

TENDER (E - PROCUREMENT MODE)

FOR

**SUPPLY & INSTALLATION OF AMBULANCE WITH EQUIPMENTS
AT IIT MANDI**



Tender No.: IITMANDI/S&P/PUR-04/2021-22/542-43

Tender date: 23rd April, 2021

Last Date of Submission: 17th May, 2021

**Indian Institute of Technology Mandi (IIT Mandi),
Store & Purchase Section,
2nd Floor, A7 Building, South Campus,
Kamand – 175 075, District – Mandi (H.P), India**

Tel.: 01905-267209/267039/267048

Email: dr.chandersingh@iitmandi.ac.in & arsp@iitmandi.ac.in

Indian Institute of Technology Mandi, Kamand invites online Bids for supply, erection, installation, commissioning, testing, demonstration and training of **“Ambulance with equipments”** as per specifications given in the Annexure attached to the Tender form. All offers should be made in English and should be written in both figures and words. Tender forms can be downloaded from the CPP Portal (<http://eprocure.gov.in/eprocure/app>) & Institute website <http://iitmandi.ac.in/administration/tenderseoi.php>.

The bidders are requested to read the tender document carefully and ensure compliance with all specifications/instructions herein. Non-compliance with specifications/instructions in this document may disqualify the bidders from the tender exercise. The Director, IIT Mandi, Kamand reserves the right to select the item (in single or multiple units) or to reject any quotation wholly or partly without assigning any reason. Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

Instruction to bidder:

1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender publishing on the CPP Portal.
2. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
3. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
4. The tenders will be received online through portal <http://eprocure.gov.in/eprocure/app>. In the Technical Bids, the bidders are required to upload all the documents in .pdf format. All quotation **(both Technical and Financial should be submitted in the E-procurement portal)**.
5. Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through <http://eprocure.gov.in/eprocure/app>. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are

available in the web site <https://eprocure.gov.in/eprocure/app> under the link “Information about DSC”.

Instruction for Preparation & Submission of bids:

1. Technical Bids should be submitted in PDF format & Financial Bids should be submitted in Excel format.
2. **In case of Financial bids**, a standard BOQ format has been provided in Excel format. Bidders are required to download the BoQ Excel file and fill their financial offer on the same BOQ format. After filling the same, submit it online in Excel format, without changing the financial template format. However, if bidder wants to modify in its financial offer, then bidder can modify.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF formats. Bid documents may be scanned with 100 dpi with black and white option.
4. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
5. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
6. **Kindly add scanned PDF of all relevant documents in a single PDF file like, compliance sheet, OEM/Principle Certificate etc.**
7. Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
8. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
9. The technical and financial bids should be submitted online through portal <http://eprocure.gov.in/eprocure/app> in original. The financial bid should include the cost of main equipment/item and its accessories. If there is any separate cost for installation etc. that should be quoted separately.
10. Each bidder should be marked with the following reference on the top bids submitted online: **“IITMANDI/S&P/PUR-04/2021-22/542-43/Ambulance with equipments, dated 23rd April, 2021”**.
11. The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender. The bidders should submit copies of

suitable documents in support of their reputation, credentials and past performance in .pdf format.

12. The rates should be quoted in figures (typed or printed) and cutting should be avoided. The final amount should be in figures as well as in words. If there are cuttings, they should be duly initialed, failing which the bids are liable to be rejected.
13. **Tender Cost:** The bidder should submit a demand draft of **Rs. 1,180 (Tender Fee inclusive GST) in Words Rupees One Thousand One Hundred & Eighty only** towards non-refundable **tender fee, drawn in favour of “The Registrar, IIT Mandi”** payable at Mandi in a sealed envelope super-scribed as **Tender fee & NIT No. “IITMANDI/S&P/PUR-04/2021-22/542-43/Ambulance with equipments, dated 23rd April, 2021”** on or before last date & time of submission of bids. **In the absence of tender fee, bids for evaluation shall not be accepted. NSIC/MSME exemption certificate shall be considered only against EMD (detail as mentioned in S.No.15).**
14. **Earnest Money Deposit (EMD):**

EMD amount - Nil.

However, As per GOI guidelines (OM No. F.9/4/2020-PPD, dated 12.11.2020) bidders are required to submit ‘Bid Security Undertaking’ in lieu of EMD (Annexure-IV)

- **Note: Both (tender fee & EMD- Bid Security Undertaking) envelops should be placed in another sealed envelope and address to:**

**“Dy. Registrar, Stores and Purchase”
Indian Institute of Technology Mandi (IIT Mandi),
S & P Section, 2nd Floor, A7 Building, South Campus,
Kamand – 175 075, Distt. – Mandi (H.P), India”**

This envelope having tender fee & EMD (Bid Security Undertaking) should reach on or before last date time of submission of bid.

15. **EMD Exemption:**

The Institute may accept bids without EMD from those bidders who

are registered with the Central Purchase Organization, National Small Industries Corporation (NSIC) or the concern Ministry or Department **as Manufacturer**. To claim the exemption, the bidder must be offering goods manufactured by themselves. Exemption will not be granted in case the bidder is acting as an agent for some other vendor.

General Terms & Condition:

1. While sending rates, the firm shall give an undertaking to the effect that ***“the terms/conditions mentioned in the enquiry letter/Tender Notice against which the rates are being given are acceptable to the firm.” in .pdf format.*** In case the firms do not give this undertaking, their rates will not be considered.
2. If the supplier/firm is original equipment manufacturer (OEM)/authorized dealer/sole distributor of any item, the certificate to this effect should submit in .pdf format.
3. The quantity shown against the item is approximate and may vary as per demand of the Institute at the time of placing order.
4. Any bids received after **11:00 A.M. on 17th May, 2021,** shall not be considered.
5. The Technical Bids will be opened on **18th May, 2021 at 11:00 A.M.** The date & time for opening of Financial Bids will be informed later on to the technically qualified bidders.
6. The tenders will be received online through portal <http://eprocure.gov.in/eprocure/app>. All tender documents received after the specified date and time shall not be considered.

For any correspondence regarding tenders is on below address:

“Dy. Registrar, Stores and Purchase”

**Indian Institute of Technology Mandi (IIT Mandi),
S & P Section, 2nd Floor, A7 Building, South Campus,
Kamand – 175 075, Distt. – Mandi (H.P), India”**

7. **Arbitration Clause:** In the event of any dispute or difference(s) between the vendee Institute (IIT Mandi) and the vendor(s) arising out of non-supply of material or supplies not found according to specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to “The Director, IIT Mandi”, Kamand who may decide the matter himself or may appoint arbitrator(s) under the arbitration and conciliation Act, 1996. The decision of the arbitrator shall be final and binding on both the parties.
 - a) In case of a dispute between the purchaser and a foreign supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause above. But if this is not acceptable to the supplier then dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

- b) The venue of the arbitration shall be the place from where the order is issued.
 - c) The place of arbitration and the language to be used in arbitral proceedings shall be decided by the arbitrator.
 - d) All disputes shall be subject to Mandi Jurisdiction only.
8. All tenders in which any of the prescribed conditions is not fulfilled or any condition is put forth by the tenderer shall be summarily rejected.
9. The bidders or their authorized representatives may also be present during the opening of the Technical Bid, if they desire so, at their own expenses.

Note: Price bids of only those bidders will be opened whose technical bids are found suitable by the committee appointed for the purpose. Date and time of opening of price bids will be decided after technical bids have been evaluated by the committee. Information in this regard will be intimated only to the technically qualified bidders. In exceptional situation, an authorized committee may negotiate price with the qualified bidder quoting the lowest price before awarding the contract.

10. Clarifications:

In case the bidders requires any clarification regarding the tender document, they are requested to submit their queries on the e-mail i.e. dr.chandersingh@iitmandi.ac.in, & arosp@iitmandi.ac.in on or **before 10.05.2021**.

11. **Assistance To Bidders:** Any queries relating to the tender document and the terms & conditions contained therein should be addressed to tender Inviting Authority for a tender or relevant contact person indicated in the tender.

12. Pre – Qualification Criteria:

- Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) on the same and specific to the tender should be enclosed.
- An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well.
- OEM should be internationally reputed Branded Company.

- Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between bidder specification and supporting documents etc. may lead to rejection of the bid.
- The Vendors who have earlier supplied the equipment to any of the IITs, IISc, IISERs and other Scientific Institute of National Repute should only tender. The details of such institutions and the cost with name of equipment may also be supplied with the bids.
- **In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.**
- **If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf another Principal/OEM in the same tender for the same item/product.**
- **Furnishing of wrong/ambiguous information in the compliance statement may lead to rejection of bid and further black listing of the bidder, if prima-facie it appears that the information in the compliance statement was given with a malafide/fraudulent intent.**

13. Prices:

Note: Bidder must quote financial bids in INR if Foreign Firm is quoting either through Their Existence in India or through their Indian Agent. Such Bids not Received in INR Shall Not be considered for further

Evaluation.

- The Prices quoted should be inclusive of basic price of an item, custom duties, packing, forwarding, freight, insurance, delivery and commissioning etc. at destination site (IIT Mandi, Mandi/Kamand). IIT Mandi is registered with DSIR, Govt. of India and is exempted from Custom /GST Exemption Certificate to this effect will be issued by IIT Mandi. **Hence, Customs/Excise Duty exempted price should be quoted.** The rates shall be firm and final. Nothing extra shall be paid on any account.
- **In case of imports/foreign supplier, the price should be quoted on ex-work price/FOB/FCA basis only. Under special circumstance (e.g. perishable chemicals), when the item is imported on CIP/CIF, please indicate CIF/CIP charges separately upto Delhi indicating the mode of shipment. IIT**

Mandi will make necessary arrangements for the clearance of imported goods at the Airport/Seaport.

- In case of imported equipment(s)/item(s), the agency commission, if any, payable in Indian rupees should be mentioned separately. **IAC shall be paid after satisfactory installation & commissioning of the goods at the destination.** For imported equipment, the Letter of Credit will be opened for the amount excluding agency commission in Indian Rupees. The firm should clearly mention the address of foreign bank in the financial bid.
- **In case of indigenous item, the vendor should clearly mention the final FOR IIT Mandi, Kamand Campus Price, as applicable in their bid.**

14. Validity:

The bid should be valid for acceptance up to a period of 180 Days. The Bidders should be ready to extend the validity, if required without any additional financial implications.

15. Delivery:

The Equipment should be delivered and installed within the period as specified in the purchase order and be ready for use within 4-6 weeks of the issue of purchase order unless otherwise prescribed. If the bidder fails to deliver and place any or all the Equipments or perform the service by the specified date, penalty at the rate of 1% per week of the total order value subject to the maximum of 10% of total order value will be deducted.

16. Installation, Training & Demonstration:

Bidders need to provide adequate training to the nominated persons of IIT Mandi at their cost. IIT Mandi will not bear any training expenditure. The supplier is required to done the installation and demonstration of the equipment within **15 days** of arrival of materials at the IIT Mandi site of installation, otherwise the penalty clause will be the same as per the supply of material.

In case of any mishappening/damage to equipment and suppliers during the carriage of suppliers from the origin of equipment to the installation site, the supplier has to replace to it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience. IIT Mandi will not be liable to any type of losses in any form.

17. **Insurance:** For delivery of goods at the purchaser's premises, the Insurance shall be obtained by the supplier on "**All Risk**" basis. The insurance shall be valid for a period of not less than 3 months after installation and commissioning. **In case of order placed on FOB/FCA basis, the purchaser shall arrange insurance. If order placed on CIF/CIP basis, the insurance should be up to New Delhi, the supplier shall arrange insurance.**
18. **Warranty Declaration:** Bidders must give the comprehensive on-site warranty as required from the date of successful installation of Equipment against any manufacturing defects and also give the warranty declaration that *"everything to be supplied by us hereunder shall be free from all defects and faults in material, workmanship and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specification and shall be complete enough to carry out the experiments, as specified in the tender document.*

Any deviation in the material, and the specifications from the accepted terms may liable to be rejected and the bidders need to supply all the goods in the specified form to the satisfaction/specifications specified in the order / contract and demonstrate at their own cost.

- The Purchaser Shall Promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall immediately within **Two weeks** arrange to repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie to the Purchaser for the replacement parts/goods thereafter. The period for correction of defects in the warranty period is **Two week**. If the supplier having been notified fails to remedy the defects within **Two week**, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expenses without prejudice to any other rights, which the purchase may have against supplier under the contract.
- The warranty period should be clearly mentioned. The maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned. The comprehensive warranty will commence from the date of the satisfactory installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components.
- After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive Maintenance Contract (CMC) should be

started. The AMC/CMC Charges will not be included in computing the total cost of the equipment.

19. **Performance Bank Guarantee:** A performance bank guarantee from a scheduled bank in India for an amount equal to 3% of the price for duration of two months beyond the expiry of warranty period will be taken from the supplier or Indian agent.

20. **Terms of Payment:** Payment will generally be made only after delivery and satisfactory installation, testing, commissioning etc. **This must be specified in the tender/quotation.**

- In case of imported supplies, payment (excluding Indian agency commission, if any) will be made through irrecoverable Letter of Credit in two installments. 80 % of the money will be released on submission of shipping of documents. Remaining 20 % will be released after successful installation of the instrument and submission of a performance bank guarantee for 3% of the order value from scheduled bank in India, valid for 2 months beyond the expiry of the warranty. All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.
- In case of required item quoted in INR, 80% payment will be made through E-payment after receipt of material in good condition and Remaining 20% will be released on successful installation of the instrument and on submission of a performance bank guarantee for 3% of the order value from scheduled bank in India, valid for 2 months beyond the expiry of the warranty.

21. **Tender expenses and documents:** All costs incurred by the bidder in the preparation of the tender shall be at the entire expense of the bidder.

22. **Tender Evaluation Criteria:** The technical bids will be opened and evaluated by a duly constituted committee. After evaluation of the technical bid, the financial bid for only those offers which have qualified in the evaluation of technical bid will be opened.

23. **Return of EMD:**

- The earnest money of unsuccessful bidders will be returned to them without any interest within 15 working days after awarding the contract.
- The earnest money of the successful bidder will be returned to them without any interest within 15 Days after supply of material.

24. **Manual and documentation:** All the manuals necessary for operating and servicing the equipment (including details of electronic circuits) will have to be provided along with the instrument.
25. The IIT Mandi reserves the right to cancel the tender at any stage (point of time) without assigning any reason.
26. Bidders should go through the tender terms, conditions and specifications carefully and fill in the attached compliance statement accurately and unambiguously. They should ensure that all the required documents are furnished along with the bid.

Sd/-
Dy. Registrar
Store & Purchase

BID PARTICULARS

1. Name of the Supplier :
2. Address of the Supplier :
3. Availability of demonstration of equipment : Yes / No

4. Tender cost enclosed: : Yes/No if yes

D.D. No. _____ Bank _____ Amount _____

5. EMD enclosed : Yes / No if Yes

D.D. No. _____ Bank _____

6. Name and address of the Officer/contact person to whom all references shall be made regarding this tender enquiry.

Name :

Address :

Telephone No. :

Fax No. :

Mobile No :

e-Mail :

Web :

**< Organization Letter Head >>
DECLARATION SHEET**

We, _____ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification. This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.	NAME & ADDRESS OF THE Vendor/ Manufacturer / Agent
1 Phone	
2 Fax	
3 E - mail	
4 Contact Person Name	
5 Mobile Number	
6 TIN Number	
7 PAN Number	
8 GST No.	
9 Kindly provide bank details of the bidder in the following format:	
a) Name of the Bank	
b) Account Number	
c) Kindly attach scanned copy of one Cheque book page to enable us to return the EMD to unsuccessful bidder	

Ref:-ENQUIRYNO:- IITMANDI/S&P/PUR-04/2021-22/542-43/Ambulance with equipments, dated 23rd April, 2021.

Technical Specifications for the Purchase of Ambulance:

Fully descriptive Technical Specifications Type D. The Goods and Related Services shall comply with following Technical Specifications and Standards:

ADVANCED LIFE SUPPORT (ALS) AMBULANCE EQUIPPED WITH EQUIPMENTS

A. Vehicle Specification

1. Base Vehicle for ALS Ambulance:

Bidder have to provide Temporary Registration including all taxes & duties F.O.R. consignee and should meet the following Technical Specification:

1.1 ENGINE CAPACITY: 2500 CC minimum (DIESEL/PETROL)

1.2 Emission Norms: BS VI.

1.3 Output: Minimum 80.4 HP @ 3200RPM

1.4 Transmission: Manual

Dimensions (Patient Cabin):

Minimum Length: 4900 mm +/-10%

Minimum Width: 1900 mm +/- 10%

Minimum Height: 1900 mm +/- 10%.

1.5 Body & Chassis: Integrated type

1.6 Ground Clearance: 190 mm Minimum

1.7 GVW: 3.0T Minimum

1.8 (I) Rear Door: Centrally Divided rear doors on high quality steel

Hinges ensuring 180 degree opening for both the doors.

(II) Both the rear doors should be provided with fixed windows

made from toughened glass approved for automotive use.

1.9 Warranty Terms: Minimum 03 years or 3 Lac KM as per standard

terms of the vehicle manufacturer.

1.10 Free Services: 04 free services excluding the cost of the consumables.

Vehicle Characteristics in AIS 125

Acceleration: - As per AIS 125, the vehicle shall be able to accelerate from 0 km/hr. to at least 70km/hr. within 40 seconds.

As per AIS 125, the technical information to be submitted by the manufacturer at the time of bid submission.

1.11 Colour: The Colour shall be notified at the time of fabrication stage, concerning the painted colour of the ambulance vehicle.

1.12 Emblems and Markings: All items in this section shall be of reflective quality and in contrasting colour to the exterior painted surface of the ambulance.

1. There shall be a continuous blue stripe, of not less than 8cm on cab and 15 cm on patient compartment, to encircle the entire ambulance with the exclusion of the hood panel or **exterior pattern should be finalized in consultation with institute authority**

2. **Emblems and Markings** shall be of the type, size and location as follows:

A. FRONT: THE WORD "AMBULANCE", MINIMUM OF 10 CM IN HEIGHT, SHALL BE IN MIRROR IMAGE (REVERSE READING) FOR MIRROR IDENTIFICATION BY DRIVERS AHEAD, WITH A BLUE "STAR OF LIFE", MINIMUM OF 8CM HEIGHT, TO THE LEFT AND RIGHT OF THE WORD "AMBULANCE." IF VEHICLE DESIGN PERMITS, THERE SHALL BE A BLUE "STAR OF LIFE" OF NO LESS THAN 30 CM IN HEIGHT ON THE FRONT SECTION OF THE PATIENT COMPARTMENT.

B. Side: Each side of the patient compartment shall have the blue "Star of Life" not less than 30 cm in height. The word "AMBULANCE", not less than 15 cm in height, shall be under or beside each star (The Ambulance shall be fabricated in conformity to AIS-125 with up to date amendments)

2. Patient Compartment:-

2.1. Cabin Conversion

2.1.1. Complete interior panelling of the sidewalls, both sides of the partition wall between patient cabin and driver cabin, roof (of both patient and driver cabin) & back door panels should be made from polymethyl Methacrylate - Acrylonitrile Butadiene Styrene (PMMA ABS) Sheets. The PMMA ABS should be in semi-gloss/ matt finish and should be of high impact resistant and stiff ABS with a top layer of high-gloss, stress cracking resistant PMMA. The ABS sheets should be co-extruded and UV protected and should not be from recycled ABS sheets. The heat resistance of the sheets measured based on ISO 306B should be 94 degree C to 100 degree C. The panels must be suitably formed using the appropriate technology so that the match to the contour of the vehicle and looks aesthetically pleasing.

2.1.2. The complete interior should be edgeless and suitable for easy cleaning / scientific fumigation / treatment of disinfectants.

2.1.3. The panels must be suitably formed to match to the contour of the vehicle and looks aesthetically pleasing.

2.1.4. The panels for each of the surfaces should be produced as one single without any joints either along the length or the width of the panels.

2.1.5. The minimum thickness at any point of the panels should not be less than 2mm.

2.1.6. The ceiling, both the side-walls, both sides of the partition wall should be produced in one single piece matching to the dimension of the patient compartment dimension of the ambulance.

2.1.7. The interiors should have reinforced fixtures for holding medical, communication and Extrication equipments.

2.1.8. Partition wall between patient & driver cabin with sliding glass window having lock. The windows should be made up of extruded aluminium profile in rounded rectangular shape (all the corner edges are curve so that there are no sharp corner edges along the window frame). There should be only one joint in the frame and the inner profiles must have synthetic sliders for smooth movement of the glass panes. The sliding glass should be of toughened glass as needed for automobile applications.

2.2. Flooring

- 2.2.1. The flooring should be made up of min. 12mm. thick marine grade ply, rigidly bolted the steel base plate of the base vehicle construction.
- 2.2.2. On the top of the ply layer the floor should be coated with minimum 3-4 mm thick solvent free, two components Polyurethane based top layer for highest class of hygiene for all the corner and angle joints, clean ability, anti-skid and impervious to disinfectants.
- 2.2.3. The floor should be finished in mosaic finish with coloured chips embedded to the flooring to break the monotony of look and add to the aesthetics of the floor.
- 2.2.4. The floor should be properly cured to ensure the right strength and finish.
- 2.2.5. After complete drying core layer should be further coated with a minimum two layers of transparent anti-scratch layer to ensure longer life of the floor against heavy dirt and scratches.
- 2.2.6. The floor must withstand a distributed load of minimum 150Kg/*m*².

2.3. Seats EMT / Doctor Seat

- 2.3.1. There should be a rear mounted foldable base EMT / Doctor seat as per the specifications below:-

The seat should have two foldable arm rests. When unfolded for sitting the backrest should offer a soothing angle (more than 95 degree) to the base offering optimum comfort and safety to the occupants, who sits in directions not in line with the movement of the vehicle. The back rest (without the head rest included) should be minimum 525 mm. in height. The seat should have an adjustable headrest and retractable seat belt. The seat should be aesthetically pleasing and ergonomically well designed. The seat base should be padded at least 450 mm wide and 350 mm. in depth and have the largest padded backrest with contoured support for the back. Padding should be furnished with polyester urethane foam of a medium to firm density and should be minimum 60 mm. on the base, backrest and headrest (at the thickest cross section of the head rest the headrest may be contoured to the lateral ends).

Padding should provide ultimate comfort to the occupants. The upholstery should be of leather-match vinyl / polyurethanes / leatherette colour in dark colours matching the interior colour of the ambulance. The padding and upholstery should be fire retarded. Additionally, the upholstery should be non-absorbent, washable and impervious to disinfectants. The seat should be fully foldable and rear mounted providing complete clean floor below the base without any framework for fixation.

2.3.2. **Attendant Seats**

There should be two attendant seats for the attendants on the co-driver side in the patient cabin. These seats should be single pivot point base mounted chairs with complete clean floor below the base without any framework for fixation. The seats should have integrated revolving mechanism by which these can be turned from facing the patient stretcher to the front of the vehicle with a single activation of the revolving control. This would enhance the safety of the occupants to align their position from a side way sitting to a front facing seating the ideal position in a moving ambulance. The seat should be completely foldable. The backrest should have integrated headrest means it should be tall enough beyond the shoulder level in the sitting position. The seats should have retractable seat belts and foldable armrest. The seats should be aesthetically pleasing and ergonomically well designed. The seat base and backrest should be padded at least 440mm wide and have the largest padded backrest with contoured support for the back. The base should be at least 400 mm. in depth. As per AIS-125, Type D Ambulance the number of seats shall be 04 in addition to the driver seat.

Padding should be furnished with polyester urethane foam of a medium to firm density. Padding should provide ultimate comfort to the occupants. The upholstery should be of leather-match vinyl / polyurethanes / leatherette colour in dark colours matching the interior colour of the ambulance. The padding and upholstery should be fire retarded. Additionally the upholstery should be non-absorbent, washable in impervious to disinfectants.

2.4. Internal Storage compartments

- 2.4.1. All the internal Storage compartments, surfaces and space provisions should be made to accommodate / fix the various medical transportation and immobilization, medical glass ware medical disposables and cons fresh and dirty linens, infusion bottles, drugs, accessories, wastes, documents, records, files etc. as per requirement in the ambulances.
- 2.4.2. The storing consoles must designed keeping in consideration various storing requirements in an ambulance.
- 2.4.3. The patient compartment should be provided with storing console at integrated to the partition wall of the driver cabin and patient cabin and overhead storing compartments on the driver side of the patient compartment along the roof.
- 2.4.4. All storage compartments should be aesthetically and well-designed.
- 2.4.5. To preclude injury in the event of an accident all cabinet will be firmly anchored / fixed to the base structure of the ambulance.
- 2.4.6. Storage cabinets, drawers and kits should be easily open transit on account of the vehicle movement.
- 2.4.7. The overhead rack should be made from the same grade of material as the interior panels for the patient compartment and should be seamlessly finished to the sidewalls.
- 2.4.8. The overhead rack should have at least two sliding glass window having lock for access from the front. The window should be made up of extruded aluminium profile in rounded rectangular shape (all the corner edges are curves or that there are no sharp corner edges along the window frame only one joint in the frame and the inner profiles must have synthetic sliders for smooth movement of the glass panes. The sliding glass should be of toughened glass as needed for automobile applications.
- 2.4.9. The head-end storing console should be produced from double side laminated moisture resistant plywood. The top surface of the head material as the interior panel's minimum 3mm. thickness for the patient compartment and should be seamlessly finished to the side walls and the partition wall.

- 2.4.10. All the edges / joints / exposed surfaces should be appropriately finished to ensure that there are no sharp edges.
- 2.4.11. Storage compartments should be divided into various sections according to the different varieties of the medical items to be stored in it.
- 2.4.12. All the sliding as well as open the locks should be push to lock and push to open type.
- 2.4.13. There should be no key type locks used anywhere in the internal furniture.
- 2.4.14. All the vertical flap doors with opening towards the topside should be latched at its fully Open position using adequate capacity pneumatic lifters at both the horizontal ends to ensure proper load distribution of the door.
- 2.4.15. All the vertical flap doors with opening towards the bottom side position using adequate capacity roller / friction / pneumatic supports at both ends to ensure proper load distribution of the door.

2.6. Wash Basin

- 2.5.1. The internal furniture layout must include a washbasin made up of same surface of the head end storing console / SS material matching to the colour of the furniture.
- 2.5.1. The water tap of the washbasin should be operated with a foot / elbow switch at a convenient and safe place around the washbasin area, so that activate the switch and get water flow.
- 2.5.2. The tap should be operated using a submersible 12V DC maximum IP classified water pump placed inside the water tank.
- 2.5.3. The capacity of the water tank as well as the waste water tank should be at least 20 ltr.

2.6. AC System should be as per AIS

- 2.6.1. The patient compartment must be provided with an engine driven air conditioning system of adequate capacity matching to the total heat load of the patient compartment when fully occupied and the patient loaded.
- 2.6.2. The compressor should be engine mounted and engine run.
- 2.6.3. All hoses should be machine crimped to avoid the leakages.
- 2.6.4. AC system should be certified for passenger vehicle usage.

2.6.5. Both the patient compartment as well as the driver cabin should be air – conditioned.

2.7. Electrical

2.7.1. There must be adequate internal and external light matching to the requirements of an ambulance for the various purposes.

2.7.2. There must be Indian standard AC electrical sockets inside the patient compartment for connecting AC operated electrical gadgets.

2.7.3. There must be a weather proof heavy duty external charging socket as well at an easily accessible position.

2.7.4. There must be emergency light bar cum siren and speaker system on the top at the front.

2.7.5. There should be side flashers and external lighting arrangements for evacuation in dark situations.

2.7.6. There should be integrated inverter system of at least 800VA as well.

2.8. Fire Extinguisher

2.8.1. The ambulance should be equipped with two fire extinguishers of 2 Kg capacity each (as per AIS-125 Type D Ambulance shall be equipped with two fire extinguishers of 2kg each minimum).

2.8.2. The fire extinguisher should be secured in a bracket and located in full view and in an accessible place.

2.8.3. The fire extinguisher should bear a label of ISI / CE / UL/ NFPA showing a rating of 2 BC (Class BC - , Class B – flammable liquid and Class C - energized electrical equipment).

2.8.4. One fire extinguisher should be placed in the driver cabin and one inside the patient compartment.

Detailed Equipment Specifications**SPECIAL EQUIPMENTS:-**

Sr.No.	Name and Specifications of the Equipment's	Specifications
1	Fully automated external defibrillator (AED)	<ol style="list-style-type: none"> 1) Unit should be lightweight compact and portable (not exceeding 6kg.) 2) Unit should have facility for Automatic External Defibrillation and manual defibrillation. 3) Controlled biphasic wave form and up to 200 shocks applicable with a new battery. 4) Should have visual and audible alarm indicators. 5) Should have battery backup at least for 50 discharges of 200J or more and regular monitoring of battery levels. 6) Should have Metronome signal Synchronising chest compressions and Bluetooth for device configuration and data transfer 7) Should have extra disposable self-sticking electrodes/pads 8) USFDA. /European CE approved model should be offered.
2	Monitor	<ol style="list-style-type: none"> 1) Should have facility for adult, paediatric and neonatal patient monitoring. 2) Should have touch screen TFT display with at least 12" Display. 3) Should have 5 lead ECG, SPO2, NIBP, Respiration rate and Temperature. 4) Should be provided Battery backup for minimum two hours.

		<p>5) Should have rear clamp for mounting.</p> <p>6) Should have facility for external pacing.</p> <p>7) Should have facility for charging from both 12VDC& 220VAC.</p> <p>8) Build-in Thermal Recorders.</p> <p>9) USFDA. /European CE approved model should be offered.</p> <p>10) Should be supplied with:</p> <ul style="list-style-type: none"> A. Reusable pulse oximeter probe(two) B. ECG cable -5 lead(two) C. Temperature Skin & Rectal probes – Each Two D. It should have facility for transmission of data from ambulance to a receiving station(option)
<p style="text-align: center;">3</p>	<p style="text-align: center;">ECG Machine (12 Channels)</p>	<p>1) Unit should be lightweight compact and portable (not exceeding 6kg.)</p> <p>2) Simultaneous 12 Channel ECG Recording with 12 lead Simultaneous acquisitions.</p> <p>3) At least 5.7-inch resolution foldable display enables the easy viewing of patient demographics and real time ECG data option</p> <p>4) Build in ECG parameters measurement and interpretation.</p> <p>5) Internal storage minimum 800 ECGs and can be enlarged by USB with thermal printer (recorder).</p> <p>6) Li-ion rechargeable battery – 300 ECG’s or better. Built-In Rechargeable 14.8V, Li-Ion Battery, 2500 mAh.backup min 04 hours.</p> <p>7) Connectivity: FTP, Supports barcode scanner & USB Printer, optional Wi-Fi. PC with interface software allows to access EMR/PACs/GDT-based Systems (HL7 protocol).</p>

4	Oxygen cylinder "D" Type	<ol style="list-style-type: none"> 1) It should be a standard „D' type molybdenum steel cylinder to fill medical oxygen. 2) The capacity should be of at least 5000 to 6000 Litters (5 + 6 M3) at a pressure of 1800 -2000ibs/inch². 3) A pressure regulator/flow meter capable of reducing the pressure to appropriate level to run either a ventilator or provide oxygen therapy.
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Basic Equipment:-

Sr.No.	Name and Specifications of the Equipment's	Specifications
1	Suction Pump (Electronic)	<ol style="list-style-type: none"> 1) Equipment shall be with 12V DC Maximum negative pressure from -200 to 700 mbar in steps of 100 or less with suitable setting marks. 2) Sufficient capacity 500ml secretion bottles with efficient over-flow protected with adjustable negative pressure (Min. 5 Nos. Polycarbonate & autoclave able). 3) Ambulance Wall countable. 4) Power Pack rechargeable Nico Battery 12 V with battery chargers connecting cable for connection to 230v AC+ 10%, 50 Hz and with provision for recharging from the vehicle with vehicle circuit connecting cable. 5) Battery charged life shall be of min. 90minutes. 6) Suction capacity of minimum 10-16 litre per minutes.
2	Suture Set	Complete one set with Standard equipment in stainless Steel
	Laryngoscope	

3	with blades	<ol style="list-style-type: none"> 1) Standard equipment in metal with at least 3 standard size curved blades and one extra-large blade (Adult & Child). 2) Handle should have comfortable grip. 3) Good quality light source (Fibre optic/conventional).
4	Oxygen cylinder "B" Type	<ol style="list-style-type: none"> 1) Colour coded light weight. Aluminium alloy oxygen cylinder for providing oxygen therapy of total capacity of 1500Ltr (minimum). 2) Mounted with pressure reducer and flow-meter provision of capacity up to 15 Litres per minutes and outlet for secretion aspiration. 3) Reliable and complete test certificate. 4) Should be provided with an adapter to refill the cylinder from a bulk cylinder. 5) Should be membrane pressure reducer with manometer complete with flow meter at least 0-15 litres /min. and humidifier.
5	Artificial Manual Breathing Unit (Adult	<p>The equipment shall be with:</p> <ol style="list-style-type: none"> 1) Easy Grip manual resuscitator with transparent face -mask. 2) Adult models (1500 to 2000ml bag capacity) or better. 3) Standard 15-22 mm Swivel connector allows connections to all common masks Endotracheal Tubes. 4) Provision to give supplemented oxygen-by-oxygen reservoir providing 100% oxygen. 5) Non-rebreathing valve enabling the patient to inspire oxygen from the reservoir bag.
6	Artificial Manual Breathing Unit	<p>The equipment shall be with:</p>

	(Child & Neonatal	<ol style="list-style-type: none"> 1) Easy Grip manual resuscitator with transport facemask. 2) Child models (500 o 250ml bag capacity) or better. 3) Standard 15-22 mm Swivel connector allows connections to all common masks Endotracheal Tubes. 4) Provision to give supplemented oxygen by oxygen reservoir providing 100% oxygen. Non-rebreathing valve enabling the patient to Inspire oxygen from the reservoir bag.
7	<p>Trolley Stretcher- with back tilt facility and collapsible wheels for uploading into the trolley.</p> <p>Or (Auto Loader Stretcher cum Trolley</p>	<ol style="list-style-type: none"> 1) Automatic loading stretcher with capability to convert into wheelchair. 2) Built with anodized aluminium lightweight /stainless steel. 3) Adjustable back rest at least 0 dg -90 dg which allows to fix the back-rest safety in any position. 4) Side protections completely overturn able. 5) Safety lever for the legs positioned near the unlocking device allowing thus the release operation for the loading, keeping the hands on the stretcher. 6) Vertical legs protected by nylon wedges. Automatic centering device mounted on rotating wheels. This system automatically blocks the back wheels in the central position during the loading of the stretcher on the ambulance without having turn the wheels manually. Length; 190-200cm Width: 55-60cm Height: 80-85cm Weight 35-40 kg Loading Capacity: 160-180kg (Minimum). Stand for automatic loading stretcher with locking facility for quick fixing system with handle to mount the stand in very position on the stretcher.
8	Canvas	

	Stretcher Folding	<ol style="list-style-type: none"> 1) Should be lightweight and made up of tubular aluminium alloy. 2) Should be easy to carry. 3) Should be rugged. 4) Should be compact & foldable in two. 5) Should have automatic locking, which does not fold in automatically. 6) Should have provision to put IV pole on the stretcher. 7) Should come with IV Stand as Standard.
9	Stretcher Scoop	<ol style="list-style-type: none"> 1) The equipment shall be lightweight aluminium stretcher, which folds in two half and separates for application and removal, locking adjustable length with latches-with nylon- straps. 2) Narrow food end frame or handling in confined areas. Length: 160 to 200cms. Width: 42 cm (Minimum) Weight: < 10 kg. Load capacity -120 kg (Min.)
10	B.P. Instrument Aneroid	<p>Scale 0-300mmhg. Air release at closed lap max 4mmHg/Minute. Manual setting of deflation possible upto 2/3mmHg/s. From 260mmHg. To 15mm Hg max deflation time 10 seconds. Gauge's background in white colour. Graduated scale for ever/ 2mmhg, with bigger notches ungraduated every 10 units and bigger graduated every 20 units. Floating zero (the</p>

		<p>printer hasn't stop point.</p> <p>But swings freely), nylon rip-off straps cuff matching colours with pouch, latex bulb with completely chromium plated valve. Air taps wholly chromium plated with regulation of vent-hole air by screw valve. Nylon off pouch with zip.</p>
11	Stethoscope	<p>Stethoscope (3M) with standard adult size, chromium plated metal binaural, V rubber tube in one piece. Rotating piper fitting for both functions. (Reputed company make/approved)</p>
12	<p>Pneumatic Splints set of 6 adult sizes with carrying case</p> <p>1) Hand & Wrist 2) Half arm 3) Full arm 4) Foot and ankle 5) Half leg 6) Full leg</p>	<p>1) X-ray through the splints</p> <p>2) Inflation tubes' extension with dosing damp makes dosing easy and quick after inflation.</p> <p>3) Fixing of splint is by zipper or belt.</p> <p>4) Distal end left open to expose toes.</p> <p>5) Should be washable and reusable.</p>
13	Gauze Cutter	<p>Emergency scissors with thermoplastic handle and steel blade to cut clothes Length should be maximum of 18 cm.</p>
14	Artery Forceps	<p>Standard equipment in stainless steel maximum of 14 cm.</p>
15	Magilis forceps	<p>Standard equipment in stainless steel.</p>
16	Cervical Collar	<p>1) Should be adjustable to 4 different sizes.</p> <p>2) Should be pre-molded chin support, locking dips and rear ventilation panel, enlarged trachea opening.</p> <p>3) Should be high-density polyethylene and foam padding with one piece design enables</p>

		<p>efficient storage where space is limited.</p> <p>4) Should be X-ray lucent and easy to clean and disinfect.</p>
17	First Aid Bag	<p>Bag with partitions for vials transport. Indispensable implement to protect and identify any kind of vials. Made with nylon, it should be provided with 2 compartments, of which one divided in 3 partitions and one divided in 2. Inside elastic band to fix the vials and transparent accommodation for identification labels. Dimensions: .30x18 x 15 cm or Pre-packed kits</p>
18	Spinal Board	<p>1) Should be in plastic material at high strength and Waterproof. It should be maximum of 4 rules for the quick and total fixing of the head Immobilizer and two cavities when the board lays on the Floor, when the base is blocked in the traditional way, that allow o avoid damages to rip-off straps during the usage or accommodation in the ambulance.</p> <p>2) Should have maximum radio transparency to make exams without compromise patient condition.</p> <p>3) It should be maximum of 20 handles far the transport, supplied with at least 3 belts with rapid unhooking buckle.</p>
19	Double head Immobilizer for scoop stretcher Immobilizer for scoop stretcher	<p>1) Head Immobilizer should be mounted and separated on the scoop stretcher.</p> <p>2) Should be standard side rigid blocks instead of the adjustable ones.</p> <p>3) Should be with padded belts for the fixing.</p> <p>4) It should be covered by a liquid proof and bacterial proof material.</p>
20	Portable hand-	The glucometer with test strips and standard

	held Glucometer	accessories.
21	Nebulizer (Electric)	With necessary accessories- nebulization mask, tubing and cable cord for nebulizer

Detailed List of Consumables :-

Sr.No.	Particulars	Quantity
1	Cotton	2 Rolls – 1 Kg each
2	Bandag (a) 15 cm (b) 10 cm (c) 6 cm	05 Piece each
3	Leucoptas (1" 3" & 5")	2 rolls each
4	Pain Spray	1
5	Mistress Spray	1
6	Vinodien Spray	1
7	Coollex Spray	1
8	LMA disposable	2
9	Wide bore needles	2
10	Disposable L.P. Needles	2
11	Syringes ABG (2& 5 ml)	10
12	Three way stop code	2
13	Extension 1A/lines	2
14	Disposable suction pumps	2
15	ECG electrodes	2
16	Lighted Stylets of different sizes	2
17	Guedle's airway 00-5,00,0,1,2,3,4,5	1
18	Nasal airways (all sizes) & catheters	2
19	Binasal Cannula, Combitube, COPA	2
20	Tracheostomy tube cuff & plain (All sizes)	2
21	Mini Tracheostomy Kit	1
22	Ventimask, facemask with nebulizer	2
23	Pressure Infusion Bags	2
24	Righthanded Snivel Connector	2
25	G.V. Paint	200 ml
26	Micro drip-set & Dip-set	10
27	Nasogastric Tubes	2
28	Bum Pack: Standard package, clean burn sheets (or towels for children)	2
29	Triangular bandages (Minimum 2 safety pins)	5
30	Dressing: Sterile multi-trauma dressing (various large and small sizes); ABDs, 10"x12" or larger 4" gauze sponges; Cotton rolls	2
31	Gauze rolls Sterile (various size)	2
32	Elastic bandages Non-sterile (various size)	2
33	Occlusive dressing Sterile 3'x8" or larger	2
34	Adhesive tape: Various sizes (including 2" or 3") Adhesive tape (hypoallergenic)	2 rolls of each size
35	Various sizes (including 2" 3)	2
36	Waste bin for Sharp needles, etc.	1
37	Disposable bags for vomiting, etc	10
38	Teeth Guard	2
39	Sample Collection kits	1
40	Micron drip set	2
41	Plastic / metallic urinal	2
42	Kidney trays	2

Rescue Equipment for ALS ambulances: -

The following additional items will be carried by each ALS ambulance:

- a) Hammer, one four pound with maximum of 15inch handle.
- b) One axe
- c) Wrecking Bar, minimum 24-inch (bar and 1 w preceding items can either be separate or combined as a forcible entry tool).
- d) Crowbar, minimum 48 inches, with pinch point.
- e) Fire extinguisher (Carbon dioxide based, portable of 2kg capacity minimum).

General Terms and Conditions: -

1. Company Warranty on Fabrications and all equipment's should be mentioned and should be minimum 2 years.
2. Local service of equipment's & vehicle should be provided /available.
3. **Provision for initial training for Para medical staff regarding equipment's handling.**
4. Vehicle cost, Registration. Transportation and Insurance Cost should mention and must be included.
5. AMC should be provided for medical equipment's from time to time, if desired by institute.
6. The positioning of chairs, seats, other fixtures or any other changes shall be finalized in consultation with the institute authorities. The drawings to be submitted in 2-D & 3-D. The interior floor plan and exterior design shall be finalized consultation with the institute authorities, if desired by institute.

BID SECURITY UNDERTAKING

(To be issued by the bidder on company's letterhead in lieu of EMD)

To,

The Registrar,
I.I.T. Mandi,
Kamand, – 175 075,
District – Mandi, Himachal Pradesh, India

We, M/s _____
(Name of the Firm), with ref. to Tender No. **IITMANDI/S&P/PUR-04/2021-22/542-43/Ambulance with equipments, dated 23rd April, 2021**, hereby undertake that:

1. We accept all terms and conditions of the tender document.
2. We accept that, we will not modify our bid during the bid validity period and will honour the contract after the award of contract.
3. In the event of any modification to our bid by us or failure on our part to honour the contract after final award, our firm may be debarred from participation in any tender/ contract notified by IIT Mandi for a period of one year. We undertake that we shall not appeal against such debarment in any court of law.

Yours faithfully,

(signature)

Name:

Date:

Office Seal:

**COMPLIANCE STATEMENT FOR THE TENDER SPECIFICATION
INDIAN INSTITUTE OF TECHNOLOGY MANDI
SOUTH CAMPUS, KAMAND – 175 075, DISTRICT – MANDI, HIMACHAL PRADESH**

Ref:- ENQUIRYNO:- IITMANDI/S&P/PUR-04/2021-22/542-43/Ambulance with equipments, dated 23rd April, 2021.

Sr. No.	Check list of documents/ Undertakings?	YES/ NO	Remarks (Give explanation if answer is No)
1	Is Tender fees attached?		
2	Is EMD attached? (if applicable)		
3	Is the bidder original equipment manufacturer (OEM)/authorised dealer?		
4	If authorised dealer, recent dated Certificate to this effect from OEM, attached or not?		
5	Undertaking from OEM regarding technical support & extended warranty period		
6	Validity of 180 days or not?		
7	Undertaking from bidder regarding acceptance of tender terms & conditions		
8	Whether list of reputed users (along with telephone numbers of contact persons) for the past three years specific to the instrument attached.		
9	Whether special educational discount for Indian Institute of Technology (IIT) Mandi (H.P) given.		
10	Whether training of operator and research students without any charges offered.		
11	Does the instrument comply with all the required specifications as per annexure 1. IMPORTANT: Attach a separate sheet highlighting compliances with the specifications and explanations thereto if the equipments vary from the requested specifications.		
12	Whether free Installation, Commissioning and Application Training offered.		
13	Whether warranty as per requirement offered		
14	Whether Annual maintenance after expiry of comprehensive onsite warranty quoted separately as optional.		