Request for Bids
Goods
(Two-Envelope Bidding Process)

Procurement of:
Supply of Ambulances (100 Basic Life Support-BLS & 40 Advance Life Support-ALS) for Health Department, Uttarakhand

RFB No: *02/PIU-HEALTH/CERC/UDRP-AF/2020*

Project: *Supply of Ambulances (100 Basic Life Support-BLS & 40 Advance Life Support-ALS) for Health Department, Uttarakhand*

Purchaser: *Program Manager, PIU-Health, UDRP-AF*

Country: *India*

Issued on: *01.07.2020*

National Competitive Bidding for Supply of Ambulances (100 Basic Life Support- BLS & 40 Advance Life Support- ALS) for Health Department, Uttarakhand

Time Schedule for the Bids:

Package No.	02/PIU-HEALTH/CERC/UDRP-AF/2020
Date of commencement of downloading of bid document	July 01, 2020, Time: 1500 HOURS
Last date for seeking clarification if any	July 05, 2020, Time: 1100 HOURS
Pre-Bid Meeting	July 07, 2020, Time: 1100 HOURS
Bid Submission Start Date	July 09, 2020, Time: 1500 Hours
Last date for down loading of bid document from the E-procurement platform: http://uktenders.gov.in	July 17, 2020, Time: 1100 HOURS
Last date and time for bid submission/uploading of bid in E-procurement platform	July 17, 2020, Time: 1100 HOURS
Last date and time for the receipt of original documents as per Clause No. ITB 11.2	July 17, 2020, Time: 1100 HOURS
Time and date of opening of Technical bid of bids	July 17, 2020, Time: 1500 HOURS
Date and time of opening of Commercial bid of bids	Shall be informed later
Place of opening of bids and address for communication	PIU–Health, UDRP-AF, DDPM Tower, 4th Floor, Ajabpur Khurd, Haridwar Bypass Road, Dehradun – 248001, Uttarakhand

Note:

(1) In the event of the specified date of opening of bids being declared a holiday for the Purchaser, the bids shall be opened on the next working day at the same time and venue.

(2) Completed bids shall be uploaded on the e-procurement platform by the Bidders using their user ID and addressed to the Program Manager in the manner described under Instructions to Bidders Section II of Bid Documents on or before the stipulated last date & time.

SECTION I: INVITATION FOR BIDS (IFB)

National Competitive Bidding for
Supply of Ambulances (100 Basic Life Support- BLS & 40 Advance Life Support-ALS) for Health Department, Uttarakhand

INVITATION FOR BIDS (IFB)

Date	:	July, 01, 2020
Credit No.	:	89210-IN
IFB No.	:	02/PIU-HEALTH/CERC/UDRP-AF/2020

1. The Government of India has received a Credit from the International Bank for Reconstruction and Development towards the cost of **Uttarakhand Disaster Recovery Project-Additional Financing** and it is intended that part of the proceeds of this credit will be applied to eligible payments under the contracts for which this Invitation for Bids is issued.

2. The Office of Program Manager, Project Implementation Unit-Health, UDRP-AF (Purchaser) now invites Bids under e-procurement system (Two cover) from eligible bidders for National Competitive Bidding for **Supply of Ambulances (100 Basic Life Support- BLS & 40 Advance Life Support-ALS) for Health Department, Uttarakhand**
3. under Uttarakhand Disaster Recovery Project – Additional Financing (UDRP-AF)

4. Bidders are advised to note the eligible criteria as given in ITB Clause 4 & 5 and qualification criteria specified in Section III to qualify for award of the contracts. The Bidders are required to submit bids consisting of documents/information as specified in clause 11 of ITB.

5. The bid document is available online and bids are to be submitted online through the e-procurement portal http://uktenders.gov.in only. Bids submitted in any other manner will not be accepted. Bidders are required to obtain Level III Digital signature from designated firms (available on e-proc. Portal and then register with the Government of Uttarakhand e-procurement platform and submit bids by using their user ID and Digital Signature.

6. Bidders must provide Bid Security as specified in the bid document and pay the bid processing fee as per requirement.

7. Bids along with necessary enclosures must be uploaded to the website http://uktenders.gov.in as per bid schedule mentioned in page 02 and first cover of the bids will be opened at the specified venue on the stipulated date and time, in the presence of the bidders or their authorized representatives who wish to attend. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened on the next working day at the same time and venue.

8. The commercial bids of the bidders who are technically qualified/responsive will be opened through e-procurement portal on a date to be notified later.

9. Other details can be seen in the bid documents.

Program Manager
PIU-Health, UDRP-AF

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Section I. Instructions to Bidders

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Section I. Instructions to Bidders

A. General

Scope of Bid

1.1 The Purchaser **indicated in the Bidding Data Sheet (BDS),** issues these Bidding Documents for the supply of Goods and Related Services incidental thereto as specified in Section VI, Schedule of Requirements. The name and identification number of this National Competitive Bidding (NCB) procurement are **specified in the BDS.** The name, identification, and number of packages are **provided in the BDS.**

1.2 Throughout these Bidding Documents:

(a) the term "in writing" means communicated in written form (e.g. by mail, e-mail, fax, telex) with proof of receipt;

(b) if the context so requires, "singular" means "plural" and vice versa; and

(c) "Day" means calendar day.

Source of Funds

2.1 The Government of India (hereinafter called "Borrower") **specified in the BDS** has applied for or received financing (hereinafter called "funds") from the International Development Association (hereinafter called "the Bank") toward the cost of the project **named in the BDS.** The Borrower intends to apply a portion of the funds to eligible payments under the contract for which these Bidding Documents are issued.

2.2 Payments by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the financing agreement between the Borrower and the Bank (hereinafter called the Loan Agreement), and will be subject in all respects to the terms and conditions of that Loan Agreement. The Loan Agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan Agreement or have any claim to the funds.

Fraud and Corruption

3.1 It is the Bank's policy to require that Borrowers (including beneficiaries of Bank loans), as well as bidders, suppliers, and contractors and their subcontractors under Bank-financed contracts, observe the highest standard of ethics during the

procurement and execution of such contracts.[1] In pursuance of this policy, the Bank:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) "corrupt practice"[2] is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

(ii) "fraudulent practice"[3] is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) "collusive practice"[4] is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(iv) "coercive practice"[5] is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(v) "obstructive practice" is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(bb) acts intended to materially impede the exercise

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1 *In this context, any action taken by a bidder, supplier, contractor, or a sub-contractor to influence the procurement process or contract execution for undue advantage is improper.*

2 *"another party" refers to a public official acting in relation to the procurement process or contract execution]. In this context, "public official" includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.*

3 *a "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.*

4 *"parties" refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non competitive levels.*

5 *a "party" refers to a participant in the procurement process or contract execution.*

of the Bank's inspection and audit rights provided for under sub-clause 3.1 (e) below.

(b) will reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;

(c) will cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur;

(d) will sanction a firm or individual, including declaring ineligible, either indefinitely or for a stated period of time, to be awarded a Bank-financed contract if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, a Bank-financed contract; and

(e) will have the right to require that a provision be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers, and contractors and their sub-contractors to permit the Bank to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by the Bank.

3.2 Furthermore, Bidders shall be aware of the provision stated in Sub-Clause 35.1 (a) (iii) of the General Conditions of Contract.

Eligible Bidders

4.1 A Bidder, and all parties constituting the Bidder, may have the nationality of any country, subject to the restrictions specified in Section V, Eligible Countries. A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including Related Services.

4.2 A Bidder shall not have a conflict of interest. All bidders found to have conflict of interest shall be disqualified. Bidders may be considered to have a conflict of interest with one or more parties in this bidding process, if they:

(a) are or have been associated in the past, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under these Bidding Documents ; or

(b) submit more than one bid in this bidding process, except for alternative offers permitted under ITB 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 the Bank in accordance with ITB Clause 3, at the date of contract award, shall be disqualified. The list of debarred firms is available at the electronic address specified in the **BDS.**

4.4 A firm that has been determined to be ineligible by the Bank in relation to the Bank Guidelines On Preventing and Combating Fraud and Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants shall not be eligible to be awarded a contract.

4.5 Government-owned enterprises in the Borrower's Country shall be eligible only if they can establish that they (i) are legally and financially autonomous, (ii) operate under commercial law, and (iii) are not a dependent agency of the Purchaser or Borrower or Sub-Borrower.

4.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

Eligible Goods and Related Services

5.1 All the Goods and Related Services to be supplied under the Contract and financed by the Bank may have their origin in any country in accordance with Section V, Eligible Countries.

5.2 For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, installation, training, and initial maintenance.

5.3 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

Sections of Bidding Documents

6.1 The Bidding Documents consist of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addendum issued in accordance with ITB Clause 8.

PART 1 Bidding Procedures

- Section I. Instructions to Bidders (ITB)
- Section II. Bidding Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria
- Section IV. Bidding Forms
- Section V. Eligible Countries

PART 2 Supply Requirements

- Section VI. Schedule of Requirements

PART 3 Contract

- Section VII. General Conditions of Contract (GCC)
- Section VIII. Special Conditions of Contract (SCC)
- Section IX. Contract Forms

6.2 The Invitation for Bids issued by the Purchaser is not part of the Bidding Documents.

6.3 The Purchaser is not responsible for the completeness of the Bidding Documents and their addendum, if they were not obtained directly from the Purchaser.

6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Documents may result in the rejection of the bid.

Clarification of Bidding Documents

7.1 A prospective Bidder requiring any clarification of the Bidding Documents shall notify on line the authority inviting the bid**.** The authority inviting the bid will respond to any request(s) for clarification, received earlier than ten (10) days prior to the deadline for submission of bids. Description of clarification sought and the response of the authority inviting the bid will be uploaded for information of the other bidders without identifying the source of request for clarification should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB Clause 8 and ITB Sub-Clause 24.2.

Amendment of Bidding Documents

8.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addendum. The addendum will appear on the web page of the website http://uktenders.gov.in/___ and email communication will be sent to all registered bidders.

8.2 Any addendum issued shall be part of the Bidding Documents and shall be notified as Addendum / Corrigendum in the e-procurement portal which shall be binding in all prospective bidders..

8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB Sub-Clause 24.2 This shall be notified in the e-procurement portal.

C. Preparation of Bids

Cost of Bidding

9.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

Language of Bid

10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, 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.

Documents Comprising the Bid

11.1 The Bid shall comprise the following the scanned copies of which shall be uploaded in two covers containing the following documents on the e-procurement platform:

11.1.1Technical Bid

(a) Technical Bid Submission Form duly completed;

(b) Bid processing fee and Bid Security deposit details in accordance with ITB Clause 21, in the form as given in Section IV;

(c) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB Clause 22;

(d) documentary evidence in accordance with ITB Clause 16 establishing the Bidder's eligibility to bid;

(e) documentary evidence in accordance with ITB Clause 17, that

the Goods and Related Services to be supplied by the Bidder are of eligible origin;

(f) documentary evidence in accordance with ITB Clauses 18 and 30, that the Goods and Related Services conform to the Bidding Documents;

(g) documentary evidence in accordance with ITB Clause 19 establishing the Bidder's qualifications to perform the contract if its bid is accepted; and

(h) Manufacturers authorization form in the prescribed Form as given in Section IV;.

(i) any other document required in the BDS**.**

11.1.2 The Commercial Bid

(a) Financial Bid Submission Form and applicable Price Schedules in accordance with ITB Clauses 12, 14, and 15.

11.2 The following documents shall be submitted by post/courier to the Purchaser for verification and scrutiny within two days after the last date of submission:

(a) Original Power of Attorney (On Rs.100/- Stamp Paper);

(b) Original Bid security instruments such as Letter of Credit/Bank Guarantee/Demand Draft/ Banker's (cashier's) Cheque;

(c) Original affidavit vouching for the correctness of the information furnished and documents uploaded (On Rs.100/- Stamp Paper);

The Letter of Credit/Bank Guarantee/Demand Draft/Banker's (Cashier's) cheque etc. would be checked for their genuineness, adequacy with respect to amount, validity and acceptability. The bids of only those bidders who have produced the originals as above for verification and review and found acceptable and those who have paid the stipulated bid processing fee and adequate bid security either by cash or acceptable instruments would be opened at the appointed time to be notified on the e-procurement portal.

11.3 In case of discrepancy between the uploaded documents and the originals the original shall prevail.

Bid Submission Form and Price Schedules

12.1 The Bidder shall submit the Bid Submission Forms using the forms furnished in Section IV, Bidding Forms. These forms must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested. The completed Bid Submission

Forms shall be uploaded through e-procurement portal.

Alternative Bids

13.1 Unless otherwise **specified in the BDS,** alternative bids shall not be considered.

Bid Prices and Discounts

14.1 The prices and discounts quoted by the Bidder in the Financial Bid Submission Form and in the Price Schedules shall conform to the requirements specified below.

14.2 All items must be listed and priced separately in the Price Schedules.

14.3 The price to be quoted in the Financial Bid Submission Form shall be the total price of the bid, excluding any discounts offered.

14.4 The Bidder shall quote any unconditional discounts and indicate the method for their application in the Financial Bid Submission Form.

14.5 The terms EXW and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by The International Chamber of Commerce, as specified in the **BDS.**

14.6 Prices shall be quoted as specified in the Price Schedule included in Section IV, Bidding Forms. The dis-aggregation of price components is required solely for the purpose of facilitating the comparison of bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V Eligible Countries. Prices shall be entered in the following manner:

(a) **For Goods**:

(i) the price of the Goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all duties (customs, excise etc.) and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;

(ii) GST and other taxes which will be payable on the Goods if the contract is awarded to the Bidder; and

11.2 the price for inland transportation, insurance, and other local services required to convey the Goods to their final

destination (Project Site) specified in the **BDS.**

(b) **for the Related Services**, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements:

(i) the price of each item comprising the Related Services (inclusive of any applicable taxes).

(c) bidders may like to ascertain availability of excise duty exemption benefits, available for contracts financed under World Bank Credits/ Loans. They are solely responsible for obtaining such benefits, which they have considered in their bid and in case of failure to receive such benefits for reasons whatsoever, the Purchaser will not compensate the bidder.

Where the bidder has quoted taking into account such benefits, he must give all information required for issue of necessary Certificates in terms of the Central Excise Notification -108/95 along with his bid in form at S. No. 8 of Section VI. Where the Purchaser issues such Certificates, Excise Duty will not be reimbursed separately.

14.7 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, unless otherwise specified in the **BDS.** A Bid submitted with an adjustable price quotation shall be treated as non responsive and shall be rejected, pursuant to ITB Clause 30. However, if in accordance with the **BDS,** prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.

14.8 If so indicated in ITB Sub-Clause 1.1, bids are being invited for individual contracts (lots) or for any combination of contracts (packages). Prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer any price reduction (discount) for the award of more than one Contract shall specify the applicable price reduction in accordance with ITB Sub-Clause 14.4 provided the bids for all lots are submitted and opened at the same time.

Currencies of Bid

15.1 The Bidder shall quote in Indian Rupees only.

Documents Establishing the Eligibility

16.1 To establish their eligibility in accordance with ITB Clause 4, Bidders shall complete the Bid Submission Form, included in Section IV, Bidding Forms.

of the Bidder

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 ITB Clause 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.

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 VI, Schedule of Requirements.

18.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Schedule of Requirements.

18.3 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 the period **specified in the BDS** following commencement of the use of the goods by the Purchaser.

18.4 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser 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 the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Schedule of Requirements.

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 the Purchaser's satisfaction:

(a) (i) that, if **required in the BDS,** a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer

of the Goods to supply these Goods in the Purchaser's Country;

(ii) Supplies for any particular item in each schedule of the bid should be from one manufacturer only. Bids from agents offering supplies from different manufacturer's for the same item of the schedule in the bid will be treated as non-responsive.

(b) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.

(c) Bids from Joint Ventures are not acceptable

Period of Validity of Bids

20.1 Bids shall remain valid for the period **specified in the BDS** after the bid submission deadline date prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.

20.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 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, except as provided in ITB Sub-Clause 20.3.

20.3 In the case of fixed price contracts, if the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial bid validity, the Contract price shall be adjusted as by the factor [*value of factor stated in BDS*] for each week or part of week that has elapsed from the expiration of the initial bid validity to the date of notification of award to the successful bidder. Bid evaluation shall be based on the Bid Price without taking into consideration the above correction.

Bid Processing fee and Bid Security

21.1 The Bidder shall furnish as part of its bid, the requisite bid processing fee and a Bid Security, if required, as **specified in the BDS.**

21.2 The requisite bid processing fee has to be paid in the method as detailed in Clause 21.3 hereunder or through financial instruments as detailed in Clause 21.5 hereunder.

21.3 The Bid Security shall be in the amount specified in the BDS and shall be denominated in Indian Rupees and shall be paid in the e-

procurement portal using any of the following payment modes:

(a) Credit Card.

(b) Direct Debit.

(c) National Electronic Funds Transfer (NEFT).

(d) Over the counter (OTC).

The OTC payment facility will be available at the designated AXIS Bank branches for making payments from the dates of notification of IFB.

21.4 The Bid security shall be in the amount specified in the BDS and denominated in the currency of the Purchaser's Country or a freely convertible currency; and shall

21.5 At the bidder's option be in the form of either a certified cheque, demand draft, letter of credit or a bank guarantee from a Nationalized/Scheduled Bank in India.

21.6 be substantially in accordance with one of the forms of Bid security included in Section IV, Bidding Forms, or other form approved by the Purchaser prior to bid submission;

21.7 be payable promptly upon written demand by the Purchaser in case the conditions listed in ITB Clause 21.5 are involved

21.8 be submitted in its original form; copies will not be accepted; remain valid for a period of 45 days beyond the validity period of the bids; as extended, if applicable in accordance with ITB Clause 20.2.

21.9 Confirmation of the receipt of the Bid processing fee and Bid Security in Government of Uttarakhand. **If the bidder exercises the option of paying the Bid Security as indicated in ITB Clause 21.3 and if an acceptable, Bid Security is not received the system will not open and allow the bidder to submit its bid.**

21.10The Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the Performance Security pursuant to ITB Clause 44.

21.11The Bid Security may be forfeited:

(a) if a Bidder

(i) withdraws its bid during the period of bid validity specified by the Bidder on the Technical Bid Submission Form, except as provided in ITB Sub-

Clause 20.2;

(b) if the successful Bidder fails to:

(i) sign the Contract in accordance with ITB Clause 43;

(ii) furnish a Performance Security in accordance with ITB Clause 44.

(c) Not used

21.12 If a bid security is **not required in the BDS**, and

(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Technical Bid Submission Form, except as provided in ITB 20.2, or

(b) if the successful Bidder fails to: sign the Contract in accordance with ITB 43; or furnish a performance security in accordance with ITB 44;

the Borrower may, **if provided for in the BDS**, declare the Bidder disqualified to be awarded a contract by the Purchaser for a period of time **as stated in the BDS**.

Format and Signing of Bid

22.1 The digital signature shall be obtained by the bidder from the designated companies as given in the e-procurement portal and then get registered on the e-procurement portal. The user ID and password would be assigned by the system. The bidder shall upload the bid along with all the requisite documents through e-procurement platform by using the user ID and digital signature. Any interlineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

D. Submission and Opening of Bids

Submission, Sealing and Marking of Bids

23.1 The bidders shall upload the bids in two bids (Technical Bids comprising of all required Documents as listed in ITB Clause 11.1.1 and Commercial Bid comprising of all documents as listed in ITB Clause 11.1.2 through e – procurement platform only. No other mode of submission is permitted.

Technical and Commercial Bid Submission Forms and other documents as detailed in Clause ITB Clause 11.1.2 shall be addressed to Purchaser before uploading.:

Only the originals of Power of Attorney , the bid security (if it is in the form of Bank Guarantee/DD/CC) and the Original affidavit vouching for the correctness of the information furnished and documents uploaded shall be produced or delivered by post/courier to address mentioned in BDS, within the time period , specified in BDS

The bidder is solely responsible to ensure submission of the requisite documents within the stipulated period and the Purchaser will not be responsible for postal/courier delays.
(b) bear the Project Name, Invitation of Bids (IFB) title and number.

23.3 In addition to the identification required in Sub-clause 23.2 above, the bidder shall provide the name and address of the Bidder to make further correspondence.

23.4 Telex, Cable or Facsimile bids will be rejected as non-responsive. Bids submitted by any other means other than through e-procurement portal of GOU shall be rejected.

Deadline for Submission of Bids

24.1 BIDS (Both Technical and Commercial bids) must be uploaded/submitted by the Bidders no later than the time and date specified in the BDS through the e-procurement portal.The e-procurement platform will not accept the bids after the stipulated date and time (as per the time of the e-procurement platform).

24.2 The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB Clause 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended. The amendment/notification shall be notified in the e-procurement platform.

Late Bids

25.1 Bids cannot be uploaded by the bidder after the deadline for uploading / submission of tenders (as the e –procurement platform time) prescribed by the Purchaser pursuant to ITB Clause 24..

Withdrawal, Substitution, and Modification of Bids

26.1 In the “My bids“ Section of the e – procurement portal, the tenderer can view the status of their bids and decrypt bid (i.e. in cases where the tenderer has chosen to encrypt the tender using his own public key) for modification or withdrawal before the due date & time for uploading.

26.2 Bidders may cancel/modify their bids on line before the deadline for submission of bids.26.2 For modification of bids, the bidder need not make any additional payment towards the cost of bidding process. For bid modification and consequential re-submission, the bidder is required to cancel his bid submitted earlier (only the financial bid is cancelled. All the uploaded documents would be there). The last modified bid submitted by the bidder within the bid submission time shall be considered as the bid. For this purpose, modification/withdrawal by other means will not be accepted. In on line system of bid submission the modification/cancellation is allowed

any number of times. The bidders may cancel its bid by clicking on the cancel button in the My Bids Section before the deadline for submission of bids, however if the bid is cancelled and not re-submitted with the stipulated time on the last date of submission of bids, it would deemed withdrawn.

26.3 No bid may be modified/ cancelled on line after the deadline for submission of bids.

26.4 Withdrawal or modification of a Bid between the deadline for submission of bids and the expiration of the original period of bid validity specified in Clause 20 above or as extended pursuant to Clause 20 is not allowed in the e-procurement system. If a bidder does the same through any other medium, then it may result in the forfeiture of the bid security pursuant to Clause 21.11

Bid Opening

27.1 The Purchaser will open / unlock the Technical Bids of all bids uploaded through e-procurement platform in the presence of the bidders representations who chose to attend **at the stipulated place, date and time as given in BDS.**

The Bidders representatives who are present shall produce authorization letter and shall sign a register evidencing their attendance.

27.2 The Bidders names, the sufficiency or otherwise of the bid security, and alternative offers and such other details as the Purchaser, at its discretion, may consider appropriate will be announced at the opening No bids shall be rejected at the bid opening.

27.3The Purchaser shall prepare a record of the Bid opening that shall include, as a minimum: the name of the Bidder; alternative offers if they were permitted; and the presence or absence of a Bid Security, if one was required. The Bidders' representatives who are present shall be requested to sign the attendance sheet. A copy of the record shall be distributed to all Bidders who submitted bids in time, and posted online.

E. Evaluation and Comparison of Bids

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 the Purchaser in the examination, evaluation, comparison, and post qualification of the bids or contract award decisions may result in the rejection of

its Bid.

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

Clarification of Bids

29.1 No change in the prices or substance of the Bid shall be sought, offered, or permitted,

Responsiveness of Bids

30.1 The Purchaser'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, the Purchaser's rights or the Bidder's obligations under the Contract; or

(c) if rectified would unfairly affect the competitive position of other bidders presenting substantially responsive bids.

30.3 Bids from Agents, without proper authorization from the manufacturer as per Section IV, shall be treated as non-responsive.

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

Nonconformities, Errors, and Omissions

31.1 Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.

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

Preliminary Examination of Bids (First Cover)

32.1 The Purchaser shall examine the documents contained in Technical Bid to confirm that all documents and technical documentation requested in ITB Clause 11.1.1 have been provided, and to determine the completeness of each document submitted.

32.2 The Purchaser shall confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the offer shall be rejected and the bid security may be forfeited.

(a) Technical Bid Submission Form

(b) Bid Security in accordance with ITB Clause 21, Where the bidder has bid for more than one line item of equipment and if the Bid Security amount furnished is inadequate for all the items of equipment bid, the Purchaser shall take the bids into account only to the extent the bids are secured. For this purpose, the extent to which, the bids are secured shall be determined by evaluating, the requirement of bid security to be furnished for the items of equipment in the bid in the serial order of the Schedule of Requirement (Section VI) of the bid document.

(c) Bid validity in accordance with ITB Clause 20.1. A bid valid for a shorter period than required shall be rejected.

(d) Authorization from the Manufacturer in the format as given in Section IV, in case the Bidder is not the Manufacturer but is an Agent. .

Examination of Terms and Conditions; Technical Evaluation

The Purchaser shall examine the bid to confirm that the Bidder has accepted all terms and conditions specified in GCC and the SCC. without material deviations or reservation. Deviations from or objections or reservations to critical provisions such as those concerning Performance Security (GCC Clause 18). Warranty (GCC Clause 28), Force Majeure (Clause 32), Limitation of liability (GCC Clause 30), Governing law (GCC Clause 9) and Taxes & Duties (GCC Clause 17) will be deemed to be a material deviation. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

The Purchaser shall evaluate the Technical Bid of each bidder and determine whether the bid (a) meets the eligibility criteria defined in ITB Clauses 4 and 5 (b) meets substantially the required technical specifications; (c) meets the stipulated minimum qualification criteria and is qualified to perform the contract satisfactorily. The determination will take into account the Bidder's financial, technical and production capabilities. It

will be based upon an examination of the documentary evidence of the bidder's qualification uploaded by the bidder pursuant to ITB Clause 11.1.1 (as well as such other information as the Purchaser deems necessary and appropriate) as also that .the technical aspects of the Bid submitted in accordance with ITB Clause 18, to confirm that all requirements specified in Section VI, Schedule of Requirements of the Bidding Documents have been met without any material deviation or reservation.

After the examination of the terms and conditions and the technical evaluation, the Purchaser will draw out a list of responsive and technically qualified bids, which can perform the contract satisfactorily and upload the list on the e-procurement portal for information of the bidders..

Opening of the Commercial bid of responsive and qualified bidders: The Purchaser will inform all the responsive and technically qualified bidders through e-procurement portal the date and time of opening of the Commercial bids. After the notified time and date of opening the contents of the commercial bids could be viewed automatically by the respective technically qualified bidders. In this regard no separate intimation shall be made by the Purchaser.

Conversion to Single Currency Not used

Domestic Preference Not used

Evaluation of Bids

36.1 The Purchaser shall evaluate each item separately No bid will be considered if the complete requirement as given in the Schedule of Requirement (Section VI) is not included in the Bid. The bidders are allowed the option to bid for any one or more items and to offer discounts for more than one item. These discounts will be taken into account in the evaluation of the bid so as to determine the bid or combination of bids offering the lowest offering the lowest evaluated cost for the Purchaser in deciding the award (s) for each item in terms of provisions of Clause 14.8 of ITB.

36.2 To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined in ITB Clause 36. No other criteria or methodology shall be permitted.

36.3 To evaluate a Bid, the Purchaser shall consider the following:

(a) evaluation will be done for Items or Lots, as **specified in the**

BDS; and the Bid Price as quoted in accordance with clause 14;

(b) price adjustment due to discounts offered in accordance with ITB Sub-Clause 14.4;

(c) adjustments due to the application of the evaluation criteria **specified in the BDS** from amongst those set out in Section III, Evaluation and Qualification Criteria;

36.4 The Purchaser's evaluation of a bid will exclude and not take into account:

(a) In the case of Goods manufactured in India or goods of foreign origin already located in India, GST and other similar taxes, which will be payable on the goods if a 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.

36.5 The Purchaser's evaluation of a bid may require the consideration of other factors, in addition to the Bid Price quoted in accordance with ITB Clause 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of bids, unless otherwise specified in Section III, Evaluation and Qualification Criteria. The factors, methodologies and criteria to be used shall be as specified in ITB 36.3 (d).

36.6 If so **specified in the BDS,** these Bidding Documents shall allow Bidders to quote separate prices for one or more lots, and shall allow the Purchaser to award one or multiple lots to more than one Bidder. The methodology of evaluation to determine the lowest-evaluated lot combinations is specified in Section III, Evaluation and Qualification Criteria.

Comparison of Bids

37.1 The Purchaser shall compare all substantially responsive bids to determine the lowest-evaluated bid, in accordance with ITB Clause 36.

Post qualification of the Bidder

38.1 The Purchaser 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.

Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids

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

F. Award of Contract

Award Criteria

40.1 The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

Purchaser's Right to Vary Quantities at Time of Award

41.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section VI, Schedule of Requirements, provided this does not exceed the percentages **specified in the BDS,** and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.

Notification of Award

42.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted.

42.2 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.

Publication of Award

42.3 The Purchaser shall publish in a National website[GOI web site-http://tenders.gov.in]the results identifying the bid and lot numbers and the following information: (i) name of each Bidder who submitted a Bid; (ii) bid prices as read out at bid opening; (iii) name and evaluated prices of each Bid that was evaluated; (iv) name of bidders whose bids were rejected and the reasons for their rejection; and (v) name of the winning Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded. After publication of the award, unsuccessful bidders may request in writing to the Purchaser for a debriefing seeking explanations on the grounds on which their bids were not selected. The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after Publication of contract award, requests a debriefing.

Recourse to unsuccessful Bidders

42.4 Upon the successful Bidder's furnishing of the performance security and signing the Contract Form pursuant to ITB Clause 44, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 21.4.

Signing of Contract

43.1 Promptly after notification, the Purchaser shall send the successful Bidder the Agreement and the Special Conditions of Contract.

43.2 Within twenty-one (21) days of receipt of the Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.

Performance Security

44.1 Within twenty one (21) days of the receipt of notification of award from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the GCC, using for that purpose the Performance Security Form included in Section IX Contract forms, or another Form acceptable to the Purchaser. The Purchaser shall promptly notify the name of the winning Bidder to each unsuccessful Bidder and discharge the Bid Securities of the unsuccessful bidders pursuant to ITB 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 the Purchaser may award the Contract to the next lowest evaluated Bidder, whose offer is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

SECTION II - BIDDING DATA SHEET

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

ITB Clause Reference	A. General
ITB 1.1	The Purchaser is: **Program Manager, PIU - Health, UDRP-AF**, DDPM Tower, 4th Floor, Ajabpur Khurd, Haridwar Bypass Road, Dehradun – 248001, Uttarakhand
ITB 1.1	The name of the RFB is: **Supply of Ambulances (100 Basic Life Support-BLS & 40 Advance Life Support-ALS) for Health Department, Uttarakhand** The number and identification of package (contract) comprising this RFB is: **02/PIU-Health/CERC/UPDRP-AF/2020**
ITB 2.1	The Borrower is Government of India (GoI)
ITB 2.1	The name of the Project is: Uttarakhand Disaster Recovery Project-Additional Financing
ITB 4.3	A list of firms debarred from participating in World Bank projects is available at http://www.worldbank.org/debarr
	B. Contents of Bidding Documents
ITB 7.1	For **Clarification of Bid purposes** only, the Purchaser's address is: Attention: **Program Manager** Address: **PIU-Health, 4th Floor, DDPM Tower, Haridwar Bypass Road, Ajabpur Khurd, Dehradun** ZIP Code: **248001** Country: : **India** Telephone: **8126148268** Electronic mail address: **piu.health.udrpaf@gmail.com** Web page: **www.ukdisasterrecovery.in**

ITB 7.2	**Pre-bid meeting:** The bidder or his authorized representative (only one person from each firm) is invited to attend a pre-bid meeting which will take place at **The office of The Program Manager, Project Implementation Unit-Health, Uttarakhand Disaster Recovery Project-AF** **DDPM Tower, 4th Floor, Ajabpur Khurd, Haridwar Bypass Road, Dehradun – 248001, Uttarakhand** Date: **07.07.2020 Time: 11:00 AM** (a) The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at this stage. (b) The bidders are requested to submit any questions in writing so as to reach the Purchaser not later than 05/07/2020 before the pre-bid meeting. (c) Minutes of the meeting including issues rose (without identifying the source of query) and the responses given will be uploaded on the e-procurement portal for information of the bidders. No separate communication would be sent. (d) Non-attendance at the pre-bid meeting will not be a cause for dis-qualification.
	C. Preparation of Bids
ITB 11.1	The Bidder shall submit the following additional documents in the Technical Bid of its bid: 1. Certification of incorporation of the bidder and manufacturer 2. Technical schedules of goods as required by technical specifications. 3. Descriptive Documents, drawings, notes and references of operating and assembly of mechanical parts 4. a detailed description of the Goods essential technical and performance characteristics: 5. A clause-by-clause commentary on the Purchaser's technical specifications demonstrating substantial responsiveness of the Goods and Services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications. 6. For purposes of the commentary to be furnished pursuant to Paragraph 6 above, the Bidder shall note that standards for workmanship, material and goods, and references to brand names or catalogue numbers designated by the Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications 7. The documentary evidence of the goods and services eligibility shall consist of a statement in the Price Schedule on the country of origin of the goods and

	services offered which shall be confirmed by a certificate of origin at the time of shipment 8. Non-manufacturer bidders will submit the manufacturer's authorization Form as per Performa in Section IV. 9. The following details shall also be provided by Indian Bidders: a. Name, address, PAN and ward/circle where they are being assessed of the Directors of the Bidding Company. b. Company's PAN and Income Tax clearance certificate and ward/circle where it is being assessed, c. Registration details of the company under GST and other laws as may be applicable. d. The bidders from outside India shall provide the corresponding details of Income Tax registration, Social Security Number, details regarding Registration under GST or sale of goods (as may be applicable) etc 10. The bidder shall disclose instance of previous past performance that may have resulted into adverse actions taken against the bidder during the last five years.
ITB 11.2	The following documents shall be submitted through post/courier/person to the Purchaser for verification and scrutiny by July 17, 2020 till 1100 HOURS. (a) Original Power of Attorney (On Rs.100/- Stamp Paper) of the person signing the bid; (b) Original Bid security in the form of Bank Guarantee/ FDR in favour of Program Manager, Project Implementation Unit-Health, UDRP-AF, Dehradun; (c) Original affidavit vouching for the correctness of the information furnished and documents uploaded (On Rs.100/- Stamp Paper); (d) Tender Fee in form of DD only (INR 5000+GST). Tender Fee in any other form part from DD shall not be accepted.
ITB 13.1	Alternative Bids shall not be considered.
ITB 14.5	The Inco terms edition is Inco term 2020.
ITB 14.6 (a) (iii)	Final destination (Project Site): **Office of Director General of Health, Near IT Park, Sahastradhara Road, Dehradun, Uttarakhand.**
ITB 14.7	The prices quoted by the Bidder shall not be adjustable.
ITB 18.3	Period of time the Goods are expected to be functioning: Minimum 15 Years
ITB 19.1 (a)	Manufacturer's authorization is: required as per Performa in Section IV.

<table>
<tr><td>ITB 20.1</td><td>The bid validity period shall be 120 days from the last date of bid submission deadline.</td></tr>
<tr><td>ITB 20.3</td><td>The factor will be 5% per annum</td></tr>
<tr><td>ITB 21.1</td><td>
<table>
<tr><th>Package No</th><th>Name of Supply</th><th>Bid Security (INR Lacs)</th></tr>
<tr><td>02/PIU-HEALTH/CERC/UDRP-AF/2020</td><td>Supply of Ambulances (100 Basic Life Support- BLS & 40 Advance Life Support-ALS) for Health Department, Uttarakhand</td><td>68.34</td></tr>
</table>
</td></tr>
<tr><td>ITB 21.2</td><td>NA</td></tr>
<tr><td>ITB 21.3</td><td>NA</td></tr>
<tr><td>ITB 21.8</td><td>The validity of the Bid Security shall be 45 days more than the validity of the bid i.e. 120+45 days from the last date of bid submission.</td></tr>
<tr><td>ITB 21.5</td><td>The bid security shall be in the form of Bank guarantee or Fixed Deposit Receipt (FDR) from a scheduled national commercial bank, issued in favour of Program Manager, Project Implementation Unit-Health, UDRP-AF, Dehradun</td></tr>
<tr><td>ITB 22.1</td><td>The bidding under this contract is electronic bid submission through website http://uktenders.gov.in Detailed guidelines for viewing bids and submission of online bids are given on the website. The Invitation for Bids under Project Implementation Unit-Health, UDRP-AF is published on this website. Any citizen or prospective bidder can logon to this website and view the Invitation for Bids and can view the details of Lots for which bids are invited. The perspective bidder can submit bids on line; however, the bidder is required to have enrolment/registration in the website and should have valid Digital Signature Certificate (DSC), for signing and encryption issued by the same Certifying Authority, in the form of smart card/e-token. The DSC can be obtained from any authorized certifying agencies. The bidder should register in the web site http://uktenders.gov.in using the relevant option available. Then the Digital Signature registration has to be done with the e-token, after logging into the site. After this, the bidder can login the site through the secured login by entering the password of the e-token & the user id/ password chosen during registration.

After getting the bid schedules, the Bidder should go through them carefully and then submit the documents as asked, otherwise, the bid will be rejected.

The completed bid comprising of documents, should be uploaded on the website given above through e-tendering along with scanned copies (clearly readable) of requisite certificates as are mentioned in different sections in the bidding document and scanned copy of bid security in case it is provided in the form of</td></tr>
</table>

	BG.
ITB 23.1	All the documents are required to be signed digitally by the bidder. After electronic on line bid submission, the system generates a unique bid identification number which is time stamped. This shall be treated as acknowledgement of bid submission.
	D. Submission and Opening of Bids
ITB 27.1	The bid opening shall take place at Project Implementation Unit – Health, UDRP-AF, DDPM Tower, 4th Floor, Ajabpur Khurd, Haridwar Bypass Road, Dehradun – 248001, Uttarakhand The purchaser inviting bids or its authorized representative's shall open the bids online which could be viewed by the bidders also online. In the event of the specified date for the opening of bids being declared a holiday, the bids shall be opened at the appointed time on the next working day.
	E. Evaluation and Comparison of Bids
ITB 36.1	Bidder must quote for the complete requirement for goods and services specified in BOQ failing which bids shall be treated as non-responsive. To ensure the quality, The client may notify the technically responsive bidders/suppliers to give a sample demonstration of the equipment to be installed in the Ambulances (Both ALS & BLS) to the technical committee before the opening of financial bids. If notified, the demonstration shall be the part of technical evaluation. The place of demonstration shall be informed by the bidder or as mutually agreed by the bidder and the employer and all the expenses of technical committee for travelling, lodging etc shall be borne by the bidder.
ITB 36.3(a)	Evaluation will be done for all items together as one package. ***Note:*** ***Bidder should quote for the complete requirement for goods and services specified in BOQ of this bid failing which such bids will be treated as non-responsive.***
ITB 36.3(c)	The evaluation will take into account the cost of minimum **2 years** comprehensive warranty of Ambulances including all the equipment installed in the Ambulance.
	F. Award of Contract
ITB 41.1	The maximum percentage by which quantities may be increased is: *15%* The maximum percentage by which quantities may be decreased is: *15%*

SECTION III. EVALUATION AND QUALIFICATION CRITERIA

Contents

1. Evaluation Criteria (ITB 36.3 (d)

The evaluation will take into account cost of minimum **2 years** comprehensive warranty of Ambulances including all the equipment installed in the Ambulance.

. 2. Multiple Contracts (ITB 36.6)

NA

3. Qualification Requirements (ITB 38.2)

A. Manufacturer Bidders

a. Financial Capability

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

The bidders, who are also the manufacturers, should have average annual sales turnover in last three years as mentioned in the table given below (certified by Chartered Accountant) for Supply of Ambulances (100 Basic Life Support-BLS & 40 Advance Life Support-ALS) for Health Department, Uttarakhand.

Package No.	Name of Supply	Turn Over (INR)
02/PIU-Health/CERC/ UPDRP-AF/2020	Supply of Ambulances (100 Basic Life Support- BLS & 40 Advance Life Support-ALS) for Health Department, Uttarakhand	**27 Cr.**

b. Experience and Technical Capacity

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

i. The bidder must have manufactured and supplied atleast 70 Nos. of Ambulances satisfactorily similar type of goods (ALS or BLS Ambulances) as specified in the Schedule of Requirements in last three years with maximum 5 single orders and should be in use satisfactorily with no adverse report for at least two years preceding the date of bid opening. The Experience certificate is required mandatory from the competent authority. A List of clients with their Contract details shall also be provided.

ii. The bidder should furnish the information on past supplies and satisfactory performance in the Performa given under Section-VI.

iii. Bidders shall invariably furnish documentary evidence (End User's certificate) in support of the satisfactory operation of the goods as specified above.

iv. The bidder shall furnish data to support that he has the financial and production capacity to perform the contract and complete the supplies within the stipulated delivery period.

v. Further, bidder should be in continuous business of manufacturing / supplying and after sale services of products similar to that specified in the 'Schedule of requirement' during the last 3 years prior to bid opening.

vi. The documentary evidence of the Bidder's eligibility to bid shall establish to the Purchaser's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 4.

vii. The legal status, place of registration and principal place of business of the company or firm or partnership, etc.;

viii. Details of experience and past performance of the bidder on those of similar nature within the past five years and details of current contracts in hand and other commitments (suggested Performa given in Section VI).

ix. The Bidder should furnish a brief write-up, backed with adequate data, explaining his 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 all their current commitments.

x. The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the purchaser or his representative for inspection.

xi. Reports on financial standing of the bidder such as profit and loss statements, balance sheets and auditor's report for the past three years, bankers certificate, etc.

xii. The bidder/OEM should have a established service centre in or nearby Dehradun, Uttarakhand and should have a up time of 95% with mean time to repair (MTTR) of maximum 10 days.

xiii. The bidder should submit the model no. of each item (mandatory) and catalog of the item offered (desirable) along with technical bid in a separate format.

B. Non- Manufacturer Bidders

In the case of a Bidder offering to supply Goods under the Contract that the Bidder does not manufacture or otherwise produce, the Bidder should be duly **authorized by the manufacturer** of the Goods who meets the criteria under (A) above (all supporting documents/information as asked above for manufacturer shall be submitted with the bid) and

a. Financial Capability

i. The manufacturer furnishes a legally enforceable authorization in the prescribed Form [Section IV] assuring full guarantee and warranty obligations as per GCC and SCC for the goods offered; and The bidder must have supplied satisfactorily similar type of equipments as specified in the Schedule of Requirements in any one of the last three years as a single order and should be in use satisfactorily with no adverse report for at least two years preceding the date of bid opening. The Experience certificate is required mandatory from the competent. A List of clients with their Contract details shall also be provided.

ii. The bidders as non manufacturer should have average annual sales turnover in last three years as mentioned in the table given below (as certified by Chartered Accountant) for Supply of Ambulances (100 Basic Life Support- BLS & 40 Advance Life Support-ALS) for Health Department, Uttarakhand.

Package No	Name of Supply	Turn Over (INR)
02/PIU-Health/CERC/UPDRP-AF/2020	Supply of Ambulances (100 Basic Life Support- BLS & 40 Advance Life Support-ALS) for Health Department, Uttarakhand	22 Cr.

Notwithstanding anything stated above, the purchaser reserves the right to assess the bidder's capabilities and capacity to execute the contract satisfactorily before deciding on award

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 the contract, inordinate delays in completion, litigation history, or financial failures etc.

The bidder/OEM should have a established service centre in or nearby Dehradun, Uttarakhand and should have an up time of 95% with mean time to repair (MTTR) of maximum 10 days.
The bidder should submit the model no. of each item (mandatory) and catalog of the item offered (desirable) along with technical bid in a separate format.

b. Experience and Technical Capacity

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

ii. The bidder must have manufactured and supplied atleast 56 Nos. of Ambulances satisfactorily similar type of goods (ALS or BLS Ambulances) as specified in the Schedule of Requirements in last three years with maximum 5 single orders and should be in use satisfactorily with no adverse report for at least two years preceding the date of bid opening. The Experience certificate is required mandatory from the competent authority. A List of clients with their Contract details shall also be provided.

iii. The bidder should furnish the information on past supplies and satisfactory performance in the Performa given under Section-VI.

iv. Bidders shall invariably furnish documentary evidence (End User's certificate) in support of the satisfactory operation of the goods as specified above.

v. The bidder shall furnish data to support that he has the financial and production capacity to perform the contract and complete the supplies within the stipulated delivery period.

vi. Further, bidder should be in continuous business of manufacturing / supplying and after sale services of products similar to that specified in the 'Schedule of requirement' during the last 3 years prior to bid opening.

vii. The documentary evidence of the Bidder's eligibility to bid shall establish to the Purchaser's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 4.

viii. The legal status, place of registration and principal place of business of the company or firm or partnership, etc.;

ix. Details of experience and past performance of the bidder on those of similar nature within the past five years and details of current contracts in hand and other commitments (suggested Performa given in Section VI).

x. The Bidder should furnish a brief write-up, backed with adequate data, explaining his 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 all their current commitments.

xi. The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the purchaser or his representative for inspection.

xii. Reports on financial standing of the bidder such as profit and loss statements, balance sheets and auditor's report for the past three years, bankers certificate, etc.

xiii. The bidder/OEM should have a established service centre in or nearby Dehradun, Uttarakhand and should have a up time of 95% with mean time to repair (MTTR) of maximum 10 days.

xiv. The bidder should submit the model no. of each item (mandatory) and catalog of the item offered (desirable) along with technical bid in a separate format.

Note:

1) The above qualification requirements are to be met by the bidder (in case of manufacturer bidders) and the bidder and the manufacturer respectively (in case of non manufacturer bidders) and qualification of group/sister/parent companies will not be considered for meeting the above requirement.

2) For the purpose of furnishing documentary evidence to meet the qualification criteria, the bidder should furnish the following:

(i) The supply made to public sector/Government/semi government units in India, the bidder should submit an affidavit confirming that the performance statement given is correct.
(ii) In case of supplies to private sector units, the bidder should submit an affidavit confirming that the performance statement is correct along with copy of purchase order, copy of invoices, proof of payment received from Purchasers, documentary evidence (end user certificate)in support of satisfactory completion of orders.
(iii) The Bidder must possess a valid ISO certification, as on date of submission of the bid and a copy of same should be enclosed with the Technical bid.

Note: The information and documents in support of meeting the qualification criteria as specified above should be uploaded in Technical Bid

Section IV – Bidding Forms

Table of Forms

BIDDER INFORMATION FORM

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

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

Page _____ of_____ pages

1. Bidder's Legal Name *[insert Bidder's legal name]*
2. Bidder's actual or intended Country of Registration: *[insert actual or intended Country of Registration]*
3. Bidder's Year of Registration: *[insert Bidder's year of registration]*
4. Bidder's Legal Address in Country of Registration: *[insert Bidder's legal address in country of registration]*
5. Bidder's Authorized Representative Information Name: *[insert Authorized Representative's name]* Address: *[insert Authorized Representative's Address]* Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]* Email Address: *[insert Authorized Representative's email address]*
6. Attached are copies of original documents of: *[check the box(es) of the attached original documents]* Articles of Incorporation or Registration of firm named in 1, above, in accordance with ITB Sub-Clauses 4.1 and 4.2. In case of government owned entity from the Purchaser's country, documents establishing legal and financial autonomy and compliance with commercial law and not dependent agency of borrower or sub-borrower or purchaser, in accordance with ITB Sub-Clause 4.5.

Note: To be completed and submitted /uploaded as a part of the Technical bid.

TECHNICAL 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]*
NCB No.: *[insert number of bidding process]*
Invitation for Bid No.: *[insert No of IFB]*
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 Addenda No.: *[insert the number and issuing date of each Addenda];*

(b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services *[insert a brief description of the Goods and Related Services];*

(c) Our bid shall be valid for the period of time specified in ITB Sub-Clause 20.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 24.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(d) If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 44 and GCC Clause 17 for the due performance of the Contract;

(e) We, including any subcontractors or suppliers for any part of the contract, have nationality from eligible countries

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

(g) Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared ineligible by the Bank, under the Purchaser's country laws or official regulations, in accordance with ITB Sub-Clause 4.6.

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

Name: *[insert complete name of person signing the Technical 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]*

Note: To be completed and submitted /uploaded as a part of Technical Bid

FINANCIAL BID SUBMISSION FORM

(To be submitted in only with Commercial Bid)

[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]*
NCB No.: *[insert number of bidding process]*
Invitation for Bid No.: *[insert No of IFB]*
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) 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];*

(b)The discounts offered and the methodology for their application is:

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]*

(c) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount

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

(d) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.

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

(f) We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

(g) We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely, "Prevention of Corruption Act 1988."

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

Name: *[insert complete name of person signing the Financial 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]*

Note: To be completed and submitted /uploaded as a part of Commercial Bid

Price Schedule Forms

(To be submitted in Commercial Bid)

The Price Schedule Form (in Excel Format) documented separately and can be downloaded from e-procurement portal http://uktenders.gov.in along with the bid document

BID SECURITY FORM

From: (Bidder)

…….

…….

……..

To:

The Program Manager
PIU-Health, UDRP-AF

Sir,

(a) We have deposited Bid Security for an amount of Rs…….. for package no-……. in the form of a demand draft, or a bank guarantee from a Nationalized/Scheduled Bank in India the details of which are as follows:

(i) BG/FDR Number and date:

(ii) Name & Branch of issuing Bank

We agree that the Bid Security deposited by us as detailed above, may be forfeited by the Purchaser in accordance to ITB Clause 21.11

_____

Signature and Name of Bidder

Date:

Note: to be completed and submitted / uploaded as a part Technical Bid

BID SECURITY (BANK GUARANTEE)

[The Bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

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

Beneficiary: *[insert name and address of Purchaser]*

Date: *[insert date]*

BID GUARANTEE No.: *[insert bid Guarantee number]*

We have been informed that *[insert name of the Bidder]* (hereinafter called "the Bidder") has submitted to you its bid dated *[insert date]* (hereinafter called "the Bid") for the execution of *[insert name of Contract]* under Invitation for Bids No. *[IFB number]* ("The IFB").Furthermore, we understand that, according to your conditions, bids must be supported by a Bid Guarantee.

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

(a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Bid Submission Form; or

(b) having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity, (i) fails or refuses to execute the Contract, if required, or (ii) fails or refuses to furnish the Performance Security, if required in accordance with the ITB,.

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) of authorized bank's representative(s)]

Note: To be completed and uploaded as part of the Technical Bid

MANUFACTURER'S AUTHORIZATION

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

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

To: *[insert complete name of Purchaser]*

WHEREAS

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

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm against this IFB.

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

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

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

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

Note: To be completed and submitted / uploaded as a part of Technical Bid.

SECTION V. – ELIGIBLE COUNTRIES

Public Information Center

Eligibility for the Provision of Goods, Works and Services in Bank-Financed Procurement

1. In accordance with Para 1.8 of the Guidelines: Procurement under IBRD Loans and IDA Credits, dated May 2004, the Bank permits firms and individuals from all countries to offer goods, works and services for Bank-financed projects. As an exception, firms of a Country or goods manufactured in a Country may be excluded if:

Para 1.8 (a) (i): as a matter of law or official regulation, the Borrower's Country prohibits commercial relations with that Country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of the Goods or Works required, or

Para 1.8 (a) (ii): by an Act of Compliance with a Decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's Country prohibits any import of goods from that Country or any payments to persons or entities in that Country.

2. For the information of borrowers and bidders, at the present time firms, goods and services from the following countries are excluded from this bidding:[6]

(a) With reference to paragraph 1.8 (a) (i) of the Guidelines:

NIL

(b) With reference to paragraph 1.8 (a) (ii) of the Guidelines:
NIL

Note: This is for information of the Bidder only. Not to be uploaded.

6 *Any questions regarding this list should be addressed to the Director, Procurement Policy and Services Group, Operational Core Services Network, The World Bank*

PART 2 - SUPPLY REQUIREMENTS

S. No	Name of Item	Total Quantity	Delivery Place
1	Advance Life Support Ambulances (ALS)	40	Office of DG Health, Dehradun, Uttarakhand
2	Basic Life Support Ambulances (BLS)	100	Office of DG Health, Dehradun, Uttarakhand

SECTION VI – SCHEDULE OF REQUIREMENTS

1. LIST OF GOODS AND DELIVERY SCHEDULE

Package No	Description of Goods	Quantity	Final (Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
				Delivery period	Bid Security in Indian Rupees (in Lac)
02/PIU-HEALTH/CERC/UDRP-AF/2020	As specified in BOQ & Supply of Requirement	140 (100 BLS & 40 ALS)	As per Part-2: Supply of Requirement	90 Days from the date of final contract signing	68.34

Note: This form is for the information of the bidder and is not to be Submitted / uploaded as a part of the bid.

2. List of Related Services [ITB Clause 14.6(b)] and Completion Schedule

Service	Description of Service	Description of Item	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
1	*Performance or supervision of the on-site assembly and/or start-up of the supplied Goods*	As specified in BOQ and specification and delivery schedule	As specified in BOQ	As per Part-2 Supply of Requirement	As per Part-2 Supply of Requirement
2	*Furnishing of tools required for assembly and/or maintenance of the supplied Goods*		Not applicable		
3	*Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods*				
4	*Repair/Replacement of the supplied Goods, for a period of 3 years warranty period.*		As specified in BOQ	As per Part-2 Supply of Requirement	Within warranty period of 2 years
5	*Training of the Purchaser's personnel, one for each unit on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods for period of one days or as per satisfaction of the purchaser.*		*Demo/Training of the Purchaser's personnel, one for each unit on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods for one days or as per satisfaction of the purchaser.*		

Note: This form is for the information of the bidder and is not to be Submitted / uploaded as a part of the bid.

2. TECHNICAL SPECIFICATIONS

Advance Life Support

For supply of 40 Nos Ambulance BS 6, Type 'D' Advance Life Support (ALS) as per AIS 125 – National Ambulance Code with Fabrication and Equipment

(Ambulance should be compatible with all standards of National Ambulance Code (AIS-125), CMV(a)R, 1989 (as amended from time to time), Pollution Control Board, and STA / RTO Rules.

	Criteria	Range
1	**Base Vehicle / Ambulance**	
1.1	Type of Fuel	Diesel Engine
1.2	Vehicle Emission Compliance	BS-6
1.3	Vehicle Mileage (Declared by OEM as certified by Test Agency under Rule-115 of CMVR-1989) (in Kmpl)	Minimum 13 Kmpl
1.4	Top Speed (Kmph)	Minimum 100 Kmph
1.5	Acceleration (0-70 Kmph)	Within 40 Seconds
1.6	Gradeability of Vehicle (in Degrees)	Min 10° Degree
1.7	Air Conditioning	With Air-Conditioning (Both in Crew and Patient Compartments)
1.8	Air Conditioning Criteria	Air-Conditioning System should be Company Pre-Fitted by Base Vehicle Manufacture. Retro-Fitment of Air-Conditioning System at Ambulance Body Fabrication Facility after Base Vehicle Manufacturing is not allowed. The Cooling System should be such that, given an Outside and Inside Temperature of 32°C, the cooling down to at most 27°C in the

	Criteria	Range
		Patient's Compartment should not take longer than 15 min. After 30 min a temperature of at most 25 °C should be reached. The inside temperature should be measured in the center of the patient compartment and at the mid-point from the cooling outlets (if several outlets are available). The installation of the system shall not encourage exhaust gases entering the patient's compartment.
1.9	Engine Power (HP)	100-125 HP
1.10	Engine Torque (Nm)	200-350 Nm
1.11	No. of Cylinder in Engine	Minimum 4
1.12	No. of Doors	Minimum 3
1.13	Fuel Tank Capacity (Liter)	Minimum 60 Liters
1.14	Ground Clearance (mm)	Minimum 180mm
1.15	Wheel Base (mm)	2800-3500mm
1.16	Gross Vehicle Weight (Kg)	3000-5000 Kgs
1.17	Vehicle Transmission System	Manual
1.18	No. of Speed/Forward Gears	Minimum 5 Forward and 1 Reverse
1.19	Type of Wheel Drive	Two Wheel Drive (Front/Rear)
1.20	Type of Steering	Power
1.21	Vehicle Brake ABS Fitted	Yes
1.22	Front Vehicle Brake	Disc / Drum
1.23	Rear Vehicle Brake	Disc / Drum
1.25	Warranty Time (in Months) with Unlimited Kms	Minimum 24 Months
1.26	Colour of the Vehicle	As per AIS-125
1.27	Overall Length of Vehicle (mm)	Minimum 5500mm
1.28	Overall Width of Vehicle (mm)	Minimum 1900mm
1.29	Overall Height of Vehicle (mm)	Minimum 2500mm
1.30	Type of Vehicle Body	Monocoque
1.31	Seating and Carrying Capacity to carry Minimum Passengers / Patient Including Driver and Co-Driver	Minimum 7 Persons + 1 Patient in Lying Condition

	Criteria	Range
1.32	Volume of Rear Cabin (Patient Compartment)	8-10.5 Cu.M
1.33	Length (mm)	2750-3500mm
1.34	Height (mm)	1700-1900mm
1.35	Windows for Good Ventilation in the Rear Cabin	Rear Sliding Window on both sides of the Patient Cabin with Safety Glass.
1.36	Rear Doors Easy Entry of the Victim in Emergency without any Obstruction.	Dual-Hinged with 270 Degrees Opening with Security System.
1.37	Floor Loading Height for Easy Entry of Collapsible Stretcher into the cabin.	Maximum 750mm
1.38	Comfortable Movable Area of Occupants.	Free space to be available for occupants to move.
1.39	Space for keeping Medicines	Provision of Rack with Lock Mechanism for storing the medicine.
1.40	Batteries	2 Nos. 12V-80 to 100 Ampere-Hour Maintenance-Free Battery
1.41	Alternator	One Min. 90 Amps and second one Min. 60 Amps.
1.42	Turning Circle Radius	Less than 7m
1.43	Body & Chassis Painting	Antirust-Coating before External Painting has to be given for the body as well as under the chassis.
1.44	Place for keeping Tools	Extra space for keeping driver belonging along with other tools.
1.45	Spare Wheel	With Spare Wheel and Provision has to be made under the body in between long members.
1.46	Rear Door Beading	Rear Door Beading / Weather Strip to prevent Entry of Water and Dust inside Cabin.
1.47	Water Proofing	All Doors, Windows and Hatches should be waterproofed.

Note: Batteries and Alternator should comply AIS 125 Part-I of Ministry of Roads Transport and Highways.

A. Constructional and Functional Requirements for ALS Road Ambulances

1. **Vehicle Body**

1.1 **Fire safety**

All interior materials shall comply with the flammability requirements specified in IS: 15061, as notified under CMV (A) R, 1989 though the standard does not cover ambulance in the scope.

1.2 **Fitment of fire extinguisher**

The ALS ambulance shall be equipped with two fire extinguishers of 2 Kg each.

1.3 **Minimum loading capacity**

The minimum loading capacity shall be as follow:

Minimum Loading Capacity (Persons)

	ALS Ambulance
Number of seats and / or stretcher facilities (in addition to driver seat)	**4**

1.4 **Partition wall**

In ALS road ambulances, a full partition wall with a window shall separate the driver's compartment from the patient's compartment.

One window with a minimum separation of 100 mm shall be provided in the partition wall made of material complying with the requirements of CMVR. The windows shall allow direct visual contact with the driver. The opening area of the window shall have a maximum area of 0.12 m^2. It shall be secured against self-opening and shall have an adjustable blind or other means of preventing the driver being disturbed by the light of the patient's compartment.

1.5 **Patient's Compartment**

1.5.1 The patient's compartment in ALS Road Ambulances shall be designed and constructed to accommodate the medical devices. The width of the patient compartment for ALS Road Ambulance, after installation of cabinets, etc. shall provide 40 ± 15 cm clear aisle walkway between the main stretcher with undercarriage and the base of squad bench / attendant seats, with the main stretcher located in the street side (non-centred) position.

1.5.2 In ALS Ambulances, the length of the Patient Compartment shall provide at least 64 cm and not more than 76 cm of unobstructed space at the head of the

primary patient, when measured from the face of the backrest of the Doctor's/Paramedic's Seat to the forward edge of the stretcher.

1.5.3 In ALS Ambulances, a minimum of 25 cm shall be provided from the end of the stretcher to rear loading door, to permit clearance for any long-board splints.

1.5.4 The ceiling, the interior side walls and the doors of the patient's compartment in ALS Ambulances shall be lined with a material that is non-permeable and resistant to disinfectant. The edges of surfaces shall be designed and/or sealed in such a way that no fluid can infiltrate. If the floor arrangement does not allow fluids to flow away / mop / clean, one or more drain with plugs shall be provided.

1.5.5 ALS Ambulances shall meet the interior fittings radius of curvature requirements as per AIS-125 (Part 1). Medical equipment and their holding devices (for example stretchers, platforms, suction units etc.) are excluded. Drawers should be secured against self-opening and where lockers are fitted with doors that open upwards they should be fitted with a positive hold open mechanism.

1.5.6 ALS road ambulances shall be equipped with a lockable drugs compartment with security lock. Floor coverings shall be chosen that will provide adequate grip for the attendant including when wet and should be durable and easy to clean.

1.5.7 ALS road ambulances shall be fitted with a hand-holding device positioned above the stretcher. The hand - holding device shall be positioned along the longitudinal axis. Vehicle maintenance equipment (e.g. Spare wheel and Tools) shall be placed such that accessing them does not cause inconvenience to the patient.

1.5.8 **Patient and attendant seating**

The minimum number of patient and attendant seats shall be as follow:

Number of Patient and Attendant Seats

	ALS Ambulance
Minimum number	2
Position (s) on one side of the stretcher upper 2/3 end	1
Position (s) at head of stretcher	1

1.5.9 **Patient and attendant seat dimensions**

Patient and attendant seat dimensions shall be minimum of 381 X 381 mm per

seat. Seats fitted in the patient compartment shall be installed in either forward / sideward / rear-facing positions and shall be fitted with Two Point (Lap Belt) or Three Point Retractable Safety Belts (preferred for forward / rearward facing seats) in conformance with IS:15140-2003. Further, the anchorages of seat belts provided on the forward facing permanent seats shall meet the requirements of IS:15139-2003. Head restraints shall be fitted as applicable and in accordance with AIS-023: 2005 or IS: 15546-2005. Backrests shall be constructed to a minimum dimension of 300 × 100 mm.

Note: The requirements of IS:15139 shall not be applicable to anchorages of seat belts fitted on rear / side facing and folding seats.

1.5.10 **Interior lighting**

Natural colour balance lighting shall be provided as set out following:

Note: The colour temperature of the light will change the appearance of skin and organs. Therefore it is important that the interior lighting is suitable for patient care during transport. Although it may not be necessary in ambulance use to define "daylight" or "natural colour balance" in a more exact way other than the colour temperature. The colour temperature of the interior lights should be minimum 4000 Degrees Kelvin.

In ALS Ambulance, there shall be an additional light within the treatment area with a minimum of 1650 Lux. It shall be measured at the stretcher surface in its lowest position. The minimum distance of the measurement shall be 750 mm below the light and in an area with a minimum diameter of 200 mm.

Patient's Compartment Illumination

		ALS Ambulance (Lux)
Patient Area (Stretcher)	Minimum	150
Surrounding Area	Minimum	50

Light levels shall be measured along the central longitudinal axis of the stretcher at the head, mid-point and foot position with the stretcher in its normal position for transportation in the ambulance.

1.5.11. **Interior noise level**

The interior noise level in the patient compartment in ALS Ambulances shall comply with requirements of AIS-020. During the test, the Siren of the Ambulance shall be kept in the Off position.

1.5.12. **Ingress of dust and rain water**

In ALS ambulances, all doors, windows and hatches shall not allow ingress of dust and rain water when in the fully closed position, when tested in accordance to IS : 11739 – 1986 as amended from time to time, for recording dust ingress in automotive vehicles, and when tested in accordance to IS: 11865–2006 as amended from time to time, for water proofing test for automobiles.

1.5.13. **Mounting systems**

The Seats, their anchorages and head restraints shall meet requirements of CMV Rule 125, as applicable.
The Stretcher along with undercarriage (without dummy) shall be subjected to dynamic test as per point no.-1.7. After being subjected to this dynamic test:

a) No failure shall occur in the stretcher frame or in the anchorage of stretcher. Permanent deformation including ruptures may be accepted, provided that they do not increase the risk of injury in the event of collision.
b) No release of locking system shall occur during the test described in point no.-1.7.
c) No items shall have sharp edges or endanger the safety of persons in the road ambulance.

All lockers, rails and non-dedicated storage locations or storage devices shall be labelled to show the total maximum permissible weight allowed.

1.6 **Main Stretcher {As per AIS 125 (Part 1)}**

1. ALS Ambulances shall be provided with a main stretcher consisting of an integrated undercarriage.
2. It shall be designed to provide that full weight of the patient and the carried stretcher part will only be lifted / carried by the personnel for the minimum period of time.
3. It shall be so designed to provide that during loading and unloading the maximum burden on any personnel is half of the total weight of patient and stretcher and for the minimum possible time and in optical ergonomic position so that back bending is minimized.
4. The lying area shall have adjustable head-end / backrest with a minimum length of 550 mm. It shall be possible to turn up the head-end / backrest at least up to 75 degrees and there shall be at least five fixing positions within this range.
5. The lying area shall have an adjustable foot-end with a minimum length of 850 mm. It shall be possible to turn up the foot-end at least up to 15 degrees.
6. Dimensions shall be measured from the outer edges.
    a. **Length:** Min 1800 mm
    b. **Width:** Min 480mm
    c. **Height:** Maximum 380 mm from the loading holding assembly to unladed lying part. The height dimension does not apply to stretchers with

Monoblock undercarriages. If a monoblock is not available, the stretcher must be constructed so that it is detachable from the undercarriage.

7. The Loading capacity shall be a minimum of 150 Kg.

8. **Undercarriage:**

   a. The undercarriage shall be fitted with 4 wheels with a diameter of at least 100 mm. There shall be a minimum of two 360 degree swivel wheels at the foot end and at least two wheels shall be fitted with a footbrake.
   b. The undercarriage shall have a simple mechanism for height adjustment and shall have a minimum of two levels (car position and fully unfolded)
   c. The supporting mechanism shall automatically stay in place when fully unfolded.
   d. All the functions of the stretcher shall remain completely unimpaired when it is connected to the undercarriage.

9. The stretcher shall have a minimum of two quick-release patient restraints.

1.7 **TESTING OF STRETCHER**

Verification of conformity to fixation and maintain systems as detailed in 1.5.13 shall be made when the stretcher(s) and holding assembly is placed in the mean position of all possible positions available.
The sample submitted for test, shall be identical to or have the same characteristics and behaviour during test as would the production item or vehicle.
Note: Care should be taken that no internal / external additional reinforcement through the rig will modify the behaviour during test.

The head end of the stretcher shall be fixed in a position of 15° measured from the horizontal. The lying area of the stretcher tray assembly (holding assembly) shall be in a horizontal position.

The stretcher shall be fixed on the stretcher's holding assembly.

The sedan chair (when provided) shall also be fixed in its holder. The dynamic test shall be carried out using a patient's compartment assembly or a relevant part of the construction or an appropriate fixture mutually agreed between the test agency and manufacturer as specified below {as per AIS 125 (Part 1)}:
A deceleration of not less than 10g shall be applied for 30 milliseconds in the longitudinal, transverse and vertical directions (one after another). No failure shall occur in the stretcher frame or in the anchorage or locking devices during or after the dynamic test. Permanent deformation, including ruptures, may be accepted, provided that these do not increase the risk of injury in the event of collision and the prescribed loads were sustained. No release of the locking systems shall occur during

the test (Please refer Amendment , 2nd May 2017 to AIS- 125 (part 1): Constructional and Functional Requirements for Road Ambulances).

1.8 PROVISION FOR MEDICAL DEVICES

1.8.1 The road ambulance shall be designed and constructed to provide the following provision in order to ensure levels of care expected from ALS ambulances.

1.8.2 The following provisions for basic treatment for first aid and nursing care shall be made available in ALS ambulances

a) Mounting for portable Oxygen cylinder of 2.2 L water capacity.
b) Hook for infusion mounting.
c) Storage for keeping first aid and nursing kit

1.9 Recognition and visibility of ambulances

Recognition and visibility requirements of ambulances shall be as per Annexure 1.

1.10 The wiring and, where applicable conduits, shall withstand vibrations. No wiring shall be located in or pass through conduit intended for medical gas installation. The wiring shall not be loaded higher than that stated by the wire manufacture.

ANNEXURE-1 (point no. 1.9) :

RECOGNITION AND VISIBILITY OF AMBULANCES

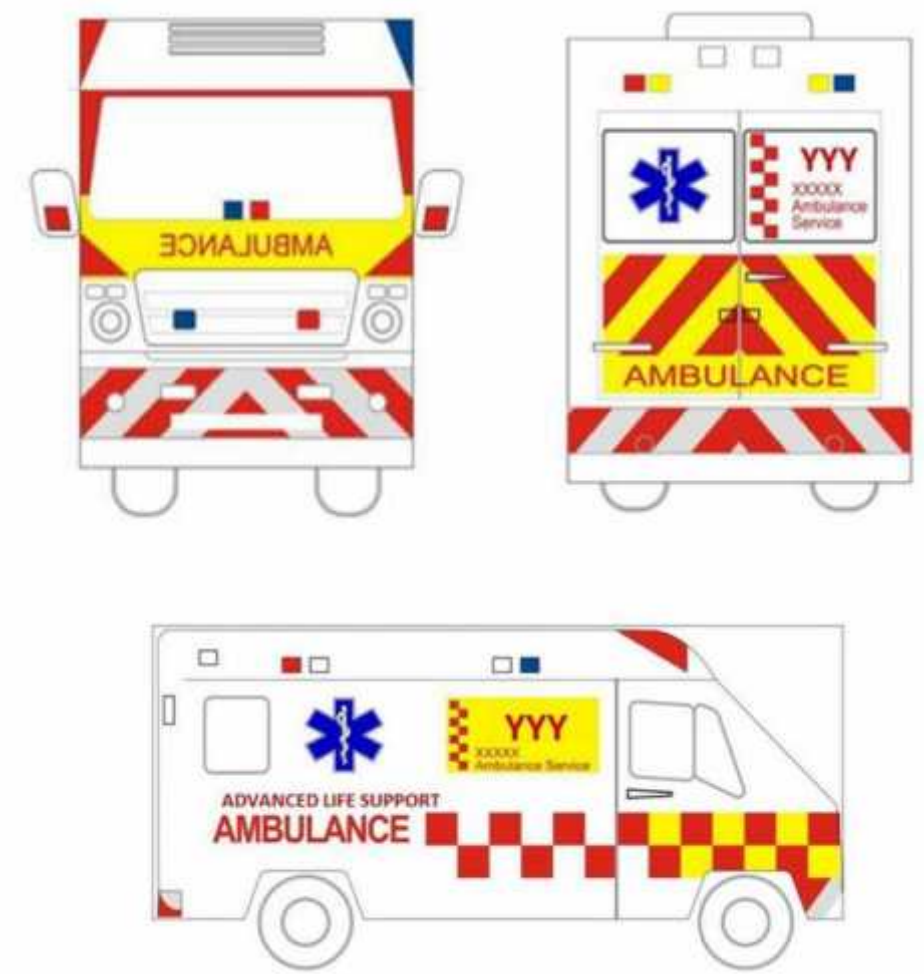
The Ambulance Conspicuity requirements is split into four sections-

(i) Conspicuity Improving Items
(ii) Emblems
(iii) Warning Lights
(iv) Sirens

The section “colour” describes the vehicles basic colour. The section “Conspicuity Improving Items” or “C2I” includes all Symbols, Marking and Striping defined as such by this standard. The section “Emblems” refers to every item that doesn’t fall under the definition of C2I which can be private company signs or corporate identities. The section “Warning Lights” describes colour, position, alignment, luminosity, photometric brightness, flash patterns and electrical current consumption of all used warning lights. The section “Sirens” determines the volumes, frequencies and electrical current consumption of all used sirens and speakers.

The installations by the following text shall closely correspond to the exterior design pictures below:

ALS Ambulance



(i) Conspicuity improving items

This definition includes all marking, striping and symbols as shown in the figure above. Conspicuity Improving Items defined by this standard are: chevron patterns in red/silver and red/yellow, Battenburg patterns, “AMBULANCE” markings, the Star of Life and the emergency number symbol. All “AMBULANCE” markings must follow a 7:1 ratio, length to height.

For ALS Ambulances :

A. Front:

No less than 50% of the front side of the vehicle shall be sulfur yellow, RAL Code 1016 in contrast to no less of 10% brilliant red. The word
“AMBULANCE” on yellow background, minimum of 65% of the hood width, shall be in mirror image (reverse reading) for mirror identification by drivers ahead. The word “AMBULANCE” shall be in a contrasting colour and shall be retro-reflective. The front bumper or at least the lower vehicle front up to 70cm or a suitable height within ±30cm should be equipped with retro- reflective striping in a chevron pattern sloping downward and away from the centreline of the vehicle at an angle of 45 degrees. Each stripe in the

chevron pattern shall be single colour alternating between fluorescent red and silver. Each stripe shall be 6in. (150mm) in width.

B. Side:

The side of the vehicle should be equipped with a two lined red retroreflective Battenburg pattern on the white ground colour. Starting at the vehicle front the Battenburg squares, with a size of 25 x 25cm for ALS Ambulances should reach approximately the middle of the vehicle length and end in a top square, followed by an "AMBULANCE" marking. The "AMBULANCE" marking should be at least 80% of the Battenburg squares height high. The word "AMBULANCE" shall be in a contrasting colour to the white background and shall be retro-reflective. The front half of the Battenburg pattern should be red/yellow squares and rear half should be in red squares on white background as shown in figures above. The bottom line of the Battenburg pattern should be at least 25cm above the bottom line of the vehicles chassis, displayed on the upper half of the left side should be a retro-reflective "Star of Life" symbol, with a size of 40 x 40cm for ALS Ambulances and a retro-reflective emergency number logo, with a size of 40 x 75cm for ALS Ambulances. The vertical centre of both of them should be positioned at similar height. Contour markings in form of a continuous or non-continuous retro-reflecting yellow stripe (each part 3 x 10cm) should be applied to the side profile to enhance conspicuity of the vehicle. In ALS ambulances, the words "Advanced Life Support" shall be marked above/below/adjacent to the word ambulance in size no less than 50% of the size of the word "AMBULANCE".

C. Rear:

No less than 50% of the rear of the vehicle should be equipped with a chevron pattern sloping downward and away from the centerline of the vehicle at an angle of 45 degrees. Each stripe in the chevron pattern shall be single colour alternating between retro-reflective red and yellow. Each stripe shall be 6in. (150mm) in width. To ensure that the standard rear lights of the vehicle are not camouflaged by the chevron striping, the chevron striping must provide a distance of no less than 10cm to the standard rear lights. The word "AMBULANCE" on yellow background, minimum of 65% in width of the rear facing side of the vehicle but not smaller than 70cm in width, must be displayed on the rear . The word "AMBULANCE" shall be in a contrasting colour and shall be retro-reflective. Displayed on the left back window should be a retroreflective "Star of Life" symbol, with a size of 85% of the window, and on the right back window a retro-reflective emergency number logo with the same size. In case of a single window at the rear, size of "Star of Life" symbol and the emergency number logo shall be 85% of half of the window. The rear bumper should be provided with the same chevron pattern as the front one.

Contour markings in form of a continuous or non-continuous retroreflecting silver stripe should be applied to the rear profile to enhance conspicuity of the vehicle.

(ii) Emblems

Emblems defined as such by this Ambulance Conspicuity requirement are government/ private / operator signs, corporate identities (XXX) and every other sign, symbol, marking or striping not referred to in the "Conspicuity Improving Items" section. These emblems are only allowed in a non-reflecting manner and the size can't be bigger than 60% of the "AMBULANCE" markings. Ambulance Calling Number (108) must be displayed prominently on the side and back of the Road ambulance.

Notes :

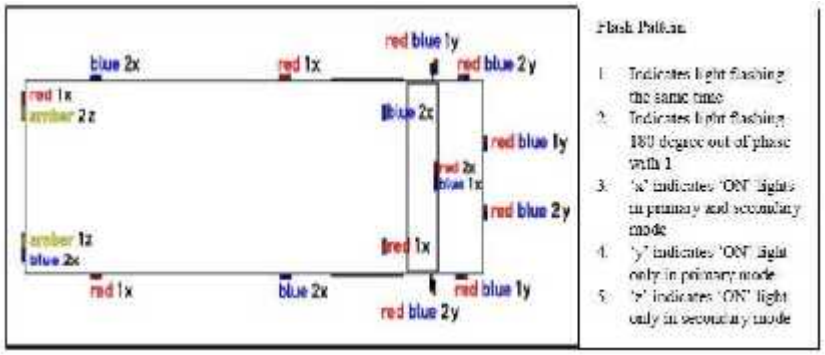
(1) Modifications required in location and dimensions of conspicuity items and emblems specified in point no. (i) and point no. (ii) required due to vehicle design shall be permitted.

(2) The Emergency number logo shall be fitted by the user. At the time of homologation of the vehicle, the manufacturer shall only identify the space for fixing the same.

(3) Emblems shall not be fitted on glasses which can be slided or rolled down in such a way that visibility of emblems is adversely affected. In such a case, it shall be permitted to shift the position of emblems to a location feasible as per exterior design of the vehicle. Further, it shall be permitted to modify the size of emblem and size / location of C2I markings given in point no. (i) above to suit the exterior design of the vehicle.

(iii)Warning lights

ALS Road Ambulances shall have warning lights as follows:
All warning lights have to be mounted rectangular to the horizontal ground. They must provide 100% of their intensity in a vertical angle of ±4 degrees and 50% in a vertical angle of ±8 degrees. The minimum intensity is for blue and red lights at 200cd at daylight and 100cd in the night. The horizontal minimum angle should be at least 45 degrees. All lights must flash between 2Hz and 4Hz and should be mounted as on the graphic below:



Lights marked with “red blue” must show red and blue in one piece one at a time. In daytime they must flash red in nighttime they must flash blue. Two lights have to be mounted in the lower middle windshield only flashing to the outside of the car. All lights should be flashing as shown in the graphic above. To switch from Primary into Secondary Mode there has to be one switch that allows only one mode.

(iv) Sirens

In ALS Road Ambulances, all siren loudspeakers have to be mounted on the front of the vehicle. Hidden installation is allowed. The main sound direction must be in driving direction. Permitted are wail and yelp signals that cycle between 10-18 respectively 150-250 per minute at an sound pressure level of 110dB(A) to 120dB(A). The sirens should be tested in accordance with IS 1884 (though not covered in the standard). The frequency range must be at least one octave and should be between 500Hz and 2000Hz. An additional electronic air horn can be used. Further there should be a public address system that can be worked at all times ergonomically from the driver’s seat. The siren switch can only be used if the warning lights are on.

NOTE : All fabrication work to be done as per guidelines of AIS-125 (Part 1). Bidders are advised to refer website of “Ministry of Road Transport & Highways (MORTH), Government of India” in this regard.

B. **Medical Equipment for ALS Ambulances**

1. REQUIREMENTS FOR MEDICAL DEVICES

1.1 **General**

The device should be designed for use in mobile situations and in field applications. If a medical device is designated as "portable", which is meant for use inside an ambulance (except patient handling equipment).

1.2 All devices should be selected and mounted so that no harmful influence to the electrical supplies results.

1.3 Buttons, switches, indicators and controls should be easily accessible and visible. SI units (except for blood pressure and airway pressure) and standardized graphical symbols where applicable should be used.

1.4 All compressed gas cylinders except for sizes up to 2.2 L water capacity, must be stored and used in an upright position with the valve end up.
The cylinder compartment should have facility to place the regulators safely at the time of replacing empty cylinders and fitting filled ones.

1.5 The ambulance whenever fitted with a stationary oxygen system, should have all the essential components and accessories required for the piped oxygen system which should include as a minimum:

(i) One no. Pressure Regulator for each of the supply sources (stationary as well as portable)

(ii) Low pressure, electrically conductive, hose approved for medical oxygen.

(iii) Oxygen piping concealed and not exposed to the elements, securely supported to prevent damage, and be readily accessible for inspection and replacement.

(iv) Oxygen piped to a self-sealing duplex oxygen outlet station for the primary patient with a minimum flow rate of 100 LPM at the outlet.

1.6 The patient cabin should have a non digital pressure meter (as per standards) showing the pressure level of both the cylinders as well as the distribution pressure level.

1.7 The ambulance should have an emergency oxygen outlet for each of the stationary oxygen system available on any of the walls of the patient compartment easily accessible to the patient head end and connected directly at the output of the pressure regulator of the stationary Oxygen system ensuring that any fault in the oxygen distribution system would ensure uninterrupted oxygen supply to the patient. The terminal outlets should be of the same design and operational criteria as the self-sealing duplex outlets of the distribution system.

1.8 Outlets should be adequately marked and identified and not interfere with the suction outlet, whenever provided.

1.9 Stationary oxygen system should be accessible from outside of the vehicle and should be physically isolated from the patient as well as the driver compartment

1.10 **Gas piping**

Gas piping shall not pass through cupboards and compartments.
The use of remote high pressure lines and gauges are not allowed.

Equipment/ Item List for Advanced Life Support (ALS) Ambulance

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
1	**Vacuum Mattress** **Technical specifications:** 1. The mattress shall be made of strong material which is disinfectable, washable, putrid resistant, waterproof, petrol—oil resistant and allows preliminary x-ray diagnostics. The valve, neither the air inlets nor outlets shall disturb the patient. 2. The pump shall be able to reduce the pressure by 500 hPa within 4 min. 3. The vacuum mattress including the filling shall have the following minimum properties: a. heat resistance: 70 °C b. cold resistance: - 30 °C 4. The dimensions of the vacuum mattress shall be as follows: a. Length: minimum 2000 mm b. Width: minimum 800 mm in flat position 5. The mass including the pump shall be not more than 15 kg. 6. The loading capacity shall be a minimum of 150 kg. 7. The vacuum mattress shall be equipped with at least 4 handles on each longitudinal side, in order to be able to transport a patient in an immobilized position. 8. There shall be no permanent deformation when tested as following: i. For rigidity and density the mattress shall be placed on a stand: a. the pressure inside the vacuum mattress shall be reduced by 500 hPa; b. after 30 min, the remaining pressure difference shall be at least 300 hPa; c. the mattress (after opening the valve) shall be shaped to a human body by means of a test person of (75 ± 5) kg body weight, and a height of (175 ± 5) cm; d. the pressure inside the vacuum mattress shall be reduced again by 500 hPa; e. the test person shall be removed; f. the mattress is then placed with a load of 50 kg applied on a surface of 350 mm diameter centred in the middle of the	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
	mattress; g. after 2 hours the remaining pressure difference shall be at least 300 hPa and the deflection shall not exceed 100 mm. 9. The immobilization of the patient is achieved by the suitable shrinkage of the vacuum mattress. In order to avoid additional injuries the shrinkage shall not exceed the following requirement. The shrinkage of the lying area of the mattress shall not be more than 1 % in length and 3 % in width when tested as following: "Place the mattress in flat position on a flat surface. Measure the mattress in the middle longitudinally and middle transversally. The pressure inside the mattress shall then be reduced by 500 hPa. Measure the size of the mattress, at same places as before, whilst under this vacuum pressure".	
	10. There shall be no remaining deformation of the lying area when tested as following: a. The pressure inside the vacuum mattress shall be reduced by 500 hPa and then suspended by means of its external handles (instead of loops) and a load of 250 kg applied; b. after 15 minutes there shall be no visible damage and/or failure; c. the same applies if the mattress is provided with a protective coating/cover and if the latter is intended to be used in combination with the patient.	

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
2	**Carrying Sheet** **Technical specifications:** Dimensions : The dimensions of the carrying sheet shall be as follows: a. Length: minimum 1850 mm b. Width: minimum 570 mm The mass shall be not more than 5 kg. The loading capacity shall be a minimum of 150 kg. The carrying sheet shall be equipped with at least 3 handles on each longitudinal side. The lying part of the carrying sheet shall be made of a strong material which is bacterial resistant, fungal resistant, washable, disinfectable, putrid resistant, waterproof, petrol— oil resistant and allow preliminary x—ray diagnostics. There shall be no progressive smouldering or flaming ignition when tested in accordance with EN 1021-1. There shall be no remaining deformation of the handles and the lying area.	1
3	**Long spinal board complete with head immobilizer and securing straps** **Technical specifications:** 1. The dimensions of the long spinal board shall be as follows: a. The usable length shall be a minimum of 1830 mm and a maximum of 1980 mm. b. Width: minimum 400 mm maximum 500 mm c. Depth: maximum 70 mm (unfolded and folded) 2. The mass shall be not more than 8 kg. 3. The loading capacity shall be a minimum of 150 kg. 4. The long spinal board shall be of a sturdy lightweight construction. It shall be equipped with a minimum of 3 handholds on each longitudinal side and a minimum of 2 handholds at both the foot and head ends. 5. The lying part shall be designed so that it will give	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
	maximum support for the head and whole torso. 6. The lying part shall be designed in such a way that it prevents the ingress of fluids. The material shall be easy to clean, washable, petrol—oil resistant and allow preliminary x—ray diagnostics. it shall withstand temperatures ranging from + 70 °C to - 30 °C. 7. There shall be no progressive smouldering or flaming ignition. 8. Deformation: Not applicable. 9. Deformation of the lying area :The spinal board shall not bend permanently or break, when tested as following: a. "Place the long spinal board on supports positioned 300 mm from the ends of the spinal board. Load spinal board with 250 kg, distributing the weight evenly along the length of the spinal board". b. "Unload the spinal board and examine for deflections". 10. Resistance to torsion: There shall be no remaining deformation.	
4	**Immobilization, Set of fractures** **Technical specifications:** Set of 6 adult sizes (Hand & wrist, Half arm, Full arm, Foot and ankle, Half leg & Full leg) Pneumatic Splints with carrying case. Should be X-ray lucent. Inflatory tubes' extension with closing clamp makes closing easy and quick after inflation. Fixing of splint is by zipper or belt. Distal end left open to expose toes. Should be washable and reusable. Should be supplied with the appropriate pump required to inflate the splints.	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
5	**Cervical upper spinal immobilization devices** **Technical specifications:** 1. Cervical upper spinal immobilization devices of different sizes suitable for infant, pediatric and adults. 2. Should have pre-moulded chin support, locking clips and rear ventilation panel. 3. Should be rigid. 4. Should have high-density polyethylene and foam padding with one piece design enabling efficient storage where space is limited. 5. Should be X-ray lucent and easy to clean and disinfect.	1
6	**Extended Upper Spinal Immobilization Extrication Devices or Short Spinal Board (one of these)** **Technical specifications:** 1. Low-flexibile device to secure the patient's torso, legs and head to prevent movement. 2. should be consist of three straps across the torso, an additional strap for the groin, and another strap that rides over the forehead. The back of the device should be composed of several long blocks of hard, inflexible material with cloth in between. 3. Should be unbreakable, comfortable, easy to use and clean.	1
	4. Should be effective extrication device offering vertical rigidity as well as horizontal flexibility. 5. Should be supplied complete with head support. 6. Radiolucent, MRI and CT scan compatible.	
7	**Stationary Oxygen** **Technical specifications:** 1. Trolley for mounting minimum 2 No. of D type cylinder at maximum 150 kgf/cm^2 filling Pressure. 2. Complete oxygen line system with r with outside access door. 3. Complete gas pipe lining with manifold with Oxygen regulator and tubing should be concealed. 4. High pressure flexible S/S tubing (2 nos.). 5. Superior quality quick release outlet points for oxygen (2 nos.). 6. Flow meter with humidifier. 7. Pressure gauges. 8. Should be supplied with Reusable face mask adult & pediatric – 2	

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
	each with all other accessories	
8	**Portable Oxygen** **Technical specifications:** 1. Minimum 1 No. of 2.2L Water Capacity Aluminium Cylinder at maximum 150 kgf/cm^2 filling pressure. 2. The Portable Oxygen Cylinder should be manufactured as per IS: 7285 and certified by Chief Controller of Explosives, Nagpur.	
9	Valve for Cylinders for Portable Oxygen	
10	Resuscitator with oxygen inlet and masks and airways for all ages and oxygen reservoir	1
11	**Electric Portable Suction Aspirator** **Technical specifications:** 1. Should be made of FRP / ABS / stainless steel and should have handle for transportation. 2. 0 to 600 mm Hg ± 10 regulable, 1/2 HP; single phase minimum noise, low maintenance type, oil free piston pump/ diaphragm / Rotary vane motor, no daily requirement of oil addition.; 3. Flutter free vacuum control knob (pressure regulator) and monitored by vaccum gauge of suitable range (ISI marked); 4. Wide mouthed 1 x 1 LITRE autoclavable polycarbonate jar (light weight, unbreakable and clear) with self sealing bungs and mechanical over flow safety device (auto lock facility).	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
	5. Auto transferability from one jar to another. 6. Should be motion tolerant, user friendly, safe to use and handle for easy mobility. 7. Power supply : DC voltage. 8. Inbuilt maintenance free battery. Battery backup upto 30 minutes on full charge. 9. Should have main / off switch with light indicator. 10. Cord storage arrangement should be there. 11. Should be supply with collection container (1 X 1 Lt. Jar) & its cap–02 sets, suction tube tips–02 sets, 02 sets of moisture & microbial filters.	
12	**Portable Suction Aspirator, Manual** **Technical specifications:** Canister volume 250 - 400 ml; made of Polycarbonate; non breakable. Maximum suction pressure at least 200 mmHg. Should be supplied with adult and pediatric/neonatal suction catheters- 5 each.	1
13	**LED/LCD Type** **B. P. Monitor** **Technical** **specifications:** 1. Measurement unit : mmHg. 2. Minimal scale : LED column: 2 mmHg (0.26 kPa), Numerical display : 1mmHg (0.13 kPa). 3. Measure scope : LED column: 0-300 mmHg (0- 40 kPa), Numerical display : 0-300 mmHg (0- 40 kPa). 4. Overpressure warning : LED top will flash when pressure is more than 315 mm Hg (42 kPa). 5. Available discrepancy : ± 3 mmHg (0.4 kPa). 6. Pulse rate : 30-200 pulse/minute, ± 5%. 7. Pressurization : manual by air release valve. 8. Power supply : 4.5 V, AA * 3, or USB type AC adapter.	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
	9. Relative humidity : 30%-85%. 10. Operation environment : + 10^0C to + 50^0C.	
14	**Finger Tip Pulse Oximeter** **Technical specifications:** 1. Fingertip pulse oximeter with integrated color LED Screen. 2. Screen should display Oxygen saturation (SpO_2), Pulse Rate, Pulse bar graph, SpO_2 % waveform & Power indicator. 3. Should be suitable for all ages. 4. SpO_2 range 0 to 100 %, accuracy : 70%-100% ±2 %, 5. Pulse rate range at least 30 to 240 bpm, accuracy : <100% - ±2 bpm, > 100 bpm±2%. 6. Should have built in Alarms for low saturation, low battery. 7. Should be battery operated with standard AA or AAA batteries. 8. Should have auto power off feature when not in use. 9. Should be supplied with appropriate batteries and storing case.	1
15	**Stethoscope** **Technical specifications:** 1. Dual head stethoscope. 2. Stainless steel/ aluminium Chest piece 3. Dual head rotatable with diaphragm on one side and bell on the other 4. Non-chill diaphragm and retaining ring 5. Non-chill lining for the bell 6. Soft sealing ear tips. 7. Head set anodized aluminum or stainless steel 8. Tube length 20 to 30 inches 9. Epoxy fiber glass diaphragm is desirable 10. Diaphragm diameter is an inch to 1.5 inch . 11. An extra set of ear piece/ diaphragm and retainers should be provided.	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
16	**Digital Thermometer** **Technical specifications:** 1. Battery operated digital thermometer. 2. Washable and easy to use . 3. Fahrenheit and Centigrade Measurement option. 4. Temperature range must include 32 ^{o}C to 42 ^{o}C. 5. Auto power off when not in use. 6. Fever alarm, with on and off audio alarm. 7. Should include a storage case.	1
17	**Device for Blood Sugar Determination** **Technical specifications:** 1. Should be a hand held meter. 2. Should require no routine maintenance. 3. Should have reading range from 20 to 600 mg/dl. 4. Should have reading time of approximately 10 seconds. 5. Should use electrochemical technology or better. 6. Should use a minimum blood sample less than 1.0 µl. 7. Should have a LCD display. 8. Should have measuring unit in mg/dl. 9. Should have wide operating temperature. 10. Should have a minimum memory of 20 readings. 11. Should have replacement offer in warranty period. 12. No need to change code. 13. Battery should be replaceable without using any tools. 14. Should have facility to ensure accuracy of measurements. 15. Should have control testing mechanism.	1
	GLUCOSTRIPS- 100 1. Should be able to use capillary blood samples. 2. Should have a minimum 4 months shelf life after opening the strip vial. 3. All strips should have at least one year expiry date from the date of supply. 4. Strips should be available in the local market.	

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
18	**Diagnostic Light** **Technical specifications:** 1. Body made of Stainless steel or aluminum or ABS plastic 2. Run on AAA or AA batteries (2 batteries) 3. Push button start 4. Should be with spot illumination without peripheral ring of light	1
19	Infusion Solutions, Litre	4
20	**Equipment for injections and infusions set** **Technical specifications:** **a.** Disposable syringe 2 ml, 5 ml, 10 ml- 5 each **b.** Infusion set, BT Set, Micropore, IV Cannula: 18 G - 20 G - 5 each **c.** Hand Sanitizer (500ml) - 1 unit **d.** Tourniquet band -4 **e.** Infusion Mounting -2 **f.** Pressure Infusion Device - 1	
21	**Automatic External** **Defibrillator** **Technical** **specifications:** 1. Waveform: Biphasic. 2. Energy selection : automatic preprogrammed selection (50 J, 120 J, 150 J, 200 J). 3. Patient safety : all patient connections should be electrically isolated. 4. Charging time should be less than 10 Sec. with new batteries. 5. Configurable Self test. 6. Automatic Self Test Checks 7. Defibrillation Advisory should evaluate electrode connections and patient ECG to determine if Defibrillation is required. 8. Maximum Patient Impedance : 200 ohms. 9. Minimum shock capacity with new battery pack : 200 shocks.	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
	10. Battery pack standby time (after installation) : 2.5 years. 11. Weight should be 4 Kg. or less.	
22	**Cardiac Monitor** **Technical specifications:** 1. Monitoring parameters: ECG, SpO_2, Respiration Rate, Heart rate, Temperature, NIBP. 2. Display : Color LED/ TFT bright screen of at least 9 inches or more with wide viewing angle for easy viewing from a distance. 3. Should have adult, pediatric and neonatal modes. 4. Should be fanless. 5. Facility of at least 5 waveforms and numeric display simultaneously. 6. Should have soft keys for quick access to main functions. 7. Manual, auto, stat modes should be there for NIBP. 8. SpO_2 measurement range: 0 to 100 % accuracy ± 3 digits for : 70 to 100 %, Pulse rate measurement range: 30 to 250 bpm (acceptable range upto ±5 bpm) accuracy ± 3 bpm. 9. Heart rate measurement range: 15 to 250 bpm (±5 bpm) accuracy ±3 bpm . 10. NIBP (Oscillometric method) measurement range: 30 to 300 mmHg (±5 mmHg). 11. Respiration (Impedance method) measurement range: 0 to 120 breath per minute ± 1% (acceptable range upto: ±5 brpm).	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
	12. Temperature measurement range: 0^0C to 50^0 C (± 5^0C) accuracy ± 0.1^0C, Temperature should be measurable in ^{0}F also. 13. The SpO_2 should also sense in hypotension, shivering & motion. 14. Audiovisual alarms for all parameters. 15. Should have optional port for printer. 16. Trend display (numerical & graphical) of all parameters for minimum 72 hrs. 17. Should be user friendly, durable, easy to clean and portable with carrying handle. 18. Display error/ reports systems for: lead/ sensor/ probe-disconnected/ failure, in built battery status etc. 19. Should work on DC with inbuilt rechargeable Lithium ion battery with minimum 4 hours battery back up. 20. Should provide following accessories: a. Reusable adult 5 lead ECG cable set – 1 no. . b. Reusable adult, pediatric and neonatal SPO2 finger probes – 1 no. each. c. Large adult, adult and pediatric NIBP cuff – 1 no. each. d. Skin temperature probe: 1 no. .	
23	Portable advanced resuscitation system (p.a.r.s.) Contents of portable airways care System (p.a.c.s.) Infusion equipment - to include suitable venous indwelling cannulae Infusion administration sets Infusion solutions Adhesive fixing materials Intubation equipment-to include laryngoscope handle(s) with suitable blades Magill forceps Insertion stylets Endotracheal tubes with connectors Inflation tube clamp Inflation syringe Tube fixing material Stethoscope Drug administration equipment	1
24	**Nebulization Apparatus** **Technical specifications:** 1. Atomizer (Compressor) electric aspirator to be used for neonatal, pediatric and adult.. 2. Motion Tolerant and for continuous use.	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
	3. Power supply : DC with battery backup of minimum 30 minutes . 4. Should generate droplet of size: less than 10 microns . 5. Filling volume: 5 ml or more. 6. Facility to control the nebulization rate. 7. Low noise level . 8. Should be user friendly and easily cleanable. 9. In built thermal cut off systems should be there . 10. Provision for fixing/Hanging in the Ambulance desirable. 11. Should be provided with a complete nebulization kit of 05 Nos. including adult and child mask and medication cup – 5 Nos. each.	
25	Thorax Drainage Kit	1
26	**Volumetric Infusion Device Technical specifications:** 1. Designed to precisely drive the plunger of a syringe down its barrel to infuse a medication at a steady and programmed rate. It must be administered to neonates, pediatric and adult with a high degree of volume accuracy of ±2% or better & rate consistency. 2. The unit should be mobile and portable (weight approx. 2.5 Kg.) with Front / side loading facility and minimum 3" display.	1
	3. Should accept all internationally produced/marketed syringes and should be able to detect it automatically. 4. Automatic detection of syringe size and proper fixing. 5. Should support the Bolus supply of drug on press of single button, as per need and should be able to preset different range of Bolus supply. 6. Flow rate programmable range at least from 0.1 to 200 ml/hr. in steps of 0.1 ml/hr. 7. Saves last infusion rate even when the AC power is switched off. 8. Bolus rate should be programmable to approx. 500 ml, with infused volume display.	

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
	9. Selectable occlusion pressure trigger levels selectable from 300 and 500 mmHg. 10. Applicable syringe: 10ml, 20ml, 30ml and 50ml syringes. 11. Maximum pressure generated ≤ 20 psi. 12. Anti-bolus system to reduce pressure on sudden release of occlusion. 13. Pause infusion facility required. 14. Self-check carried out on powering on. 15. Battery powered alarm required including: occlusion alarm, near end of infusion prealarm and alarm, volume limit pre-alarm and alarm, low battery pre-alarm and alarm, AC power failure, drive disengaged, syringe loading error, maintenance required. 16. Tamper-resistant case made of impact resistant material. 17. Securely mountable on tabletop, IV stand or bed fitting. 18. Battery operated: Internal rechargeable battery having atleast 4 to 6 hours backup for 10ml/hr. flow rate with 50ml syringe. 19. **Accessories, spare parts, consumables:** a. Clamp for mounting pump on IV stand. b. Consumables : Battery, syringe holder, PMO lines.	
27	Central Vein Catheters	1
28	**Transport ventilator** **Technical specifications:** 1. The Portable Transport Ventilator (inbuilt turbine) should be suitable for ventilating Adult & pediatric patients. 2. Operating Modes –CV/ACV (Controlled / Assist Controlled in Volume Mode), PCV / APCV (Controlled / Assist Controlled in Pressure Mode), PSV (Pressure Support Ventilation with guaranteed tidal volume), SIMV (Volume and Pressure Modes), CPAP, NIV (BiPAP). 3. The unit should be offered with inbuilt battery backup for minimum 2 hours. 4. The unit should have 5” or more color TFT/LED Screen for displaying the Monitor Parameters & waveforms. 5. The Unit should be Microprocessor Controlled User Friendly and should have Invasive and Non Invasive Ventilation facility. 6. The unit should offer following settings - Tidal Volume range : 50ml to 1200ml	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
	- BPM : 5 to 50 BPM - PEEP : 0-20 - FiO2 blender : 21% to 100% (inbuilt electronic) - 72 Hrs trend. 7. FiO2 Monitoring should be available. 8. The unit should have possibility to either use Single limb (Disposable type) or dual limb (reusable type) patient breathing circuit. 9. The offered unit should offer dynamic respiratory analysis for real time patient expiratory flow with readings on Display. 10. The unit should have Loss / Leak Compensation. 11. Equipment should be simple to use, operate and maintain. It should be designed for easy access to serviceable parts. 12. The unit should be ISO & CE or USFDA certified.	
29	Material for treatment of wounds	1
30	Materials for treatment of burns and Corrosives	1
31	Kidney Bowl	1
32	Vomiting Bag	1
33	Non-Glass Urine Bottle	1
34	Sharps Container	1
35	Sterile Surgical Gloves, Pairs	5
36	Non-Sterile Gloves for Single Use	100
37	Emergency Delivery Kit	1
38	Waste Bag	1
39	Non-Woven Stretcher Sheet	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
40	Cleaning and disinfection Material	1
41	Seat belt cutter	1
42	Warning Triangle Lights	2
43	Spotlight	1
44	Fire Extinguisher, ABC Type (minimum 2.5 kg capacity complying with IS:13849 or IS:2171)	2
45	Internal communication between driver and patient compartment	1
46	Basic protective clothing including high visibility reflective jacket or tabard	1
47	Advanced Protection Wear	1
48	Safety/Debris Gloves, Pair	1
49	Safety Shoes, Pairs	1
50	Safety Helmet	1
51	Personal Protection Equipment against Infection	1
52	Pick up Stretcher/ Scoop-Stretcher	1
53	Traction Device	1
54	Jumbo Oxygen Cylinder (H Type)	2
55	Rescue Tools (Axe, Hammer, Iron Rod/Sabbal, Saw)	1 each
56	Infrared Thermometer (High Quality)	1

S. No.	Name of Equipment/ Items & Their Technical Specifications	Quantity
57	CCTV Camera in Patient Cabin as well as on Front of the Ambulance	1 each
58	Panic Button	1

Note : (1) Motor Vehicle should have certification of AIS 125 Part-I as per CMV(A)R, I989 (as amended from time to time) at the time of supply of vehicle.

(2) Fabricator should also have certification of AIS 125 Part-I as per CMV(A)R, I989 (as amended from time to time) at the time of supply of vehicle.

In Type C and D road ambulances, there shall be a recessed externally mounted power connector to enable external power to be provided for operations such as the following:
a) Charging battery (ies) for medical equipment
b) Operating medical devices, when installed
c) Operating a stand-alone patient compartment heater, when installed
d) Operating an engine pre-heater, when installed.

The connector for 220/240 V, shall be a male/female connector and not interfere with the electrical and mechanical safety.

It shall be not possible to start the engine whilst it is connected to an external 220/240 V power supply unless an automatic mechanical disconnection is fitted. If no automatic mechanical disconnection is fitted, the connector shall be on the driver's side. This requirement shall not be applicable if the Engineer of the vehicle is used for operating Air Conditioning system of the vehicle when external power supply is connected.

The 220/240 V circuit shall be protected either by an "earth leakage device" with a maximum setting of 30 mA or by a separate transformer. If the protection is given only by an "earth leakage device" there shall be a label near the plug that reads as follows:
"CAUTION! CONNECT ONLY TO AN AUTHORISED SOCKET."

The patient's compartment shall be fitted with the minimum number of connections as given in Table 2. For these connections a permanent power supply shall exist.

Table 2
12V connections for medical devices in patient's compartment

Minimum number of connections	4

Any additional electrical systems fitted to the base vehicle shall be separate from the base vehicle electrical system and the body or chassis shall not be used as an earth return for additional circuits. All circuits in the additional system(s) shall have separate overload

protection. Overload protection may consist of either fuses or so called Electronic Management Control systems. All circuits shall be well defined and cables clearly marked at the connection points and at a maximum of 1m intervals along its length. Alternatively, cables in the circuits can be identified by following suitable color codes.

The system shall have enough circuits and be so constructed that when/if a circuit fails all illumination and medical technical equipment can be switched to an alternative power source.

The wiring and, where applicable conduits, shall withstand vibrations. No wiring shall be located in or pass through conduit intended for medical gas installation. The wiring shall not be loaded higher than that stated by the wire manufacture.

Where there are different voltage systems, the connections shall be non-interchangeable.

Electrical installation shall comply with the clauses of IEC 60364-7-708 which are applicable to Ambulance as per AIS 125, Part-I, Specification of Ministry of Road Transport and Highways.

NOTE:

1. The equipments / items mentioned in the above list, costing more than Rs. 3.00 Lacs per unit should be ISO, CE/US-FDA certified and the equipments / items mentioned in the above list, costing less than Rs. 3.00 Lacs per unit should be ISO 9000/ ISI / BIS certified.
2. All the electrical equipments mentioned in the above list should be operable on DC power supply.
3. All the equipments/ items mentioned in the above list should be motion tolerant, user friendly and safe to use.
4. The Final graphics including designs, logos & sizes of text etc. will be provided to the successful bidder after finalization of tender.
5. Main stretcher/ undercarriage, Blinker, Top lights, Sirens etc. and other fabrication work in Advanced Life Support (ALS) Ambulance should be done in accordance with "AIS:125 (Part 1)" as amended from time to time set up by "The Ministry of Road Transport and Highways, Govt. of India".
6. After installation of medical equipments & completing fabrication work, it is mandatory for successful bidder to take approval and providing certification of "AIS:125 (Part 1)" (as amended from time to time) from certified agency, for all fabrication work done including Main stretcher with undercarriage, Blinkers, Top lights, Sirens etc. fitted in Advanced Life Support (ALS) Ambulance.

7. Bidders shall be responsible for registration of ambulances in “Regional Transport Office (RTO)” , Dehradun

Specifications - Basic Life Support Ambulance (BLS)

For supply of 100 Nos. Ambulance BS 6, Type 'C' Basic Life Support (BLS) as per AIS 125 – National Ambulance Code with Fabrication and Equipment

(Ambulance should be compatible with all standards of National Ambulance Code (AIS-125), CMV(a)R, 1989 (as amended from time to time), Pollution Control Board, and STA / RTO Rules.

	Criteria	Range
1	**Base Vehicle / Ambulance**	
1.1	Type of Fuel	Diesel Engine
1.2	Vehicle Emission Compliance	BS-6
1.3	Vehicle Mileage (Declared by OEM as certified by Test Agency under Rule-115 of CMVR-1989) (in Kmpl)	Minimum 13 Kmpl
1.4	Top Speed (Kmph)	Minimum 100 Kmph
1.5	Acceleration (0-70 Kmph)	Within 40 Seconds
1.6	Gradeability of Vehicle (in Degrees)	Min 10° Degree
1.7	Air Conditioning	With Air-Conditioning (Both in Crew and Patient Compartments)
1.8	Air Conditioning Criteria	Air-Conditioning System should be Company Pre-Fitted by Base Vehicle Manufacture. Retro-Fitment of Air-Conditioning System at Ambulance Body Fabrication Facility after Base Vehicle Manufacturing is not allowed. The Cooling System should be such that, given an Outside and Inside Temperature of 32°C, the cooling down to at most 27°C in the Patient's Compartment should not take longer than 15 min. After 30 min a temperature of at most 25 °C should be reached. The inside temperature should be measured in the center of the patient compartment and at the mid-point from the cooling outlets (if several outlets are available). The installation of the system shall not encourage exhaust gases entering the

	Criteria	Range
		patient's compartment.
1.9	Engine Power (HP)	100-125 HP
1.10	Engine Torque (Nm)	200-350 Nm
1.11	No. of Cylinder in Engine	Minimum 4
1.12	No. of Doors	Minimum 3
1.13	Fuel Tank Capacity (Liter)	Minimum 60 Liters
1.14	Ground Clearance (mm)	Minimum 180mm
1.15	Wheel Base (mm)	2800-3500mm
1.16	Gross Vehicle Weight (Kg)	3000-5000 Kgs
1.17	Vehicle Transmission System	Manual
1.18	No. of Speed/Forward Gears	Minimum 5 Forward and 1 Reverse
1.19	Type of Wheel Drive	Two Wheel Drive (Front/Rear)
1.20	Type of Steering	Power
1.21	Vehicle Brake ABS Fitted	Yes
1.22	Front Vehicle Brake	Disc / Drum
1.23	Rear Vehicle Brake	Disc / Drum
1.25	Warranty Time (in Months) with Unlimited Kms	Minimum 24 Months
1.26	Colour of the Vehicle	As per AIS-125
1.27	Overall Length of Vehicle (mm)	Minimum 5500mm
1.28	Overall Width of Vehicle (mm)	Minimum 1900mm
1.29	Overall Height of Vehicle (mm)	Minimum 2500mm
1.30	Type of Vehicle Body	Monocoque
1.31	Seating and Carrying Capacity to carry Minimum Passengers / Patient Including Driver and Co-Driver	Minimum 7 Persons + 1 Patient in Lying Condition
1.32	Volume of Rear Cabin (Patient Compartment)	8-10.5 Cu.M
1.33	Length (mm)	2750-3500mm
1.34	Height (mm)	1700-1900mm
1.35	Windows for Good Ventilation in the Rear Cabin	Rear Sliding Window on both sides of the Patient Cabin with Safety Glass.

	Criteria	Range
1.36	Rear Doors Easy Entry of the Victim in Emergency without any Obstruction.	Dual-Hinged with 270 Degrees Opening with Security System.
1.37	Floor Loading Height for Easy Entry of Collapsible Stretcher into the cabin.	Maximum 750mm
1.38	Comfortable Movable Area of Occupants.	Free space to be available for occupants to move.
1.39	Space for keeping Medicines	Provision of Rack with Lock Mechanism for storing the medicine.
1.40	Batteries	2 Nos. 12V-80 to 100 Ampere-Hour Maintenance-Free Battery
1.41	Alternator	One Min. 90 Amps and second one Min. 60 Amps.
1.42	Turning Circle Radius	Less than 7m
1.43	Body & Chassis Painting	Antirust-Coating before External Painting has to be given for the body as well as under the chassis.
1.44	Place for keeping Tools	Extra space for keeping driver belonging along with other tools.
1.45	Spare Wheel	With Spare Wheel and Provision has to be made under the body in between long members.
1.46	Rear Door Beading	Rear Door Beading / Weather Strip to prevent Entry of Water and Dust inside Cabin.
1.47	Water Proofing	All Doors, Windows and Hatches should be waterproofed.

Note: Batteries and Alternator should comply AIS 125 Part-I of Ministry of Roads Transport and Highways.

A. Constructional and Functional Requirements for BLS Road Ambulances

1. Vehicle Body

1.1 Fire safety

All interior materials shall comply with the flammability requirements specified in IS: 15061, as notified under CMV (A) R, 1989 though the standard does not cover ambulance in the scope.

1.2 Fitment of fire extinguisher

The ambulance of BLS shall be equipped with Two fire extinguishers of 2 Kg each.

1.3 **Minimum loading capacity**

The minimum loading capacity shall be as follow:

Minimum Loading Capacity (Persons)

	BLS Ambulance
Number of seats and / or stretcher facilities (in addition to driver seat)	**3**

1.4 **Partition wall**

In BLS road ambulances, a full partition wall with a window shall separate the driver's compartment from the patient's compartment.
One window with a minimum separation of 100 mm shall be provided in the partition wall made of material complying with the requirements of CMVR. The windows shall allow direct visual contact with the driver. The opening area of the window shall have a maximum area of 0.12 m^2. It shall be secured against self-opening and shall have an adjustable blind or other means of preventing the driver being disturbed by the light of the patient's compartment.

1.5 **Patient's Compartment**

1.5.1 The patient's compartment in BLS Road Ambulances shall be designed and constructed to accommodate the medical devices. The width of the patient compartment for BLS Road Ambulance, after installation of cabinets, etc. shall provide 40 ± 15 cm clear aisle walkway between the main stretcher with undercarriage and the base of squad bench / attendant seats, with the main stretcher located in the street side (non-centred) position.

1.5.2 In BLS Ambulances, a minimum of 25 cm shall be provided from the end of the stretcher to rear loading door, to permit clearance for any long-board splints.

1.5.3 The ceiling, the interior side walls and the doors of the patient's compartment in BLS Ambulances shall be lined with a material that is non-permeable and resistant to disinfectant. The edges of surfaces shall be designed and/or sealed in such a way that no fluid can infiltrate. If the floor arrangement does not allow fluids to flow away / mop / clean, one or more drain with plugs shall be provided.
1.5.4 BLS Ambulances shall meet the interior fittings radius of curvature requirements as per AIS-125 (Part 1). Medical equipment and their holding devices (for example stretchers, platforms, suction units etc.) are excluded. Drawers should be secured against self-opening and where lockers are fitted with doors that open upwards they should be fitted with a positive hold open mechanism.

1.5.5 BLS road ambulances shall be equipped with a lockable drugs compartment with security lock. Floor coverings shall be chosen that will provide adequate grip for the attendant including when wet and should be durable and easy to clean.

1.5.6. BLS road ambulances shall be fitted with a hand-holding device positioned above the stretcher. Vehicle maintenance equipment (e.g. Spare wheel and Tools) shall be placed such that accessing them does not cause inconvenience to the patient.

1.5.7 **Patient and attendant seating**

The minimum number of patient and attendant seats shall be as follows:

Number of Patient and Attendant Seats

		BLS Ambulance
Minimum number		2
Position (s)	on one side of the stretcher	1
	on one side of the stretcher upper 2/3 end	1

1.5.8 **Patient and attendant seat dimensions**

Patient and attendant seat dimensions shall be minimum of 381 X 381 mm per seat. Seats fitted in the patient compartment shall be installed in either forward / sideward / rear-facing positions and shall be fitted with Two Point (Lap Belt) or Three Point Retractable Safety Belts (preferred for forward / rearward facing seats) in conformance with IS:15140-2003. Further, the anchorages of seat belts provided on the forward facing permanent seats shall meet the requirements of IS:15139-2003. Head restraints shall be fitted as applicable and in accordance with AIS-023: 2005 or IS: 15546-2005.
Backrests shall be constructed to a minimum dimension of 300 × 100 mm.

Note: The requirements of IS:15139 shall not be applicable to anchorages of seat belts fitted on rear / side facing and folding seats.

1.5.9 **Interior lighting**

Natural colour balance lighting shall be provided as set out following**:**

Note: The colour temperature of the light will change the appearance of skin and organs. Therefore it is important that the interior lighting is suitable for patient care during transport. Although it may not be necessary in ambulance use to define "daylight" or "natural colour

balance" in a more exact way other than the colour temperature. The colour temperature of the interior lights should be minimum 4000 Degrees Kelvin.

Patient's Compartment Illumination

		BLS Ambulance (Lux)
Patient Area (Stretcher)	Minimum	150
Surrounding Area	Minimum	50

Light levels shall be measured along the central longitudinal axis of the stretcher at the head, mid-point and foot position with the stretcher in its normal position for transportation in the ambulance.

1.5.10. **Interior noise level**

The interior noise level in the patient compartment in BLS Ambulances shall comply with requirements of AIS-020. During the test, the Siren of the Ambulance shall be kept in the Off position.

1.5.11. **Ingress of dust and rain water**

In case of BLS ambulances, all doors, windows and hatches shall not allow ingress of dust and rain water when in the fully closed position, when tested in accordance to IS : 11739 – 1986 as amended from time to time, for recording dust ingress in automotive vehicles, and when tested in accordance to IS: 11865–2006 as amended from time to time, for water proofing test for automobiles.

1.5.12. **Mounting systems**

The Seats, their anchorages and head restraints shall meet requirements of CMV Rule 125, as applicable.

The Stretcher along with undercarriage (without dummy) shall be subjected to dynamic test as per point no.-1.7. After being subjected to this dynamic test:

a) No failure shall occur in the stretcher frame or in the anchorage of stretcher. Permanent deformation including ruptures may be accepted, provided that they do not increase the risk of injury in the event of collision.

b) No release of locking system shall occur during the test described in point no.-1.7.

c) No items shall have sharp edges or endanger the safety of persons in the road ambulance.

All lockers, rails and non-dedicated storage locations or storage devices shall be labelled to show the total maximum permissible weight allowed.

1.6 Main Stretcher {As per AIS-125 (Part 1)}

BLS Ambulances shall be provided with a main stretcher consisting of an integrated undercarriage.

1. It shall be designed to provide that full weight of the patient and the carried stretcher part will only be lifted / carried by the personnel for the minimum period of time.
2. It shall be so designed to provide that during loading and unloading the maximum burden on any personnel is half of the total weight of patient and stretcher and for the minimum possible time and in optical ergonomic position so that back bending is minimized.
3. The lying area shall have adjustable head-end / backrest with a minimum length of 550 mm. It shall be possible to turn up the head-end / backrest at least up to 75 degrees and there shall be at least five fixing positions within this range.
4. The lying area shall have an adjustable foot-end with a minimum length of 850 mm. It shall be possible to turn up the foot-end at least up to 15 degrees.
5. Dimensions shall be measured from the outer edges.
   a. **Length:** Min 1800 mm
   b. **Width:** Min 480mm
   c. **Height:** Maximum 380 mm from the loading holding assembly to unladed lying part. The height dimension does not apply to stretchers with Monoblock undercarriages. If a monoblock is not available, the stretcher must be constructed so that it is detachable from the undercarriage.
6. The Loading capacity shall be a minimum of 150 Kg.
7. **Undercarriage:**
   a. The undercarriage shall be fitted with 4 wheels with a diameter of at least 100 mm. There shall be a minimum of two 360 degree swivel wheels at the foot end and at least two wheels shall be fitted with a footbrake.
   b. The undercarriage shall have a simple mechanism for height adjustment and shall have a minimum of two levels (car position and fully unfolded)
   c. The supporting mechanism shall automatically stay in place when fully unfolded.
   d. All the functions of the stretcher shall remain completely unimpaired when it is connected to the undercarriage.
8. The stretcher shall have a minimum of two quick-release patient restraints.

1.7 TESTING OF STRETCHER

Verification of conformity to fixation and maintain systems as detailed in 1.5.12 shall be made when the stretcher(s) and holding assembly is placed in the mean position of all possible positions available.

The sample submitted for test, shall be identical to or have the same characteristics and behaviour during test as would the production item or vehicle.

Note: Care should be taken that no internal / external additional reinforcement through the rig will modify the behaviour during test.

The head end of the stretcher shall be fixed in a position of 15° measured from the horizontal. The lying area of the stretcher tray assembly (holding assembly) shall be in a horizontal position.

The stretcher shall be fixed on the stretcher's holding assembly. The sedan chair (when provided) shall also be fixed in its holder.

The dynamic test shall be carried out using a patient's compartment assembly or a relevant part of the construction or an appropriate fixture mutually agreed between the test agency and manufacturer as specified below (As per AIS -125 (Part 1):

(a) In the longitudinal (forward and backward) directions (one after another) for BLS Ambulances.

A deceleration of not less than 10g shall be applied for 30 milliseconds in the longitudinal (forward and backward) directions (one after another. No failure shall occur in the stretcher frame or in the anchorage or locking devices during or after the dynamic test. Permanent deformation, including ruptures, may be accepted, provided that these do not increase the risk of injury in the event of collision and the prescribed loads were sustained. No release of the locking systems shall occur during the test (Please refer Amendment, 2nd May 2017 to AIS- 125 (part 1): Constructional and Functional Requirements for Road Ambulances).

1.8 PROVISION FOR MEDICAL DEVICES

1.8.1 The road ambulance shall be designed and constructed to provide the following provision in order to ensure levels of care expected from BLS ambulances.

1.8.2 The following provisions for basic treatment for first aid and nursing care shall be made available in BLS of ambulances

a) Mounting for portable Oxygen cylinder of 2.2 L water capacity.
b) Hook for infusion mounting.
c) Storage for keeping first aid and nursing kit

1.9 **Recognition and visibility of ambulances**

Recognition and visibility requirements of ambulances shall be as per Annexure 1.

1.10 The wiring and, where applicable conduits, shall withstand vibrations. No wiring shall be located in or pass through conduit intended for medical gas installation. The wiring shall not be loaded higher than that stated by the wire manufacture.

ANNEXURE-1 (Point no. -1.9) :

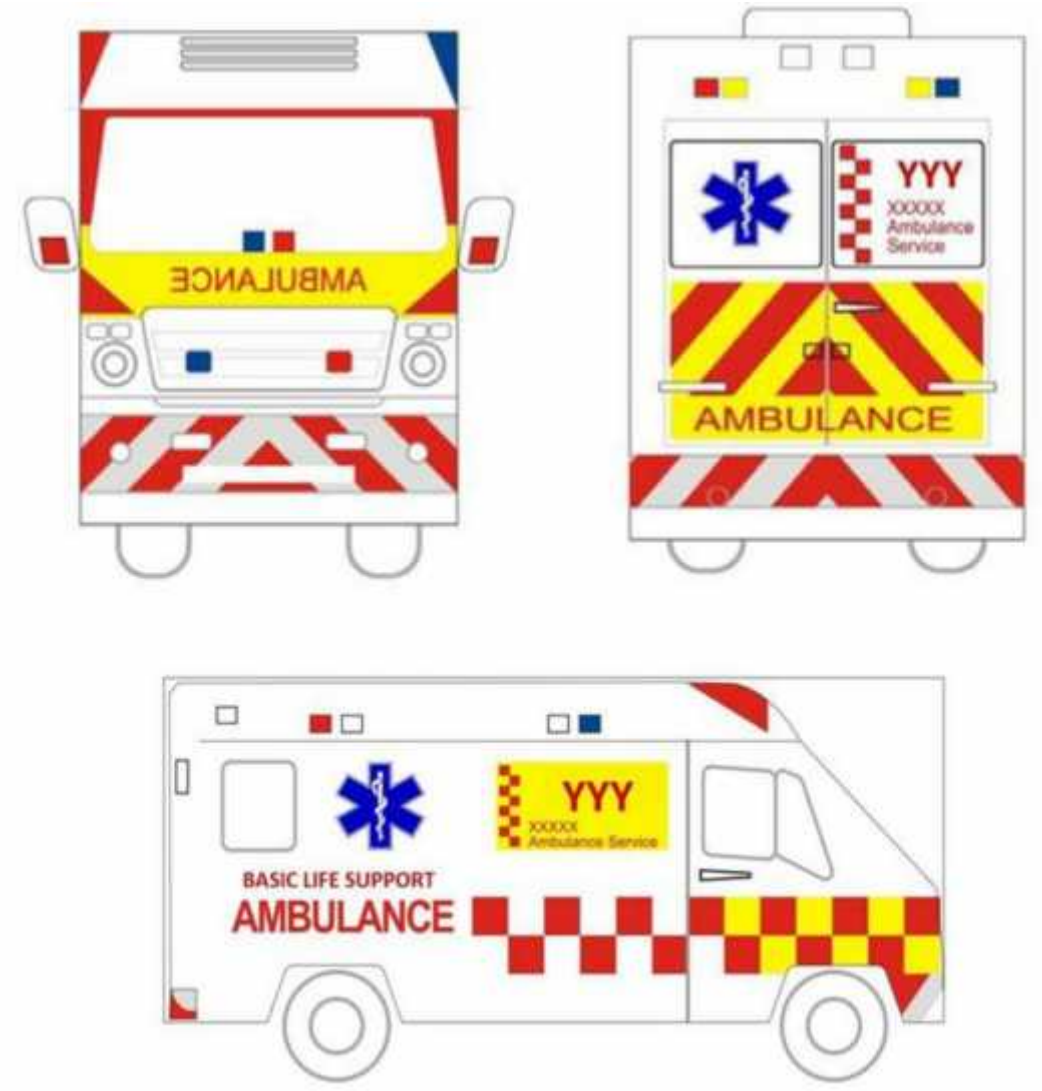
RECOGNITION AND VISIBILITY OF AMBULANCES

The Ambulance Conspicuity requirements is split into four sections-

(i) Conspicuity Improving Items
(ii) Emblems
(iii) Warning Lights
(iv) Sirens

The section "colour" describes the vehicles basic colour. The section "Conspicuity Improving Items" or "C2I" includes all Symbols, Marking and Striping defined as such by this standard. The section "Emblems" refers to every item that doesn't fall under the definition of C2I which can be private company signs or corporate identities. The section "Warning Lights" describes colour, position, alignment, luminosity, photometric brightness, flash patterns and electrical current consumption of all used warning lights. The section "Sirens" determines the volumes, frequencies and electrical current consumption of all used sirens and speakers.
The installations by the following text shall closely correspond to the exterior design pictures below.

BLS Ambulance



(i) Conspicuity improving items

This definition includes all marking, striping and symbols as shown in the figure above. Conspicuity Improving Items defined by this standard are: chevron patterns in red/silver and red/yellow, Battenburg patterns,

"AMBULANCE" markings, the Star of Life and the emergency number symbol. All "AMBULANCE" markings must follow a 7:1 ratio, length to height.

For BLS Ambulances :

A. Front:

No less than 50% of the front side of the vehicle shall be sulfur yellow, RAL Code 1016 in contrast to no less of 10% brilliant red.

The word “AMBULANCE” on yellow background, minimum of 65% of the hood width, shall be in mirror image (reverse reading) for mirror identification by drivers ahead. The word “AMBULANCE” shall be in a contrasting colour and shall be retro-reflective. The front bumper or at least the lower vehicle front up to 70cm or a suitable height within ±30cm should be equipped with retro- reflective striping in a chevron pattern sloping downward and away from the centreline of the vehicle at an angle of 45 degrees. Each stripe in the chevron pattern shall be single colour alternating between fluorescent red and silver. Each stripe shall be 6in. (150mm) in width.

B. Side:

The side of the vehicle should be equipped with a two lined red retroreflective Battenburg pattern on the white ground colour. Starting at the vehicle front the Battenburg squares, with a size of 25 x 25cm for BLS Ambulances should reach approximately the middle of the vehicle length and end in a top square, followed by an “AMBULANCE” marking. The “AMBULANCE” marking should be at least 80% of the Battenburg squares height high. The word “AMBULANCE” shall be in a contrasting colour to the white background and shall be retro-reflective. The front half of the Battenburg pattern should be red/yellow squares and rear half should be in red squares on white background as shown in figures above. The bottom line of the Battenburg pattern should be at least 25cm above the bottom line of the vehicles chassis, displayed on the upper half of the left side should be a retro-reflective “Star of Life” symbol, with a size of 40 x 40cm for BLS Ambulances and a retro-reflective emergency number logo, with a size of 40 x 75cm for BLS Ambulances. The vertical centre of both of them should be positioned at similar height. Contour markings in form of a continuous or non- continuous retro-reflecting yellow stripe (each part 3 x 10cm) should be applied to the side profile to enhance conspicuity of the vehicle. In Type C ambulances, the words “Basic Life Support” shall be marked above/below/adjacent to the word ambulance in size no less than 50% of the size of the word “AMBULANCE”.

C. Rear:

No less than 50% of the rear of the vehicle should be equipped with a chevron pattern sloping downward and away from the centerline of the vehicle at an angle of 45 degrees. Each stripe in the chevron pattern shall be single colour alternating between retro-reflective red and yellow. Each stripe shall be 6in. (150mm) in width. To ensure that the standard rear lights of the vehicle are not camouflaged by the chevron striping, the chevron striping must provide a distance of no less than 10cm to the standard rear lights. The word “AMBULANCE” on yellow background, minimum of 65% in width of the rear facing side of the vehicle but not smaller than 70cm in width, must be displayed on the rear . The word “AMBULANCE” shall be in a contrasting colour and shall be retro-reflective. Displayed on the left back window should be a retro-reflective “Star of Life” symbol, with a size of 85% of the window, and on the right back window a retro-reflective emergency number logo with the same size. In case of a single window at the rear, size of “Star of Life” symbol and the

emergency number logo shall be 85% of half of the window. The rear bumper should be provided with the same chevron pattern as the front one.
Contour markings in form of a continuous or non-continuous retroreflecting silver stripe should be applied to the rear profile to enhance conspicuity of the vehicle.

(ii) Emblems

Emblems defined as such by this Ambulance Conspicuity requirement are government/ private / operator signs, corporate identities (XXX) and every other sign, symbol, marking or striping not referred to in the "Conspicuity Improving Items" section. These emblems are only allowed in a nonreflecting manner and the size can't be bigger than 60% of the "AMBULANCE" markings. Ambulance Calling Number (108) must be displayed prominently on the side and back of the Road ambulance.

Notes :

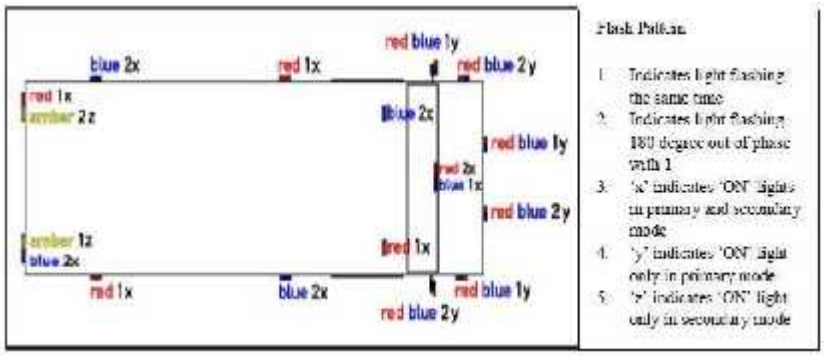
(1) Modifications required in location and dimensions of conspicuity items and emblems specified in point no. (i) and point no. (ii) required due to vehicle design shall be permitted.

(2) The Emergency number logo shall be fitted by the user. At the time of homologation of the vehicle, the manufacturer shall only identify the space for fixing the same.

(3) Emblems shall not be fitted on glasses which can be slided or rolled down in such a way that visibility of emblems is adversely affected. In such a case, it shall be permitted to shift the position of emblems to a location feasible as per exterior design of the vehicle. Further, it shall be permitted to modify the size of emblem and size / location of C2I markings given in point no. (i) above to suit the exterior design of the vehicle.

(iii) Warning lights

BLS Road Ambulances shall have warning lights as follows:
All warning lights have to be mounted rectangular to the horizontal ground. They must provide 100% of their intensity in a vertical angle of ±4 degrees and 50% in a vertical angle of ±8 degrees. The minimum intensity is for blue and red lights at 200cd at daylight and 100cd in the night. The horizontal minimum angle should be at least 45 degrees. All lights must flash between 2Hz and 4Hz and should be mounted as on the graphic below:



Lights marked with "red blue" must show red and blue in one piece one at a time. In daytime they must flash red in nighttime they must flash blue. Two lights have to be mounted in the lower middle windshield only flashing to the outside of the car. All lights should be flashing as shown in the graphic above. To switch from Primary into Secondary Mode there has to be one switch that allows only one mode.

(iv) Sirens

In BLS Road Ambulances, all siren loudspeakers have to be mounted on the front of the vehicle. Hidden installation is allowed. The main sound direction must be in driving direction. Permitted are wail and yelp signals that cycle between 10-18 respectively 150-250 per minute at an sound pressure level of 110dB(A) to 120dB(A). The sirens should be tested in accordance with IS 1884 (though not covered in the standard). The frequency range must be at least one octave and should be between 500Hz and 2000Hz. An additional electronic air horn can be used. Further there should be a public address system that can be worked at all times ergonomically from the driver's seat. The siren switch can only be used if the warning lights are on.

NOTE: All fabrication work to be done as per guidelines of AIS-125 (Part 1). Bidders are advised to refer website of "Ministry of Road Transport & Highways (MORTH), Government of India" in this regard.

3. B. MEDICAL EQUIPMENT FOR BLS AMBULANCES

1. REQUIREMENTS FOR MEDICAL DEVICES

1.1 **General**

The device should be designed for use in mobile situations and in field applications. If a medical device is designated as "portable", which is meant for use inside an ambulance (except patient handling equipment).

1.2 All devices should be selected and mounted so that no harmful influence to the electrical supplies results.

1.3 Buttons, switches, indicators and controls should be easily accessible and visible. SI units (except for blood pressure and airway pressure) and standardised graphical symbols where applicable should be used.

1.4 All compressed gas cylinders except for sizes up to 2.2 L water capacity, must be stored and used in an upright position with the valve end up. The cylinder compartment should have facility to place the regulators safely at the time of replacing empty cylinders and fitting filled ones.

1.5 The ambulance whenever fitted with a stationary oxygen system, should have all the essential components and accessories required for the piped oxygen system which should include as a minimum:

(i) One no . Pressure Regulator for each of the supply sources (stationary as well as portable)

(ii) Low pressure, electrically conductive, hose approved for medical oxygen.

(iii) Oxygen piping concealed and not exposed to the elements, securely supported to prevent damage, and be readily accessible for inspection and replacement.

(iv) Oxygen piped to a self-sealing duplex oxygen outlet station for the primary patient with a minimum flow rate of 100 LPM at the outlet.

1.6 The patient cabin should have a non digital pressure meter (as per standards) showing the pressure level of both the cylinders as well as the distribution pressure level.

1.7 The ambulance should have an emergency oxygen outlet for each of the stationary oxygen system available on any of the walls of the patient compartment easily accessible to the patient head end and connected directly at the output of the pressure regulator of the stationary Oxygen system ensuring that any fault in the oxygen distribution system would ensure uninterrupted oxygen supply to the patient. The terminal outlets should be of the same design and operational criteria as the self-sealing duplex outlets of the distribution system.

1.8 Outlets should be adequately marked and identified and not interfere with the suction outlet, whenever provided.

1.9 Stationary oxygen system should be accessible from outside of the vehicle and should be physically isolated from the patient as well as the driver compartment

1.10 **Gas piping**

Gas piping shall not pass through cupboards and compartments.
The use of remote high pressure lines and gauges are not allowed.

Equipment/ Item List for Basic Life Support (BLS) Ambulance

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
1	**Vacuum Mattress** **Technical Specifications:** The mattress shall be made of strong material which is disinfectable, washable, putrid resistant, waterproof, petrol—oil resistant and allows preliminary x-ray diagnostics. The valve, neither the air inlets nor outlets shall disturb the patient. The pump shall be able to reduce the pressure by 500 hPa within 4 min. 3. The vacuum mattress including the filling shall have the following minimum properties: a. heat resistance: 70 °C b. cold resistance: - 30 °C The dimensions of the vacuum mattress shall be as follows: a. Length: minimum 2000 mm b. Width: minimum 800 mm in flat position The mass including the pump shall be not more than 15 kg. The loading capacity shall be a minimum of 150 kg. The vacuum mattress shall be equipped with at least 4 handles on each longitudinal side, in order to be able to transport a patient in an immobilized position. 8. There shall be no permanent deformation when tested as following: i. For rigidity and density the mattress shall be placed on a stand: a. the pressure inside the vacuum mattress shall be reduced by 500 hPa; b. after 30 min, the remaining pressure difference shall be at least 300 hPa; c. the mattress (after opening the valve) shall be shaped to a human body by means of a test person of (75 ± 5) kg body weight, and a height of (175 ± 5) cm; d. the pressure inside the vacuum mattress shall be reduced again by 500 hPa; e. the test person shall be removed; f. the mattress is then placed with a load of 50 kg applied on a surface of 350 mm diameter centred in the middle of the mattress;	1

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
	g. after 2 hours the remaining pressure difference shall be at least 300 hPa and the deflection shall not exceed 100 mm. 8. The immobilization of the patient is achieved by the suitable shrinkage of the vacuum mattress. In order to avoid additional injuries the shrinkage shall not exceed the following requirement. The shrinkage of the lying area of the mattress shall not be more than 1 % in length and 3 % in width when tested as following: "Place the mattress in flat position on a flat surface. Measure the mattress in the middle longitudinally and middle transversally. The pressure inside the mattress shall then be reduced by 500 hPa. Measure the size of the mattress, at same places as before, whilst under this vacuum pressure". 9. There shall be no remaining deformation of the lying area when tested as following: a. The pressure inside the vacuum mattress shall be reduced by 500 hPa and then suspended by means of its external handles (instead of loops) and a load of 250 kg applied; b. after 15 minutes there shall be no visible damage and/or failure; c. the same applies if the mattress is provided with a protective coating/cover and if the latter is intended to be used in combination with the patient.	

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
2	**Carrying Sheet** **Technical Specifications:** 1. Dimensions : The dimensions of the carrying sheet shall be as follows: a. Length: minimum 1850 mm b. Width: minimum 570 mm 2. The mass shall be not more than 5 kg. 3. The loading capacity shall be a minimum of 150 kg. 4. The carrying sheet shall be equipped with at least 3 handles on each longitudinal side. 5. The lying part of the carrying sheet shall be made of a strong material which is bacterial resistant, fungal resistant, washable, disinfectable, putrid resistant, waterproof, petrol— oil resistant and allow preliminary x—ray diagnostics. 6. There shall be no progressive smouldering or flaming ignition when tested in accordance with EN 1021-1. 7. There shall be no remaining deformation of the handles and the lying area.	1
3	**Long spinal board complete with head immobilizer and securing straps** **Technical Specifications:** 1. The dimensions of the long spinal board shall be as follows: a. The usable length shall be a minimum of 1830 mm and a maximum of 1980 mm. b. Width: minimum 400 mm maximum 500 mm c. Depth: maximum 70 mm (unfolded and folded) 2. The mass shall be not more than 8 kg. 3. The loading capacity shall be a minimum of 150 kg. 4. The long spinal board shall be of a sturdy lightweight construction. It shall be equipped with a minimum of 3 handholds on each longitudinal side and a minimum of 2 handholds at both the foot and head ends. 5. The lying part shall be designed so that it will give maximum support for the head and whole torso. 6. The lying part shall be designed in such a way that it prevents the ingress of fluids. The material shall be easy to clean, washable, petrol—	1

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
	oil resistant and allow preliminary x—ray diagnostics. it shall withstand temperatures ranging from + 70 °C to - 30 °C. There shall be no progressive smouldering or flaming ignition. Deformation : Not applicable. Deformation of the lying area :The spinal board shall not bend permanently or break, when tested as following: a. "Place the long spinal board on supports positioned 300 mm from the ends of the spinal board. Load spinal board with 250 kg, distributing the weight evenly along the length of the spinal board". b. "Unload the spinal board and examine for deflections".). Resistance to torsion : There shall be no remaining deformation.	
4	**Immobilization, Set of fractures** **Technical Specifications:** 1. Set of 6 adult sizes (Hand & wrist, Half arm, Full arm, Foot and ankle, Half leg & Full leg) Pneumatic Splints with carrying case. 2. Should be X-ray lucent. 3. Inflatory tubes' extension with closing clamp makes closing easy and quick after inflation. 4. Fixing of splint is by zipper or belt. 5. Distal end left open to expose toes. 6. Should be washable and reusable. 7. Should be supplied with the appropriate pump required to inflate the splints.	1
5	**Cervical upper spinal immobilization devices** **Technical Specifications:** 1. Cervical upper spinal immobilization devices of different sizes suitable for infant, pediatric and adults. 2. Should have pre-moulded chin support, locking clips and rear ventilation panel. 3. Should be rigid. 4. Should have high-density polyethylene and foam padding with one piece design enabling efficient storage where space is limited. 5. Should be X-ray lucent and easy to clean and disinfect.	1

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
6	**Extended Upper Spinal Immobilization Extrication Devices or Short Spinal Board (one of these)** **Technical Specifications:** 1. Low-flexibile device to secure the patient's torso, legs and head to prevent movement. 2. should be consist of three straps across the torso, an additional strap for the groin, and another strap that rides over the forehead. The back of the device should be composed of several long blocks of hard, inflexible material with cloth in between. 3. Should be unbreakable, comfortable, easy to use and clean. 4. Should be effective extrication device offering vertical rigidity as well as horizontal flexibility. 5. Should be supplied complete with head support. 6. Radiolucent, MRI and CT scan compatible.	1
7	**Stationary Oxygen** **Technical Specifications:** 1. Trolley for mounting minimum 2 no. of D type cylinder at maximum 150 kgf/cm2 filling pressure. 2. Complete oxygen line system with outside access door. 3. Complete gas pipe lining with with manifold with oxygen regulator and tubing should be concealed. 4. High pressure flexible S/S tubing (2 nos).. 5. Superior quality quick release outlet points for oxygen (2 nos). 6. Flow meter with humidifier. 7. Pressure gauges. 8. Should be supplied with Reusable face mask adult & pediatric – 2 each with all other accessories .	
8	**Portable Oxygen** **Technical Specifications:** 1. Minimum 1 No. of 2.2L Water Capacity Aluminium Cylinder at maximum 150 kgf/cm^2 filling pressure. 2. The Portable Oxygen Cylinder should be manufactured as per IS:7285 and certified by Chief Controller Of Explosives, Nagpur.	

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
9	Valve for Cylinders for Portable Oxygen	
10	Resuscitator with oxygen inlet and masks and airways for all ages and oxygen reservoir	1
11	**Electric Portable Suction Aspirator** **Technical Specifications:** 1. Should be made of FRP / ABS / stainless steel and should have handle for transportation. 2. 0 to 600 mm Hg ± 10 regulable, 1/2 HP; single phase minimum noise, low maintenance type, oil free piston pump/ diaphragm / Rotary vane motor, no daily requirement of oil addition.; 3. Flutter free vacuum control knob (pressure regulator) and monitored by vaccum gauge of suitable range (ISI marked); 4. Wide mouthed 1 x 1 LITRE autoclavable polycarbonate jar (light weight, unbreakable and clear) with self sealing bungs and mechanical over flow safety device (auto lock facility). 5. Auto transferability from one jar to another. 6. Should be motion tolerant, user friendly, safe to use and handle for easy mobility. 7. Power supply : DC voltage. 8. Inbuilt maintenance free battery. Battery backup upto 30 minutes on full charge. 9. Should have main / off switch with light indicator. 10. Cord storage arrangement should be there. 11. Should be supply with collection container (1 X 1 Lt. Jar)& its cap – 02 sets, suction tube tips – 02 sets, , 02 sets of moisture & microbial filters .	1
12	**Portable Suction Aspirator, Manual** **Technical Specifications:** Canister volume 250 - 400 ml; made of Polycarbonate; non breakable. Maximum suction pressure at least 200 mmHg. Should be supplied with adult and pediatric/neonatal suction catheters- 5 each.	1

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
13	**LED/LCD Type B. P.** **Monitor Technical** **Specifications:** 1. Measurement unit : mmHg. 2. Minimal scale : LED column: 2 mmHg (0.26 kPa), Numerical display : 1mmHg (0.13 kPa). 3. Measure scope : LED column: 0-300 mmHg (0- 40 kPa), Numerical display : 0-300 mmHg (0- 40 kPa). 4. Overpressure warning : LED top will flash when pressure is more than 315 mm Hg (42 kPa). 5. Available discrepancy : ± 3 mmHg (0.4 kPa). 6. Pulse rate : 30-200 pulse/minute, ± 5%. 7. Pressurization : manual by air release valve. 8. Power supply : 4.5 V, AA * 3, or USB type AC adapter. 9. Relative humidity : 30%-85%. 10. Operation environment : + 10^0C to + 50^0C.	1
14	**Finger Tip Pulse Oximeter** **Technical Specifications:** 1. Fingertip pulse oximeter with integrated color LED Screen. 2. Screen should display Oxygen saturation (SpO_2), Pulse Rate, Pulse bar graph, SpO_2 % waveform & Power indicator. 3. Should be suitable for all ages. 4. SpO_2 range 0 to 100 %, accuracy : 70%-100% ±2 %, 5. Pulse rate range at least 30 to 240 bpm, accuracy : <100% - ±2 bpm, > 100 bpm±2%. 6. Should have built in Alarms for low saturation, low battery. 7. Should be battery operated with standard AA or AAA batteries. 8. Should have auto power off feature when not in use. 9. Should be supplied with appropriate batteries and storing case.	1

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
15	**Stethoscope** **Technical Specifications:** 1. Dual head stethoscope. 2. Stain less steel/ aluminium Chest piece 3. Dual head rotatable with diaphragm on one side and bell on the other 4. Non-chill diaphragm and retaining ring 5. Non-chill lining for the bell 6. Soft sealing ear tips. 7. Head set anodized aluminum or stainless steel 8. Tube length 20 to 30 inches 9. Epoxy fiber glass diaphragm is desirable 10. Diaphragm diameter is an inch to 1.5 inch . 11. An extra set of ear piece/ diaphragm and retainers should be provided.	1
16	**Digital Thermometer** **Technical Specifications:** 1. Battery operated digital thermometer. 2. Washable and easy to use . 3. Fahrenheit and Centigrade Measurement option. 4. Temperature range must include 32 ^{o}C to 42 ^{o}C. 5. Auto power off when not in use. 6. Fever alarm, with on and off audio alarm. 7. Should include a storage case.	1

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
17	**Device for Blood Sugar Determination** **Technical Specifications:** 1. Should be a hand held meter. 2. Should require no routine maintenance. 3. Should have reading range from 20 to 600 mg/dl. 4. Should have reading time of approximately 10 seconds. 5. Should use electrochemical technology or better. 6. Should use a minimum blood sample less than 1.0 µl. 7. Should have a LCD display. 8. Should have measuring unit in mg/dl. 9. Should have wide operating temperature. 10. Should have a minimum memory of 20 readings. 11. Should have replacement offer in warranty period. 12. No need to change code. 13. Battery should be replaceable without using any tools. 14. Should have facility to ensure accuracy of measurements. 15. Should have control testing mechanism. **GLUCOSTRIPS- 100** 1. Should be able to use capillary blood samples. 2. Should have a minimum 4 months shelf life after opening the strip vial . 3. All strips should have at least one year expiry date from the date of supply. 4. Strips should be available in the local market.	1
18	**Diagnostic Light** **Technical Specifications:** 1. Body made of Stainless steel or aluminum or ABS plastic 2. Run on AAA or AA batteries (2 batteries) 3. Push button start 4. Should be with spot illumination without peripheral ring of light.	1
19	Infusion Solutions, Litre	4

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
20	**Equipments for injections and infusions set** **Technical Specifications:** a. Disposable syringe 2 ml, 5 ml, 10 ml- 5 each b. Infusion set, BT Set, Micropore, IV Cannula: 18 G - 20 G -5 each c. Hand Sanitizer (500ml)- 1 unit d. Tourniquet band-4 e. Infusion Mounting-2	
21	Portable airways care system (p.a.c.s.) Manual resuscitator Mouth to mask ventilator with oxygen inlet Airways oro- or nasopharyngeal airway Aspirator Suction catheter	1
22	**Nebulization Apparatus** **Technical Specifications:** 1. Atomizer (Compressor) electric aspirator to be used for neonatal, pediatric and adult.. 2. Motion Tolerant and for continuous use. 3. Power supply : DC with battery backup of minimum 30 minutes . 4. Should generate droplet of size: less than 10 microns . 5. Filling volume: 5 ml or more. 6. Facility to control the nebulization rate. 7. Low noise level . 8. Should be user friendly and easily cleanable. 9. In built thermal cut off systems should be there . 10. Provision for fixing/Hanging in the Ambulance desirable. 11. Should be provided with a complete nebulization kit of 05 Nos. including adult and child mask and medication cup – 5 Nos. each.	1
23	Material for treatment of wounds	1
24	Materials for treatment of burns and Corrosives	1
25	Kidney Bowl	1
26	Vomiting Bag	1

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
27	Non-Glass Urine Bottle	1
28	Sharps Container	1
29	Sterile Surgical Gloves, Pairs	5
30	Non-Sterile Gloves for Single Use	100
31	Emergency Delivery Kit	1
32	Waste Bag	1
33	Non-Woven Stretcher Sheet	1
34	Cleaning and disinfection Material	1
35	Seat belt cutter	1
36	Warning Triangle Lights	2
37	Spotlight	1
38	Fire Extinguisher, ABC Type (minimum 2.5 kg capacity complying with IS:13849 or IS:2171)	2
39	Internal communication between driver and patient compartment	1
40	Basic protective clothing including high visibility reflective jacket or tabard	1
41	Advanced Protection Wear	1
42	Safety/Debris Gloves, Pair	1
43	Safety Shoes, Pairs	1
44	Safety Helmet	1
45	Personal Protection Equipment against Infection	1
46	Pick up Stretcher/ Scoop-Stretcher	1

S. No.	Name of Equipment / Items & Their Technical Specifications	Quantity
47	Traction Device	1
48	Jumbo Oxygen Cylinder (H Type)	2
49	Rescue Tools (Axe, Hammer, Iron Rod/Sabbal, Saw)	1 each
50	Infrared Thermometer (High Quality)	1
51	CCTV Camera in Patient Cabin as well as on Front of the Ambulance	1 each
52	Panic Button	1

Note : (1) Motor Vehicle should have certification of AIS 125 Part-I as per CMV(A)R, I989 (as amended from time to time) at the time of supply of vehicle.

(2) Fabricator should also have certification of AIS 125 Part-I as per CMV(A)R, I989 (as amended from time to time) at the time of supply of vehicle.

In Type C and D road ambulances, there shall be a recessed externally mounted power connector to enable external power to be provided for operations such as the following:
a) Charging battery (ies) for medical equipment
b) Operating medical devices, when installed
c) Operating a stand-alone patient compartment heater, when installed
d) Operating an engine pre-heater, when installed.

The connector for 220/240 V, shall be a male/female connector and not interfere with the electrical and mechanical safety.

It shall be not possible to start the engine whilst it is connected to an external 220/240 V power supply unless an automatic mechanical disconnection is fitted. If no automatic mechanical disconnection is fitted, the connector shall be on the driver's side. This requirement shall not be applicable if the Engineer of the vehicle is used for operating Air Conditioning system of the vehicle when external power supply is connected.

The 220/240 V circuit shall be protected either by an "earth leakage device" with a maximum setting of 30 mA or by a separate transformer. If the protection is given only by an "earth leakage device" there shall be a label near the plug that reads as follows:
"CAUTION! CONNECT ONLY TO AN AUTHORISED SOCKET."

The patient's compartment shall be fitted with the minimum number of connections as given in Table 2. For these connections a permanent power supply shall exist.

Table 2
12V connections for medical devices in patient's compartment

Minimum number of connections	2

Any additional electrical systems fitted to the base vehicle shall be separate from the base vehicle electrical system and the body or chassis shall not be used as an earth return for additional circuits. All circuits in the additional system(s) shall have separate overload protection. Overload protection may consist of either fuses or so called Electronic Management Control systems. All circuits shall be well defined and cables clearly marked at the connection points and at a maximum of 1m intervals along its length. Alternatively, cables in the circuits can be identified by following suitable color codes.

The system shall have enough circuits and be so constructed that when/if a circuit fails all illumination and medical technical equipment can be switched to an alternative power source.

The wiring and, where applicable conduits, shall withstand vibrations. No wiring shall be located in or pass through conduit intended for medical gas installation. The wiring shall not be loaded higher than that stated by the wire manufacture.

Where there are different voltage systems, the connections shall be non-interchangeable.

Electrical installation shall comply with the clauses of IEC 60364-7-708 which are applicable to Ambulance as per AIS 125, Part-I, Specification of Ministry of Road Transport and Highways.

NOTE:

1. The equipments / items mentioned in the above list, costing more than Rs. 3.00 Lacs per unit should be ISO, CE/US-FDA certified and the equipments / items mentioned in the above list, costing less than Rs. 3.00 Lacs per unit should be ISO 9000/ ISI / BIS certified.
2. All the electrical equipments mentioned in the above list should be operable on DC power supply.
3. All the equipments/ items mentioned in the above list should be motion tolerant, user friendly and safe to use.
4. The Final graphics including designs, logos & sizes of text etc. will be provided to the successful bidder after finalization of tender.

5. Main stretcher/ undercarriage, Blinker, Top lights, Sirens etc. to be fitted and other fabrication work in Basic Life Support (BLS) Ambulance should be done in accordance with "AIS:125 (Part 1)" as amended from time to time set up by "The Ministry of Road Transport and Highways, Govt. of India".

6. After installation of medical equipments & completing fabrication work, it is mandatory for successful bidder to take approval and providing certification of "AIS:125 (Part 1)" (as amended from time to time) from certified agency, for all fabrication work done including Main stretcher with undercarriage, Blinkers, Top lights, Sirens etc. fitted in Basic Life Support (BLS) Ambulance.

7. Bidders shall be responsible for registration of ambulances in "Regional Transport Office (RTO)", Dehradun.

4. Drawings

These Bidding Documents includes *["no"]* drawings.

[If documents shall be included, insert the following List of Drawings]

5. INSPECTIONS AND TESTS

The following inspections and tests shall be performed:

1. Inspection and tests prior to shipment of Goods and at final acceptance are as follows:

(i) The inspection of the goods shall be carried out to check whether the goods are in conformity with the technical specifications attached to the purchase- order form and shall be in line with the inspection/test procedures laid down in the technical specifications and the General Conditions of contract. Following broad test procedure will generally be followed for inspection and testing of machine. The supplier will dispatch the goods to the ultimate consignee after internal inspection testing along with the supplier's inspection report, manufacturer's warranty certificate. The purchaser will test the equipment after completion of the installation and commissioning at the site of the installation. For site preparation, the supplier should furnish all details to the purchaser sufficiently in advance so as to get the works completed before receipt of the equipment. Complete hardware and software as specified in section VI should be supplied, installed and commissioned properly by the supplier prior to commencement of performance tests.

(ii) The acceptance test will be conducted by the purchaser/their consultant or any other person nominated by the purchaser, at its option. The acceptance will involve trouble- free operation for seven consecutive days. There shall not be any additional charges for carrying out acceptance tests. No malfunction, partial or complete failure of any part of hardware or excessive heating of motors attached to printers, drivers etc. or bugs in the software should occur. All the software should be complete and no missing modules/sections will be allowed. The supplier shall maintain necessary log in respect of the results of the tests to establish to the entire satisfaction of the purchaser, the successful completion of the test specified. An average uptake efficiency of ……% for the duration of test period shall be considered as satisfactory.

(iii) In the event of the hardware and software failing to pass the acceptance test, a period not exceeding two weeks will be given to rectify the defects and clear the acceptance test, failing which the purchaser reserves the rights to get the equipment replaced by the supplier at no extra cost to the purchaser.

2. Manuals

- Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals of the goods and equipment. These shall be in such detail as will enable the Purchaser to operate, maintain, adjust and repair all parts of the equipment as stated in the specifications.

- The manuals shall be in the ruling language (English) and in such form and numbers as stated in the contract.

- Unless and otherwise agreed, the goods and equipment shall not be considered to be completed for the purpose of taking over until such manuals have been supplied to the Purchaser.

3. For the System and Other Software the following will apply:

The Supplier shall provide complete and legal documentation of hardware, and licensed operating systems. The supplier shall also indemnify the purchaser against any levies/penalties on account of any default in this regard.

4. Acceptance Certificates:

- On successful completion of acceptability test, receipt of deliverables etc, and after the purchaser is satisfied with the working on the system, the acceptance certificate signed by the supplier and the representative of the purchaser will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the systems.

6. PROFORMA OF CERTIFICATE FOR ISSUE BY THE PURCHASER AFTER SUCCESSFUL ASSEMBLY AND STARTUP OF THE SUPPLIED GOODS

[This is to be attached for supply, erection, supervision of erection and startup contracts only]

No. Date:

M/s.

Sub: Certificate of startup of the supplied Goods

1. This is to certify that the Equipment items as detailed below has/have been received in good condition along with all the standard and special accessories (subject to remarks in Para No. 2) and a set of spares in accordance with the Contract/Specifications. The same has been installed and commissioned.

(a) Contract No. _____dated_____

(b) Description of the goods_____

(c) Sl. No. _____

(d) Quantity _____

(e) Rail/Roadways Receipt No. _____dated_____

(f) Name of the consignee _____

(g) Date of startup and proving test _____

2. Details of accessories/spares not yet supplied and recoveries to be made on that account.

S. No.	Description	Amount to be recovered

3. The proving test has been done to our entire satisfaction and operators have been trained to operate the plant/goods.

4. The supplier has fulfilled his contractual obligations satisfactorily. *

or

The supplier has failed to fulfill his contractual obligations with regard to the following:

(a)

(b)

(c)

(d)

5. The amount of recovery on account of non-supply of accessories and spares is given under Para No. 2.

6. The amount of recovery on account of failure of the supplier to meet his contractual obligations is as indicated in endorsement of the letter.

Signature _____

Name _____

Designation with Stamp _____

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* Explanatory notes for filling up the certificates:

(a) Supplier has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to Technical Specifications.

(b) Supplier has supervised the startup of the plan in time i.e., within the period specified in the contract from the date of intimation by the Purchaser in respect of the installation of the plant.

(c) Training of personnel has been done by the supplier as specified in the contract

(d) In the event of documents/drawings having not been supplied or installation and startup of the plant have been delayed on account of the supplier, the extent of delay should always be mentioned.

Note: This form is for the information only. It is not to be filled and submitted / uploaded along with the bid.

7. PROFORMA FOR PERFORMANCE STATEMENT

[Please see ITB Clause 38.2 and Section III-Evaluation and Qualification Criteria]

Proforma for Performance Statement (for a period of last three/five years)

Bid No. _____ Date of opening _____ Time _____ Hours

Name of the Firm _____

Order placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered equipment/goods	Value of order	Date of completion of delivery		Remarks indicating reasons for late delivery, if any	Has the equipment been satisfactorily functioning? (Attach a certificate form the Purchaser/Consignee)
				As per contract	Actual		
1	2	3	4	5	6	7	8

Signature and seal of the Bidder _____

_____

NOTE: THIS FORM IS TO BE COMPLETED AND UPLOADED AS A PART OF TECHNICAL BID.

PART 3 – CONTRACT

SECTION VII – GENERAL CONDITIONS OF CONTRACT

Section VII. General Conditions of Contract

Table of Clauses

Section VII. General Conditions of Contract

Definitions

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

(a) "Bank" means the World Bank and refers to the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).

(b) "Contract" means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.

(c) "Contract Documents" means the documents listed in the Contract Agreement, including any amendments thereto.

(d) "Contract Price" means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.

(e) "Day" means calendar day.

(f) "Completion" means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.

(g) "GCC" means the General Conditions of Contract.

(h) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.

(i) "Purchaser's Country" is India.

(j) "Purchaser" means the entity purchasing the Goods and Related Services, as specified in the **SCC.**

(k) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, start-up, training and initial maintenance and other such obligations of the Supplier under the Contract.

(l) "SCC" means the Special Conditions of Contract.

(m) "Subcontractor" means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.

(n) "Supplier" means the natural person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.

(o) "The Project Site," where applicable, means the place named in the **SCC.**

Contract Documents

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

Fraud and Corruption

3.1 If the Purchaser determines that the Supplier has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Purchaser may, after giving 14 days' notice to the Supplier, terminate the Supplier's employment under the Contract and cancel the contract, and the provisions of Clause 35 shall apply as if such termination had been made under Sub-Clause 35.1.

(a) For the purposes of this Sub-Clause:

(i) "corrupt practice"[7] is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

(ii) "fraudulent practice"[8] is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) "collusive practice"[9] is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(iv) "coercive practice"[10] is impairing or harming, or threatening

to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(v) "obstructive practice" is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under Clause 11 [Inspections and Audits by the Bank].

3.2 Should any employee of the Supplier be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the purchase of the Goods, then that employee shall be removed.

Interpretation

4.1 If the context so requires it, singular means plural and vice versa.

Incoterms

(a) Unless inconsistent with any provision of the Contract**,** the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.

(b) The terms EXW and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the **SCC** and published by the International Chamber of Commerce in Paris, France.

4.2 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.3 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.4 Nonwaiver

(a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

(b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.5 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

Language

5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be English. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in English language**,** in which case, for purposes of interpretation of the Contract, this translation shall govern.

5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

Deleted

Eligibility

7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.

7.2 All Goods and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, 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.

Notices

8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the **SCC.** The term "in writing" means communicated in written form with proof of receipt.

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

Governing Law

9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Union of India.

Settlement of Disputes

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

10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure **specified in the SCC.**

10.3 Notwithstanding any reference to arbitration herein,

(a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and

(b) the Purchaser shall pay the Supplier any monies due the Supplier.

Inspections and Audit by the Bank

11.1 The Supplier shall permit the Bank and/or persons appointed by the Bank to inspect the Supplier's offices and/or the accounts and records of the Supplier and its sub-contractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed by the Bank if required by the Bank. The Supplier's attention is drawn to Clause 3, which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under Sub-Clause 11.1 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility under the Procurement Guidelines).

Scope of Supply

12.1 The Goods and Related Services to be supplied shall be as

specified in the Special Condition of Contract.

Delivery and Documents

13.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. The details of shipping and other documents to be furnished by the Supplier are specified in the **SCC.**

Supplier's Responsibilities

14.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13.

Contract Price

15.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in the **SCC.**

Terms of Payment

16.1 The Contract Price, including any Advance Payments, if applicable, shall be paid as specified in the **SCC.**

16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfillment of all other obligations stipulated in the Contract.

16.3 Payments shall be made promptly by the Purchaser, but in no case later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.

16.4 The payments shall be made in Indian Rupees to the Supplier under this Contract.

16.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period set forth in the **SCC,** the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the **SCC,** for the period of delay until payment has been made in full, whether before or after judgment or arbitrage award.

Taxes and Duties

17. The Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.

Performance Security

18.1 If required as specified in the SCC, the Supplier shall, within twenty-eight (28) days of the notification of contract award, provide a performance security for the performance of the Contract in the

amount specified in the **SCC.**

18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

18.3 As specified in the SCC, the Performance Security shall be denominated in the Indian Rupees, and shall be in one of the format stipulated by the Purchaser in the **SCC,** or in another format acceptable to the Purchaser.

18.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in the **SCC.**

Copyright

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

Confidential Information

20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.

20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.

20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:

(a) the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract;

(b) now or hereafter enters the public domain through no fault of that party;

(c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or

(d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.

20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

Subcontracting

21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the bid. Such notification, in the original bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

Specifications and Standards

22.1 Technical Specifications and Drawings

(a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section VI, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.

(b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.

(c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

Packing and Documents

23.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. 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.

23.2 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.

Insurance

24.1 Unless otherwise specified in the **SCC,** the Goods supplied under the Contract shall be fully insured—against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the **SCC.**

Transportation

25.1 Unless otherwise specified in the **SCC,** responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.

Inspections and Tests

26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the **SCC.**

26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in the Purchaser's Country as specified in the **SCC.** Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.

26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.

26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any

relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.

26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.

26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.

26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.

26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.

Liquidated Damages

27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the **SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those **SCC.** Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.

Warranty

28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided

otherwise in the Contract.

28.2 Subject to GCC Sub-Clause 22.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.

28.3 Unless otherwise specified in the **SCC,** the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the **SCC,** or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.

28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.

28.5 Upon receipt of such notice, the Supplier shall, within the period specified in the **SCC,** expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.

28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the **SCC,** the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

Patent Indemnity

29.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

(a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and

(b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably

inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

29.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.

29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

29.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

Limitation of Liability

30.1 Except in cases of criminal negligence or willful misconduct,

(a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser and

(b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the purchaser with respect to patent

infringement

Change in Laws and Regulations

31.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in India, where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.

Force Majeure

32.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

32.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

Change Orders and Contract Amendments

33.1 The Purchaser may at any time order the Supplier through notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:

(a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;

(b) the method of shipment or packing;

(c) the place of delivery; and

(d) the Related Services to be provided by the Supplier.

33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Purchaser's change order.

33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

33.4 Subject to the above, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

Extensions of Time

34.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

Termination

35.1 Termination for Default

(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:
(i) if the Supplier fails to deliver any or all of the Goods

within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34;

(ii) if the Supplier fails to perform any other obligation under the Contract; or

(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 3, in competing for or in executing the Contract.

(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

35.2 Termination for Insolvency.

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

35.3 Termination for Convenience.

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

(b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

(i) to have any portion completed and delivered at the Contract terms and prices; and/or

(ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

Assignment

36.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

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

GCC 1.1(j)	The Purchaser is: Office of Program Manager Project Implementation Unit–Health, UDRP-AF DDPM Tower, 4th Floor, Ajabpur Khurd, Haridwar Bypass Road, Dehradun – 248001, Uttarakhand
GCC 1.1 (o)	The Project Site(s)/Final Destination(s) is: As per Part-2 Supply of Requirement
GCC 4.2 (a)	The meaning of the trade terms shall be as prescribed by Incoterms 2020.
GCC 4.2 (b)	The version edition of Incoterms shall be 2020
GCC 8.1	For **notices**, the Purchaser's address shall be: Attention: The Program Manager, **Address:** Project Implementation Unit- Health Uttarakhand Disaster Recovery Project-Additional Financing DDPM Tower, 4th Floor, Ajabpur Khurd, Haridwar Bypass Road, Dehradun – 248001, Uttarakhand

GCC 10.2	**Settlement of Disputes** The dispute settlement mechanism to be applied shall be as follows: (a) In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of 3 arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as Presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the President of the institution of Engineers (India), Dehradun. (b) In the case of a dispute with a Foreign Supplier, the dispute shall be settled in accordance with provisions of UNCITRAL (United nations Commission on International Trade Law) Arbitration Rules. The Arbitral Tribunal shall consist of three Arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the parties, and shall act as presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the President of the Institution of Engineers (India), Dehradun. (c) If one of the parties fails to appoint its arbitrator in pursuance of sub-clause (a) and (b) above, within 30 days after receipt of the notice of the appointment of its arbitrator by the other party, then the President of the Institution of Engineers (India), Dehradun both in cases of the Foreign supplier as well as Indian supplier, shall appoint the arbitrator. A certified copy of the order of the President of the Institution of Engineers (India), Dehradun, making such an appointment shall be furnished to each of the parties.

	(d) Arbitration proceedings shall be held at Dehradun, India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English. (e) The decision of the majority of arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation etc. of its proceedings as also the fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself. (f) Where the value of the contract is Rs.10 million and below, the disputes or differences arising shall be referred to the Sole Arbitrator. The Sole Arbitrator should be appointed by agreement between the parties; failing such agreement, by the appointing authority namely the President of the Institution of Engineers (India), Dehradun. (g) Except otherwise agreed to by the Parties, Arbitrators should give a decision in writing within 120 days of receipt of notification of dispute.
GCC 12.1	The scope of supply for the Goods and Related Services to be supplied shall be as specified in the *Schedule of Requirement.*

GCC 13.1	Details of Shipping and other Documents to be furnished by the Supplier are given below: GCC 13.1 Upon delivery of the goods to the transporter/consignee, the supplier shall notify the purchaser and mail the following documents to the Purchaser : (i) Three Copies of the Supplier invoice showing contract number, goods description, quantity, unit price, total amount; (ii) Delivery note, Railway receipt, or Road consignment note or equivalent transport document or acknowledgement of receipt of goods from the Consignee; (iii) Three Copies of packing list identifying contents of each package; (iv) Insurance certificate; (v) Manufacturer's/Supplier's warranty certificate; (vi) Inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and (vii) Certificate or origin. The above documents shall be received by the Purchaser before arrival of the Goods (except where it is handed over to the Consignee with all documents) and if not received, the supplier will be responsible for any consequent expenses.
GCC 15.1	The prices charged for the Goods supplied and the related Services performed *shall not* be adjustable.
GCC 16.1	GCC 16.1:Payment shall be made in Indian Rupees in the following manner:

	(a) (i) *On Delivery*: Fifty (50)% of the contract price shall be paid on receipt of Goods and upon submission of the documents specified in Clause 13 of SCC; and (ii) *On Final Acceptance*: the remaining Fifty (50) % of the Contract Price shall be paid within thirty (30) days after the date of the Acceptance Certificate issued by the Purchaser's representative in the proforma given in Section VI - item 6.
GCC 16.5	The payment-delay period after which the Purchaser shall pay interest to the supplier shall be 60 days. The interest rate that shall be applied is 8% per annum.
GCC 18.1	Within 21 days of Notification of Award, the supplier shall furnish Performance Security to the Purchaser shall be for an amount of 10% of the contract value, valid up to 60 days after the date of completion of all the performance obligations including warranty obligations. In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/ replaced material shall be extended to a further period of 12 months and the Performance Bank guarantee for proportionate value shall be extended 60 days over and above the extended warranty period.
GCC 18.3	If required, the Performance Security shall be in the form of a unconditional "Bank Guarantee" or "FDR" drawn in favour of the Purchaser.
GCC 18.4	Discharge of the performance Security shall take place not later than 60 days following the date of completion of the Supplier's performance obligations, including the warranty obligation, under the contract.
GCC 18.5	Add as Clause 18.5 to the GCC the following: In the event of any contractual amendment, the Supplier shall, within 28 days of receipt of such amendment, furnish the amendment to the Performance Security, rendering the same valid for the duration of the Contract, as amended for 60 days after the completion of performance obligations including warranty obligations.

GCC 23.2	Packing Instructions: The Supplier will be required to make separate packages for each Consignee. Each package will be marked on three sides with proper paint/indelible ink with the following: (i) Project; (ii) Contract No.; (iii) Country of Origin of Goods; (iv) Supplier's Name; (v) Packing List Reference Number. Suppliers should use recycled materials as much as possible for packing
GCC 24.1	The insurance shall be paid in an amount equal to 110 percent of the EXW value of the Goods from "Warehouse to warehouse (final destination)" on "All Risks" basis including War Risks and Strikes.
GCC 25.1	The Supplier is required under the Contract to transport the Goods duly insured to the specified final destination, and all related costs shall be included in the Contract Price.
GCC 26.1	The inspections and tests shall be as detailed in Para 5 of Section VI-Schedule of Requirement: The supplier shall get each item indicated in the Schedule of requirement inspected in manufacturer's works and submit a test certificate and also manufacturer's guarantee /warranty certificate that the items are conforms to the laid down specification. The Purchaser or its representative may inspect and /or test any or all the items to confirm their conformity to the contract specification, 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 items on receipt at destination to verify conformity to technical specification. If the items are fails to meet the laid down specifications the supplier shall take immediate steps to remedy the deficiency or replace the defective parts of the each to the satisfaction of the purchaser/ consignee.
GCC 26.2	The Inspections and tests shall be conducted at the place decided by Program Manager PIU-Health,UDRP-AF

GCC 27.1	The liquidated damage shall be: 0.05% of contract price of delayed Goods or Services per week or part thereof. The maximum amount of liquidated damages shall be: 10% of the contract price.
GCC 28.3	The comprehensive warranty period shall be 2 years from the date of final acceptance. (for Ambulances and all Equipments)
GCC 28.5	The period for repair or replacement shall be: 14 days.
GCC 28.6	The period shall be 14 days.
GCC 28.7	Add the following clauses.
	28.7.1 Free maintenance services shall be provided by the supplier during the period of warranty.
	28.7.2 The maximum response time for a maintenance complaint from any of the destination specified in the schedule of requirements (i.e. time required for suppliers maintenance engineers to report to the installations after a request call/telegram/fax is made or letter is written) shall not exceed 72 hours.
	28.7.3 It is expected that the average downtime of an item will be less than half the maximum downtime (i.e. defined as number of days for which an item of equipment is not usable because of inability of the supplier to repair it) as mentioned in the form of technical details. In case an item is not usable beyond the stipulated maximum downtime the supplier will be required to arrange for an immediate replacement of the same till it is repaired. Failure to arrange for the immediate repair/replacement will be liable for penalty of Rs.2000 per day per item. The amount of penalty will be recovered from bank guarantee during warranty period.
GCC 31.1	This clause will apply only to variations in all the taxespayable in India on the final product which is being supplied and not for the individual components / raw materials which go into the product.

GCC 37	**Add the following additional sub clauses.** **37.1** Supplier integrity: The supplier is responsible for and obliged to conduct all contracted activities in accordance with the contract using state- of- the- art methods and economic principles and exercising all means available to achieve the performance specified in the Contract.
	37.2 Supplier's obligations : The Supplier is obliged to work closely with the Purchaser's staff, act within its own authority and abide by directives issued by the Purchaser and implementation activities. The Supplier will abide by the job safety measures prevalent in India and will free the Purchaser from all demands or responsibilities arising from accidents or loss of life the cause of which is the supplier's negligence. The Supplier will pay all indemnities arising from such incidents and will not hold the purchaser responsible or obligated. The Supplier is responsible for managing the activities of its personnel or sub- contracted personnel and will hold itself responsible for any misdemeanors. The Supplier will treat as confidential all data and information about the purchaser, obtained in the execution of his responsibilities, in strict confidence and will not reveal such information to any other party without the prior written approval of the Purchaser.
	37.3 Site preparation and installation The Purchaser is solely responsible for the construction of the hardware sites in compliance with the technical and environmental specifications defined by the supplier. The Purchaser will designate the installations sites before the scheduled installation date to allow the supplier to perform a site inspection to verify the appropriateness of the sites before the installation of the hardware.

	37.4 Hardware installation: The Supplier is responsible for all unpacking, assemblies, wiring, installations, cabling between hardware units and connecting to power supplies. The Supplier will test all hardware operations and accomplish all adjustments necessary for successful and continuous operation of the hardware at all installation sites.
	37.5 Hardware maintenance: The Supplier will accomplish preventive and breakdown maintenance activities to ensure that all hardware put are without defect or interruption for at least 95% uptime for 24 hours a day, 7 days a week of operation of the machine worked on a quarterly basis. If any critical component of the entire configuration is out of service for more than three days, the Supplier shall either immediately replace the defective unit or replace it at its own cost. The Supplier will respond to a site visit and commence repair work on the equipment within 72 hours of being notified of equipment malfunction.

Attachment: Price Adjustment Formula

Deleted

SECTION IX – CONTRACT FORMS

Table of Forms

1. CONTRACT AGREEMENT

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS CONTRACT AGREEMENT is made

the *[insert:* ***number*** *]* day of *[insert:* ***month*** *]*, *[insert:* ***year*** *]*.

BETWEEN

(1) *[insert complete name of Purchaser]*, a *[insert description of type of legal entity, for example, an agency of the Ministry of .... of the Government of { insert name of Country of Purchaser }, or corporation incorporated under the laws of { insert name of Country of Purchaser }]* and having its principal place of business at *[insert address of Purchaser]* (hereinafter called "the Purchaser"), and

(2) *[insert name of Supplier]*, a corporation incorporated under the laws of *[insert: country of Supplier]* and having its principal place of business at *[insert: address of Supplier]* (hereinafter called "the Supplier").

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:

(a) This Contract Agreement

(b) Special Conditions of Contract

(c) General Conditions of Contract

(d) Technical Requirements (including Schedule of Requirements and Technical Specifications)

(e) The Supplier's Bid and original Price Schedules

(f) The Purchaser's Notification of Award

(g) *[Add here any other document(s)]*

3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

4. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

5. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[insert the name of the Contract governing law country]* on the day, month and year indicated above.

For and on behalf of the Purchaser

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

For and on behalf of the Supplier

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

Note: This form is for information of the bidder. It is not to be completed and submitted / uploaded as a part of the bid.

2. PERFORMANCE SECURITY

[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]*

IFB No. and title*: [insert no. and title of bidding process]*

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

Beneficiary:*[insert complete name of Purchaser]*

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 *[insert amount(s*[11]*) 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]*,[12] 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]

Note: This form is for the information of the Bidder It is not to be completed and uploaded along with the Bid.

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[11] *The Bank shall insert the amount(s) specified in the SCC and denominated, as specified in the SCC, either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Purchaser.*

[12] *Dates established in accordance with Clause 17.4 of the General Conditions of Contract ("GCC"), taking into account any warranty obligations of the Supplier under Clause 15.2 of the GCC intended to be secured by a partial Performance Guarantee. The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser 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, the Purchaser 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 the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee."*