule Form

[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by UNOPS in the Schedule of Requirements.]

BIDDER'S TOTAL PRICES (Price & Currency to be entered by Bidder):	
TOTAL FIRM FCA PRICE	
TOTAL FIRM DAP, Bamyan Airport PRICE,	
FREIGHT COST PER 20/40 FT CONTAINER (if applicable)	

BIDDER'S PRICES FOR GOODS (Price & Currency to be entered by Bidder):						
LOT	DESCRIPTION	QTY (a).	CURRENCY:			
			UNIT PRICE FCA (b)	UNIT PRICE DAP (c)	TOTAL PRICE FCA (a)x(b)	TOTAL PRICE DAP (a)x(c)
1.	Fire Fighting Vehicle with	1				
2.	Full package of fire fighting training services from manufacturer in Bamyan, Afghanistan – please provide with a detailed document on how the training will be conducted or Terms of Reference	1				
<u>3</u>	<u>Delivery time</u>		()			

BIDDER'S DISCOUNT FOR ACCELERATED PAYMENT _____% of total firm price for each calendar day less than thirty (30) days

BIDDER'S DELIVERY DATA				
Country of origin of offered products:	Item 1			
FCA point(s) of delivery for offered products:	Item 1			
Delivery time (FCA from date of order):	Item 1			
Shipment dimensions of offered products (Including package):		Gross weight	Total volume	Containers (if applicable):
	Item 1			Number Size
	Total			

BIDDER'S SIGNATURE AND CONFIRMATION OF THE ITB	
PROVIDED THAT A PURCHASE ORDER IS ISSUED BY UNOPS WITHIN THE REQUIRED BID VALIDITY PERIOD , THE UNDERSIGNED HEREBY COMMITS, SUBJECT TO THE TERMS OF SUCH PURCHASE ORDER, TO FURNISH ANY OR ALL ITEMS AT THE PRICES OFFERED AND TO DELIVER SAME TO THE DESIGNATED POINT(S) WITHIN THE DELIVERY TIME () ;	
Exact name and address of company COMPANY NAME _____ ADDRESS _____ _____ PHONE NO. _____ FAX NO. _____ EMAIL ADDRESS OF CONTACT PERSON _____ OTHER EMAIL ADDRESSES _____	AUTHORIZED SIGNATURE _____ DATE _____ NAME OF AUTHORIZED SIGNATORY (TYPE OR PRINT) _____ FUNCTIONAL TITLE OF SIGNATORY _____ WEB SITE _____

7. Technical Specification Form

(Comparative Data Table)

Bidders must complete the right column of the table and the compliance confirmation statement as included in Section III, Schedule of Requirements; Technical Specifications.

ITEM 1: Fire Fighting Vehicle

<i>UNOPS's minimum Technical Requirements</i>	<i>Please fill-in Yes/No</i>
<p>Important Note: Bidders are required to adhere to the below Technical Specifications for Aviation Rescue and Fire Fighting (ARFF) Vehicle for the Bamyán Airport. The Vehicle will serve the Bamyán Airport. This facility is classified using International Civil Aviation Organization Criteria as a Category 4 facility, serving aircraft up to 24 M in length.</p> <p>The intent of these specifications is to describe the requirements necessary to supply a well-designed, self-contained, properly engineered diesel powered ARFF Vehicle. The unit shall be new and unused.</p> <p>The Fire Fighting Vehicle shall consist of a crew cab on a 4x4, chassis with single tires. It is to be all-wheel drive, single engine diesel powered, with an automatic transmission.</p> <p>The fire-fighting package shall include a water tank and a liquid foam agent concentrate tank and an auxiliary agent system as described in these specifications.</p> <p>The unit shall contain all component parts necessary for a water/foam proportioning system capable of expelling agent through a cab controlled roof turret, a bumper turret, gated discharge(s), twin agent hand line and pre-connected hand line(s) as detailed hereafter in these specifications. The vehicle shall also be equipped with an auxiliary agent system. The system shall be operable from the cab and exterior of the vehicle.</p> <p>This apparatus shall be equipped with various other components as called for in these specifications.</p>	
<p>2.1.1.1.2 Service Manual.</p> <p>The service manual shall identify all special tools and test equipment required to perform servicing, inspection, and testing. The manual shall cover troubleshooting and maintenance as well as minor and major repair procedures. The text shall contain performance specifications, tolerances, and fluid capacities; current, voltage, and resistance data; test procedures; and illustrations and exploded views as may be required to permit proper maintenance by qualified vehicle mechanics. The manual shall contain an alphabetical subject index as well as a</p>	

<p>table of contents. The service manual shall contain at least the following, where applicable:</p> <ul style="list-style-type: none"> a. Fire fighting system schematic(s). b. Hydraulic schematic. c. Pneumatic schematic. d. Electrical schematic. e. Winterization schematic. f. Fuel schematic. g. Schedules for required preventative maintenance and required periodic maintenance. h. Lubrication locations, procedures, and intervals for parts of the vehicle and equipment that require lubrication. 	
<p>2.1.2.4 Reflective stripes.</p> <p>A minimum 20 cm horizontal band of high gloss white paint or white reflective tape (Retro reflective, ASTM-D 4956-09, Standard Specification for Retro reflective Sheeting for Traffic Control, TYPE III & above) must be applied around the vehicle's surface.</p>	
<p>2.1.3 Vehicle identification plate.</p> <p>A permanently marked identification plate shall be securely mounted at the driver's compartment. The identification plate shall contain the following information:</p> <ul style="list-style-type: none"> a. NOMENCLATURE b. MANUFACTURER'S MAKE AND MODEL c. MANUFACTURER'S SERIAL NUMBER d. VEHICLE CURB WEIGHT: kg (pounds) e. PAYLOAD, MAXIMUM: kg (pounds) f. GROSS VEHICLE WEIGHT (GVW): kg (pounds) g. FUEL CAPACITY AND TYPE: gals (gallons) h. DATE OF DELIVERY (month and year) i. WARRANTY (months and km (miles)) j. CONTRACT NUMBER k. PAINT COLOR AND NUMBER <p>A second permanently marked information data plate shall be securely mounted on the interior of the driver's compartment. The plate shall contain the information required by NFPA 414, Standard for Aircraft Rescue and Fire Fighting Vehicles, Section 1.3.5 Vehicle Information Data Plate. A single plate that combines or contains the information required for both plates is acceptable</p>	

<p>2.1.4 Environmental conditions.</p> <p>Vehicle operation and storage temperature conditions will vary with geographical location. Thus, the locality temperature range can go from -40° to 110°F. Refer to NFPA 414 for vehicle winterization criteria.</p>	
<p>Operating Terrain: The vehicle shall be capable of operating safely on paved roads, graded gravel roads, cross country terrain, and sandy soil environments. Cross country terrain consists of open fields, broken ground, and uneven terrain. An off-road, high-mobility suspension system resulting in no more than 0.5 _Gms acceleration at the driver’s seat of the vehicle when traversing an 20 cm diameter half round at 56 kph must be provided. The suspension design by which the manufacturer meets the suspension performance requirements is at the manufacturer’s discretion.</p>	
<p>Weight & Height The maximum dimensions listed below are desirable to ensure vehicles can be accommodated in existing fire stations. Likewise, the overall dimensions should be held to a minimum that is consistent with the best operational performance of the vehicle and the design concepts needed to achieve this performance and to provide maximum manoeuvrability in accordance with NFPA 414. Length: 1100 CM Width: 315 CM, Height 391 CM</p>	
<p>Angles of approach and departure.</p> <p>The fully loaded vehicle shall have angles of approach and departure of not less than 30°.</p>	
<p>Acceleration.</p> <p>The fully loaded vehicle shall accelerate from 0 to 80 kilometres per hour (kph) on a level paved road within 25 seconds.</p>	
<p>Maximum speed.</p> <p>The fully loaded vehicle shall attain a minimum top speed of 110 kph on a level, paved road</p>	
<p>Pump and roll on a 40-percent grade.</p> <p>The fully loaded vehicle shall be capable of pump and roll operations on a paved, dry, 40-percent grade in accordance with NFPA 414.</p>	
<p>Altitude.</p> <p>The vehicle, including the pumping system, shall be designed for operation at 2,000 feet above sea level.</p>	
<p>Engine cooling system.</p> <p>The engine cooling system shall be in accordance with NFPA 414. A label shall be installed near the engine coolant reservoir reading “Engine Coolant Fill.”</p>	

<p>Fuel system.</p> <p>The fuel system shall be in accordance with NFPA 414.</p>	
<p>Fuel tank.</p> <p>The vehicle shall have one or two fuel tanks with a minimum usable capacity in accordance with NFPA 414, as amended by NFPA 414. Each tank shall have a fill opening of 75 mm minimum, readily accessible to personnel standing on the ground and designed to prevent fuel splash while refuelling. Each tank shall be located and mounted so as to provide maximum protection from damage, exhaust heat, and ground fires. If more than one tank is furnished, means shall be provided to assure equalized fuel level in both tanks. An overturn fuel valve shall be provided for each tank to prevent spillage in the event of a rollover. Each fuel tank must be prominently labelled “Diesel Fuel Only”.</p>	
<p>Exhaust system.</p> <p>The exhaust system shall be in accordance with NFPA 414. The exhaust system shall be constructed of high grade rust resistant materials and protected from damage resulting from travel over rough terrain. The muffler(s) shall be constructed of aluminized steel or stainless steel. Exhaust system outlet(s) shall be directed upward or to the rear, away from personnel accessing equipment compartments and the engine air intake, and shall not be directed toward the ground.</p>	
<p>Transmission.</p> <p>A fully automatic transmission shall be provided. The transmission shall be in accordance with NFPA 414</p>	
<p>Axle capacity.</p> <p>Each axle shall have a rated capacity, as established by the axle manufacturer, in accordance with NFPA 414.</p>	
<p>Tires and wheels.</p> <p>Tires and wheels shall be in accordance with NFPA 414. The vehicle shall be equipped with single tires and wheels at all wheel positions. The vehicle shall be equipped with tubeless steel belted radial tires with non-directional on/off-road type tread mounted on disc wheel assemblies. Tire and wheel assemblies shall be identical at all positions. Tires and wheels shall be certified by the manufacturer for not less than 40 kilometers of continuous operation at 96 kph at the normal operational inflation pressure. A spare tire and wheel assembly shall be provided; however, the spare tire and wheel assembly are not required to be mounted on the vehicle. Tires shall be new. Retreads, recaps, or re-grooved tires shall not be permitted. Tire bead locks shall be installed on all tires and rims.</p>	
<p>Towing connections.</p> <p>The vehicle shall be equipped with towing connections in</p>	

<p>accordance with NFPA 414. The vehicle shall be designed for flat towing; the capability to lift and tow the vehicle is not required. The tow connections may intrude into the 30 degree approach angle.</p>	
<p>Brake system.</p> <p>The vehicle shall be equipped with a multi-channel all-wheel antilock brake system with at least one channel for each axle. The brakes shall be automatic, self-adjusting and fully air-actuated. Brakes shall be in accordance with CFR 49 CFR 393.40 through 393.42(b)), 393.43, and 393.43 through 393.52. The braking system, complete with all necessary components shall include:</p> <ul style="list-style-type: none"> a. Air compressor having a capacity of not less than 16 standard cubic feet per minute (SCFM). b. Air storage reservoir(s), each tank equipped with drain (bleed) valves, and with safety and check valves between the compressor and the reservoir tank. c. Automatic moisture ejector on each air storage reservoir. Manual air tank drains are acceptable if they are labeled, are centrally located in one compartment and are accessible by an individual standing at the side of the vehicle. d. Automatic slack adjusters on cam brakes or internal self-adjusting brakes on wedge brakes on all axles. e. Spring set parking brakes. <p>All components of the braking system shall be installed in such a manner as to provide adequate road clearance when traveling over uneven or rough terrain, including objects liable to strike and cause damage to the brake system components. No part of the braking system shall extend below the bottom of wheel rims, to ensure, in case of a flat tire, that the weight of the vehicle shall be supported by the rim and the flat tire and not be imposed on any component of the braking system. Slack adjusters and air chambers shall be located above the bottom edge of the axle carrier.</p>	
<p>Steering.</p> <p>The vehicle shall be equipped with power steering. Rear-wheel steering technology is not an approved vehicle option.</p>	
<p>Windshield and windows.</p> <p>The windshield and windows shall be of tinted safety glass. Each door window shall be capable of being opened far enough to facilitate emergency occupant escape in the event of a vehicle accident. The vehicle windows shall have an electric control system</p>	
<p>Ladder, handrails, and walkways.</p>	

<p>Ladder, stepping, standing, and walking surfaces shall be in accordance with NFPA 414. Handrails shall be provided in accordance with NFPA 414. The lowermost step(s) or ladder rungs shall be no more than 56 cm above level ground when the vehicle is fully loaded. The lowermost steps may extend below the angle of approach or departure or ground clearance limits if they are designed to swing clear. The tread of the bottom steps must be at least 20 cm in width and succeeding steps at least 40 cm in width. The full width of all steps must have at least 15 cm of unobstructed toe room or depth when measured from, and perpendicular to, the front edge of the weight-bearing surface of the step.</p>	
<p>Water tank.</p> <p>The vehicle shall have a water tank with a manufacturer certified minimum capacity of at least 5000 liters.</p>	
<p>DRY CHEMICAL AGENT SYSTEM.</p> <p>The vehicle shall be equipped with a 250 kg minimum capacity sodium based dry chemical agent system. The propellant gas cylinder shall be replaceable within fifteen minutes by two crew members standing on the ground and be equipped with a cylinder replacement hoisting system. The propellant gas cylinder shall be secured to withstand off-road operations. A pressure indicator shall be visible to any person opening the tank fill cap. Blow-down piping shall be directed beneath the vehicle. The dry chemical agent tank shall include lifting rings and shall have a nameplate indicating, as a minimum, the following:</p> <ol style="list-style-type: none"> a. Extinguishing agent. b. Capacity. c. Weight full. d. Weight empty. e. Operating pressure. f. Hydrostatic test date. <p>Type of agent required for re-servicing</p>	
<p>Warranty Period: Manufacturer’s Warranty</p>	
<p>Name of Manufacturer</p>	
<p>Model and Year</p>	
<p>Delivery Period (DAP): to final destination Bamyan Airport ().</p>	
<p><u>For the complete technical specifications please refer to the section 3 Technical Specifications for Fire fighting vehicle.</u></p>	

Item 2: Training Package

<p>Full package of fire fighting training services from manufacturer in Bamyan, Afghanistan – Detailed document on how the training will be conducted or Terms of Reference</p>	
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Bid Security (Bank Guarantee) Form

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

Beneficiary: _____ [Name and Address of UNOPS]

Date: _____

BID GUARANTEE No.: _____

We have been informed that [name of the Bidder] (hereinafter called "the Bidder") has submitted to you its bid dated (hereinafter called "the Bid") for the execution of [name of contract] under Invitation to Bid No. **[UNOPS/AGOC/ITB/010/013 Re-tender]** ("the ITB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we [name of Bank] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of [amount in figures] ([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 by the Bidder in the Form of Bid; or
- (b) having been notified of the acceptance of its Bid by UNOPS during the period of bid validity, (i) fails or refuses to execute the Contract Form; or (ii) fails or refuses to furnish the performance security, if required, in accordance with the Instructions to Bidders.

This guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the contract signed by the Bidder and the performance security issued to you upon the instruction of 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 of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of the Bidder's Bid.

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

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

[signature(s)]

8. Manufacturer's Authorization Form

The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated.

This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the Instructions to Bidders

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

ITB No.: **UNOPS/AGOC/ITB/010/013 Re-tender– Project no. 00082996**

To: UNOPS- AGOC
Jalalabad Industrial Zone, Kabul
Afghanistan

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 13 of the General Conditions for Goods, 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]*

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

9. Performance Statement Form

(for the period of the last five years)

Bid no: _____

Date of Opening: _____

Name of the Firm _____

Order placed by (Full address of purchaser)	Order no & date	Description & quantity of ordered items	Value of Order	Date of completion of Delivery		Remarks indicating reasons of late delivery, if any	Was the supplies of goods satisfactory
				As per Contract	Actual		

Signature and seal of the Bidder

Countersigned by and seal of Chartered Accountant -----

To be attached: Documentary evidence (Client's certificate) in support of satisfactory completion of above orders.

10. No Adverse Action Confirmation Form

This is to certify that *[delete unwanted option]*:

- a. No adverse action has been taken against the Bidder *[insert Bidder's name]* and the manufacturers *[insert manufacturer's name]* whose products are being offered by the Bidder against this Invitation to Bid, in the last 5 (Five) years.
- b. The following instances of previous past performance have resulted in adverse actions taken against the Bidder *[insert Bidder's name]* and the manufacturers *[insert manufacturer's name]* whose products are being offered by the Bidder, in the last 5 (Five) years. Such adverse actions included:

(indicate date and reasons for adverse actions and result of adverse actions; i.e. suspension or cancellation of manufacturing license by regulatory authorities, product recalls, blacklisting, debarment from bidding etc.)

Signature _____
Name _____
Designation with stamp _____
Date _____

Section III. Schedule of Requirements

Contents

1. List of Goods and Delivery Schedule
2. List of Related Services and Completion Schedule
3. Technical Specifications
4. Inspections and Tests

1. List of Goods and Delivery Schedule

Item No.	Description of Goods	Quantity	Unit	Delivery Schedule from date of Contract
1	Fire Fighting Vehicle with training	1	Each	Please respond

Consignee address and Consignee-wise Quantity distribution

Item No	Consignee Address	Quantity	Unit
1	<i>Bamyan Airport in Bamyan Province of Afghanistan</i>	<i>01</i>	<i>Each</i>

2. List of Related Services and Completion Schedule

Description of Service	Quantity¹	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
Full package of fire fighting training services from manufacturer in Bamyan, Afghanistan – please provide with a detailed document on how the training will be conducted or Terms of Reference	<i>1</i>		<i>Bamyan province of Afghanistan</i>	

1. If applicable

3. Technical Specifications

Important Note: Bidders are required to adhere to the below Technical Specifications for Aviation Rescue and Fire Fighting (ARFF) Vehicle for the Bamyán Airport. The Vehicle will serve the Bamyán Airport. This facility is classified using International Civil Aviation Organization Criteria as a Category 4 facility, serving aircraft up to 24 M in length.

The intent of these specifications is to describe the requirements necessary to supply a well-designed, self-contained, properly engineered diesel powered ARFF Vehicle. The unit shall be new and unused.

The Fire Fighting Vehicle shall consist of a crew cab on a 4x4, chassis with single tires. It is to be all-wheel drive, single engine diesel powered, with an automatic transmission.

The fire-fighting package shall include a water tank and a liquid foam agent concentrate tank and an auxiliary agent system as described in these specifications.

The unit shall contain all component parts necessary for a water/foam proportioning system capable of expelling agent through a cab controlled roof turret, a bumper turret, gated discharge(s), twin agent hand line and pre-connected hand line(s) as detailed hereafter in these specifications. The vehicle shall also be equipped with an auxiliary agent system. The system shall be operable from the cab and exterior of the vehicle.

This apparatus shall be equipped with various other components as called for in these specifications.

FIRE FIGHTING VEHICLE

The Aviation Rescue and Fire Fighting (ARFF) Vehicle shall be designed for aircraft fire fighting with on/off road capabilities, which allow the vehicle to respond to aircraft accident sites across terrain otherwise inaccessible to standard highway equipment.

The vehicle shall be designed and constructed to facilitate operation by a single fire fighter if needed, when steering, operating the turret and pumping in the water/foam and dry chemical mode.

The vehicle shall be capable of discharging water only, proportioned water and foam, or auxiliary agent through the roof turret, bumper turret or handline(s) as detailed hereafter in these specifications.

GENERAL REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Code of Federal Regulations (CFR)

Title 49; Code of Federal Regulations (CFR), Part 393: Parts and Accessories Necessary for Safe Operation: Subpart C—Brakes. Title 49; Code of Federal Regulations (CFR), Part 571, Motor Carrier Vehicle Safety Standards, Part 209, Standard No. 209; Seat Belt Assemblies

Federal Aviation Administration (FAA)

AC 150/5210-5 Painting, Marking, and Lighting of Vehicles Used on an Airport

AC 150/5220-10 Guide Specification for Aircraft Rescue and Fire Fighting (ARFF) Vehicles National Fire Protection Association (NFPA) NFPA 414 Standard for Aircraft Rescue and Fire Fighting Vehicles.

SUBMITTALS Employer approval is required for submittals with a "E" designation; submittals not having a "E" designation are for information only. When used, a designation following the "E" designation identifies the office that shall review the submittal for the Government. Submit the following in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

ARFF Vehicle

SD-03 Product Data

ARFF Vehicle; E

SD-06 Test Reports

ARFF Vehicle

SD-07 Certificates

All component; E

SD-10 Operation and Maintenance Data

ARFF Vehicle: Data Package 4

The Contractor shall provide complete maintenance and operating manuals from the manufacturer that support as-builts and equipment design, to include all technical product sheets.

PRODUCTS GENERAL ADMINISTRATION REQUIREMENTS

Manuals: Technical manuals shall consist of operator, service, and parts manuals. All manuals are required to be provided in hardcopy and in digital format on CDs when requested.

Technical Manuals. The overall format for the manuals shall be commercial. Each technical manual shall have a title page. Line art shall be used to the maximum extent possible for illustrations and parts lists. One complete set of engine and transmission parts, service and operator's manuals shall be packed with each vehicle.

The Contractor shall provide digitized manuals in CD format when requested in addition to or in place of printed paper copies.

The Contractor shall provide two complete sets of hardcopy manuals and / or CDs when requested.

Operator's Manual.

The operator's manual shall include all information required for the safe and efficient operation of the vehicle, including fire extinguishing systems, equipment, and any special attachments or auxiliary support equipment. As a minimum, the operator's manual shall include the following:

The location and function of all controls and instruments shall be illustrated and functionally described.

Safety information that is consistent with the safety standards established by the Occupational Safety and Health Administration (OSHA) and NFPA.

All operational and inspection checks and adjustments in preparation for placing the vehicle into service upon receipt from the manufacturer.

Tie down procedures for transport on a low-boy trailer.

Warranty information and the period of the warranty coverage for the complete vehicle and for

any component warranty that exceeds the warranty of the complete vehicle. Addresses and telephone numbers shall be provided for all warranty providers.

General description and necessary step-by-step instructions for the operation of the vehicle and its fire extinguishing system(s) and auxiliary equipment.

A description of the post-operational procedures (draining, flushing, re-servicing, et cetera).

Daily maintenance inspection checklists that the operator is expected to perform, including basic troubleshooting procedures.

Disabled vehicle towing procedures.

Procedures and equipment required for changing a tire.

Schedules (hours, miles, time periods) for required preventative maintenance and required periodic maintenance.

Line art drawing of the vehicle, including panoramic views (front, rear, left, and right sides) showing basic dimensions and weights (total vehicle and individual axle weight for the unloaded and fully loaded vehicle). For this specification, "unloaded" is defined as a lack of agent, occupants and compartment load, and "loaded" is defined as including agent, occupants and compartment load.

Service Manual:

The service manual shall identify all special tools and test equipment required to perform servicing, inspection, and testing. The manual shall cover troubleshooting and maintenance as well as minor and major repair procedures. The text shall contain performance specifications, tolerances, and fluid capacities; current, voltage, and resistance data; test procedures; and illustrations and exploded views as may be required to permit proper maintenance by qualified vehicle mechanics. The manual shall contain an alphabetical subject index as well as a table of contents. The service manual shall contain at least the following, where applicable:

1. Fire fighting system schematic(s).
2. Hydraulic schematic.
3. Pneumatic schematic.
4. Electrical schematic.
5. Winterization schematic.
6. Fuel schematic.
7. Schedules for required preventative maintenance and required periodic maintenance.
8. Lubrication locations, procedures, and intervals for parts of the vehicle and equipment that require lubrication.

2.1.1.1.3 Parts Identification Manual.

The parts manual shall include illustrations or exploded views (as needed) to identify properly all parts, assemblies, subassemblies, and special equipment. All components of assemblies shown in illustrations or exploded views shall be identified by reference numbers that correspond to the reference numbers in the parts lists. All purchased parts shall be cross-referenced with the original equipment manufacturer's (OEM) name and part number. The parts identification manual shall provide the description and quantity of each item used for each vehicle. The size, thread dimensions, torque specifications, and special characteristics shall be provided for all nonstandard nuts, bolts, screws, washers, grease fittings, and similar items. The manual shall contain a numerical index. The parts manual shall contain a list of all of the component vendor names, addresses, and telephone numbers referenced in the parts list.

2.1.2 Painting, Plating, and Corrosion Control.

2.1.2.1 Finish.

Exterior surfaces shall be prepared, primed, and painted in accordance with all of the paint manufacturer's instructions and recommendations. Vehicles shall be painted and marked as directed by the Authority. The interior finish of all compartments shall be based on the manufacturer's standard production practice. This may include painting, texturing, coating or machine swirling as determined by the manufacturer. All bright metal and anodized parts, such as mirrors, horns, light bezels, tread plates, and roll-up compartment doors, shall not be painted.

2.1.2.2 Dissimilar Metals.

Dissimilar metals, as defined in MIL-STD-889, Dissimilar Metals, shall not be in contact with each other. Metal plating or metal spraying of dissimilar base metals to provide electromotively compatible abutting surfaces is acceptable. The use of dissimilar metals separated by suitable insulating material is permitted, except in systems where bridging of insulation materials by an electrically conductive fluid can occur.

2.1.2.3 Protection against Deterioration.

Materials that deteriorate when exposed to sunlight, weather, or operational conditions normally encountered during service shall not be used or shall have a means of protection against such deterioration that does not prevent compliance with performance requirements. Protective coatings that chip, crack, or scale with age or extremes of climatic conditions or when exposed to heat shall not be used.

2.1.2.4 Reflective stripes.

A minimum 20 cm horizontal band of high gloss white paint or white reflective tape (Retroreflective, ASTM-D 4956-09, Standard Specification for Retroreflective Sheeting for Traffic Control, TYPE III & above) must be applied around the vehicle's surface.

2.1.2.5 Lettering.

The manufacturer shall apply the airport's 'Name' and 'Insignia' (if available) in a contrasting color or by decal on both sides of the vehicle in long radius elliptical arches above and below the lettering center line. The size of the lettering shall be a minimum of 63.5 mm to a maximum of 150 mm. Reflective lettering is allowed if the material is the same as that which is used for the reflective stripe (as specified in AC 150/5210-5).

2.1.3 Vehicle identification plate.

A permanently marked identification plate shall be securely mounted at the driver's compartment. The identification plate shall contain the following information:

1. NOMENCLATURE
2. MANUFACTURER'S MAKE AND MODEL
3. MANUFACTURER'S SERIAL NUMBER
4. VEHICLE CURB WEIGHT: kg (pounds)
5. PAYLOAD, MAXIMUM: kg (pounds)
6. GROSS VEHICLE WEIGHT (GVW): kg (pounds)
7. FUEL CAPACITY AND TYPE: gals (gallons)
8. DATE OF DELIVERY (month and year)
9. WARRANTY (months and km (miles))
10. CONTRACT NUMBER
11. PAINT COLOR AND NUMBER

A second permanently marked information data plate shall be securely mounted on the interior of the driver's compartment. The plate shall contain the information required by NFPA 414, Standard for Aircraft Rescue and Fire Fighting Vehicles, Section 1.3.5 Vehicle Information Data Plate. A single plate that combines or contains the information required for both plates is acceptable.

2.1.4 Environmental conditions.

Vehicle operation and storage temperature conditions will vary with geographical location. Thus, the locality temperature range can go from -40° to 110°F. Refer to NFPA 414 for vehicle winterization criteria.

2.1.4.2 Extreme temperature range.

The vehicle shall be capable of satisfactory storage and operation in temperatures ranging from -30° to 40°C. The vehicle shall be equipped with a cab, chassis, and agent winterization system, permitting operation at -30°C. The winterization system shall not detract from the performance of the vehicle or the firefighting system in ambient temperatures up to 40°C. The vehicle chassis winterization system shall maintain the engine coolant, lubricants, fuel, and electrical systems operational at ambient temperatures of -30°C. The vehicle agent winterization system shall provide sufficient insulation and heating capacity, by means of hot circulating liquids and/or forced air heat exchangers, to permit satisfactory operation of the vehicle and firefighting systems for a 2-hour period at ambient temperatures as low as -30° C with the vehicle fully operational and the engine running. At the end of this 2-hour period, the vehicle shall be capable of successfully discharging its agents. All compartments not winterized shall be marked as such on the interior of the compartment. The marking shall state that the compartment is not winterized and cannot be used for the storage of items capable of freezing.

2.1.5 Reduction of potential foreign object damage.

All loose metal parts, such as pins, shall be securely attached to the vehicle with wire ropes or chains. Removable exterior access panels, if provided, shall be attached with captive fasteners.

2.1.6 Vehicle Mobility.

2.1.6.1 Operating terrain.

The vehicle shall be capable of operating safely on paved roads, graded gravel roads, cross country terrain, and sandy soil environments. Cross country terrain consists of open fields, broken ground, and uneven terrain. An off-road, high-mobility suspension system resulting in no more than 0.5 G_{rms} acceleration at the driver's seat of the vehicle when traversing an 20 cm diameter half round at 56 kph must be provided. The suspension design by which the manufacturer meets the suspension performance requirements is at the manufacturer's discretion.

2.1.6.2 Gradeability.

The fully loaded vehicle shall be able to ascend any paved slope up to and including 50-percent.

2.1.6.3 Side slope stability.

The fully loaded vehicle shall be stable on a 30° side slope when tested in accordance with NFPA 414.

2.1.6.4 Cornering stability.

The fully loaded vehicle shall be stable in accordance with NFPA 414 when tested in accordance with NFPA 414.

2.2 WEIGHTS AND DIMENSIONS.

2.2.1 Overall dimensions.

The maximum dimensions listed below are desirable to ensure vehicles can be accommodated in existing fire stations. Likewise, the overall dimensions should be held to a minimum that is consistent with the best operational performance of the vehicle and the design concepts needed to achieve this performance and to provide maximum maneuverability in accordance with NFPA 414.

Length : 1100 cm

Width : 315 cm

Height : 391 cm

2.2.2 Angles of approach and departure.

The fully loaded vehicle shall have angles of approach and departure of not less than 30°.

2.2.3 Field of vision.

The vehicle shall have a field of vision in accordance with NFPA

414. 2.2.3.1 Mirrors.

Combination flat and convex outside rearview mirrors shall be installed on each side of the cab. The flat mirrors shall be of the motorized remote control type, providing not less than 60° horizontal rotational viewing range. The flat mirrors shall also have electrically heated heads. Mirror remote and heating controls shall be located on the instrument panel within reach of the seated driver. To provide the driver a clear view of the area ahead of the vehicle and to eliminate potential blind spots, a rectangular mirror shall be installed on the lower corner of each side of the windshield, having a minimum area of 225 square centimeters.

2.3 CHASSIS AND VEHICLE COMPONENTS.

2.3.1 Engine.

The vehicle shall have a turbocharged diesel engine that is certified to comply with the Environmental Protection Agency (EPA) off-highway emission requirements at the time of manufacture. The engine and transmission must operate efficiently and without detrimental effect to any drive train components when lubricated with standard, commercially available lubricants according to the recommendations of the engine and transmission manufacturers.

2.3.1.1 Acceleration.

The fully loaded vehicle shall accelerate from 0 to 80 kilometers per hour (kph) on a level paved road within 25 seconds.

2.3.1.2 Maximum speed.

The fully loaded vehicle shall attain a minimum top speed of 110 kph on a level, paved road.

2.3.1.3 Pump and roll on a 40-percent grade.

The fully loaded vehicle shall be capable of pump and roll operations on a paved, dry, 40-percent grade in accordance with NFPA 414.

2.3.1.4 Altitude.

The vehicle, including the pumping system, shall be designed for operation at 2,000 feet above sea level.

2.3.2 Engine cooling system.

The engine cooling system shall be in accordance with NFPA 414. A label shall be installed near the engine coolant reservoir reading “Engine Coolant Fill.”

2.3.3 Fuel system.

The fuel system shall be in accordance with NFPA 414.

2.3.3.1 Fuel priming pump.

The vehicle shall be equipped with an electric or pneumatic fuel pump in addition to the mechanical fuel pump. The electric/pneumatic pump shall be used as a priming pump capable of re-priming the engines fuel system.

2.3.3.2 Fuel tank.

The vehicle shall have one or two fuel tanks with a minimum usable capacity in accordance with NFPA 414, as amended by NFPA 414. Each tank shall have a fill opening of 75 mm minimum, readily accessible to personnel standing on the ground and designed to prevent fuel splash while refueling. Each tank shall be located and mounted so as to provide maximum protection from damage, exhaust heat, and ground fires. If more than one tank is furnished, means shall be provided to assure equalized fuel level in both tanks. An overturn fuel valve shall be provided for each tank to prevent spillage in the event of a rollover. Each fuel tank must be prominently labeled “Diesel Fuel Only”.

2.3.4 Exhaust system.

The exhaust system shall be in accordance with NFPA 414. The exhaust system shall be constructed of high grade rust resistant materials and protected from damage resulting from travel over rough terrain. The muffler(s) shall be constructed of aluminized steel or stainless steel. Exhaust system outlet(s) shall be directed upward or to the rear, away from personnel accessing equipment compartments and the engine air intake, and shall not be directed toward the ground.

2.3.5 Transmission.

A fully automatic transmission shall be provided. The transmission shall be in accordance with NFPA 414.

2.3.6 Driveline.

The vehicle driveline shall be in accordance with NFPA 414. If the driveline is equipped with a differential locking control, a warning/caution label shall be placed in view of the driver indicating the proper differential locking/un-locking procedures. The operator’s manual shall also include a similar warning/caution. All moving parts requiring routine lubrication must have a means of providing for such lubrication. There must be no pressure lubrication fittings where their normal use would damage grease seals or other parts.

2.3.7 Axle capacity.

Each axle shall have a rated capacity, as established by the axle manufacturer, in accordance with NFPA 414.

2.3.8 Suspension.

The suspension system shall be in accordance with NFPA 414 and AC 150/5220-10, Guide Specification for Aircraft Rescue and Fire Fighting (ARFF) Vehicles.

2.3.9 Tires and wheels.

Tires and wheels shall be in accordance with NFPA 414. The vehicle shall be equipped with single tires and wheels at all wheel positions. The vehicle shall be equipped with tubeless steel belted radial tires with non-directional on/off-road type tread mounted on disc wheel assemblies. Tire and wheel assemblies shall be identical at all positions. Tires and wheels shall be certified by the manufacturer for not less than 40 kilometers of continuous operation at 96 kph at the normal operational inflation pressure. A spare tire and wheel assembly shall be provided; however, the spare tire and wheel assembly are not required to be mounted on the vehicle. Tires shall be new. Retreads, recaps, or re-grooved tires shall not be permitted. Tire bead locks shall be installed on all tires and rims.

2.3.10 Towing connections.

The vehicle shall be equipped with towing connections in accordance with NFPA 414. The vehicle shall be designed for flat towing; the capability to lift and tow the vehicle is not required. The tow connections may intrude into the 30 degree approach angle.

2.3.11 Brake system.

The vehicle shall be equipped with a multi-channel all-wheel antilock brake system with at least one channel for each axle. The brakes shall be automatic, self-adjusting and fully air-actuated. Brakes shall be in accordance with CFR 49 CFR 393.40 through 393.42(b)), 393.43, and 393.43 through 393.52. The braking system, complete with all necessary components shall include:

1. Air compressor having a capacity of not less than 16 standard cubic feet per minute (SCFM).
2. Air storage reservoir(s), each tank equipped with drain (bleed) valves, and with safety and check valves between the compressor and the reservoir tank.
3. Automatic moisture ejector on each air storage reservoir. Manual air tank drains are acceptable if they are labeled, are centrally located in one compartment and are accessible by an individual standing at the side of the vehicle.
4. Automatic slack adjusters on cam brakes or internal self-adjusting brakes on wedge brakes on all axles.
5. Spring set parking brakes.

All components of the braking system shall be installed in such a manner as to provide adequate road clearance when traveling over uneven or rough terrain, including objects liable to strike and cause damage to the brake system components. No part of the braking system shall extend below the bottom of wheel rims, to ensure, in case of a flat tire, that the weight of the vehicle shall be supported by the rim and the flat tire and not be imposed on any component of the braking system. Slack adjusters and air chambers shall be located above the bottom edge of the axle carrier.

2.3.11.1 Air dryer.

A replaceable cartridge desiccant air dryer shall be installed in the air brake system. The dryer shall have the capability of removing not less than 95 percent of the moisture in the air being dried. The dryer shall have a filter to screen out oil and solid contaminants. The dryer shall have an automatic self-cleaning cycle and a thermostatically controlled heater to prevent icing of the purge valve.

2.3.11.2 Compressed air shoreline or vehicle-mounted auxiliary air compressor.

A flush mounted, check valved, auto-eject compressed air shoreline connection shall be provided to maintain brake system pressure while the vehicle is not running. The shoreline shall be flush mounted (not to extend outside the body line), located on the exterior of the vehicle, either on the left side rear corner of the cab, or at the rear of the vehicle. In lieu of a compressed air shoreline connection, the vehicle may be equipped with a 110 volt shoreline connected vehicle-mounted auxiliary air compressor. In lieu of a compressed air shoreline connection, the vehicle may be equipped with an electrical shoreline connected vehicle mounted auxiliary air compressor.

2.3.12 Steering.

The vehicle shall be equipped with power steering. Rear-wheel steering technology is not an approved vehicle option.

2.3.12.2 Steering effort.

The steering system performance shall be in accordance with NFPA 414. 2.3.12.2 Turning diameter.

The fully loaded vehicle shall have a wall to wall turning diameter of less than three times the

overall length of the vehicle in both directions in accordance with NFPA 414.

2.3.13 License plate bracket.

A lighted license plate bracket shall be provided at the left rear and left front of the vehicle. The location of the left front bracket shall be placed so as not to interfere with the operation of fire fighting systems.

2.4 CAB.

The vehicle shall have a fully enclosed two door cab of materials which are corrosion resistant. Steps and handrails shall be provided for all crew doors, and at least one grab handle shall be provided for each crew member, located inside the cab for use while the vehicle is in motion. The lowermost step(s) shall be no more than 55 cm above level ground when the vehicle is fully loaded. A tilt and telescoping steering column shall be provided.

2.4.1 Windshield and windows.

The windshield and windows shall be of tinted safety glass. Each door window shall be capable of being opened far enough to facilitate emergency occupant escape in the event of a vehicle accident. The vehicle windows shall have an electric control system.

2.4.2 Cab interior sound level.

The maximum cab interior sound level shall be in accordance with NFPA 414.

2.4.3 Instruments and controls.

All instruments and controls shall be illuminated and designed to prevent or produce windshield glare. Gauges shall be provided for oil pressure, coolant temperature, and automatic transmission temperature. In addition to the instruments and controls required by NFPA 414, the following shall be provided within convenient reach of the seated driver:

1. Master warning light control switch,
2. Work light switch(es), and
3. Compartment "Door Open" warning light and intermittent alarm that sounds when a compartment door is open and the parking brakes are released or the transmission is in any position other than neutral.

2.4.4 Windshield deluge system.

The vehicle shall be equipped with a powered windshield deluge system. The deluge system shall be supplied from the agent water tank and shall have an independent pumping system. The deluge system activation switch shall be located within reach of the seated driver and turret operator.

2.4.5 Forward Looking Infrared (FLIR).

A forward looking infrared (FLIR) camera and in-cab monitor, meeting the requirements of NFPA 414, shall be provided. In addition, the FLIR monitor described in NFPA 414 shall have a minimum dimension of 25 cm (measured diagonally) and be located in a position where it is visible to both the seated driver and turret operator.

2.4.6 Climate control system.

The manufacturer's standard heater/defroster and air conditioning system shall be provided. The climate control system shall induct at least 1.7 cubic meter per minute of fresh air into the cab. Cab mounted components shall be protected from inadvertent damage by personnel.

2.4.7 Seats.

The driver seat shall be adjustable fore and aft and for height. The turret operator's seat, located to

the right of the driver's seat, shall be a fixed (non-suspension) type. Each seat shall be provided with a Type 3 seat belt assembly (i.e., 3-point retractable restraint) in accordance with CFR 49 CFR 571.209. Seat belts must be of sufficient length to accommodate crew members in full Personal Protective Equipment (PPE).

2.4.7.1. Seat Options.

A Self-Contained Breathing Apparatus (SCBA) seat shall be provided for the driver and turret operator inside the cab. An SCBA seat contains an opening which can accommodate someone wearing an SCBA.

2.4.8 Windshield wipers and washer.

The vehicle shall be equipped with electrically powered windshield wipers. The wiper arms and blades shall be of sufficient length to clear the windshield area. Individual wiper controls shall include a minimum of two speed settings and an intermittent setting. The wiper blades shall automatically return to a park position, out of the line of vision. The vehicle shall be equipped with a powered windshield washer system, including an electric fluid pump, a minimum one gallon fluid container, washer nozzles mounted to the wiper arms (wet arms), and a momentary switch.

2.4.9 Warning signs.

Signs that state "Occupants must be seated and wearing a seat belt when apparatus is in motion" shall be provided in locations that are visible from each seated position.

2.5 BODY, COMPARTMENTS, AND EQUIPMENT MOUNTING.

2.5.1 Body.

The vehicle shall have a corrosion-resistant body.

2.5.2 Compartments.

The vehicle body shall have lighted compartments in accordance with NFPA 414 with a minimum of 0.283 cubic meters of enclosed storage space.

2.5.2.1 Compartment doors.

Storage compartments shall have clear anodized aluminum, counterbalanced, non-locking, roll-up or single hinged doors as determined by the manufacturer. Door latch handles on roll-up doors shall be full-width bar type. Door straps shall be provided to assist in closing the compartment doors when the rolled up or hinged door height exceeds 1.8 m above the ground.

2.5.2.2 Scuffplates.

Replaceable scuffplates shall be provided at each compartment threshold to prevent body damage from sliding equipment in and out of the compartments. The scuffplates shall be securely attached to the compartment threshold but shall be easily replaceable in the event of damage.

2.5.2.3 Drip rails.

Drip rails shall be provided over each compartment door.

2.5.2.4 Shelves.

An adjustable and removable compartment shelf shall be provided for every 45 cm of each vertical storage compartment door opening. Shelving adjustments shall require no more than common hand tools, and shall not require disassembly of fasteners. Shelves shall support a minimum of 90 kg without permanent deformation. Each shelf shall be accessible to crew members standing on the ground or using a pull out and tip-down configuration. Each shelf shall have drain holes located so as to allow for drainage of any water from the stowed equipment.

2.5.2.5 Drainage mats.

Each compartment floor and shelf shall be covered with a removable black mat designed to allow for drainage of any water from the stowed equipment.

2.5.3 SCBA storage tubes.

A single compartment or tubes for storage of four SCBA bottles shall be provided. If tubes are provided, two shall be installed on each side of the vehicle. The tubes shall be of sufficient size to accommodate the procuring agencies SCBA cylinders.

2.5.4 Ladder, handrails, and walkways.

Ladder, stepping, standing, and walking surfaces shall be in accordance with NFPA 414. Handrails shall be provided in accordance with NFPA 414. The lowermost step(s) or ladder rungs shall be no more than 56 cm above level ground when the vehicle is fully loaded. The lowermost steps may extend below the angle of approach or departure or ground clearance limits if they are designed to swing clear. The tread of the bottom steps must be at least 20 cm in width and succeeding steps at least 40 cm in width. The full width of all steps must have at least 15 cm of unobstructed toe room or depth when measured from, and perpendicular to, the front edge of the weight-bearing surface of the step.

2.5.5 Ancillary equipment.

Ancillary equipment listed in NFPA 414 A.4.3.1 (1)-(17) shall be provided with AFFV. Two set of SCBA shall be provided.

2.6 AGENT SYSTEM

2.6.1 Agent (fire) pump.

The vehicle shall be equipped with a centrifugal pump capable of providing the performance specified herein as prescribed by NFPA 414.

2.6.1.1 Agent system piping.

All piping, couplings, and valves and associated components that come into contact with the agent shall be in accordance with NFPA 414.

2.6.1.2 Tank to pump connection.

A check valve and shutoff valve shall be provided in each tank to pump line.

2.6.1.3 Piping, couplings, and valves.

All agent system piping shall conform to NFPA 414 criteria.

2.6.1.4 Overheat protection.

The agent system shall be equipped with an overheat protection system in accordance with NFPA 414. Overheat protection is not required on vehicles utilizing a pre-mixed pressurized foam system.

2.6.1.5 Pressure relief valves.

The agent system shall be equipped with pressure relief valves in accordance with NFPA 414.

2.6.1.6 Drains.

The agent system shall be equipped with a drainage system in accordance with NFPA 414.

2.6.2 Water tank.

The vehicle shall have a water tank with a manufacturer certified minimum capacity of at least 5000 liters.

2.6.2.1 Water tank construction.

The water tank shall be constructed of passivated stainless steel, polypropylene, or Glass Reinforced Polyester (GRP) construction. All materials used shall be capable of storing water, foam concentrate, and water/AFFF solutions.

2.6.2.2 Water tank overhead fill cover and drain.

The water tank shall be equipped with a 50 cm fill tower. The tower shall be designed to allow for video inspection of the water tank interior. The water tank shall incorporate a drainage system in accordance with NFPA 414.

2.6.2.3 Water tank overflow system and venting.

The water tank shall incorporate a venting system to relieve pressure on the tank during fill and discharge operations at maximum flow rates. It shall have an overflow system to relieve excess fluid in the event of tank overflow. Drainage from the vent and overflow system shall not flow over body panels or other vehicle components and shall not be in the track of any of the tires. Tank vent hoses shall be of the non-collapsible type.

2.6.2.4 Water tank top fill opening.

A top fill opening of not less than 20 cm internal diameter with a readily removable 6.25 mm mesh strainer shall be provided. The fill opening may be incorporated as part of the manhole cover, and shall be sized to accommodate a 63.5 mm fill hose.

2.6.2.5 Water tank fill connections.

The water tank shall incorporate National Hose thread connections and shall be in accordance with NFPA 414.

2.6.3 Foam system. (NOTE: The requirements of this section do not apply to pre-mixed pressurized foam systems.)

2.6.3.1 Foam concentrate tank.

The foam concentrate tank(s) shall have a manufacturer certified working capacity sufficient for two tanks of water at the maximum tolerance specified in NFPA 412, Standard for Evaluating Aircraft Rescue and Fire-Fighting Foam Equipment for 3 to 6 percent foam concentrate (i.e., 7.0-percent).

2.6.3.1.1 Foam tank construction.

The foam tank shall be constructed of passivated stainless steel, polypropylene, or GRP construction. All materials used shall be capable of storing foam concentrate.

2.6.3.1.2 Foam tank drain.

The foam tank shall incorporate a drain and drain valve. The valve shall be on the left side of the vehicle and controlled by a crew member standing on the ground. The drain line shall have a minimum 37 mm I.D. The foam tank drain outlet shall be located so that the contents of the tank can be drained into 5-gallon cans and 55-gallon drums.

2.6.3.1.3 Foam tank top fill trough.

The foam tank shall incorporate a top fill trough mounted in the top of the tank readily accessible to at least two crew members on top of the vehicle. The top fill trough shall incorporate a cover, latch, and sealed so as to prevent spillage under any operating condition. The top fill trough shall be designed to allow two standard 5 gallon foam concentrate containers to be emptied simultaneously. The top fill trough neck shall extend sufficiently close to the bottom of the tank to reduce foaming to a minimum during the fill operation. The top fill trough shall incorporate readily removable, rigidly constructed 10 mesh stainless steel, brass or polyethylene strainers. All components in and around the top fill trough shall be constructed of materials that resist all forms of deterioration that could be caused by the foam concentrate or water.

2.6.3.2 Foam tank fill connections.

The foam tank shall incorporate a 37.5 mm National Hose thread female hose connection on the left side of the vehicle to permit filling by an external transfer hose at flow rates up to 25-gpm. The connections shall be provided with chained-on long handled plugs or rocker lug plugs. The top of the connections shall be no higher than 48 inches above the ground and readily accessible. The fill lines shall incorporate check valves and readily removable, rigidly constructed 6 mm mesh strainers. All components in the foam tank fill system shall be constructed of materials that resist all forms of deterioration that could be caused by the foam concentrate or water.

2.6.3.2.1 Foam tank vent and overflow system.

The foam tank shall incorporate a vent system to relieve pressure on the tank during fill and discharge operations at maximum flow rates and an overflow system to relieve excess liquid in the event of tank overflow. Drainage from the vent and overflow system shall not flow over body panels or other vehicle components and shall not be in front of or behind any of the tires. Tank vent hoses shall be of the non-collapsible type.

2.6.3.3 Foam transfer pump.

A foam transfer pump shall be provided and mounted in a compartment on the vehicle. The pump shall be capable of transferring and drawing foam liquid concentrate at adjustable flow rates up to 25-gpm directly through the pump and loading connections (see 2.6.3.2). All materials and components that come in contact with the foam shall be compatible with the foam concentrate. The pump and its plumbing shall have provisions for flushing with water from the water tank. A suitable length of hose with appropriate connections shall be provided for filling the foam tank from an external foam storage container.

2.6.3.4 Foam flushing system.

The foam concentrate system shall be designed in accordance with NFPA 414 so that the system can be readily flushed with clear water.

2.6.3.5 Foam concentrate piping.

All metallic surfaces of the piping and associated components that come into contact with the foam concentrate shall be of brass, bronze, or passivated stainless steel. The foam concentrate piping shall be in accordance with NFPA 414.

2.6.4 Foam proportioning system.

The vehicle shall have a foam proportioning system for Aqueous Film-Forming Foam (AFFF) (whether 3- or 6-percent foam concentrate) in accordance with NFPA 414. If a fixed orifice plate system is used, a plate shall be provided for each percentage foam concentrate; the additional plate shall be securely mounted in a protected location on the vehicle. A fire vehicle mechanic shall be able to interchange the plates using common hand tools.

2.6.5 Primary vehicle turret.

The vehicle shall be equipped with a standard roof-mounted turret, and high flow bumper mounted turret to serve as the primary source of agent delivery, as specified below:

2.6.5.1 Roof turret.

The roof turret shall be mounted near the front of the roof of the vehicle. It shall have a non-air-aspirating, constant flow, variable stream nozzle with dual flow rates for foam or water rated as specified in NFPA 414. The discharge pattern shall be infinitely variable from straight stream to fully dispersed. The roof turret shall be power operated; power controls shall be positioned for use by the driver and the crew member seated to the right of the driver. The type of nozzle or turret drain shall be per the manufacturer's recommendation.

2.6.6 Bumper turret.

The vehicle shall be equipped with a joystick controlled, constant flow, non-air-aspirating, variable stream type: fixed mount low volume single rate (minimum 250 GPM) bumper turret.

The bumper turret shall be capable of discharging at a minimum flow rates of foam or water as 1,000 L/m, with a pattern infinitely variable from straight stream to fully dispersed. The bumper turret shall be capable of automatic oscillation, with the range of oscillation adjustable up to 90° each side of center (left and right) with vertical travel capabilities of +45°/-20°.

2.6.7 Preconnected handline(s).

One 60 m, 44 mm pre-connected woven jacket handline(s), with a 1 1/2-inch control valve and a pistol grip nozzle, shall be located on (or accessible from) left side of the vehicle. A safety system shall be provided to prevent charging of the hose until the hose has been fully deployed. The handline(s) and nozzle(s) shall be in accordance with NFPA 414, and shall allow for a minimum of 95 gpm at 100 psi nozzle pressure. A control for charging the handline shall be provided for operation by both the driver and the turret operator.

2.6.8. Structural fire fighting capability.

The vehicle shall be equipped with an agent system structural control panel, on the left side of the vehicle, operable while standing on the ground. Structural panel activation shall be interlocked to operate only with the vehicle parking brakes set and the transmission in neutral position. Controls and instruments shall be grouped by function. The control panel shall be hinged or accessible from the rear for maintenance. Instruments shall be lighted for night operation.

2.6.8.1 The structural panel shall include, as a minimum, the following:

1. Panel activation switch, including the panel lights.
2. Engine tachometer.
3. Engine oil pressure gauge with low pressure warning light.
4. Engine coolant temperature gauge with high temperature warning light.
5. A liquid filled gauge, or digital indicator for pump suction, -75 mm Hg vacuum to 600 psi.
6. A liquid filled gauge, or digital indicator for pump pressure, 0 to 600 psi.
7. An adjustable pump pressure using either an electronic pressure governor or manual control with a relief valve shall be provided.
8. Foam or water selection.
9. Water and foam tank liquid level indicators, located adjacent to the water and foam tank fills.

2.6.8.2 The structural fire fighting capability shall also require installation of the following items:

1. A priming pump and control (for drafting using the large intake connection).
2. Water tank isolation valve.
3. Discharge connections. Two 63.5 mm discharge connections with male National Hose threads shall be provided. One 63.5 mm discharge shall be provided on each side of the vehicle. Each connection shall be equipped with a cap, a quarter-turn control valve, a bleeder valve, and a pressure gauge. Each connection shall be rated at 250-gpm minimum.
4. Intake connections. The vehicle shall be equipped with one valved 114.3 mm intake connection on the left side. The vehicle shall be equipped with one valved 63.5 mm intake connection on the left side adjacent to the 114.3 mm intake connection with both having either a 30° or 45° turn-down fitting. The 114.3 mm intake connection shall have male National Hose threads, a quarter-turn control valve, a bleeder valve, a strainer, and a cap. The 63.5 mm intake connection shall have rocker lug female National Hose threads, a quarter-turn control valve, a bleeder valve, a strainer, and a plug. The vehicle shall be

capable of filling its water tank by pumping from a draft, a hydrant, or a nurse truck through either of the intake connections without the use of a hose from a discharge connection to a tank fill connection.

2.6.9 Primary turret discharge nozzle.

The vehicle shall be equipped with a complementary agent discharge mounted parallel to the AFFF solution discharge on the primary turret mounted on the front bumper.

2.7 DRY CHEMICAL AGENT SYSTEM.

The vehicle shall be equipped with a 250 kg minimum capacity sodium based dry chemical agent system. The propellant gas cylinder shall be replaceable within fifteen minutes by two crew members standing on the ground and be equipped with a cylinder replacement hoisting system. The propellant gas cylinder shall be secured to withstand off-road operations. A pressure indicator shall be visible to any person opening the tank fill cap. Blow-down piping shall be directed beneath the vehicle. The dry chemical agent tank shall include lifting rings and shall have a nameplate indicating, as a minimum, the following:

1. Extinguishing agent.
2. Capacity.
3. Weight full.
4. Weight empty.
5. Operating pressure.
6. Hydrostatic test date.
7. Type of agent required for re-servicing.

2.7.1 Dry chemical hose reel.

A hose reel, equipped with at least 30 m of dry chemical hose, shall be mounted in a compartment. Handline agent and purge controls shall be mounted in or adjacent to the compartment. All electrical components shall be sealed against entry of water. The hose reel shall have both electric and manual rewind provisions. The manual rewind handle shall be bracket mounted and stored in the compartment. A quick acting control shall be provided to activate the handline from the cab of the vehicle.

2.8 ELECTRICAL SYSTEMS AND WARNING DEVICES.

The vehicle will have a 12-volt or 24-volt electrical and starting system in accordance with NFPA 414.

2.8.1 Alternator.

An appropriate charging system, in accordance with NFPA 414, shall be provided. The minimum continuous electrical load shall include operation of the air conditioning system.

2.8.2 Batteries.

Batteries shall be of the maintenance-free type; addition of water shall not be required during normal service life. The battery cover and vent system shall be designed to prevent electrolyte loss during service and to keep the top of the battery free from electrolyte.

2.8.2.1 Battery compartment.

The batteries shall be enclosed in a weatherproof enclosure, cover, or compartment and be readily accessible.

2.8.3 Battery charger or conditioner.

The vehicle shall have a DC taper type battery charger or an automatic battery conditioner, or voltage monitoring system, providing a minimum 12 amp output. The charger/conditioner shall be permanently mounted on the vehicle in a properly ventilated, accessible location. The charger/conditioner shall be powered from the electrical shoreline receptacle (see 3.10.1). A charging indicator shall be installed next to the receptacle. When a battery conditioner is provided, the conditioner shall monitor the battery state of charge and, as necessary, automatically charge or maintain the batteries without gassing, depleting fluid level, overheating, or overcharging. A slave receptacle shall be provided at the rear or on either side of the vehicle cab. Battery jump studs may be installed on the exterior of the battery box in lieu of a slave receptacle.

2.8.4 (NOT USED)

2.8.5 Work lighting.

2.8.5.1 Cab interior lights.

Cab interior light levels shall be sufficient for reading maps or manuals. At least one red and one white cab interior dome light shall be provided.

2.8.5.2 Compartment lights.

White lighting sufficient to provide an average minimum illumination of 1.0 foot candle shall be provided in each compartment greater than 4.0 cubic feet and having an opening greater than 144 square inches. Where a shelf is provided, this illumination shall be provided both above and below the shelf. All compartments shall be provided with weatherproof lights that are switched to automatically illuminate when compartment doors are opened and the vehicle master switch is in the 'on' position. Light switches shall be of the magnetic (non-mechanical) type.

2.8.5.3 Ladder, step, walkway, and area lights.

Non-glare white or amber lighting shall be provided at ladders and access steps where personnel work or climb during night operations. In addition, ground lighting shall be provided. Ground lights shall be activated when the parking brake is set in accordance with AC 150/5220-10, Guide Specification for Aircraft Rescue and Fire Fighting (ARFF) Vehicles. These area lights shall be controlled with three-way switches on the cab instrument panel and near the light sources. The switch located in the cab shall be a master switch and must be turned on before auxiliary switches near the light sources are operational.

2.8.5.4 Spot/Floodlights.

Two spot/floodlights shall be attached at the end of the primary turret or at the end of the HRET assembly. The lights shall illuminate the area covered by the turret. Both lights shall be controlled from switches in the cab. Halogen or LED lights shall be used.

2.8.5.5 Flood Lights.

Two telescoping floodlights shall be provided. One light shall be mounted on the left and right sides of the vehicle. 1000W Halogen lights or equivalent LED lights shall be used. Both lights shall be mounted on extension tubes and controlled from switches in the cab and manually raised. To prevent these lights from accidental damage, the cab shall be equipped with a visual warning signal to alert the driver if the lights are inadvertently left in the "up" position.

2.8.5.6 Scene Lights.

A total of six high mounted floodlights shall be provided to illuminate the work areas around the vehicle. Two lights shall be mounted on the front and two shall be mounted on each side of the vehicle. The lights shall be powered by the vehicle alternator driven system or auxiliary generator, and the lights in the front shall be controlled from switches in the cab. Halogen or LED lights shall be used.

2.8.6 Audible warning devices.

2.8.6.1 Siren.

The vehicle shall be equipped with an electronic siren system. The amplifier unit shall include volume control and selection of "Radio," "PA," "Manual," "Yelp," "Wail," and "Hi-Lo" (European) modes, and a magnetic noise canceling microphone. The amplifier, microphone, and controls shall be within reach of the driver and the turret operator. Siren activating foot switches shall be located in front of the driver and the turret operator. The siren speaker shall be rated at 100 watts minimum and shall be located in a guarded position as low and as far forward on the vehicle as practical.

2.8.6.2 Horn.

Dual forward facing air horns shall be installed in protected locations near the front of the vehicle. Air horn activating foot switches shall be located in front of the driver and the turret operator.

2.8.7 Emergency warning lights.

All emergency warning lights must meet the requirements of AC 150/5210-5. Where applicable, halogen lights shall be used as the primary light type. Lighting units shall be installed on the top front, sides, and rear of the vehicle to provide 360° visibility. A switch shall be provided on the instrument panel to control all of the top, side, front and rear emergency warning lights. A switch shall also be provided on the instrument panel to disable all lower emergency warning lights when desired. All lighting systems shall meet NFPA 414 emergency lighting criteria.

2.8.7.1 Emergency warning light color.

All emergency warning lights shall meet the requirements of AC 150/5210-5.

2.8.7.2 Headlight flashing system.

A high beam, alternating/flashing, headlight system shall be provided. The headlight flasher shall be separately switched from the warning light panel. All emergency warning lights shall meet the requirements of AC 150/5210-5.

2.8.8 Radio circuit.

The vehicle shall have three separate 30 amp circuits with breakers and connections provided in a space adjacent to the driver and turret operator for installation of radios and other communications equipment after the vehicle has been delivered. To facilitate the installation of the communications equipment the manufacturer shall provide three antennas pre-installed on top of the cab. Radios are an airport responsibility and not part of this specification.

2.8.9 Power receptacles.

2.8.9.1 Primary power receptacles.

The vehicle shall have two duplex 15-amp 110-volt power receptacles, one installed adjacent to the cab door on each side of the vehicle. Each duplex receptacle shall include one straight blade and one twist-lock connection. These outlets shall be powered by the generator.

2.8.9.2 Auxiliary power receptacles.

The vehicle shall have 2-12-volt auxiliary power receptacles mounted adjacent to the driver and crew member positions, preferably in the instrument panel.

2.8.10 Auxiliary generator.

A minimum 8 kilowatt (kW) (continuous rating), 120/240-volt, 60 hertz, diesel, hydraulic, or split shaft Power Takeoff (PTO)-driven generator shall be provided.

2.9 LINE VOLTAGE ELECTRICAL

SYSTEM. 2.9.1 Electrical shoreline connection.

The battery charger/conditioner shall be powered from a covered, polarized, insulated, labeled, recessed (flush mounted), male, 110 volt AC auto-eject receptacle. The connection shall be located on the exterior of the vehicle at the rear or on either side of the cab. A weatherproof charge meter shall be installed next to the receptacle. A 15 amp rated, 110-120 volt, AC straight blade (non twist-lock) connector shall be provided.

2.10 AIR SYSTEMS.

2.10.1 Air hose reel.

An air hose reel shall be provided in an enclosed compartment on the vehicle. The hose reel shall be equipped with 60 m of 9.5 mm I.D. hoseline. A 9.5 mm National Pipe Taper (NPT) fitting and female style quick disconnect shall be connected to the end of the hoseline. A four-way roller guide shall be provided for the hose reel to prevent hose chafing and kinking. The hoseline shall be equipped with a rubber ball stop to prevent hose pull through on roller guides during rewinding operations. The hose reel shall have an electric rewind motor and provisions for manual rewind in the event of motor failure; the manual rewind handle shall be securely stored near the hose reel. A pressure protected air supply from the chassis air system shall be connected to the hose reel. The air supply lines shall be routed with minimum bends and located or guarded from damage from the carried equipment.

2.11 QUALITY OF WORKMANSHIP.

The vehicle, including all parts and accessories, shall be fabricated in a thoroughly workmanlike manner. Particular attention shall be given to freedom from blemishes, burrs, defects, and sharp edges; accuracy of dimensions, radii of fillets, and marking of parts and assemblies; thoroughness of welding, brazing, soldering, riveting, and painting; alignment of parts; tightness of fasteners; et cetera. The vehicle shall be thoroughly cleaned of all foreign matter.

PART 3 EXECUTION

3.1 CONFORMANCE INSPECTION.

The vehicle shall be subjected to the examinations and tests as specified herein. The contractor shall provide or arrange for all test equipment, personnel, and facilities.

3.2 PRODUCT CONFORMANCE.

The products provided shall meet the performance characteristics of this Specification, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The Employer reserves the right to require proof of such conformance.

3.3 TECHNICAL PROPOSAL.

The Contractor shall provide an itemized technical proposal that describes how the proposed model complies with each characteristic of this Specification; a paragraph by paragraph response to the characteristics section of this Specification shall be provided. The Contractor shall provide two copies of their commercial descriptive catalogs with their offer as supporting reference to the itemized technical proposal. The Contractor shall identify all modifications made to their commercial model in order to comply with the requirements herein. The Employer reserves the right to require the offeror/contractor to prove that their product complies with the referenced commerciality requirements and each conformance/performance characteristics of this Specification.

3.4 INSPECTION REQUIREMENTS.

3.4.1 General inspection requirements.

Apparatus used in conjunction with the inspections specified herein shall be laboratory precision type, calibrated at proper intervals to ensure laboratory accuracy.

3.4.2 Test rejection criteria.

Throughout all tests specified herein, the vehicle shall be closely observed for the following conditions, which shall be cause for rejection:

1. Failure to conform to design or performance requirements specified herein or in the contractor's technical proposal.
 2. Any spillage or leakage of any liquid, including fuel, coolant, lubricant, or hydraulic fluid, under any condition, except as allowed herein.
 3. Structural failure of any component, including permanent deformation, or evidence of impending failure.
 4. Evidence of excessive wear.
 5. Interference between the vehicle components or between the vehicle, the ground, and all required obstacles, with the exception of normal contact by the tires.
 6. Misalignment of components.
 7. Evidence of undesirable roadability characteristics, including instability in handling during cornering, braking, and while traversing all required terrain.
 8. Conditions that present a safety hazard to personnel during operation, servicing, or maintenance.
 9. Overheating of the engine, transmission, or any other vehicle component.
 10. Evidence of corrosion.
 11. Failure of the fire fighting system and sub-
- systems.

3.4.3 Detailed inspection requirements.

3.4.3.1 Examination of product.

All component manufacturers' certifications, as well as the prototype and production/operational vehicle testing outlined in Table 1, shall be examined to verify compliance with the requirements herein. Attention shall be given to materials, workmanship, dimensions, surface finishes, protective coatings and sealants and their application, welding, fastening, and markings. Proper operation of vehicle functions shall be verified as defined by NFPA 414, Acceptance Criteria chapter. A copy of the vehicle manufacturer's certifications shall be provided with each vehicle in accordance with NFPA 414. The Employer may accept a manufacturer or third party certification for any/all prototype and production/operational vehicle testing performed prior to delivery which proves that the vehicle meets the performance parameters of NFPA 414.

3.5 PACKAGING.

Preservation, packing, and marking shall be as specified in the Specification, contract or delivery order.

The vehicle must be delivered with full operational quantities of lubricants, brake and hydraulic fluids, and cooling system fluid all of which must be suitable for use in the temperature range expected at the airport.

The vehicle must be delivered with one complete load of fire fighting agents and propellants. One complete load is defined as all of the agents and propellants necessary for the vehicle to be fully operational. One load would include, at a minimum: one fill of a foam tank; one fill of a dry chemical tank; one spare nitrogen cylinder for a dry chemical system (if applicable); and one spare argon cylinder for a halogenated system (if applicable). Agents and propellants for required testing or training are not included. For the initial training period, water should be used in place of other extinguishing agents. The manufacturer may pre-ship agents and propellants to a receiving airport to reduce overall procurement costs.

The vehicle manufacturer must provide initial adjustments to the vehicle for operational readiness and mount any ancillary appliances purchased through the vehicle manufacturer as part of the vehicle.

THE OFFERED PRODUCTS ARE IN ACCORDANCE WITH THE REQUIRED SPECIFICATIONS AND TECHNICAL REQUIREMENTS:

YES NO

ANY DEVIATIONS MUST BE LISTED BELOW:

4. Inspections and Tests

The Vendor shall get the Goods inspected by a competent authority and submit an inspection test certificate and also a guarantee/warranty certificate that the Goods conform to laid down specifications.

UNOPS or its representative may inspect and/or test any or all item of the Goods to confirm their conformity to the Contract, prior to dispatch from the manufacturer's premises. Such inspection and clearance will not prejudice the right of the consignee to inspect and test the Goods on receipt at destination.

If the Goods fail to meet the laid down specifications, the supplier shall take immediate steps to remedy the deficiency or replace the defective Goods to the satisfaction of the Purchaser.

All component manufacturers' certifications, as well as the prototype and production/operational vehicle testing outlined in Table 1, shall be examined to verify compliance with the requirements herein. Attention shall be given to materials, workmanship, dimensions, surface finishes, protective coatings and sealants and their application, welding, fastening, and markings. Proper operation of vehicle functions shall be verified as defined by NFPA 414, Acceptance Criteria chapter. A copy of the vehicle manufacturer's certifications shall be provided with each vehicle in accordance with NFPA 414. The Employer may accept a manufacturer or third party certification for any/all prototype and production/operational vehicle testing performed prior to delivery which proves that the vehicle meets the performance parameters of NFPA 414.

The following inspections and tests shall be performed:

Vehicle Test Data

NFPA 414 paragraph	Test
Production Vehicle Operational Tests (NFPA 414 - Section 6.4)	
(6.4.1)	Vehicle Testing, Side Slope
(6.4.2)	Weight / Weight Distribution
(6.4.3)	Acceleration. NOTE: With the modification that the instrumentation must be a GPS-based electronic data collection system.
(6.4.4)	Top Speed
(6.4.5)	Brake Operational Test
(6.4.6)	Air System / Air Compressor Test
(6.4.7)	Agent Discharge Pumping Test
(6.4.8)	Dual Pumping System Test (As Applicable)
(6.4.9)	Pump and Maneuver Test
NFPA 414	Test
(6.4.10)	Hydrostatic Pressure Test
(6.4.11)	Foam Concentration Test
(6.4.12)	Primary Turret Flow Rate Test
(6.4.13)	Piercing/Penetration Nozzle Testing (As Applicable)
Prototype Vehicle Tests (NFPA 414 – Section 6.3)	
(6.3.1)	Rated Water and Foam Tank Capacity Test
(6.3.2)	Cornering Stability. NOTE: With the modification that the evasive maneuver / double-lane change test must be conducted at 35 mph (56 kph).

(6.3.3)	Vehicle Dimensions
(6.3.4)	Driver Vision Measurement
(6.3.5)	Pump and Roll on a 40 Percent Grade
(6.3.6)	Electrical Charging System
(6.3.7)	Radio Suppression
(6.3.8)	Gradability Test
(6.3.9)	Body and Chassis Flexibility Test
(6.3.10)	Service/Emergency Brake Test
(6.3.11)	Service/Emergency Brake Grade Holding Test
(6.3.12)	Steering Control Test
(6.3.13)	Vehicle Clearance Circle Test
(6.3.14)	Agent Pump(s)/Tank Vent Discharge Test
(6.3.15)	Water Tank Fill and Overflow Test
(6.3.16)	Flushing System Test
(6.3.17)	Primary Turret Flow Rate Test
(6.3.18)	Primary Turret Pattern Test
(6.3.19)	Primary Turret Control Force Measurement
(6.3.20)	Primary Turret Articulation Test
(6.3.21)	Handline Nozzle Flow Rate Test
(6.3.22)	Handline Nozzle Pattern Test
(6.3.23)	Ground Sweep/Bumper Turret Flow Rate Test
(6.3.24)	Ground Sweep/Bumper Turret Pattern Control Test
(6.3.25)	Undertruck Nozzle Test
(6.3.26)	Foam Concentration/Foam Quality Test
(6.3.27)	Warning Siren Test
(6.3.28)	Propellant Gas
(6.3.29)	Pressure Regulation
(6.3.30)	AFFF Premix Piping and Valves
(6.3.31)	Pressurized Agent Purging and Venting
(6.3.32)	Complementary Agent Handline Flow Rate and Range
(6.3.33)	Dry Chemical Turret Flow Rate and Range
(6.3.34)	Cab Interior Noise Test

Section IV. General Conditions for Goods

In the event of an order, the UNOPS General Conditions will apply. The conditions are available at: <http://www.unops.org/english/whatweneed/Pages/Guidelinesforsuppliers.aspx> under “Guidelines to suppliers > UNOPS general conditions of contract”. If your company is unable to access the document, please send an email request to: Mahbobulhaqf@unops.org and the UNOPS General Conditions will be sent to you electronically.

Section V. Special Conditions of Contract

1. Contract Price (see GCG clause 3):

The prices charged for the Goods supplied and the related Services performed shall not be adjustable.

2. Packaging of the Goods (see GCG clause 4):

The Vendor shall:

- Ensure that machineries should be prepared according to industry standard export protection for sea voyage. All tools, spare parts, mirrors, and other easily removable items and manuals to be enclosed in secure pilfer-proof packaging.
- Ensure that consignment to be marked as indicated in the Contract.
- Ensure that each case/crate/carton must carry a consecutive number, dimensions, volume, and weight (i.e. Case No. X of Y cases, A x B x C cm, E m³, D kg). Markings must be done with weatherproof material.
- Each case/crate/carton must carry outside a copy of the packing list describing the contents of the case/crate/carton. Outside case No. 1 should be attached a full set of invoices covering the actual delivery. It is preferred that the accompanying papers be made out in the *English* language
- Ship the Goods in 20 / 40 foot containers,

Etc.

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

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

- c. The packing, marking and documentation within and outside the packages shall be:

Contract No.

UNOPS/AGOC/ITB/010/013–Re-tender Project no. 00082996

Purchaser. United Nations Office of Project Services (UNOPS) - AGOC

Description of Items-----

Destination -----

Overall Dimensions ----

Gross Weight: -----

Net Weight: -----

Package No -----

Consignee.:

United Nations Office for Project Services, Afghanistan Operations Centre, Jalalabad Industrial Zone, Kabul, Afghanistan

3. Transportation and Freight (see GCG clause 5):

Responsibility for transportation of the Goods shall be as specified in the Incoterms 2010.

All non-containerized Goods must be shipped below deck

Partial shipment *is not* allowed. Transshipment *is not* allowed.

The vessel should preferably be no more than 15 years old. However, well-maintained vessels over 15 years of age will be considered subject to prior approval by UNOPS insurance broker /cargo underwriters. In the event an over-age vessel is proposed, there will be an additional surcharge according to the following schedule of charges that will be borne by the Vendor:

- All Vessels 16 to 20 Years Old: 0.70 per \$100 of insured value

- All Vessels 21 to 25 Years Old: 1.30 per \$100 of insured value

4. Delivery of Goods (see GCG clause 7):

1. For FCA Shipment

Upon hand-over to the freight forwarder a fax or e-mail must be sent to:

- UNOPS/Afghanistan Operations Centre, ATTENTION: Mahbobulhaq FAIZI on E-MAIL mahbobulhaqf@unops.org
- Consignee [United Nations Office for Project Services, Afghanistan Operations Centre, Jalalabad Industrial Zone, Kabul, Afghanistan] on E-MAIL ADDRESS mahbobulhaqf@unops.org
- [IF APPLICABLE] Notify Party [NAME] on [FAX No./E-MAIL ADDRESS]

Advising that the Goods have been delivered to the freight forwarder.

Details of Shipping and other Documents to be furnished by the Supplier:

First set of shipping documents to be delivered to freight forwarder upon hand-over:

[NAME OF FORWARDER]

[ADDRESS], [COUNTRY]

[TEL/FAX:], [EMAIL:]

- Supplier's Invoice in the name of UNOPS: 1 original & 2 certified copies
- Packing List: 2 copies
- Inspection Certificate issued by nominated inspection agency: 1 original & 1 copy
- Manufacturer's Warranty's Certificate: 1 original & 1 copy

Etc.

2. DAP by sea/surface

Immediately upon shipment a fax or e-mail must be sent to:

- UNOPS/Afghanistan Operations Centre, ATTENTION: Mahbobulhaq FAIZI on E-MAIL mahbobulhaqf@unops.org
- Consignee [United Nations Office for Project Services, Afghanistan Operations Centre, Jalalabad Industrial Zone, Kabul, Afghanistan] on E-MAIL ADDRESS mahbobulhaqf@unops.org
- [IF APPLICABLE] Notify Party [NAME] on [FAX No./E-MAIL ADDRESS]

advising: Contract Number, Project No., Number of boxes/crates, Total weight net/gross in kg, Total cubic meters, ETD port of shipment, Name of vessel, ETA to final destination and including a copy of the invoice & shipping documents.

Details of Shipping and other Documents to be issued and forwarded immediately upon shipment of the Goods, to the following address:

United Nations Office for Project Services, Afghanistan Operations Centre, Jalalabad Industrial Zone, Kabul, Afghanistan

(Through) Bill of Lading in the name of Consignee marked "CLEAN ON BOARD" and "FREIGHT PRE-PAID". (Through) Bill of Lading must carry the following text under Shipper: "ON BEHALF OF UNOPS": 1 original & 2 copies

- Invoice in the name of UNOPS: 1 original & 2 certified copies
- Packing List: 2 copies
- Inspection Certificate issued by nominated inspection agency: 1 original & 1 copy
- Manufacturer's Warranty's Certificate: 1 original & 1 copy

Etc.

The above documents shall be received by UNOPS well in advance of the arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.

5. Inspection of the Goods (see GCG clause 8):

The Inspections and tests shall be conducted at:

Bamyan Airport

Bamyan Province of Afghanistan.

6. Acceptance of Goods (see GCG clause 9):

For payment purposes the following documents must be sent to:

**UNOPS- AGOC Procurement Unit,
United Nations Office for Project Services (UNOPS)
UNOCA Compound, Jalalabad Road Industrial Zone
Kabul, Afghanistan**

- Invoice in the name of UNOPS: 1 original & 2 copies
- Packing List: 1 original & 2 copies
- (Through) Bill of Lading in the name of Consignee: 1 original of the negotiable, clean, onboard Bill Of Lading marked “Freight Prepaid” and showing purchaser as United Nations Office for Project Services (UNOPS), Afghanistan Operations Centre (AGOC), Kabul, Afghanistan and Notify Party as shown in the contract.
- Inspection Certificate issued by nominated inspection agency: 1 original & 1 copy
- Manufacturer’s Warranty’s Certificate: 1 original & 1 copy
- Certificate of Origin: 1 original
- Delivery Receipt signed by Consignee: 1 original

IMPORTANT: Any change to the bank details should be notified to UNOPS immediately. Failure to do so might lead to delay in payment, for which UNOPS will not be held responsible.

Payment will be effected within thirty (30) days of receipt of the above documents by this office,

Above documents must be sent to:

**UNOPS- AGOC Procurement Unit,
United Nations Office for Project Services (UNOPS)
UNOCA Compound, Jalalabad Road Industrial Zone
Kabul, Afghanistan**

7. Performance Security (see GCG clause 12):

A Performance Security shall not be required.

8. Warranties (see GCG clause 13):

The period of validity of the Warranty shall be: minimum 365 days

For purposes of the Warranty, the place(s) of final destination(s) shall be:

UNOPS office

Bamyan Airport

Bamyan Province, Afghanistan.

The period for repair or replacement shall be: 30 days.

9. Liquidated Damages (see GCG clause 16):

The liquidated damage shall be: 0.75 % per day. The maximum amount of liquidated damages shall be: 10%

Section VI. Contract Forms

Table of Forms

1. Contract Form
2. Performance Security
3. Bank Guarantee for Advance Payment

1. Contract Form

In the event of a Contract, the successful Bidder shall receive this form duly filled.

Purchase Order No.:		Project No. :			
P.O. DATE :	IMPORTANT: All shipments, invoices and correspondence must show PURCHASE ORDER and PROJECT NUMBERS.				
SHIP BY:					
CONSIGNEE:		VENDOR N°:			
Attn.:		Attn.:			
Tel.:		Tel.:			
Fax:		Fax:			
DELIVERY TERMS (INCOTERMS 2010):					
PAYMENT TERMS:					
ITEM	DESCRIPTION	QTY	U/M	UNIT PRICE	TOTAL PRICE
1					
2					
Special Terms and Conditions					
A. This purchase order is subject to our Invitation to Bid, Ref. No.: XXXXX dated XXXXX and according to your offer dated; B. Notify Party; C. Final Destination; D. Other information, if any;; E. Attachments: General Conditions for Goods, Packing and Shipping Instructions, others if any.					
CURRENCY :			GRAND TOTAL:		
Date:					
Queries should be addressed to:					
Buyer: Name, Title, Tel.					
ON BEHALF OF UNOPS:					
Name of Procurement Authority, Title, Business Unit					
ACKNOWLEDGEMENT COPY:					
Vendor's Signature:			Date:		
UNOPS, Office, Address, Country, Tel, Fax					
<p>This Purchase Order may only be accepted by the Vendor's signing and returning the Acknowledgement Copy. Acceptance of this Purchase Order shall effect a Contract between the Parties under which the rights and obligations of the Parties shall be governed solely by the Conditions of this Purchase Order, including the General Conditions for Goods of the United Nations Office for Project Services (UNOPS) and any UNOPS attachments (hereinafter collectively referred to as "This Contract"). No additional or inconsistent provisions proposed by the Vendor shall bind UNOPS unless agreed to in writing by a duly authorised official of UNOPS. UNOPS General Conditions for Goods are available at UNOPS website at http://www.unops.org/english/whatweneed/Pages/Guidelinesforsuppliers.aspx under General conditions of contract. If your company is unable to access the document, Please send an e-mail or fax request to: insert e-mail address and fax number of contact person and the UNOPS General Conditions for Goods will be sent to you electronically or by fax.</p>					

2. Performance Security

Date: *[insert date (as day, month, and year) of Bid Submission]*
ITB No. and title: *[insert no. and title of bidding process]*

Bank's Branch or Office: *[insert complete name of Guarantor]*

Beneficiary: *[insert legal name and address of UNOPS]*

PERFORMANCE GUARANTEE No.: *[insert Performance Guarantee number]*

We have been informed that *[insert complete name of Supplier]* (hereinafter called "the Supplier") has entered into Contract No. *[insert number]* dated *[insert day and month]*, *[insert year]* with you, for the supply of *[description of Goods and related Services]* (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 hereby irrevocably undertake to pay you any sum(s) not exceeding **[5%¹]** *in figures and words* upon receipt by us of your first demand in writing declaring the Supplier to be in default under the Contract, without cavil or argument, or your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This Guarantee shall expire no later than the *[insert number]* day of *[insert month]* *[insert year]*,² and any demand for payment under it must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458, except that subparagraph (ii) of Sub-article 20(a) is hereby excluded.

[signatures of authorized representatives of the bank and the Supplier]

¹ The Bank shall insert the amount(s) specified in the SCG and denominated, as specified in the SCG, either in the currency(ies) of the Contract or a freely convertible currency acceptable to UNOPS.

² Dates established in accordance with Clause 12 of the General Conditions of Contract ("GCG"). UNOPS should note that in the event of an extension of the time to perform the Contract, UNOPS would need to request an extension of this Guarantee from the Bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee. In preparing this Guarantee, UNOPS might consider adding the following text to the Form, at the end of the penultimate paragraph: "We agree to a one-time extension of this Guarantee for a period not to exceed *[six months]* *[one year]*, in response to UNOPS's written request for such extension, such request to be presented to us before the expiry of the Guarantee."

3. Bank Guarantee for Advance Payment

The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated.

Date: *[insert date (as day, month, and year) of Bid Submission]*
ITB No. and title: *[insert number and title of bidding process]*

[bank's letterhead]

Beneficiary: *[insert legal name and address of UNOPS]*

ADVANCE PAYMENT GUARANTEE No.: *[insert Advance Payment Guarantee no.]*

We, *[insert legal name and address of bank]*, have been informed that *[insert complete name and address of Supplier]* (hereinafter called "the Supplier") has entered into Contract No. *[insert number]* dated *[insert date of Agreement]* with you, for the supply of *[insert types of Goods to be delivered]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance is to be made against an advance payment guarantee.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount(s)³ in figures and words]* upon receipt by us of your first demand in writing declaring that the Supplier is in breach of its obligation under the Contract because the Supplier used the advance payment for purposes other than toward delivery of the Goods.

It is a condition for any claim and payment under this Guarantee to be made that the advance payment referred to above must have been received by the Supplier on its account *[insert number and domicile of the account]*

This Guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until *[insert date⁴]*.

This Guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

[signature(s) of authorized representative(s) of the bank]

³ *The bank shall insert the amount(s) specified in the SCG and denominated, as specified in the SCG, either in the currency(ies) of the Contract or a freely convertible currency acceptable to UNOPS.*

⁴ *Insert the Delivery date stipulated in the Contract Delivery Schedule. UNOPS should note that in the event of an extension of the time to perform the Contract, UNOPS would need to request an extension of this Guarantee from the bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee. In preparing this Guarantee, UNOPS might consider adding the following text to the Form, at the end of the penultimate paragraph: "We agree to a one-time extension of this Guarantee for a period not to exceed [six months] [one year], in response to UNOPS's written request for such extension, such request to be presented to us before the expiry of the Guarantee."*