



# NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 15

Web: [www.nitt.edu](http://www.nitt.edu)

Phone:0431-2503457

## e-Procurement Notice

**Ref:** NITT/Hospital/2019–2020/02 /dated 24.04.2020

Online tenders are hereby invited **in two cover system** from Reputed State / National level organizations / Companies / Trust / Societies / Consortium / Firms engaged in Operation and Maintenance of Ambulance services for a period of 1 (One) year. Depending upon the performance, the management of NIT, Tiruchirappalli may accept the offer of renewal of the contract for a further period of 2 years (1+1 year on annual basis).

Bidders can download complete set of bidding documents from e- procurement Platform <https://eprocure.gov.in/eprocure/app> from **24.04.2020 (03.00 PM)** onwards. Bidders need to submit the bids online for the interested items by uploading all the required documents through <https://eprocure.gov.in/eprocure/app>.

**Last Date/ Time for receipt of bids through e-procurement is:** 21.05.2020 (03.00 PM) (Server time).

Late bids shall not be accepted.

For further details regarding Tender Notification & Specifications, please visit website: <https://eprocure.gov.in/eprocure/app> and [www.nitt.edu](http://www.nitt.edu)

### CRITICAL DATE SHEET

<b>Published Date</b>	<b>24.04.2020 (03.00 PM)</b>
<b>Bid Document Download Start Date</b>	<b>24.04.2020 (03.00 PM)</b>
<b>Clarification Start Date</b>	<b>Not Applicable</b>
<b>Clarification End Date</b>	<b>Not Applicable</b>
<b>Pre bid meeting</b>	<b>06.05.2020 (3.00 PM)</b>
<b>Venue of Pre-bid Meeting</b>	<b>Office of Dean(P&amp;D), NITT</b>
<b>Bid Submission Start Date</b>	<b>06.05.2020 (03.00 PM)</b>
<b>Bid Submission End Date</b>	<b>21.05.2020 (03.00 PM)</b>
<b>Bid Opening Date(Technical)</b>	<b>22.05.2020 (03.00 PM)</b>
<b>Bid Opening Date(Price)</b>	Will be announced after technical evaluation

**Note :\***Bidder should submit the EMD as specified in the tender. The hard copy should be posted / couriered / deposit in person to the Central Dispatch section / Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer.

This E-Tender is created and published as per the Recommendations and Approval of the respective Purchase Committee. For further queries / clarifications please contact the contact details available in Section III. BID Data Sheet (BDS).

# NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 15

## DEPARTMENT OF HOSPITAL

Web: [www.nitt.edu](http://www.nitt.edu)

Phone: 0431-2503457



## Tender Document (e - Procurement)

Tender Notification No	:	NITT/HOSPITAL/19-20/02
Date	:	24.04.2020
Name of the Department	:	HOSPITAL, NITT
Name of the component	:	Hiring 01 No. Hi-tec Ambulance for NITT
Quantity required	:	1 No.
EMD Amount	:	Rs.60000/- (Rupees sixty thousand only)
Last Date & Time of submission of Tender	:	21.05.2020 (03.00 PM)
Address for submission of Tender	:	THE DIRECTOR, NIT TIRUCHIRAPPALLI- 15 KIND ATTENTION TO: Dr. Priyanka, Medical Officer, NITT
Date & Time of opening of technical bid	:	22.05.2020 (03.00 PM)

## Checklist for Bid / Tender Submission

(The following check-list must be filled in and submitted with the bid documents)

Sl.No.	Particulars	Yes / No
1.	Have you attached the techno commercial unpriced bid form duly filled in appropriately?	
2.	Have you attached a copy of the last three years audited balance sheet of your firm	
3.	Have you attached the copy of the GSTIN certificate	
4.	Have you attached the details of the income tax return certificate, proof of manufacturing unit/ dealership letter/ general order suppliers and copy of Central / State sales tax registration certificate?	
5.	Have you attached the copies of relevant work orders from Govt. Depts. / PSUs and Central Autonomous Bodies?	
6.	EMD: Have you submitted EMD asked for (as specified in BDS). <b>If the bidder requesting EMD exemption, kindly attached copy of the NSIC / MSME (Certificate should be visible, if not visible the bidder will be disqualified).</b>	
7.	Have you uploaded filled in Technical forms in Excel sheet	
8.	Have you uploaded the PDF of filled in Technical form of Excel Sheet	
9.	Have you submitted samples of all items indicated in the respective schedule of requirements at the address of tender inviting authority within due date.(if applicable as mentioned in the specification and requirements)	
10.	Have you enclosed the schedule of requirement indicating the make offered without indicating the pricing components along with the techno commercial unpriced bid?	
11.	Have you submitted the bids both techno commercial unpriced and priced bid separately for each tender?	
12.	Have you enclosed the statement of deviations from financial terms and conditions, if any?	
	<b>PRICE BID</b>	
1.	Have you signed and attached the priced bid form?	
2.	Have you attached the schedule of requirements duly priced?	

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## **Part - 1 Bidding Procedures**

## Section I: Instructions for Online Bid Submission

Instructions to the Bidders to submit the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>.

1. Possession of valid Digital Signature Certificate (DSC) and enrollment / registration of the contractors / bidders on the e-Procurement/e-tender portal are prerequisite for e-tendering.
2. Bidder should register for the enrollment in the e-Procurement site using the “[Online Bidder Enrollment](#)” option available on the home page. Portal enrollment is generally free of charge. During enrollment / registration, the bidders should provide only valid and true information including valid E-mail id. All the correspondence shall be made directly with the contractors/bidders through E-mail id as registered.
3. Bidder need to login to the site through their user ID / password chosen during enrollment / registration.
4. Then the Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by SIFY / TCS / n-Code / e-Mudra or any other Certifying Authority recognized by Controller of Certifying Authorities (CCA) India on e-Token / Smart Card, should be registered.
5. The registered DSC only should be used by the bidder in the transactions and should ensure safety of the same.
6. Contractor / Bidder may go through the tenders published on the site and download the tender documents/schedules for the tenders.
7. After downloading / getting the tender document/schedules, the Bidder should go through them carefully and then submit the documents as required, otherwise bid will be rejected.
8. Any clarifications may be sought online through the tender site, through the contact details or during pre-bid meeting if any. Bidder should take into account the corrigendum if any published before submitting the bids online.
9. Bidder may log in to the site through the secured login by the user id / password chosen during enrolment / registration and then by submitting the password of the e-Token / Smartcard to access DSC.
10. Bidder may select the tender in which he / she is interested in by using the search option and then move it to the ‘my tenders’ folder.
11. From my tender folder, he / she may select the tender to view all the details uploaded there.
12. It shall be deemed that the bidder has read and understood all the terms and conditions before submitting the offer. Bidder should go through the tender schedules carefully and upload the documents as asked; otherwise, the incomplete bid shall stand rejected.
13. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and ordinarily it shall be in PDF /xls / rar / jpg / dwf formats. If there is more than one document, all may be clubbed together and provided in the requested format. Bidders Bid documents may be scanned with 100 dpi with black and white option. It is advisable that each document to be uploaded through online for

the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip / rar and the same if permitted may be uploaded. The file size being less than 1 MB the transaction uploading time will be very fast.

14. The Bidders can update well in advance, the documents such as certificates, annual report details etc., under “My Space option” and these can be selected as per tender requirements and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of bids.
15. Bidder should submit the Tender Fee / EMD as specified in the tender. The hard copy should be posted / couriered / given in person to the Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer.
16. The bidder has to select the payment option as offline to pay the Tender FEE / EMD as applicable and enter details of the instruments.
17. The details of the DD / any other accepted instrument, physically delivered, should tally with the details available in the scanned copy and the data entered during bid submission time, otherwise submitted bid shall not be acceptable or liable for rejection.
18. While submitting the bids online, the bidder shall read the terms and conditions and may accept the same to proceed further to submit the bid packets.
19. The bidder has to digitally sign and upload the required bid documents one by one as indicated. Very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read, understood and agreed with all clauses of the bid document including General conditions of contract without any exception.
20. The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid may be rejected.

#### **PRICE BID**

21. If the price bid format is provided in a spread sheet file like BoQ\_xxxx.xls, the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Priced-bid / BOQ template shall not be modified / replaced by the bidder; else the bid submitted is liable to be rejected for the tender.
22. The bidders are advised to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission due date and time (as per Server System Clock). The TIA shall not be held responsible for any delay or the difficulties faced during the submission of bids online by the bidders.
23. The time settings fixed in the server side and displayed at the top of the tender site, shall remain valid for all actions of requesting, bid submission, bid opening etc., in the e-Tender system. The bidders should follow such time during bid submission.

#### **EVIDENCE FOR ONLINE BID SUBMISSION**

24. After the bid submission (i.e. after Clicking “Freeze Bid Submission” in the portal), the acknowledgement number indicated by the system should be printed by the bidder and

kept as a record of evidence for online submission of bid for the particular tender and also be used as entry pass to participate in the bid opening.

25. All the data being entered by the bidders would be encrypted using Public Key Infrastructure (PKI) encryption techniques to ensure the secrecy of the data. The data entered is not retrievable by unauthorized persons during the bid submission and until the time of bid opening by any person.
26. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers' public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
27. The confidentiality of the bids is maintained with the use of Secured Socket Layer (SSL) 128 bit encryption technology. Data storage encryption of sensitive fields is done.
28. The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) exit option in the browser.
29. For any queries regarding e-Tendering process, the bidders may contact at address as provided in the tender document. Parallely for any further queries, the bidders are advised to contact over phone : **1-800-233-7315, 0120-4001005** or send an E-mail to [cppp-nic@nic.in](mailto:cppp-nic@nic.in).

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## Section II : Instructions to Bidders

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## Section II. Instructions to Bidders

	<b>A.General</b>	
<b>1</b>	<b>SCOPE OF BID</b>	
		Hiring of 01 No. Hitec Ambulance as per specifications. Throughout these Bidding Documents unless the context otherwise requires:" a. "in writing " means communicated in written form (e.g. by mail, e-mail, fax, telex) with proof of receipt; b. " Institution means National Institute of Technology, Tiruchirappalli'
<b>2</b>	<b>ELIGIBLE BIDDERS</b>	
	2.1	A Bidder may be a firm, a company, a Limited Liability Partnership (LLP), a government-owned entity or any combination of such entities in the form of a Joint Venture (JV) under an existing agreement.
	2.2	In the case of a joint venture, all members shall be jointly and severally liable for the execution of the contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the bidding process and during the contract execution in the event the JV is awarded the contract.
	2.3	A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:
	a	directly or indirectly controls, is controlled by or is under common control with another Bidder; or
	b	receives or has received any direct or indirect subsidy from another Bidder; or
	c	has the same legal representative as another Bidder; or
	d	has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process; or
	e	Participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid shall result in the disqualification of all Bids in which such Bidder is involved. This, however does not limit the inclusion of the same subcontractor in more than one bid; or
	f	Has a close business or family relationship with a professional staff of the Purchaser (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding documents or specifications of the contract, and/or the bid evaluation process of such contract; or (ii) would be involved in the implementation or supervision of such contract.
	2.4	A foreign firm and individual may be ineligible if as a matter of law or regulations, India prohibits commercial relations with the country of bidder.
	2.5	A Bidder shall provide such evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.
<b>3</b>	<b>CONTENTS OF BIDDING DOCUMENT</b>	

	3.1	The Bidding Documents consist of Parts 1, 2, 3 and 4, which include all the Sections indicated below, and should be read in conjunction with any Addenda if any, issued.
	3.2	The Invitation for Bids issued by the Purchaser is not part of the Bidding Document.
	3.3	Unless obtained directly from the Purchaser, the Purchaser is not responsible for the completeness of the document, responses to requests for clarification, the Minutes of the pre- Bid meeting (if any), or Addenda to the Bidding Document. In case of any contradiction, documents obtained directly from the Purchaser shall prevail.
	3.4	The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents and to furnish with its Bid all information or documentation as required by the Bidding Documents.
<b>4</b>	<b>CLARIFICATION OF BIDDING DOCUMENTS, SITE VISIT, PRE-BID MEETING</b>	
	4.1	A Bidder requiring any clarification of the Bidding Document shall contact the Purchaser in writing at the Purchaser's address specified in the BDS or raise its enquiries during the pre-bid meeting if provided. The Purchaser will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of bids within a period specified in the BDS.
	4.2	The Bidder is advised to visit and examine the project site and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for procurement of Goods. The costs of visiting shall be at the Bidder's own expense
	4.3	The Bidder's designated representative is invited to attend a pre-bid meeting. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
	4.4	The Bidder is advised to submit any questions in writing to reach the Purchaser not beyond one week preceding the meeting.
	4.5	Minutes of the pre-bid meeting, if applicable, including the text of the questions asked by Bidders, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Documents. Any modification to the Bidding Documents that may become necessary as a result of the pre-bid meeting shall be made by the Purchaser exclusively through the issue of an addendum and not through the minutes of the pre-bid meeting. Absence in the pre-bid meeting shall not be a cause for disqualification of a Bidder.
<b>5</b>	<b>Amendment of Bidding Document</b>	
	5.1	At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by corrigendum. In case of e-procurement, corrigendum/amendment shall be published on <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> .
	5.2	Any addendum issued shall be part of the Bidding Documents and shall be communicated in writing to all who have obtained the Bidding Documents from the Purchaser. The Purchaser shall also promptly publish the addendum on the Purchaser's webpage.
	5.3	The Purchaser may, at its discretion to give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, extend the deadline for the submission of bids.
<b>C.PREPARATION OF BIDS</b>		
<b>6</b>	<b>LANGUAGE OF BID :</b>	
	The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in the language specified in the BDS. 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 the language specified in the BDS, in which case, for purposes of interpretation of the Bid, such translation shall govern.
<b>7</b>	<b>Documents Comprising the Bid</b> The tender/Bid shall be submitted online in two part, viz., Technical Bid and Commercial Bid.
7.1	<b>TECHNICAL BID</b> The following documents are to be scanned and uploaded as part of the Technical Bid as per the tender document:
a	Scanned copy of Tender Forms (Techno Commercial Un-Priced Bid) and Tender Acceptance Letter,);
b	Scanned copy of the completed Schedules
c	Scanned copy of Bid Security or copy of proof for submission of Tender Document Fee/ Earnest Money Deposit etc.;
d	Scanned copy of written confirmation authorizing the signatory of the Bid to commit the Bidder;
e	Scanned copy of documentary evidence establishing the Bidder's qualifications to perform the contract if its bid is accepted and the Bidder's eligibility to bid;
f	Scanned copy of <ul style="list-style-type: none"> <li>i. documentary evidence, that the Goods and Related Services to be supplied by the Bidder are of eligible origin and</li> <li>ii. conform to the Bidding Documents, and</li> <li>iii. any other document required in the BDS;</li> </ul>
g	Scanned copy of Pre-Qualification Details as per Section-IV like PAN/GST etc.
h	EMD Returning Form.
i	Mandate Form For Electronic Fund Transfer/RTGS Transfer.
j	Technical Bid.  The Technical specifications format is s available in Excel sheet <b>TECHNICAL.xls</b> in this E-Tender document at <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> . Bidders are advised to download <b>TECHNICAL.xls</b> and fill their specifications in the prescribed column and upload the same in the Technical bid along with other required documents. The hard copy of the filled in Technical specifications (Excel) to be scanned and to be uploaded in PDF.
7.2	<b>COMMERCIAL BID</b> The commercial bid comprises of: <ul style="list-style-type: none"> <li>i. Scanned copy of Tender Form (Price Bid)</li> <li>ii. Price BID in the form of BoQ_XXXXX.xls.</li> <li>iii. Scanned copy of item wise break up of price bid.</li> </ul> The Price bid format is provided a BoQ_XXXXX.xls along with this Tender Document at <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> . Bidders are advised to download this BoQ_XXXXX.xls and quote their offer/rates in the prescribed column. Bidders can quote Basic Price in INR or CURRENCY (for other than INR) but it is mandatory to quote taxes/levies in INR only, in the prescribed column and upload the same in the commercial bid.
7.3	The Bidder shall furnish in the Tender Forms information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.
<b>8</b>	<b>Tender Forms (Technical and Price) and Price Schedule(BOQ)</b> Tender Forms and Price Schedules (Bill of Quantity-BOQ) shall be prepared using the relevant forms furnished in Section IX, Bidding Forms and BOQ provided. The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
<b>9</b>	<b>Alternative Bids</b>

		Unless otherwise specified in the BDS, alternative bids shall not be considered
<b>10</b>	<b>10.1</b>	<b>Bid Prices and Discounts</b> The prices and discounts quoted by the Bidder in the Tender Forms and in the Price Schedules (BOQ) shall conform to the requirements specified as under.
	a	All lots (contracts) and items must be listed and priced separately in the Price Schedules (BOQ).
	b	The price to be quoted in the Tender Forms shall be the total price of the bid, excluding any discounts offered.
	c	The Bidder shall quote any discount and indicate the methodology for their application in the Tender Forms.
	d	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. 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.
	<b>10.2</b>	Bids are being invited for individual lots (contracts) or for any combination of lots (packages). Unless otherwise specified in the BDS, prices quoted shall correspond to 100% of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer discounts for the award of more than one Contract shall specify in their bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted provided the bids for all lots (contracts) are opened at the same time.
	<b>10.3</b>	Prices shall be quoted as specified in each Price Schedule (BOQ) as provided. The disaggregation 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. Similarly, the Bidder may obtain insurance services from any eligible country. Prices shall be entered in the following manner:
	a	For Goods manufactured in India: 1. GST payable on the Goods, if the contract is awarded to the Bidder; and 2. The price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) specified in the BDS ;
	b	For Goods manufactured outside India, to be imported 1. The price of the Goods quoted under Carriage and Insurance Paid (CIP) Model up to named place of destination in India as specified in the BDS; 2. The price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) specified in the BDS;
	c	For 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: 1. The price of each item comprising the Related Services (inclusive of any applicable taxes)
<b>11</b>		<b>Currencies of Bid and Payment:</b> The currency(ies) of the bid and the currency(ies) of payments shall be as specified in the BDS. The Bidder shall quote in Indian Rupees.
<b>12</b>	<b>12.1</b>	<b>Documents Establishing the Eligibility and Qualifications of the Bidder</b>

		To establish Bidder's their eligibility, Bidders shall complete the Tender Form (Techno Commercial Un-Priced Bid & Priced Bid), included in Section-IX, Bidding Forms.
	12.2	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 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 IX, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in India;
		b that, if required in the BDS, in case of a Bidder not doing business within India, the Bidder is or will be (if awarded the contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications;
<b>13</b>	13.1	<b>Period of Validity of Bids</b> 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.
	13.2	In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses there to shall be made in writing. A Bidder may refuse the request without forfeiting its Earnest Money Deposit (EMD). A Bidder acceding to the request will neither be required nor permitted to modify the bid.
<b>14</b>	14.1	<b>Bid Security</b> The Bidder shall furnish as part of its bid, a bid security, as specified in the BDS, in original form the amount and currency as specified in the BDS.
	14.2	If a bid security is specified, the bid security shall be a
		a Demand Draft
		b An unconditional guarantee issued by a Bank. of a reputed source from an eligible country. If the unconditional guarantee is issued by a financial institution located outside India, the issuing financial institution shall have a correspondent financial institution located in India to make it enforceable The bid security shall be valid for forty five (45) days beyond the original validity period of the bid, or beyond the extended period.
	14.3	If a Bid Security is specified, any bid not accompanied responsive Bid Security, shall be rejected by the Purchaser as non-responsive.
	14.4	The successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the contract and furnished the required performance security.
	14.5	The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the contract and furnished the required performance security.
	14.6	The Bid Security of the bidder may be forfeited or the Bid Securing Declaration executed:
		a if he withdraws from the bid during the period of bid validity specified by the Bidder on the Tender Forms, or any extension thereto provided by the Bidder ; or
		b if he being successful Bidder fails to: <ul style="list-style-type: none"> <li>i. sign the Contract; or</li> <li>ii. furnish a performance Security</li> </ul>
	<b>D.SUBMISSION AND OPENING OF BIDS</b>	
<b>15</b>		<b>Sealing and Marking of Bids:</b> The Bidder shall submit the bids electronically, through the e-procurement system ( <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> ). Any document submitted through any other means will not be considered as part of the Bid except for the Originals as asked for in this tender.

16		<b>Deadline for Submission of Bids:</b> The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents, 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.
17		<b>Late Bids:</b> The e-Procurement system would not allow any late submission of bids after due date and time as per server system. After electronic online proposal submission, the system generates a unique identification number which is time stamped. This shall be treated as acknowledgement of the proposal submission
18		<b>Withdrawal, Substitution, and Modification of Bids:</b> A Bidder may withdraw, substitute, or modify its bid on the e-procurement system before the date and time specified but not beyond. No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Tender Forms or any extension thereof Modification/Withdrawal of the Bid sent through any other means shall not be considered by the Purchaser.
19	19.1	<b>Bid Opening:</b> The Purchaser shall open the bids as per electronic bid Opening procedures specified in Central Public Procurement Portal (CPPP) at the date and time specified. Bidders can also view the bid opening by logging on to the e-procurement system. Specific bid opening procedures are laid down at <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> under the head "Bidders Manual Kit". The tenderer/bidder will be at liberty to be present either in person or through an authorized representative at the time of opening of the Bid or they can view the bid opening event online at their remote end. Price Bids of only those tenderers shall be opened whose technical bids qualify.
	19.2	The withdrawn bid will be available in the system therefore will be considered, if bidder once withdraws the bid then he will not be able to participate in the respective tender again. Modification to the bid shall be opened and read out with the corresponding bid. Only bids that are opened and read out at bid opening shall be considered further.
	19.3	The Purchaser shall prepare a record of the bid opening that shall include; the name of the Bidder; whether there is a withdrawal, substitution, or modification; the Bid Price including any discounts and alternative bids; and the presence or absence of a bid security, if one was required. The Bidders' representatives who are present in the office of the Purchaser to witness the bid opening shall be requested to sign the record. The omission/refusal of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be made available on the e-procurement system.
		<b>E. Evaluation and Comparison of Bids</b>
20	20.1	<b>Confidentiality:</b> Information relating to the evaluation of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not officially concerned with the bidding process until information on Contract Award is communication to all Bidders.
	20.2	No Bidder shall contact the purchaser on any matter relating to its bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Purchaser it should be done in writing.
	20.3	Any effort by a Bidder to influence the purchaser in its decisions on bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidder's bid.
21	21.1	To assist in the examination, evaluation, comparison of the bids, and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or

		permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids.
	21.2	If a Bidder does not provide clarifications of its bid by the date and time set in the Purchaser's request for clarification its bid may be rejected.
<b>22</b>	22.1	<b>Determination of Responsiveness:</b> The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself.
	22.2	A substantially responsive Bid is one that meets the requirements of the Bidding Documents without material deviation, reservation, or omission.
	22.3	The Purchaser shall examine the technical aspects of the bid submitted in accordance with instructions specified in tender document, in particular, to confirm that all requirements enumerated in the 'Schedule of Requirements' Section-VI have been complied with, without any material deviation or reservation or omission.
	22.4	If a bid is not responsive to the requirements of Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be made responsive by correction of the material deviation, reservation or omission.
<b>23</b>		<b>Conversion to Single Currency:</b> For evaluation and comparison purposes, the currency(ies) of the Bid shall be converted in a single currency as specified in the BDS.
<b>24</b>		<b>Margin of Preference:</b> Unless otherwise specified in the BDS, a margin of preference shall not apply.
<b>25</b>	25.1	<b>Evaluation of Bids:</b> The Purchaser shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.
	25.2	To evaluate a Bid, the Purchaser shall consider the following:
	a	Evaluation will be done for Items or Lots (contracts), as specified in the BDS; and the Bid Price.
	b	price adjustment due to discounts offered;
	c	converting the amount resulting from above, if relevant, to a single currency
	d	price adjustment due to quantifiable nonmaterial nonconformities in;
	25.3	The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.
	25.4	The Purchaser's evaluation of a bid shall exclude and not take into account:
	a	In the case of Goods manufactured in the India, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder;
	b	in the case of Goods manufactured outside India, already imported or to be imported, customs duties and other import taxes levied on the imported Good, sales and other similar taxes, which will be payable on the Goods if the contract is awarded to the Bidder;
	c	any allowance for price adjustment during the period of execution of the contract, if provided in the bid.
	25.5	The Purchaser's evaluation of a bid may require the consideration of other factors, in addition to the Bid Price quoted. 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.
<b>26</b>		<b>Comparison of Bids:</b> The Purchaser shall compare the evaluated prices of all substantially responsive bids established to determine the lowest evaluated bid. The comparison shall be on the basis of CIP-Carriage and Insurance Paid to (place of destination) prices for imported goods and EXW – Ex Works (named place of delivery) prices, plus cost of inland transportation and insurance to place of destination, for goods manufactured within India, together with prices for any required installation, training, commissioning and other services. The

		evaluation of prices shall not take into account custom duties and other taxes levied on imported goods quoted CIP and sales and similar taxes levied in connection with the sale or delivery of goods.
<b>27</b>	27.1	<b>Qualification of the Bidder:</b> The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid meets the qualifying criteria.
	27.2	The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder.
	27.3	An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the bid, in which event the Purchaser shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder's qualifications to perform satisfactorily.
<b>28</b>		<b>Institutes Right to Accept any Bid and to Reject any or all bids:</b> The Institute 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. In case of annulment, all bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.
<b>F.AWARD OF CONTRACT</b>		
<b>29</b>		<b>Award Criteria:</b> The Purchaser shall award the Contract to the Bidder whose bid has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided the Bidder is determined to be qualified to perform the Contract satisfactorily.
<b>30</b>		<b>Purchasers Right to vary Quantities at Time of Award:</b> 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.
<b>31</b>	31.1	<b>Notification of Award:</b> 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. The notification letter (hereinafter and in the Conditions of Contract and Contract Forms called the "Letter of Acceptance") shall specify the sum that the Purchaser will pay the Supplier in consideration of the supply of Goods (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price"). At the same time, the Purchaser shall also notify all other Bidders of the results of the bidding.
	31.2	Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.
	31.3	The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after notification of award, requests in writing the grounds on which its bid was not selected.
<b>32</b>	32.1	<b>Signing of Contract:</b> Promptly after notification, the Purchaser shall send the successful Bidder the Contract Agreement.
	32.2	Within twenty-eight (28) days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.
	32.3	Notwithstanding anything contained in clause 32.2, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Purchaser, or to the use of the products/goods, systems or services to be supplied, where such export restrictions arise from trade regulations from a country supplying those products/goods, systems or services, the Bidder shall not be bound by its bid, always provided however, that the Bidder can demonstrate to the satisfaction of the Purchaser that signing of the Contract Agreement has not been prevented by any lack of diligence on the part of the

		Bidder in completing any formalities, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract.
<b>33</b>	33.1	<b>Performance Security:</b> Bidder shall furnish Performance security@5% of order value excluding GST within twenty-eight (28) days of the receipt of notification of award from the Purchaser.
	33.2	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 bid is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

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### **Section III. BID Data Sheet (BDS)**

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). In case of inconsistency, the provisions herein shall prevail over those in ITB.

<b>Sl. No.</b>	<b>A. General</b>
1.	The reference number of the Invitation for Bids is <b>NITT/HOSPITAL/19-20 /02 Dated : 24.04.2020</b>
2.	The Purchaser is <b>The Director, NIT Tiruchirappalli. Kind Attention To : Dr. Priyanka, Medical Officer.</b>
3.	<del>Maximum number of members in the JV shall be:-</del>

<b>Sl. No.</b>	<b>B. Contents of Bidding Documents</b>
4.	For Clarification of bid purposes only, the Purchaser's address is Hospital NIT, <b>National Institute of Technology, Tiruchirappalli, 620015</b> Attention : <b>Dr. Priyanka</b> <b>Medical Officer, Department of Hospital</b> Address : <b>National Institute of Technology, Tiruchirappalli,</b> Floor / Room number: - City : <b>Tiruchirappalli</b> ZIPCode : <b>620015</b> Country : <b>India</b> Telephone : <b>+91 431 2503457</b> E-Mail :
5.	Web page : <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>
6.	A site visit shall <b>not</b> be organized by the purchaser.
7.	A Pre-Bid meeting date and venue : <b>06.05.2020 (15.00 Hrs)</b> <b>Office of Dean P&amp;D, NITT</b>

Sl. No.	C. Preparation of Bids
1.	The language of the bid is: <b>English</b> . All correspondence exchange shall be in <b>English</b> . Language for translation of supporting documents and printed literature is <b>English</b> .
2.	The Bidder shall submit the following additional documents in its bid: <b>NA</b>
3.	Alternative Bids <b>shall not</b> be considered.
4.	The prices quoted by the Bidder <b>shall not</b> be subject to adjustment during the performance of the Contract.
5.	Place of Destination: is <b>National Institute of Technology, Tiruchirappalli, 620015</b> .
6.	Final destination : NITT Hospital, <b>National Institute of Technology, Tiruchirappalli, 620015</b> .
7.	The prices shall be quoted by the bidder in : <b>Indian Rupee / <del>Foreign Currency of Principal's Country (Preferably in Indian Rupees)</del></b> The Bidder is required to quote in Indian Rupees (INR), the portion of the bid price that corresponds to expenditures incurred in Indian Rupees(INR).
8.	Manufacturer's authorization : NA
9.	After sales service : NA
10.	The bid validity period shall be <b>120 Days</b> .
11.	EMD / Bid security Rs.60000/-shall be paid by the way of Demand Draft (DD) / Bank Guarantee (BG) in favor of The Director, National Institute of Technology, Tiruchirappalli and should be valid for a period of 45 days beyond the BID validity period. All tenders received without EMD / Bank Security shall be rejected
12.	Other types of acceptable securities: <b>NIL</b>

Sl. No.	D. Submission and Opening of Bids
1.	<p>For bid submission purposes only, the address is <b>Assistant Registrar (S&amp;P), Stores and Purchase Section, National Institute of Technology, Tiruchirappalli, 620015.</b></p> <p>Attention : <b>Dr. Priyanka, Medical Officer</b></p> <p>StreetAddress : <b>National Institute of Technology, Tiruchirappalli,</b></p> <p>City : <b>Tiruchirappalli</b></p> <p>ZIP/PostalCode : <b>620 015</b></p> <p>Country : <b>India</b></p> <p>The deadline for bid submission is:</p> <p>Date and Time : <b>21.05.2020 (03.00 PM)</b></p> <p>The electronic bidding opening procedures shall be as given in Section I - Instructions for Online Bid Submission.</p>
2.	<p>The bid opening shall take place at: <b>Stores and Purchase Section, National Institute of Technology, Tiruchirappalli-620015.</b></p> <p>Street Address : <b>National Institute of Technology, Tiruchirappalli</b></p> <p>Floor / Room number : <b>Administrative Block</b></p> <p>City : <b>Tiruchirappalli</b></p> <p>Country : <b>India</b></p> <p>Date and Time : <b>22.05.2020 (03.00 PM)</b></p> <p>The electronic bidding opening procedures shall be as given in Section I - Instructions for Online Bid Submission.</p>

Sl. No.	E. Evaluation and Comparison of Bids
1.	<p>The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is: <b>Indian Rupees</b></p> <p>The source of exchange rate shall be: <b>Reserve Bank of India.</b></p> <p>The date for the exchange rate shall be: <b>Last day for submission of Bids.</b></p>
2.	A margin of domestic preference shall apply.
3.	<p>Evaluation will be done for concern equipment/service:</p> <p><b><i>Note: Bids will be evaluated on lowest cost basis and the Contract will comprise the item(s) awarded to the successful Bidder.</i></b></p>

Sl. No.	F. Award of Contract
4.	<p>The maximum percentage by which quantities may be increased is: <i>NA</i></p> <p>The maximum percentage by which quantities maybe decreased is: <i>NA</i></p>

#### Section IV. Prequalification

1. A Declaration by the firm that it has never been black-listed must be attached along with the Bid, failing which the Bid shall be rejected.
2. Bidder should own at least 01 No. Ambulance in their name. Proof of RC Book, Insurance certificate, valid permit copies etc. to be submitted along with technical bid.
3. Bidder should have experience of three years in providing ambulance services to any of the reputed GOVT/PSU's/Hospitals/ Educational Institutions etc. proof to be submitted.
4. Profile of each Bidder and past experience in operation and maintenance of Ambulance (certificates to be enclosed),
5. List of other Govt. Departments, Public Sector units and Central Autonomous Bodies for which the bidder is providing or having the similar type of contracts and a certificate regarding the satisfactory performance of the contract to be furnished.
6. True copy of Permanent Account Number.
7. The average annual turnover of the bidder in the preceding three years shall be 15 Lakhs and above.
8. Copy of the last three years audited balance sheet of your firm for proof.
9. Details of Goods and Service Tax (GSTIN) along with a copy of certificate to be attached.
10. The Firm shall be registered/ incorporated in India (Documentary proof such as copy of IT return to be specified) and should have a registered regional office functioning in Trichy.

## Section V. Institute against the Corrupt and Fraudulent Practices

Institute strictly adheres to its policy against corruption and requires that bidders and their agents, subagents, sub-contractors, suppliers etc. shall not indulge in any kind of corrupt practices, fraudulent practices, collusive practices, coercive practices, obstructive practices or other kinds of corruption declared as crimes under Indian law.

- a) If bidder or their agents, subagents, sub-contractors, suppliers etc. are found, directly or indirectly, involved in such practices, bid or agreement and execution thereof at any stage may be rejected or cancelled as the case may be by the Institute and besides it Institute may initiate legal actions including civil and criminal proceeding.

For the purpose of this provision the terms are defined as follows:

- (i) "Corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party ;<sup>1</sup>
  - (ii) "Fraudulent Practices" is any act or omission including a misrepresentation which knowingly or recklessly made to mislead another party to obtain financial or other benefit or to avoid an obligation ;<sup>2</sup>
  - (iii) "Collusive Practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party ;<sup>3</sup>
  - (iv) "Coercive Practice" 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 ;<sup>4</sup>
  - (v) "Obstructive Practice" is deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede an 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.
- b) Besides actions under clause (a) Institute may also take action to blacklist such bidder either indefinitely or for a specified period.

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<sup>1</sup> For the purpose of this sub-paragraph, "*another party*" refers to a public official acting in relation to the procurement process or contract execution. In this context, "*public official*" includes Institute staff and employees of other organizations taking or reviewing procurement decisions.

<sup>2</sup> For the purpose of this sub-paragraph, "*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.

<sup>3</sup> For the purpose of this sub-paragraph, "*party*" refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other's bid prices or other conditions.

<sup>4</sup> For the purpose of this sub-paragraph, "*party*" refers to a participant in the procurement process or contract execution.

## Part - 2

# Supply Requirements

### Introduction

National Institute of Technology Tiruchirappalli (NITT) is a premier technical institution and fully funded by the Government of India. NITT is situated on Tiruchirappalli – Thanjavur National Highway at a distance of 21 km from Tiruchirappalli railway junction. In order to achieve a more productive work force, NITT desires to utilize the services of reputed private / Govt. agencies in certain area of its functioning. In this regard, the NITT has decided to Hire a **Hi-Tech Ambulance -AC Tempo Traveler or equivalent or better - 2018 and above model on Contract** from reputed and well experienced agencies for 24\*7 services on contract basis, for a period of one year. For the selected service provider, initial trial period of 3 months will be given and on successful completion of which confirmation of contract for balance period will be issued. The agencies that comply with the commercial terms and conditions of this document shall be eligible to apply. The agencies representative(s) may visit the Institute Hospital for visiting the hospital and appraisal of work involved between 10:00a.m. to 05:00pm on \*\*/\*\*/\*\*\*\* (with prior information to the concern hospital staff (Contact No: 0431-2503860). Completed bids with relevant documents may be submitted to The Director, NITT and the committee reserves the right to shortlist / reject any or all quotations without assigning any reasons.

## Details of Hospital

The Hospital is a Primary Care Center catering to about 300 faculty members, 6800 students and 300 staff. There are doctors with various specializations along with other technical manpower. The hospital houses Pradhan Mantri Bhartiya Janaushadhi kendra pharmacy run by P.R Enterprise and clinical laboratory run by Hindustan Lifecare Limited. In addition, the hospital extends various medical facilities such as injections, IV fluids, Vaccination (TT, ARV), Nebulizer, ECG, multipara monitor, defibrillator etc., The hospital has a minor OT and well established other infrastructure.

## COMMERCIAL TERMS & CONDITIONS

1. **Name of work:** Hiring **Hi-Tech Ambulance - AC Tempo traveler or equivalent or better – 2018 and above model on contract** at NIT Tiruchirappalli.
2. **Earnest Money:** Rs.60,000/- (Rupees sixty thousand only) to be deposited as interest free Earnest Money along with the tender document only in the form of demand draft on any Nationalized Bank having its branch at Tiruchirappalli, drawn in favour of NIT, Tiruchirappalli, payable at Tiruchirappalli. Earnest Money deposited in any other form will not be accepted and the tender will be rejected. If the lowest successful bidder doesn't accept the award of contract the Earnest Money will be forfeited automatically.
3. **Security Deposit** of 5% of the PO value (excluding GST) is to be deposited within 28 (Twenty eight) days from the date of receipt of award of contract. Security deposit is refundable without interest on termination of agreement within 90 (Ninety) days from the date of termination / expiry after deducting all dues against the agreement. The receipt relating to security deposit to be produced by the selected service provider well in advance before making the agreement.
4. **Duration of Agreement:** 1 (One) year initially and may be extended every year for another 2 (Two) years, on sole discretion of The Director, based on satisfactory performance, on the same rates, terms and conditions. OR at a rate mutually agreed upon for the service, which will not be more than 10% of the original contract amount.
5. **Termination:** The Director NIT, Tiruchirappalli solely reserves the right to terminate the agreement at any time without showing any reason with minimum one month notice period.
6. The Director reserves the right not to accept the lowest or any tender without showing any reason.
7. Trade license, labor license, vehicle license, permit, pollution control board certificate and Income tax statement for last three years, Sales tax, and VAT clearance certificates are to be submitted along with the tender documents.
8. Tender should be free from correction and erasures. Corrections or over writings, if any, must be attested. All amounts shall be indicated both in words as well as figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.
9. If any loss / damage incurs during the tenure of the agreement to the movable/immovable properties

of the Institute Hospital or the Ambulance and its equipment, the cost of the same to be borne by the service provider.

10. The monthly rate quoted should be inclusive of one thousand kilometers per month. The service provider is required to also quote the rate per kilometer beyond the monthly fixed first thousand kilometers.
11. Service provider is responsible for maintaining the ambulance and its equipment in working condition and adequate fuel and supplies at all times. The cost of the fuel and oxygen supply should be borne by the service provider.
12. In case of breakdown/work shop service in the Ambulance while in operation, the Ambulance should be replaced by an alternate equivalent ambulance immediately by the service provide.
13. Service provider shall maintain the neatness, cleanliness and hygienic condition inside the ambulance. Fumigation, regular cleaning/internal fabrication should be done periodically.
14. The vehicles along with driver and a trained Emergency Medical Technician (a paramedical staff who will be able to operate all the instruments installed in the ambulances) should be provided on 24 x 7 basis.
15. The rates quoted should be inclusive of wages to the Driver, Emergency Medical Technician (Paramedical Staff), Fuel Charges, Maintenance Charges, Charges for consumables or and any other charges for providing vehicle in a good running condition.
16. Emergency Medical Technicians/ paramedic staff has to be experienced in service of at least two years. Staffs who are working in the ambulance through the service provider / agency have to adhere the works allotted by the institute authorities. They are also expected to work in the NITT hospital during their shifts and should assist in all works of Hospital management which are assigned by the Medical Officers. Service provider shall abide by the rules established by the Institute.
17. Service provider shall maintain register for the details of the patient with date, trip start and trip end time, distance travelled and other particulars regarding use of consumables and equipment as required by the medical officer in charge and submit a report to the medical officer in charge on a daily basis.
18. The service provider shall be solely responsible for any claim whatsoever by any of its employees relating to workmen's compensation, PF, ESI, Gratuity or any other statutory or contractual payment or any violation of provisions of any law or agreement during the periods of agreement or at any other subsequent date.
19. Bio data with a photograph of all the employees must be handed over to the medical officer in charge (To be submitted along with first monthly bill).
  - i. Drivers – 1 in each shift
  - ii. Paramedical Staff (Emergency Medical Technician) – 1 in each shift
  - iii. Service providers must follow the following shift time,

First Shift	06:00 a.m. to 02:00 p.m.
Second Shift	02:00 p.m. to 10:00 p.m.
Third Shift	10:00 p.m.to 06:00 a.m.

(Bidder to certify payment of minimum wages to their staffers as per the Tamil Nadu (TN) Minimum Wages Act)

20. Service provider will provide proper duty uniform white and white for staff nurse, white shirt and khakhi pant for driver as per the institute authority order and identity badges to the employees recruited by

the organization and the staff must be in uniform during working hours. Name badges also to be worn by staff for identification.

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21. Any representative of the Director / Registrar/ Members of the Hospital Advisory Committee for Hospital shall have the power to inspect the ambulance and its services at any point of time.
22. The submission of the tender by a service provider implies that he/she has read the entire tender document and has made him/her aware of the site conditions, scope and specification of work to be performed and of the local conditions and other factors, which have a bearing on the execution of work. The Institute, therefore, after the acceptance of bids shall not pay any extra charges for any reasons, whatsoever in case the service provider is found on to have misjudged the tender specifications, requirements and site conditions.
23. Agreement for offer of engagement to be made between the Institute and the selected service provider on Rs. 100/- (Rupees One Hundred Only) Non-judicial stamp paper. Proforma of agreement is attached.
24. The agreement will automatically terminate on expiry of the period of agreement and the service provider will hand over any material held by them to the Institute authority immediately in the similar condition in which they have accepted the same.
25. Rates, terms and conditions of contract quoted, once accepted by NITT shall not be altered during the tenure of the contract for any reason and shall be valid till the expiry of contract. There shall not be any price increase in the rates quoted during the period of contract. The contract can be terminated by giving a notice of one month on either side.
26. All disputes to be settled within the jurisdiction of Tiruchirappalli court and Madurai bench of Madras High Court.

**27. CONDITIONS FOR THE VEHICLE**

- a) After award of contract, successful bidder shall have to commission the vehicle services within one month or otherwise their EMD amount will be forfeited. The vehicle deployed should be in the name of firm/bidder.
- b) The Vehicle should have proper Registration Certificate, Road tax payment Certificate, Fitness Certificate, Valid Insurance and Pollution Certificate at the time of commissioning of the vehicle for services.
- c) The vehicle offered should conform to the Emission norms laid down by Pollution Control Board and should possess the certificate "Pollution under Control" issued from the concerned authority.
- d) The vehicles offered for hire should be free from litigation as regards ownership is concerned and driver should not possess tainted history as rash driving, negligence of traffic rule etc.
- e) The vehicles should be serviced regularly and timely at the sole cost of the Tenderer / Contractor. All wear and tears shall be borne by the awardee of the contractor.
- f) The vehicle should be kept for 24 hours a day, in our premises and accordingly the Tenderer / Contractor would arrange for replacement of vehicle in case of wear and tear / temporary out of service.
- g) That ambulance should be fully equipped with oxygen cylinder & emergency kit and legally registered as an ambulance with the appropriate Transport Authority / Department and there should be comprehensive Insurance of the Ambulance including third party liabilities and the contractor should also comply with all relevant rule of Motor Vehicle Act etc.
- h) The ambulance to be provided should be in good condition and should not be more than 1 (One)

year old. And in case ambulance is not provided / not available due to break down or any other reasons the same will be hired from the market and difference of amount paid in excess will be deducted from the bill of contractor.

## **28. CONDITIONS FOR THE DRIVER**

- a) The driver of the ambulance should have valid license to drive heavy vehicle and with an experience of at least five years, with at least two years of experience in driving ambulance. The driver should not use alcohol or intoxicants during duty time and if found, a penalty will be taken and immediate replacement of driver should be done by the service provider.
  - b) The driver should not have any past history of criminal records or Alcoholism or Drug Addiction.
  - c) The tenderer / bidder would manage shifting of drivers in such a manner that the service should not be interrupted.
  - d) The legal liability arising out of Accident, if any, during the period of engagement would be borne by the tenderer / bidder. The drivers employed by the bidder should be under valid insurance cover of Accident policy for loss of life / injury etc. and compensation if any in this regard, if awarded, will be the responsibility of the bidder.
  - e) In case of non-provision of staff continuously for a period of more than one week, it shall be treated as breach of contract, and the Security Deposit shall be forfeited. EMD is also liable to be forfeited if the contractor is not prepared to provide the service after awarding the contract to him.
29. **PENALTY:** If the service provider is not able to provide the ambulance for any particular day, a penalty fee of Rs.25000/- (Rupees Twenty Five Thousand Only) shall be deducted from that month's payment.
30. There shall be a termination of contract if the service provided is not satisfactory or against the contract norms even after repeated warnings (Max warnings of two only).

## ANNEXURE I

### Hi-Tech Ambulance- A/C Tempo Traveler or equivalent or better - 2018 and above model and as per AUTOMOTIVE INDUSTRY STANDARD (AIS-125)

A **Roll-in Self Foldable Stretcher (Collapsible Cot)** of a reputed brand (preferably with capability to convert into wheel chair) should be provided for the primary patient. The said stretcher should automatically collapse when wheeled into the patient compartment over a fixed „collapsible cot base“. The “**collapsible cot base**” should preferably have a built in slot to accommodate the scoop stretcher and spine board.

A seat for the **Doctor /Paramedic** should be installed facing towards the rear of the patient compartment & it should be near to the primary patient’s head for easy accessibility. This seat shall be minimum 40 cm deep, 40 cm wide and 400cm height, measured to the top of the seat cushion and should have adequate restrains for the passenger. The seat should have two foldable armrests. When unfolded for sitting the backrest should offer a soothing angle (more than 95degree) to the base offering optimum comfort and safety to the occupants.

Seat Safety Belts and anchorages has to be provided in the ambulance service.

A **Squad bench** with backrest suitable to accommodate minimum four sitting patients or folding/scoop stretcher shall be installed along the side wall. A minimum 50mm thick high density cushion to be provided for comfort. The squad bench should be upholstered with waterproof washable cover and should have adequate restrains for the sitting patients as well as the stretcher.

**Grab Rail** made of Stainless steel pipe with proper support / fixing, for ease in entering shall be installed in the ceiling. Minimum four **IV hooks** to be provided at suitable locations to ensure proper patient care.

A **washbasin** with foot-operated tap should be provided at a suitable location. A fresh water tank of minimum 10lts capacity for the wash basin with provision for easy refilling should be installed. There should be a soap dispenser and tissue dispenser provided in the vicinity of the washbasin.

A reliable, robust & easy to use Sterillium / Bactorub / Equivalent **alcohol based hand rub dispenser** supporting standard off the shelf bottles of minimum 500ml capacity should be provided at a suitable location which should be within easy reach of the doctor/paramedic. Concealed portable **dust bins** with spring loaded lids for waste disposal should be provided at suitable locations.

A “**GSM Fixed Cellular Terminal with Caller-ID**” of reputed brand to enable single line PSTN simulation made available from GSM network should be fixed at a suitable place in the patient cabin keeping in view the caller-id visibility and the GSM reception. This terminal shall be unlocked, support minimum Dual Band GSM 900/1800 MHz and should accommodate a standard External SIM Card (3V, 1.8V). GPS facility shall be included.

(GSM SIM Card shall not be provided along with and shall be the responsibility of the end-user). This terminal shall be paired with a “**2 way intercom phone**” (preferably cordless) of a reputed brand to enable easy communication between the patient & driver cabin and also to facilitate calls on the GSM network. This instrument should be located in the patient compartment at a location within the easy reach of the doctor/paramedic. The instrument in the driver cabin should be located at an optimal location. These instruments should have adequate restrains so as to not dislodge/fall during travel.

A battery powered “**thermo-electric cooler cum warmer**” of minimum 12 litres capacity and capable of running on 12 volts DC / 230 volts AC should be provided at a suitable place. This should allow for a temperature control from -5°C to + 65°C at + 25°C ambient, step-lessly controlled with two thermostats and should be secured firmly so as to ensure it doesn’t move in the patient cabin during travel.

A standard quality **LED/Digital clock** to be provided in the patient compartment. It should have a minimum Letter (font) Size of 50 to have better visibility. Two numbers of multipurpose **fire extinguishers** of ABC Type (ISI marked & conforming to BIS: 13849-1993 or latest) duly filled, of capacity and quantity as per the provisions of Central Motor Vehicle Rules 1989 should be provided. Provision shall be made, with straps / Velcro tapes and mounting on the flooring for placing fire extinguisher. One fire extinguisher shall be placed

in the driver's cabin and the second in patient's compartment, at appropriate location, where it is easily visible and symbolized. All fittings/equipment/outlets/switches/storage spaces, etc. in the patient compartment should be permanently & clearly labelled in English. The font used should be easily readable and in contrasting colour of the background.

### **Oxygen Delivery System**

The ambulance shall have hospital type piped medical oxygen system (manifold) capable of storing and supplying medical grade oxygen. The system should comprise of an oxygen cylinder manifold as specified, a cylinder changing wrench, chained and clipped with/within the oxygen cylinder compartment; a pressure regulator; oxygen piping approved for medical oxygen; a duplex oxygen outlet station with quick- disconnect interface for the primary patient and a second duplex oxygen outlet station with quick- disconnect interface for the secondary patient.

The **manifold** should have oxygen cylinders of B or D size only (**minimum one D & one B type cylinder / equivalent**). An adapter to refill the cylinders from a bulk cylinder should be provided. The manifold should be so designed that it shall ensure proper fixation of cylinders during travel and should ensure easy cylinder changing and positioning. Validity of Oxygen cylinder has to be indicated.

There should not be any electrical connection in near vicinity or inside the oxygen cylinder housing, except pressure regulator integrated with flow control valve. A medical grade **oxygen pressure regulator** with inlet filter & static outlet pressure of 4.12 bars / 60 psi shall be provided at the cylinder manifold. It shall include a pressure gauge, an inlet filter, a safety relief valve; a locking mechanism to prevent settings from being inadvertently changed; shall maintain accurate readings and calibrations during ambulance operation and not be affected by the temperature conditions.

Only **High Pressure Tubing** approved for medical oxygen (280 bar / 4060 psi test pressure), with male female (5/8 inches) bull nose forged Brass connectors at both the ends, to connect it from the oxygen cylinder to the pressure regulator inside the patient cabin should be used. Minimum **two oxygen outlets for the primary patient**, concealed in the side wall near the patient head end (distance between patient head and oxygen / air outlets to be less than 89 cm) to be provided - one outlet normally meant for Oxygen therapy through flow meter & one meant for driving breathing equipment like ventilators, etc.

A **duplex oxygen outlet for the secondary patient** at a suitable location on the opposite side wall is to be provided. These duplex outlet stations shall be appropriately labelled and colour coded to indicate their use with medical grade oxygen. Oxygen outlet stations shall be installed with sufficient vertical space to accommodate attachment of flow meters, humidifiers, and nebulizers. There shall also be sufficient horizontal clearance to prevent interference with the suction inlet quick-disconnect if any and equipment directly attached thereto.

Two (2) Nos. of **"Oxygen Flow Meter with Humidifier"** shall be provided. The Flow Meters should be pressure compensated, be able to regulate the flow from 0 to 15 litres per min and should show the actual oxygen flow rate using a floating-ball indicator. The flow meters shall be installed vertically so as to not interfere with the other outlets and should be easily readable from the Doctor's/Paramedic's seat.

The Humidifier should have a slim impact resistant polycarbonate bowl with metal Cap and T type inlet outlet nipples. All the connectors should be of chrome plated on brass material.

### **Noise**

The ambulance should be designed and assembled of its aggregates and components so as to meet the noise level requirements in dB (A) scale, as per IS 3028-1998 and it also should meet the driver inside noise as per AIS-020. Necessarily, the noise levels in the patient compartment measured at six different locations [patient ear, rear side of interior of ambulance, front side of interior of patient compartment, on left and right side of patient cabin – with reference to center line of the cabin] should not exceed 80 dB(A.)

## **Air–Conditioning**

The AC unit should be installed at a suitable location in the patient cabin to ensure there is no congestion in the driver/patient cabin. With all windows & doors closed, the system should be capable of lowering the cabin temperature to a maximum of 26 degrees Celsius within 30 minutes from 35 degrees Celsius ambient temperature. The gas used for Air conditioning should be environment friendly as per International regulatory requirements. The AC should be of reputed manufacturer who has pan India service network. The engine idling rpm should be so designed and tuned to fulfil the requirements of AC Unit. Though it is desirable that the ambulance be equipped with Heating System for the patient/driver compartment, fitment of the same is optional. To ensure proper ventilation in case of AC failure, one number each of roof / wall mounted fan be provided in the driver's cabin and patient compartment.

## **Siren**

A high quality combination **electronic siren with integrated Public Addressing System** of minimum 100W (PMPO) shall be provided as approved by the Government for ambulance usage. The sirens controls should have full range volume control and should permit the following sounds: Manual, Wail, and Yelp. The siren sweep rate should be 10-18 cycles per minute (ambulance mode). The microphone should be of a noise-cancelling type. Siren/Speakers shall not protrude beyond the face of the bumper or bumper guards if provided in there. The control panel for this system should be fixed at a suitable location in the driver compartment.

## **Signaling devices, direction indicators & stop lamps**

The ambulance should be fitted with signaling devices, viz. Four chamber rear signaling devices, comprising of :-

- Parking signaling device,
- Reverse signaling device,
- Brake signaling device and
- Direction Indicators signaling device

Also, ambulance should be fitted with front head lamps, so as to give sufficient illumination on the road

with aid of high beam and low beam. Further, signaling devices should include fitment of front direction indicators (including front and rear parking indicator) for aid during turning / parking purpose.

Signaling devices, direction indicators and stop lamps should meet the requirements of Central Motor Vehicles Rules # 102, 103, 104, 105 & 106. Fitment of fog lamp is mandatory for all ambulances.

Besides aforementioned lighting system, all ambulances should include a beacon lamp (mounted at roof top, having three flashers on both sides of the ambulance.

The beacon shall be rhombic shaped, double layered structure, combination of continually lit turning lights. It should have high luminance, voltage 12V DC & a power of  $92 \pm 18W$ .

The ambulance should have minimum fitment, as follows:

S.No	Description of Lamps	Colour	Quantity
1	Head Lamp	White	02 Mandatory 04 (Optional)
2	Front Side Marker Lamp	Amber	02
3	Front Side Reflector	Amber	02
4	Front Turn Signal (includes vehicular hazard warning signal flasher)	Amber	02
5	Rear Side Marker Lamp	Red	02
6	Rear Side Reflector	Amber	02
7	Rear Reflector	Red	02
8	Rear Stop, Tail and Turn Signal Lamp, includes vehicular hazard warning flasher	Red, Amber	02
9	Rear Backup Lamp	White	01
10	Rear License Plate Lamp	White	01
11	Roof Mounted bar, consisting of two segments		
12	Rear Flood Lights	White	02
13	Side Flood Lights	White	02
14	Side Flood Lights	White	02
15	Fog Lamps, in the Front Side	White	02

### Lighting and Illumination (Exterior and Interior)

The basic exterior ambulance lighting should meet the day as well as night-time running lights requirements. The front and rear side marker lamps should flash in conjunction with the direction indicators. The flood lights and spot lights should be operable as and when desired by the user. But they must be provided for easy handling. The light assemblies should be stainless steel or plastic or weather proof material. The installation of such lights should not cause electrolysis / corrosion of light housing or vehicle body. The roof mounted bar emergency light system should provide 360 degrees of conspicuity during its mission. The other lighting system loads of alternator base should not hamper the performance of emergency lights. Lamps and its assemblies, reflectors should meet the photometric, chromaticity and physical requirements of Rule No. 124 of CMVR. The head lamp levelling should be provided either automatic or manual.

Loading lights shall provide minimum 500 candle power beam and shall illuminate the area surrounding the back loading doors. Loading light(s) shall automatically be activated when rear doors are opened. There should be provision for Spot Light to use at night times for surveillance. The electrical gadget should be able to manoeuvre through 360 degrees and shall be manually operated. Driver's compartment room light, instrument panel light, master switch panel and console light should be adequately provided. There should not be any reflecting or glaring surfaces inside the driver cabin, which would distract driver's attention.

Flashing and audio alarms in the driver cabin should be so provided, so as not distract driver's attention during motion.

### **Interior Patient Compartment Illumination:**

The nominal light illumination required in the patient compartment should not be less than 15 foot candelas, when measured along the centreline of the floor without any ambient light. The minimum volume of the patient compartment considered here is minimum 9.2 cubic meters. The primary patient squad / stretcher shall be provided with 35 foot candelas of illumination measured on at least 90 % of the squad / stretcher surface. The patient compartment dome light (in the dimming setting) and loading lamp shall be automatically activated when the patient compartment doors are open. All interior dome lighting including check out lights shall be flush mounted and shall not protrude more than 3.8 cm. The florescent light or CFL lights can be used, in place of incandescent lights, which fulfil the above requirements. The lamps should be firmly secured and should not get loose or fall down during vehicle movement or vibration.

### **Check Lights**

The check lights shall be furnished with at least 6 candle power lamps or equal and with five minutes timer switches. The checkout light one should be located towards the front and one should be at the rear of the patient compartment.

### **Electrical Requirements**

In ambulance, there should be two types of electrical design fitment and performance requirements.

1. Electrical power generated by the integrated alternator with engine. This alternator power generated should meet the requirement of automobile lighting, signaling, roof mounted bar, beacon lamps, visual and audible alarms, including HVAC requirements. The alternator of the vehicle should be heavy duty to fulfil all required loads mentioned. Moreover, it should also provide additional 20 % (i.e. 120 %) of its full rated output, for continuous operation. 2. For auxiliary power requirements of the patient cabin – An inverter to be installed in a suitable place in the vehicle, which will fulfil the power requirements of medical equipment, interior illumination devices lamps, bulbs, tubes, entrance illumination, spot lights, etc.

### **Solid State Inverter for Onboard 220-V A/C Power**

The ambulance shall have onboard a Solid State Inverter of reputed brand to meet with the patient compartment power requirements for medical equipment, interior illumination devices lamps, bulbs, tubes, entrance illumination, spot lights, etc. The inverter should be of true sine wave type and should be of sufficient capacity so as to meet all the electrical power requirements in the patient compartment for a minimum of two (2) hours on full load during travelling mode of the vehicle. The inverter batteries should be situated outside the patient compartment at a suitable location.

There should be a circuit breaker provided in driver cabin to isolate the inverter from down line connectivity and indicate "ON" or "OFF" position. This circuit breaker should be labelled and housed at an easily accessible location while also ensuring accidental switching off.

The inverter shall have the facility for charging from vehicle alternator (when vehicle is mobile) & 220V AC (when vehicle is stationary). External charge port with spring loaded lid suitable for AC charging of the inverter batteries should be provided on the exterior of the vehicle at a suitable place. 10 Meter length, Three (3) core, 10 gauge / equivalent charging wire with high quality male three pin ends to be provided. This wire should be housed at a suitable and easily accessible location in the ambulance.

### **Radio Frequency Interference (RFI)**

The ambulance electrical / electronic and mechanical equipment in running mode / on condition, should meet the Radio Frequency Interference standards [Electro Magnetic Interference (EMI) AIS – 004-1999].

## Electrical Receptacles in Patient Compartment

There should be at least three numbers of 230 V marked receptacles (each with a switch and a socket with combination of 5 & 15 AMPS) and two receptacles for 12V DC, of reputed make meeting IS1293 standards. The sockets shall be made up of an industrial grade thermo set electrical insulation material and resist heat and fire. The sockets shall have tubular contacts to ensure larger area of contact with the pin. The ring springs around the tubular contacts shall ensure uniform pressure and a firm unwavering multipoint contact. Socket shall have integrated shutters to prevent accidental contacts with live parts. The mountings shall be sturdy enough to handle wire/plug pressure and vibrations during transit.

## Fuses and Electrical Safety

The vehicle battery rating should be such that it should be able to cater for at least 500 numbers of cold cranking amperage and thereafter should have spare reserve capacity of 180 minutes. The battery should be continuously charged through alternator and necessary electronic circuit to supply amperage for charging. If the battery is mounted in the engine compartment, it should be properly ventilated or protected with heat shield against under-hood temperature.

There should be short-circuit as well as overload protection through fuses / Mini-Circuit Breaking (MCB) for different segmented electrical installations and the fuse rating should be mentioned on each fuse as well as three numbers of each fuse should be housed in the fuse box covered or at appropriate place.

The electrical fixtures should be flush mounted and should not protrude more than 50 mm. However, items such as monitors, ventilators, etc. are excluded. The engine electronic system also should be immune to interference of radio frequency transmissions.

All electrical and electronic components shall be selected to minimize electrical loads thereby not exceeding the vehicles generating system capacity. All electrical system components and wiring shall be readily accessible through access panels for checking and maintenance.

All switches, indicators, and controls shall be located and installed in a manner that facilitates easy removal and servicing. All exterior housings of lamps, switches, electronic devices, connectors, and fixtures shall be corrosion resistant and weatherproofed.

All switches, connectors, end-wiring should be rated to carry out minimum 125 % of their maximum ampere load. All wiring should conform to ISI2645 specification. The wiring shall be permanently colour coded or marked the entire length of the wire for identification with easily read numbers and letters, or both, and routed in conduit. When cables are supplied by a component manufacturer to interconnect system components, these cables need not be continuously colour coded / identified. They shall be coded/ identified at the termination or interconnection points. All added wiring shall be located in accessible, enclosed, protected locations and kept at least 15 cm (6 in.) away from exhaust system components.

Except for those on large wires, such as battery cables, terminals shall be machine crimped to the wiring. A ratchet type hand crimper may be used where it is not possible to use a large machine crimper. Battery cable terminals, component terminals and connectors exposed to the ambient shall be coated with terminal corrosion preventive compound.

Electrical panels that are accessible to accidental contact shall have a protective cover, shield, and so forth, to prevent shorts that can result in injury, fire, or damage to the electrical system. Electrical wiring and components shall not terminate in the oxygen storage compartment except for the oxygen controlled solenoid, compartment light, and switch plunger or trigger device. Wiring necessarily passing through an oxygen compartment shall be routed in a metallic conduit.

**Warning indicator** – The electrical system should incorporate a warning light panel located in the driver's compartment. It shall provide indicator light as well as buzzer for open patient compartment entry doors.

## Emblems, Marking & Colour Scheme

1. There shall be a continuous blue stripe, of not less than 8 cm on cab and 15 cm on patient compartment, to encircle the entire ambulance with the exclusion of the hood panel.

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

- a. Front: The word "AMBULANCE" in Red, minimum 10 cm in height, shall be in mirror image (reverse reading) for mirror identification by driver's ahead.
- b. Side: The word "AMBULANCE" in Red, not less than 15 cm in height shall be painted on each side.
- c. Rear: The word "AMBULANCE" in Red, not less than 15 cm in height

All items in this section shall be of reflective quality and in contrasting colour of the exterior painted surface of the ambulance.

#### **Tool Kit, Layout Drawings, Operating Manuals, etc.**

The bidder should provide bare minimum tool kit for vehicle maintenance, operating manual, warning triangles, a set of spare bulbs for headlamp and fuses, a spare wheel ready for use, etc. as per Rule 138 (iv) A of CMVR.

Laminated sheets, clearly showing the Patient/Driver Cabin Layout with location of equipment, fittings, switches, consumables, etc. suitably depicted should be fixed in the patient/driver cabin at suitable locations.

Laminated sheet showing the electrical wiring diagram complete with location of various fuses and circuit breakers should be displayed in the vehicle at a suitable location.

Comprehensive User Manual/s written in simple English with detailed parts description, operating instructions, service contact numbers, etc. for the Base Vehicle, Patient / Driver Compartment Equipments, Fittings, etc. shall be provided.

These should be printed on high quality paper (preferably laminated) and housed in water-resistant pouches.

A 12v Emergency Tyre Inflator with integrated / separate Flashlight should be provided.

Sample drawing showing the layout of patient cabin is attached along with. The sample drawing is only a guidance for designing the ambulance. The bidders should strictly adhere to this guidance in consonance with the above detailed specifications as regards the location and positioning of various equipments, fitments, etc. while adapting the same to their vehicle dimensions.

The bidders should provide initial basic drawings showing location of various components, sub-assemblies for structure, interior layouts, fitment of oxygen cylinders, layout of doctor's chair, attendant chairs, wash basin, cabinets, Inverter, etc. along with the technical bid. It also should show the location for storage of various equipment, tools and kits.

#### **Standard Mandatory Miscellaneous Equipment**

Ambulance shall be equipped with, but not limited to the following:

Fire extinguishers: Two (ABC dry chemical or carbon dioxide) minimum 1kg unit, in a quick release bracket, one mounted in the driver/cab compartment or in the body reachable from outside the vehicle and one in the patient compartment.

#### **AMBULANCE MEDICAL EQUIPMENT TECHNICAL SPECIFICATIONS**

##### **1. Ambulance Cot**

- Roll-in Self Foldable Stretcher with capability to convert into wheel chair of a reputed manufacturer like Ferno, etc.
- Collapsible, with minimum four swivel wheels to allow cot to be handled and to slide into the ambulance easily without damaging the ambulance floor.
- One person should be able to raise and lower it into an ambulance easily.
- Built with anodized aluminum lightweight / stainless steel.
- Swing-down side rails to enable convenient patient transfer from bed to cot Adjustable backrest angle from 0 – 65 deg.

- At least three strap-type restraining devices (chest, hip, and knee) to prevent longitudinal or transverse dislodgment of the patient during transit.
- Provision to fix AA type oxygen cylinder.
- Dual I.V. holder, capable of being cot mounted.

NIT, Tiruchirappalli

- Padded wrist and ankle restraints, minimum one complete set.
- Fixing devices to secure the stretcher in place not allowing side to side or vertical movements in the ambulance while on run.
- Locks on wheels/legs to ensure that the stretcher doesn't collapse/move while standing.
- 50 mm thick high density foam mattress holstered with water proof and fire proof material.
- Dimensions
  - Length: 190 – 200 cm
  - Width: 55 – 60 cm
  - Height: 80 – 85 cm
  - Loading Capacity: 160-180 kg

## 2. Scoop Stretcher

- Should be light, safe and reliable
- Aluminum alloy with adjustable length
- Clutch Design in center, so that the stretcher can be divided into left and right halves.
- Easy to lock and unlock
- Quick release buckle belts
- Dimensions:
  - Max. Size L\*W\*H: 225\*45\*6 cm
  - Min. Size L\*W\*H: 168\*43\*7 cm
- Net weight: < 10 Kgs
- Weight bearing: 160–180 kgs
- To be supplied with a mountable & detachable “Double Head Immobilizer”

## 3. Foldaway Stretcher

- Light weight, portable & easy to carry
- Made of high strength AL-alloy & should be 4-Folded when packed
- Weight Bearing: 160-180 kg

## 4. Spine Board

- High Density Polyethylene - Single piece
- Rigid, Light & Floatable
- Resistant to bumps and corrosion
- Nonabsorbent, immune to infiltration
- Easy to clean – Water & Soap
- X-ray & MRI compatible
- Load Capacity : 160-180 kg
- L\*W\*H : approx. 184 \* 45 \* 5 cm
- Rigid Head Blocks with restrains to be supplied along

## 5. Transfer Sheet

- 2 (Two) transfer sheet with a minimum of 6 (Six) handles, or equivalent

## 6. Wheel Chair

- Should be light, safe and reliable
- Made of aluminum alloy with 4 wheels
- Folded size : approx. 93\*51\*16 cm
- Net weight : less than 10 Kgs
- Pull through, telescoping long handles built in to lift patients & carry them through narrow passages.
- Two handles on the top to facilitate the lifting of patients, working in harmony with telescoping

handles

- Loading Weight: 160–180 kgs.

## 7. Bi-Phasic Defibrillator cum Cardiac Monitor with Recorder

- Wall Mounted, Transport defibrillator cum Cardiac Monitor of a reputed brand.
- Light weight, Easy to Use with both Manual & AED Capabilities and easily chargeable (in less than 10 seconds)
- Suitable for ambulance operation, with adult and pediatric external fixed paddles and Patient cables
- Minimum 6.5 inches Colour LCD Display
- Should be able to deliver shock from 2- 200 joules through biphasic technology.
- Should have charging time up to 200J in less than 6 seconds with a new fully charged battery
- Should have built in Non-invasive pacing and SpO2 monitoring
- Should have 12 lead interpretative ECG and synchronized cardio version Integrated Multi Parameter Monitor with the following parameters:
  - NIBP – Adult and Paediatric
  - SpO2 - Adult & Paediatric
  - EtCO2 Heart Rate
  - Respiration Rate
  - 12 Lead ECG
  - Pulse oximeter for SpO2, pulse rate and plethysmographic waveform.
- ECG signal shall be via defibrillator paddles, disposable defibrillation electrodes or patient cables
- Should be able to print critical events via a built in printer AC/DC Modules
- Should have built in charger Ambulance Mounting Bracket Should be FDA/CE/BIS Approved
- All required leads, probes, accessories & manuals to be supplied along with spare Disposable Pads – 10 no's each

## 8. Transport Ventilator

- Should be wall mounted, light weight, robust and user friendly
- Suitable for adults, children and infants up to 5 kg
- Modes of ventilation:
  - CMV
  - Assist Control
  - SIMV
  - CPAP
- Separate control for inspiratory and expiratory time and flow rate.
- CPAP Adult and Pediatric Mask
- Adjustable pressure limit to safely cope with all patients.
- High inflation pressure, high tidal volume, low tidal volume, apnea, high respiratory rate alarm
- Power source: Compressed air / oxygen (dependence on battery or AC power is not desirable)
- It should be able to deliver respiratory rate ratio of up to 1: 2
- FIO2: 100% oxygen and air mix, approx.45%
- Equipment should be complete with carry bag, patient circuit, pressure regulator for the oxygen cylinder and relief valve. (Transport Ventilator Kit)
- Provision for Pneumatic Suction & Inhalational Therapy (1-15ltrs/min) should be built into the kit.
- The above kit should be supplied with all required brackets / mounts to ensure mounting in ambulance and on stretcher rails without hampering patient care in an acute scenario.
- Should have airway pressure monitor
- Should have a disconnect alarm. (Visual and audible)

## 9. Suction Pump (Electronic)

- AC / DC / Foot Operated
- Maximum negative pressure from –200 to –700mbar in steps of 100 or less with suitable setting marks.
- Suction capacity 10–16 litres per minutes
- Sufficient capacity 500ml secretion bottles with efficient over-flow protected with adjustable

- negative pressure (Min. 5 Nos. Polycarbonate & autoclavable with Overflow protection)
- Ambulance Wall mountable Rechargeable Battery with capacity of 90 minutes.
- Operating environmental temperature: -20C to + 50C.

#### 10. Artificial Manual Breathing Unit (Adult)

- Easy Grip manual resuscitator with Size 4 Clear hood transparent facemask with silicone cuff
- Adult models (1500 to 2000ml bag capacity)
- Standard 15-22 mm Swivel connector allows connection to all common masks Endotracheal Tubes
- Provision to give supplemented oxygen from reservoir providing 100% oxygen
- Non-rebreathing valve enabling the patient to inspire oxygen from the reservoir bag
- To be supplied in proper Carrying case

#### 11. Artificial Manual Breathing Unit (Child & neonatal)

- Easy Grip manual resuscitator with Size 0A Circular Pedi transparent facemask with silicone cuff
- Child models (500 to 250ml bag capacity)
- Standard 15-22 mm Swivel connector allows connection to all common masks Endotracheal Tubes
- Provision to give supplemented oxygen from reservoir providing 100% oxygen
- Non-rebreathing valve enabling the patient to inspire oxygen from the reservoir bag
- To be supplied in proper Carrying case

#### 12. Oxygen Cylinder (Portable)

- Preferably as a part of the portable resuscitation kit bag
- Max. Working Pressure at 150 C: 150kgf/cm<sup>2</sup>
- Test Pressure: 250 kgf/cm<sup>2</sup>
- Water capacity: 1.0 ltrs
- Gas Capacity (Cu.m.): 0.15 Cu.m.
- Min. Wall Thickness 't' (mm): 3.2mm
- Length 'L' Approx. (mm): 310mm
- Tare weight approx. (kg): 2.5 Kg.
- Built in / attached with Pressure gauge, regulator and cylinder wrench / key
- Oxygen Transfer system from Bulk D-type cylinder to Portable cylinder

#### 13. Nebulizer

- Compressed air nebulizer
- Atomiser (Diaphragm-type / Pistontype) electric aspirator
- Motion Tolerant and for continuous use in Pre Hospital
- Operating voltage: 230 V AC with Battery backup (with minimum 90 minutes backup)
- Maximum pressure 3.5 bar
- Air power: 14 litres per minute
- Aerosol output: 106 µl per minute
- Residual volume: 1.24 ml
- Droplet size: MMAD 3.3 microns
- Filling volume: maximum 7 ml
- Noise level: 55 dBA
- In built thermal cut off systems
- Provision for fixing / Hanging in the Ambulance

#### 14. Volumetric Infusion Pump

- Battery back-up
- LCD programming display
- Data entry calculator style numeric programming keyboard
- Pole clamp Multi-function mounting clamp
- Quick titration of rate or dose with volume-time programming

- Flow rate range (primary) 0.1 to 99.9 ml/hr. (0.1 ml increments) and 1 to 1200 ml/hr. (1ml increments)
- Flow rate range (piggy back)-0.1 to 99.9 ml/hr,(0.1 ml increments) and 1 to 500 ml/hr (1ml increments)
- Volume to be infused 0.1 to 99.9 ml(o.1ml increments) and 1 to 9999 ml (1 ml increments)
- Both flow rates and volume to be infused should be configured to limit the maximum allowable range
- Accuracy  $\pm 3\%$ .
- Basic unit should have 2 or more infusions control system in single unit

#### 15. Syringe Infusion Pump

- Flow rate programmable from 0.1 to 200 ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option.
- SAVE last infusion rate even when the AC power is switched OFF.
- Bolus rate should be programmable to 400 – 500 ml/hr or more with infused volume display.
- Reminder audio after every 0.5 ml delivered bolus.
- SAVE last Bolus rate even when the AC power is switched OFF
- Display of Drug Name with a provision of memorizing 10~15 names
- Keep Vein Open (KVO) must be available 1.0 ml/hr or set rate if lower than 1.0 ml. User should have choice to disable KVO whenever desired.
- Occlusion pressure trigger levels selectable from 300/500/900 mmHg
- Must Work on commonly available ISI/CE/FDA APPROVED/CERTIFIED 20, 50/60 ml Syringes with accuracy of minimum of +/-2% or better.
- Automatic detection of syringe size & proper fixing.
- Must provide alarm for wrong loading of syringe such as flanges out of slot; disengaged plunger, unsecured barrel etc.
- Anti-bolus system to reduce pressure on sudden release of occlusion
- Should have comprehensive alarm package including: Occlusion limit exceed alarm, Near end of infusion pre alarm & alarm, Volume limit pre-alarm & alarm, KVO rate flow, Low battery pre alarm and alarm, AC power failure, Drive disengaged and preventive maintenance
- Rechargeable Battery

#### 16. Needle & Syringe Destroyer

- To be placed at an appropriate location to allow easy disposal of needles.
- Maximum weight 2.5 Kgs
- Motion Tolerant

#### 17. Pneumatic Splints set of 6 adult sizes with carrying case

- Hand & wrist
- Half arm
- Full arm
- Foot and ankle
- Half leg
- Full leg
- X-ray through the splints
- Inflation 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

#### 18. Roller Splints

- Two Nos. of reputed manufacture make

- The splint should be made from a thin core of alloy, sandwiched between two layers of closed-cell foam
- Should be extremely pliable
- Can be used for all the sizes
  - Small
  - Medium
  - Large

#### **19. Cervical Collars**

- Two Nos. of reputed make & quality
- Should be adjustable to 4 different sizes.
- Should have pre-moulded chin support, locking clips and rear ventilation panel, enlarged trachea opening.
- Should be high-density polyethylene and foam padding with one piece design enabling efficient storage where space is limited
- Should be X-ray lucent and easy to clean and disinfect

#### **20. First Aid Kit Bag**

A Pre-Packed off the Shelf Resuscitation & First Aid Kit Bag made of Nylon/tougher material having space for Emergency Airway Management and Resuscitation including essentials drugs, equipment & a portable Oxygen Cylinder of with regulator, etc. The content of Intubation/Emergency kit should include the following:

- i) Laryngoscope handle (Minimum 28mm diameter) – 1 No
- ii) Guedel airway set (0,1,2,3,4) – 1 No
- iii) Endotracheal Tube set (6,7,8,9) – 1 No
- iv) Adhesive tape – 1 No
- v) Sphygmomanometer with Adult & Paediatric cuff
- vi) Stethoscope

#### **21. Rescue Equipment**

Crowbar (min 48 inches, with pinch point)

**ANNEXURE II  
DETAILS OF ALL CONTRACT COMPLETED DURING THE LAST THREE YEARS**

S.No.	Name of Contract & Location	Name of Clients	Annual Cost of Contract	Date of Commencement as per contract	Period of contract	Litigation Arbitration pending / in progress with details	Name, Address & Tele No. of officer to whom reference may be made	Remarks

**CONTRACTS UNDER EXECUTION OR AWARDED**

S.No.	Name of Contract & Location	Name of Clients	Annual Cost of Contract	Date of Commencement as per contract	Period of contract	Name, Address & Tele No. of officer to whom reference may be made	Remarks

Date:

Signature with seal  
(Senior level officer of the service provider with complete contact details)

**Annexure III**  
Performance Report of contract

(Furnish this information for each individual contract in the following format from the employer in their letter head, for whom the contract was executed - minimum three be submitted, and one should be from Government organization)

1. Name of the contract and location :
  
  
  
  
  
  
  
  
  
  
2. Agreement Number :
  
  
  
  
  
  
  
  
  
  
3. Annual value of the contract :
  
  
  
  
  
  
  
  
  
  
4. Date of start and completion :
  
  
  
  
  
  
  
  
  
  
5. Performance report
  - i. Quality of Ambulance Service : Excellent / Very Good / Good / Fair
  - ii. Quality of Ambulance equipment : Excellent / Very Good / Good / Fair
  - iii. Resourcefulness : Excellent / Very Good / Good / Fair
  
  
6. Any penalty imposed for bad performance :
  
  
  
  
  
  
  
  
  
  
7. Any litigation pending :

Date:

Signature with seal  
(Senior level officer of the service provider with complete contact details)

**ANNEXURE IV**  
**PRICE DETAILS**

(To be used by the Service Provider for the submission of Price Bid)

1	Name of the work	Hiring Ambulance – Advanced Life Support on rate contract for NITT Hospital
2	Specifications confirming with the points in the commercial terms and Conditions	
3	Monthly Hire Charges for Providing One No. Hi-Tech Ambulance-Tempo traveller or equivalent Model-2018 and above as listed in the commercial terms and conditions. Rates should be inclusive of all i.e. fuel, salary for the staff per month and maintenance etc. (fixed free run of 1000 Km per month) in Rupees. (Exclusive of GST which shall be payable extra at actuals by NIT against proof)	
4	Whether accepting the conditions as given in ANNEXURE I	
5	Charges per Km over and above fixed 1000 Kms every month)	
6	Other relevant information	
7	Name and Address of the firm for placing the work order	
8	Signature of the service provider	
9	Name and Designation	
10	Business Address with contact details (Phone, Mobile, E-Mail ID, etc.,)	

Place:

Date:

Seal of the Service Provider

**Agreement for the service provided to the Hospital  
National Institute of Technology, Tiruchirappalli.**

WHEREAS ..... Proprietor of .....  
hereinafter referred to as the Service Provider(SP) have submitted the tender to the National Institute of Technology, Tiruchirappalli, hereinafter referred as the Institute, providing the services to the Hospital of National Institute of Technology Tiruchirappalli, for a period of two (02) year commencing from ..... 2016.

WHEREAS the National Institute of Technology, Tiruchirappalli has agreed to grant the agreement to foresaid as per the contract No. .... dated.....And  
WHEREAS the service provider and the Institute have agreed to execute this agreement.

We agree that:-

1. We will be providing services to the Institute Hospital for a period of one (01) year with effect from ....., on terms and conditions stated herein.
2. The service provider will make cumulative security deposit of Rs. (Rupees ) to the Institute which is refundable on termination of the agreement free of interest after recovery of all dues payable by the service provider to the Institute. This security deposit has been deposited to the Institute vide receipt no. .... dated .....
3. The service provider will quote the charges of providing ambulance service to the Hospital of Rs..... (Rupees..... Only) per month if bill and relevant documents are in order, which will be paid by the Institute before 21<sup>st</sup> day of the following month.
4. The service provider shall enclose (Vehicle license, permit) IT, GST and service tax registration certificates before signing the agreement.
5. The ambulance service rendered to the Hospital by the service provider shall remain functional round the clock on all seven days of the week.
6. Emergency Medical Technicians (Paramedical Staff) are required to work in the NITT hospitals during their shifts and have to assist in all works which are assigned by the Medical Officers. Staffs who are working in the ambulance through the service provider / agency have to adhere the works allotted by the institute authorities.
7. The service provider will provide the ambulance services as stipulated in the Tender Document. The rates of the foresaid items are applicable during the entire contract period commencing from ..... If the contract period is extended beyond initial twenty four months for any reason whatsoever, the service provider will provide the service of Advanced Lifesaving Ambulance at rate mutually agreed upon for the service, which will not be more than 10% of the original contract amount.
8. The behavior of the service provider and its personnel will be polite and exemplary towards the patients and members of the Institute. The service provider and its men will not indulge in any kind of immoral activity directly or indirectly, and defaulters will attract penalty as recommended by the

enquiry committee constituted by Dean-ID in every such occasion, which may lead to the termination of the contract.

9. The service provider will not put hindrance to the Medical Officer in-charge/ Director in any point of time and the service provider shall undertake to implement their direction within the ambit of the Tender Document and this agreement.
10. Service provider undertakes to maintain the good, clean and hygienic condition of the Ambulance and its parking space and disposes of all the refuses at marked location only at his own cost. The service provider will be responsible for safety, security of all equipment of the Ambulance.
11. The Institute shall have the power to extend the agreement period for twenty four months annually based on satisfactory services rendered by the service provider and on such occasion, the Institute will agree to increase the rate mutually agreed upon for the service, which will not be more than 10% of the original contract amount. The extension, however, cannot be a right of the service provider and should be under the sole discretion of the Institute.
12. The service provider will be subjected to the same discipline as is applicable to the residents of the Institute Campus.
13. The service provider will abide by any other terms and conditions which the Institute and Director / the Medical Officer in-Charge of Hospital on its behalf may impose from time to time.
14. In the event of violation of the conditions of this agreement, the service provider will vacate the premises forthwith and the service provider will not have any claim in respect of the unexpired period of the agreement and security deposit.
15. In the event of death of service provider, the agreement will stand automatically terminated with immediate effect.
16. On expiry of the period of the agreement, the service provider will vacate the Institute premises within 24 hours of expiry of the agreement period.
17. In the matter of any interpretation and/or dispute in respect of this agreement the decision of the Director will be final and will be binding on the service provider.
18. In regard to extension of time of the agreement the Institute will have sole discretionary power.
19. Under normal situations ninety (90) days' notice period is to be served by the service provider for the termination of contract. However, the Institute reserves the right to terminate the agreement with thirty (30) days' notice period without assigning any reason to the service provider as when it deems fit.
20. The Tender Document is a part of this agreement.
21. All the disputes will be settled within the Jurisdiction of Honorable Tiruchirappalli court and Madurai Bench of Madras High Court.
22. In case the service provider is not able to provide the ambulance for a particular day, a penalty fee of Rs. 25,000/- (Rupees Twenty-Five Thousand Only) shall be deducted from that monthly contract fee.

23. We agree that the Institute has full authority to terminate the contract if the Advanced Lifesaving Ambulance services provided by us is not satisfactory.

IN WITNESS WHEREOF BOTH THE PARTIES set their respective hands in presence of the witness on the date, month and year as given above.

**Place:** National Institute of Technology, Tiruchirappalli, Tamil Nadu, India

The Registrar, NIT Tiruchirappalli

Signature of Service Provider

Witness

Witness

1.

1.

2.

2.

3.

3.

NIT, Tiruchirappalli