


NATIONAL INSTITUTE OF MINERS' HEALTH
(An Autonomous Institute under the Ministry of Mines, Govt. of India)
NAGPUR - 440 023

TENDER NOTICE No. 05/2016
(Tender starting date 19.10.16 & closing date 09.11.16)

Sealed Tenders are invited from reputed firms towards the **Fabrication of One Mobile Health Unit for National Institute of Miners' Health, Nagpur** at an Estimated Cost of **Rs. 50 Lakhs**. The TENDER will be opened on **09/11/2016 at 3.00 P.M. PREBID meeting will be held on 26/10/2016.**

The Tender documents may be purchased from NIMH, Nagpur on all working days between 11.00 hrs to 16.00 hrs. paying Rs. 500/- in Cash/in the form of Demand Draft drawn in favour of the **National Institute of Miners' Health, Nagpur** from the date of issue of this notice and up to 11 A.M. of the closing date. The detailed information, terms and conditions for the **Fabrication of Mobile Health Unit for National Institute of Miners' Health, Nagpur** are available on NIMH Website at www.nimh.gov.in. In case of Tender Enquiry downloaded from the website, Demand Draft for the cost of tender form should be attached with the Technical Bid.

Bid Security Deposit **Rs.1,00,000** /- (Rupees One Lakh only) which is refundable in due time through Demand Draft (D.D) / Bank Guarantee, in favour of **National Institute of Miners' Health, Nagpur** will be required for submission of Tender.


(Raj Kumar) 10-10-16

Administrative Officer,
National Institute of Miners' Health, Nagpur

Chapter-1

NATIONAL INSTITUTE OF MINERS' HEALTH
(An Autonomous Institute under the Ministry of Mines, Govt. of India)

INVITATION TO TENDER

NO. NIMH/ OH/14(27)/2016-17

DATED: 06/10/2016


From:

THE ADMINISTRATIVE OFFICER
NATIONAL INSTITUTE OF MINERS' HEALTH,
JNARDDC CAMPUS,
OPP. WADI POLICE STATION.
AMRAVATI ROAD,
NAGPUR-440 023
TEL No. +91 07104-224494.

Dear Sir,

You are requested to submit your Quotation towards the **Fabrication of One Mobile Health Unit**. The Invitation to tender is subject to fulfillment of instructions and conditions as per Schedules below:

1. Chapter- 1: Schedule of Requirement
2. Chapter- 2 : Instruction to bidders
3. Chapter -3: Conditions of Contract
4. Chapter -4: Norms for Bid Security Deposit
5. Chapter- 5 Bank Guarantee Form (A) Bid Security Deposit.
6. Chapter -6: Detailed Technical Specifications and allied Technical details.


(Raj Kumar)

Administrative Officer,
National Institute of Miners' Health, Nagpur

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From:
THE ADMINISTRATIVE OFFICER
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JNARDDC CAMPUS, AMRAVATI ROAD,
P.O. WADI, NAGPUR-440 023
TEL No. +91 07104- 224 494.

SCHEDULE OF REQUIREMENT

<p>1. COST OF TENDER SCHEDULE <u>Rs. 500/-</u></p> <p>2. BID SECURITY DEPOSIT AMOUNT Rs. Rs.1,00,000 /-(RS. ONE LAKH ONLY)</p> <p>3. PREBID MEETING DATE: 26/10/2016 AT 3.00 PM IST</p>	<p>4. DATE & TIME FOR OPENING OF TENDER:- 09/11/2016 at 3.00 PM IST. LAST DATE & TIME FOR REACHING OF THE TENDER IN SEALED ENVELOPES :-UP TO 02.30PM 09/11/2016 IST</p> <p>5. VENUE: ABOVE ADDRESS OF NIMH.</p>
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Dear Sirs,

You are requested to submit your Quotation for the following items as per terms and conditions given hereunder.

Item No.	Description of Stores	Unit	Quantity Required
1.	<p>Fabrication of Mobile Health Unit</p> <p>Details of Technical Specifications as mentioned in Annexure "I" (Chapter 6)</p> <p><u>NB:</u></p> <p>1. The price should be quoted in Indian rupees and FOR Destination (Wadi, Nagpur) basis only.</p> <p>2. Authenticated latest document in support of their product / distributorship / agency etc must be furnished only with the Technical Bid. No other document/correspondence will be entertained after opening of the Technical Bid.</p> <p>3. A Technical compliance statement (as at Annexure "II" of Chapter 6) must be furnished with the Technical Bid.</p> <p>4. A detailed technical Brochure / Catalogue of the quoted model must be enclosed with the Technical Bid.</p>	No.	1 No.


(Raj Kumar)

Administrative Officer,
National Institute of Miners' Health, Nagpur

CHAPTER-2
INSTRUCTION TO BIDDER

POINTS TO BE NOTED

1. TENDER IS TO BE SUBMITTED AT THE FOLLOWING ADDRESS:

THE ADMINISTRATIVE OFFICER,
NATIONAL INSTITUTE OF MINERS' HEALTH,
JNARDDC CAMPUS, AMRAVATI ROAD,
P.O. WADI, NAGPUR-440 023
TEL No. +91 07104- 224 494.

2. **PRE BID Meeting** with the intending bidder shall be held on **26/10/2016 from 3 PM** onwards at NIMH Nagpur.
3. The Tender is to be submitted under "TWO BID" system. Viz. Two separate sealed covers; one should contain Technical bid with the superscription as "**Technical Bid**" and other should contain **Price bid** with the superscription as "Price Bid". Both bids are to be packed in one bigger sealed cover with the superscription as "Tender for supply of **Fabrication of Mobile Health Unit**" - Tender Opening date **09/11/2016**
4. Tender Schedule Cost is Rs. 500/- which is non-refundable. **In case the Tender Schedule is downloaded from the website, Demand Draft for Rs. 500.00 towards the Cost of tender documents is to be enclosed, in addition to the Bid Security, with the Technical Bid.** The D.D is to be drawn in favour of "**National Institute of Miners' Health, Nagpur**" payable at Nagpur.
5. **Bid Security amount of Rs. 1,00,000/-** (Rs. One Lakh only) is to be furnished with Techno Commercial Bid (*see Chapter -3, Point -19*)
6. On the day of Tender opening only Techno Commercial Bids will be opened. Price /Commercial bid will be opened on a fixed later date for the successful technical bidders only. The date of opening of Price Bid will be intimated to the successful technical bidders only.
7. **IN THE TECHNICAL BID, [a] un-priced bill of materials [b] compliance (of specification) statement in prescribed format (see chapter -3, Point - 15) [c] Bid Security (see Chapter 3, Point - 16) and [d] Tender Schedule cost (see Point -3 above) are compulsorily to be provided** along with any other relevant documents, pamphlets and information.
8. The cover containing quotation should be sealed and super-scribed **Tender for supply of "Fabrication of Mobile Health Unit"**. The due date of opening is on **09/11/2016**. The Tender can be posted or submitted by hand in the Tender Box kept in the Office of **The Head of the Department (Occupational Health) , NIMH at Amravati Road, Nagpur 440023** not later than **2.30P.M.** on **09/11/2016**. It will be opened at **03.00 P.M.** on the same date. *Covers not super-scribed appropriately are liable to be ignored.* Covers sent by post should have similar superscription.
9. Under unforeseen circumstances and if the due date falls on holidays, the tender will be received and opened on the next full working day at the same time.
10. It is the responsibility of the bidders to see that their tenders reach the office of The Head of Department (Occupational Health), NIMH, Nagpur at the above address by due date and time. The fact


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of having posted an offer in time will not bind the NIMH, Nagpur for considering the tender. In case an offer is delayed in post or mislaid/misdirected due to incomplete or incorrect superscription or other causes, NIMH will not be responsible for such delay.

11. An **authorized** representative of the Bidder may remain present at the time of opening of the tenders.
12. The tender should be submitted in the letter head of the Bidding Company duly printed /typed and signed by authorized person with Company Seal of the tenderer. The person signing the tender should, duly authenticate any errors or corrections in the tender. Over typing/writing should be avoided.
13. **Validity of Tender** - The offer should remain open for **SIX MONTHS** from the date of opening of tender and there should be clear mention in the Tender to that effect.
14. Please note that there is no provision to take out the list of parties who downloaded the tender document from the above referred website. As, such **tenderers are requested to see the website once again before due date of tender opening to ensure that they have not missed any corrigendum uploaded against the said tender after downloading the tender document.** The responsibility of downloading the related Corrigenda, if any, will be that of the downloading parties. No separate intimation in respect of corrigendum will be sent to tenderers who down loaded the documents from website as information in this respect (names of parties) will not be available with NIMH.
15. The NIMH, reserves the right to accept or reject any tender or the whole tender process at any time without assigning any reason what so ever.
16. Any kind of canvassing in regard to the offered items after submitting Tender will be treated as disqualification.

17. AMENDMENT TO THE TENDER ENQUIRY/ TENDER SCHEDULE

At any time prior to the last date for receipt of bids, NIMH may, for any reason, modify the tender document by issuing an amendment.


The amendment will be notified in writing or by email or by fax or posted on the official web site of NIMH (www.nimh.gov.in), which can be accessed by any prospective bidders who have received / downloaded the tender document and will be binding on them.

In order to afford prospective bidders reasonable time to take the amendment into account in preparing their bids, NIMH may, at its discretion, extend the last date for the receipt.

18. The Tender Enquiry (or Tender Schedule) and Purchase order (or resultant contract) will be interpreted under Indian Laws.
19. **An undertaking** for UNDERSTANDING, compliance and fulfillment of T & C as well as Specification as mentioned in this Tender Enquiry is **to be furnished along with the TECHNICAL BID.**
20. **Late/Delayed offer :**
 - a) A tender which has not been received on the due date and time will not be considered. No relaxation in this respect will be entertained.
 - b) Tender sent through Telegram, Telex, Fax or E-mail will not be considered.

20. The details for e-payment may be provided as follows:

- a) Name and address of the Beneficiary: National Institute of Miners' Health, Nagpur
- b) Bank Name: State Bank of India (07136), Industrial Finance Branch
- c) State Name: 07136, IF Branch, Bharat Nagar, Nagpur
- d) City: Nagpur


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- e) State Name :Maharashtra
- f) IFSC: SBIN007136
- g) Account No.:10374782678
- h) Type of A/C:Saving Bank

Chapter-3
CONDITIONS OF CONTRACT

- 1 The company quoting for fabrication /body building should be **ISO Certified**.
- 2 It should be specifically stated whether Sales Tax/VAT etc. are payable in addition to the price quoted, otherwise, the price quoted will be assumed to be all-inclusive and no separate tax or charges will be paid in the event of the offer being accepted.
- 3 The Price must include cost for freight, loading, unloading, material handling and insurance which will be required even at consignee's place at the time of delivery.
- 4 In case of requirement of Way Bill at the time of delivery, the prescribed Entry tax whatever needed shall be borne by the supplier. Arrangement for obtaining of necessary Way Bill/Road permit shall be the responsibility of the consignee.
- 5 The quoted rate shall remain unaltered during the entire contract period.
- 6 A representative of the NIMH will inspect the items before and/or at time of delivery and unacceptable items will be subject to removal/replacement at the risk, cost and responsibility of the supplying firm.
- 7 The items to be securely packed and delivered to the consignee.
- 8 Rectification of any defects or cracks etc. noticed during a period of one-year from the date of supply shall be the responsibility of supplying firm at their own cost and risk.
- 9 **The Tender not received on "Two Bids" basis i.e. without compliance of points 1, 2,3 and 4 of Chapter-2 and Annexure II of Chapter 6 will summarily be rejected.**
- 10 **WARRANTY/GUARANTEE CLAUSE :**

Except or otherwise provided in the invitation to the tender, the contractor/seller shall declare that the goods, stores articles to be sold/supplied to the purchaser against this Tender Enquiry shall be of the best quality and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars contained/mentioned in this Tender Enquiry.

The contractor/seller shall declare guarantee on the said goods/stores/articles which would continue to conform to the description and quality aforesaid for a period of **12 months from the date satisfactory receipt and installation of the stores**. Notwithstanding the fact that the Purchaser (Inspector) may have inspected and/or approved the said goods/stores/articles, if during the period of 36 months the said goods /stores /articles be discovered not to conform to the description and quality aforesaid or not giving satisfactory performance , the decision of the purchaser in that behalf shall be final and binding on the contractor/seller and the purchaser shall be entitled to call upon the contractor/seller for replacement of the defective goods/stores/articles or such portion thereof as is found to be defective by the purchaser within a reasonable period, or such specified period as may be allowed by the purchaser in his discretion on an application made thereof by the contractor/seller, and in such an event, the above mentioned warranty period shall apply to the goods/stores/articles rectified from the date of rectification thereof, otherwise the contractor/seller shall pay to the purchaser such compensation as may arise by reason of the breach of the warranty herein contained.

11 **DELIVERY INSTRUCTION :**

Details of delivery of the item at consignee's place is as below:

The Head of the Department (Occupational Health), National Institute of Miners' Health, JNARDDC Campus, Opp. Wadi Police Station, Amravati Road, Wadi, NAGPUR - 440 023 (INDIA).


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- 12 **Liquidated Damage Clause:** The schedules of delivery and Installation/Commissioning as per P.O/S.O. should be strictly adhered to. In case there is delay either in the delivery or successful completion period, the firm will be liable to pay the liquidated damages @ 2% of the total value of the order per month or part of a month during which the delivery of such stores may be in arrears where delivery thereof is accepted after expiry of the aforesaid period, provided that the total damages so claimed shall not exceed 10% of the total contract price.
- 13 **INSURANCE:** In case of procurement of stores under cost insurance paid or CIP terms, the insurance should be covered from supplier Warehouse to NIMH Warehouse so that the entire transshipment will be at the Risk & Cost of the supplier.
- 14 **BID EVALUATION CRITERIA:**
The lowest total financial offer (inclusive of all financial/ cost aspects) as the ultimate landing cost up to the consignee's place, among the only technically acceptable bids will be selected.
- 15 **ARBITRATION CLAUSE:**
In the event of any question, dispute or difference arising out of or in connection with the contract, the same shall be settled amicably by mutual consultations. If such resolution is not possible then the unresolved dispute or difference shall be referred to the sole Arbitration by a person appointed by the Director, National Institute of Miners' Health, Nagpur - 440 023 and shall be conducted at the Jurisdiction of Nagpur Bench of Bombay High Court at Nagpur only.
In the event of any question, dispute or difference arising under these conditions or any special conditions of contract, or in connection with this contract (except as to any matters the decision of which is specially provided for by these or the special conditions) the same shall be referred to the sole arbitration of an officer appointed by the Director, National Institute of Miners' Health, Nagpur. It will be no objection that the arbitrator is a Government Servant that he had to deal with the matters to which the contract relates or that in the course of his duties as a Government servant he has expressed views on all or any of the matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties to this contract.
The venue of arbitration shall be the place from which formal Acceptance of Tender is issued or such other place as the Director, National Institute of Miners' Health, Nagpur at his discretion may determine
- 16 The bidder will provide a "Specification Compliance Sheet" (as per Annexure II of Chapter 6) in a prescribed format, along with the Technical Bid, stating buyer's specification in verbatim in one column and bidder's compliance/ deviations/ remarks in other columns against each and every point of buyer's specification .
- 17 **BID SECURITY :**
- Except the valid and prescribed **BID SECURITY** amount for **Rs.1,00,000 (Rupees One Lakh only)** the offer/tender will be treated as cancelled.
 - The norms/modes of paying **BID SECURITY** are stated below: -
 - In way of Demand Draft from reputed commercial bank in favour of "*National Institute of Miners' Health, Nagpur*" payable at Nagpur.
 - Bank Guarantee from reputed commercial bank in favour of '*National Institute of Miners' Health, Nagpur*' valid up to 6 months from the date of opening of tender. [*Format for furnishing Bid Security in way of Bank Guarantee, is as per Chapter 5*]
 - No interest is payable on the **BID SECURITY DEPOSIT AMOUNT**.
 - The validity of the Bank Draft/ Bank Guarantee submitted as the **BID SECURITY**, should be suitably extended by the Bidder, if need be, beyond validity of the tender.
 - The **BID SECURITY** will be returned to the *unsuccessful* Bidder. It will be returned to the *successful* Bidder after receipt of the **PERFORMANCE SECURITY DEPOSIT** (see Point 17 below) from them.


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f. In case of withdrawals or amends or impairs or derogates or non-compliance of Tender condition(s) of the offer in any respect within the validity period of the tender or refusal of furnish **PERFORMANCE SECURITY DEPOSIT** in the event of getting intimation of awarding the Purchase Order, the **BID SECURITY** amount is liable to be forfeited.

18 PERFORMANCE SECURITY

[i] The successful bidder is to submit **PERFORMANCE SECURITY DEPOSIT** amount (10% of the order value to be intimated later) before issuing Purchase Order. This **Performance Security Deposit** should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period.


[ii] **PERFORMANCE SECURITY DEPOSIT** is to be furnished in way of Bank Guarantee in the form to be provided later Or (b) Fixed Deposit Receipts from a reputed Commercial Bank.

[iii] In case of non-delivery of the ordered materials in time or/and for any other bad delivery performance or/and failure of the delivered material or failure to render contracted warranty service to the delivered materials/instrument during the warranty period (summarily noncompliance of due performance of the supplied materials/ instrument or the contract by the supplier to whom order has been awarded), the **Performance Security Deposit** will be forfeited.

[iv] The **Performance Security Deposit** amount will be returned to the Supplier after satisfactory completion of the delivery as well as the warranty period of the delivered stores as per terms and condition of the Purchase Order.

19 Payment Terms: As per GFR Rules issued by Govt of India.

20 The goods are to be supplied in accordance with the Purchase Order. If Quality of any supplied material is found not satisfactory, on receipt, by the ultimate consignee, the decision of the Independent Surveyor in India shall be binding on the supplier of material, in regard to inadequacy of packing or improper material handling or for that reason damage in transit. The supplier, in that case, shall have the risk, cost and responsibility to replace the damaged material.



(Raj Kumar)

Administrative Officer,
National Institute of Miners' Health, Nagpur

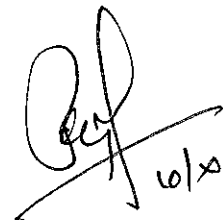
Chapter-4

No. NIMH/ OH/14(27)/2016-17

NORMS FOR BID SECURITY DEPOSIT (REFUNDABLE)

- (A) All the Tenderers are required to furnish Bid Security/Earnest Money Deposit to the tune of **Rs.1,00,000** (Rupees One Lakh only) along with the tender failing, which the offer will be ignored.
- (B) For proof of registration, tenderer must furnish photocopy of their registration certificate along-with their offer and the tenderer is to ensure to this effect.
- (C). The Bid Security/Earnest Money Deposit can be furnished in any way of the following Firms:-
1). Crossed Bank Draft, Fixed Deposit receipt, Banker's cheque or Bank Guarantee in favour of National Institute of Miners' Health, Nagpur from any Indian Commercial Bank payable at Nagpur.
2). Bank Guarantee in favour of National Institute of Miners' Health, Nagpur from any Indian Commercial Bank.
- (D) The Bid Security/Earnest Money in the form of Cheque in any forms are not acceptable and the tenders will summarily be ignored.
- (E) Any offer by unregistered tender not accompanied with the Bid Security/Earnest Money in the above-mentioned forms shall be rejected straightway.
- (F) The Bid Security/Earnest Money is to be remained valid for the period of 180 days from the date of opening the tender and is to be remained valid for a further period of 45 days beyond the final bid validity period. In the validity of the Bank Draft etc. submitted, should be suitably extended by the Tenderer, if needed beyond validity of the tender, failing which the offer after the expiry of the validity of the tender should be considered by the purchaser on the Earnest Money Deposit.
- (G) The validity of Bank/Demand Draft should be extended suitably by the successful tenderer, if need be, until the order contract materialises fully or as per desire of the purchaser. No interest will be payable by the purchaser on the Deposit.
- (H) The Bid Security/Earnest Money deposited is liable to be forfeited if the tenderer withdraws or amends or impairs or derogates the offer in any respect within the period of validity of the tender.
- (I) The Bid Security/Earnest Money of the successful tenderer shall be refunded after performance security deposit as required vide Rule 158 of the General Financial Rule 2005 is furnished. If the successful tenderer fails to furnish the security deposit as required vide Rule158 of the General Financial Rule 2005 then the Bid Security shall be liable to be forfeited.
- (J) The Bid Security/Earnest Money of the unsuccessful tenderers will be returned as early as possible after the expiration of the period of tender validity (but not later than 30 days of the award of contract).
- (K) The tenderer shall send a pre-receipted challan along with their tender so that the refund of Bid Security/Earnest Money, after the tender is rejected, can be made within the stipulated period.

XXX



A handwritten signature in black ink, followed by a horizontal line and the date '10/10' written below it.

Chapter-5

BANK GUARANTEE FORMAT FOR FURNISHING BID SECURITY

Whereas.....
(Hereinafter called the "tenderer")
has submitted their offer dated
for the supply of
(Hereinafter called the "tender")

KNOW ALL MEN by these presents that WE
of..... having our registered
office at.....are bound unto
(hereinafter called the "Bank")

.....in the sum of
(hereinafter called the "Purchaser")

for which payment will and truly to be made to the said purchaser, the Bank binds itself, its successors and assigns by these presents . Sealed with the Common Seal of the said Bank this Day of 201...

THE CONDITIONS OF THIS OBLIGATION ARE:

- (1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity.
 - a. If the tenderer fails to furnish the Performance Security for the due Performance of the contract.
 - b. Fails or refuses to execute the contract.

WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature of the Bank official)



A handwritten signature in black ink, appearing to be 'B. S. D.', is written over a horizontal line. To the right of the signature, the date '10/12' is written.

ANNEXURE "I"

Tender/File.No. NIMH/ OH/14(27)/2016-17

Technical Specifications for Fabrication / Body Building of One Mobile Health Unit having facilities for Digital X- Ray, Audiometry booth and Pathology Lab**ITEMS TO BE PROVIDED BY INSTITUTE**

1. BUS Chassis: TATA LP 1512 TC/42 Bus chassis with Cowl BS-III or equivalent with Wheel base of 4225mm, Overall Length of 7380 mm and Max Width of 2434 mm.
2. X-ray machine: 300mA, High frequency mobile x-ray machine operate on single phase 230 V
3. Audiometry Booth: A modular portable audiometry booth [size of Approximately 3.3 X 3.3 X 6 Feet (LWH)]

TECHNICAL SPECIFICATIONS FOR FABRICATION

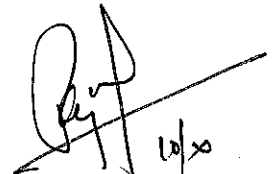
<u>Sr. No.</u>	<u>ITEMS AND REQUIRMENT</u>
<u>A</u>	<u>OVERVIEW</u>
	<ol style="list-style-type: none"> 1. The fabrication/ bodybuilding on a TATA LP1512 BUS CHASSIS or equivalent will be used as a mobile health unit having a chest x-ray facility, audiometry facility and a small lab facility. 2. The body should be an insulated box type structure, mounted on the Chassis and securely fastened with suitable suspension and shock absorbers for safety of equipments during travelling. 3. Apart from the driver cabin, the body is to be divided into two parts. One exclusively for x-ray facility built as per AERB guidelines with AERB Certificate. The remaining part should house CR cabin, an audiometry booth and a laboratory setup with shelves. Both the parts should have individual entry doors. 4. There should be appropriate support infrastructure (like air conditioning, water, power generator, water disposal etc.) in the vehicle. 5. The entire body structure should be shock proof for protection of equipments during travel and extra reinforced for equipment fitting with passivated hardware & fasteners. 6. The exterior dimensions should be as per the approved dimensions of Central Motor Vehicle Rules Act, 1989, as amended from time to time for provided bus Chassis. The entire Mobile Health Vehicle should be compliant of the norms of the Regional Transport Office and should have ALL INDIA PERMIT. 7. The drawings should be in 3-D and submitted along with the tender document. The bidders have liberty for exterior design and to design interior floor plan for maximum utilization of space available with modular shelves for storage. 8. The number of other items like stools, chairs, tables etc or any other changes shall be finalized in consultation with the Institute.



<u>B</u>	<u>BODY BUILDING</u>
	<ol style="list-style-type: none"> 1. Structure- Main body should be made up of all steel Fully MIG welded super structure using C.R. steel tubes. Duly primed with zinchromate yellow premier, anti rust treatment and 3m under body paint foundation. Channel should be of reputed make. 2. Exterior Paneling- Exterior roof and stressed skin panel should be ≥ 1.5mm thick, Aluminum sheets fixed by CO2 welding and PU sealant. Bottom panel should be of ≥ 2.5mm thick aluminum plates. 3. Air Suspension – Suspension suitable for the entire mobile health unit. 4. Glass- Front wind screen glasses should be of toughened glass of make Saint-Gobain. Driver's cabin windows with top fixed glass and bottom sliding glass. 5. Electrical Head Lamps, Tail Lamps, Height marker lamps etc, should be provided. Wiper motor assembly with arm and blade should be provided. 6. Doors - Mono closing flip opening type with locking arrangement. 7. Fitting Items- Provision for fixing generator, rear dickey with door, spare wheel, Battery, RV mirror with brackets, door assist handles, wheel hub caps should be provided. 8. Painting- Automobile Paint, Colour as per approved design by NIMH. 9. Exterior- A/C outdoor provision, luggage provision, Roof carrier with detachable ladder, Fiber dashboard. 10. Reverse Camera with sensors
<u>C</u>	<u>EXTERIOR FABRICATION SPECIFICATION</u>
	<ol style="list-style-type: none"> 1. Provision to fix generator for X Ray Equipment with necessary cabling, change over switches from generator to external EB supply and water proof external power sockets, EB power short circuits breaker with sound and heat protective glass insulation paneling for generator room. 2. Luggage storage provision on Left Hand Side (LHS) and Right Hand Side (RHS). 3. Awning LHS of the vehicle - Constructed with square galvanized steel tubing, remote operated 4. External guttering to be provided for draining rain water, AC condensation etc. 5. Fiber Reinforced Plastic (FRP) water tank 200L on the roof and 0.25 HP motor pump set for water uploading to overhead water tank 6. Rear Ladder 7. Provision for fixing Air conditioner outdoor unit 8. Graphic design as per NIMH Approved Design 9. Foldable waiting table- 2Nos
<u>D</u>	<u>INTERIOR FABRICATION SPECIFICATION</u>
	<ol style="list-style-type: none"> 1. Fiber Reinforced Plastic (FRP) Interior roof, side wall paneling, partition and door. Fiber Thickness (5mm). FRR (Fire retardant resin). Chopped strand mat. Aluminum foil covered Glass wool insulation (12mm) between body cell and fiber. 2. Floor specifications - Should be internally welded steel frame with formed steel cross members. Flooring should be done of Marine Grade Plywood should be

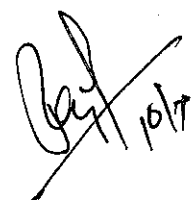

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	<p>bonded above the bottom panel . On the floor should be pasted a 3 mm thick industrial grade, durable, non-slip, anti-static coated vinyl flooring of superior quality of the color and design as per approved plan. The Entire flooring should be water proof using adequate coating and under coatings. Floor should have adequate initial steel framework reinforcements for mounting equipment and other gadgets and accessories securely.</p> <p>3. Roof specifications: Made of insulated sandwich panel as per specifications mentioned before.</p>
	<p>X-RAY CABIN</p> <ol style="list-style-type: none"> 1. Size : As per AERB Norms. 2. LEAD SEALED INSULTATION: Lead sealed insulation should be installed as per Atomic Energy Regulatory Board (AERB), Government of India. Supplier has to get the testing and certification by the statutory regulatory board. Certificate will be submitted along with the vehicle at the time of delivery to the NIMH. 3. Provision of fixing portable X Ray unit and mobile stand as per equipment principal installation norms 4. 230V, 15A plug without any external transformer for X Ray equipment 5. Sensor Operated Bio-Waste bin (12L Volume) 6. Fire Extinguisher 5Kg–dry powder type, 7. Dressing Room: Dress/ Apron / Lead shield protector handle, 8. Dressing Room: Hanger (2 Nos) 9. Lead Shield Glass (Visible type) 10. 9w adjustable LED down light (6 no.s)
	<p>CR CABIN</p> <ol style="list-style-type: none"> 1. CR System/Operating Console fixing provision as per Equipment principal installation norms. 2. 220V, 15A, 50Hz power sockets for CR System 3. 6w Adjustable LED down lights (2 Nos.) 4. Revolving stool for CR Technician 5. Overhead Cupboard storage provision 6. Sensor Operated Bio-Waste bin (12L Volume) 7. Water bottle stand 8. 220v Fan
	<p>PROVISIONS FOR FIXATION OF AUDIOMETRIC BOOTH</p> <ol style="list-style-type: none"> 1. 6w Adjustable LED down lights (4 Nos.) 2. 220V, 15A, 50HZ power sockets for Audiometric Equipment 3. Revolving Stool for Technician 4. Monitoring Table for conducting test 5. Audiometric Chamber fixing provision 6. 220v Fan
	<p>LABORATORY</p> <ol style="list-style-type: none"> 1. Lab equipment table modular type with under storage drawer with locking system for storing biochemistry lab equipments and accessories with proper shock absorbers 2. 6w Adjustable LED down lights (2 Nos.) 3. 220V, 15A, 50HZ power sockets as required 4. Refrigerator (about 100 Liters) for storing kits and reagents 5. Revolving stool for Lab Technician

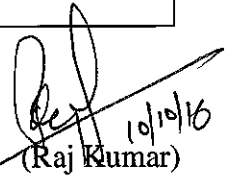


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	6. Overhead Cupboard storage provision 7. Sensor Operated Bio-Waste bin (12L Volume) 8. Water bottle stand 9. Apron Screen Provision 10. Wash Basin
	DRIVER CABIN Driver and Co –Driver Seat Audio System with Speakers Water bottle Holders , Multiple –pin charger 24w Fan , LED lights Vehicle Electrical control paneling
<u>E</u>	ELECTRICAL FITTINGS
	1. It would include External Power Source (Shore Power) and Petrol Generator. 2. Alternating Current Supply (AC) and Direct Current Supply (DC) i.e. from Vehicle battery or additional battery. 3. Cables used shall be BIS marked (Reputed make). 4. Copper conductors to be used should be with fire retardant PVC insulation and should be able to withstand working temperature upto 70 Degree Celcius. 5. External power source should be in an accessible and well protected area from rain etc. 6. Electrical cables should be internally concealed and located such that no part can make contact with any fuel line or exhaust system subjected to excess heat. 7. Suitable special insulation to be provided where required 8. Every electrical circuit should be provided with fuse. 9. Electrical layout plan to be pasted at visible location. 10. Adequate number of 5 and 15 Amp plug points along with switches of Standard quality (BIS). Location and number to be finalised as per design.
<u>F</u>	GENERATOR
	1. GENERATOR of Reputed make: Number and Power of Generator of suitable requirement to run all the equipments will be decided in Prebid meeting 2. Generator should be enclosed in sound proof, vibration free compartment, preferably under chassis. 3. Generator control should be provided in the cabin. 4. Adequate exhaust provision should be made. 5. Inverter of reputed make and capacity should be provided
<u>G</u>	AIR CONDITIONERS
	1. The entire vehicle should be air conditioned. Divided into driver cabin, the x-ray cabin and the remaining area. 2. Driver cabin - One vehicle mounted blower type air conditioner will be operational when the vehicle is in motion while travelling. This air conditioner will be operated through vehicle engine. 3. Required number and tonnage of split AC for remaining part of the vehicle will



	be decided in Prebid meeting 4. Reputed Make.
H	EXTERIOR AND INTERIOR LIGHTING
	1. Illumination inside the container will be according to BIS/ISO standard. 2. All lighting should be LED based 3. Make should be specified 4. The total number, intensity and design of lights shall be finalized as per drawings.
I	POWER ENTRY PANEL
	The vehicle should have power panel. Panels to have heavy duty water proof connectors. Connector ends to be leveled down in order to protect water entrance. Panels should contain appropriate fuses, and lighting protectors. Panels should have 2 AC power entry (one for power supply and other for line power) and 1 DC power entry to use truck's 12 or 24 VDC power.
J	WATER SYSTEM SPECIFICATIONS
	1. Fiber Reinforced Plastic (FRP) water tank 200L should be provided 2. One wash basins in the lab area. 3. Sink and taps of branded, stainless steel type 4. Provision for mirror, soap dispenser, towel ring etc.


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**TECHNICAL COMPLIANCE STATEMENT FOR FABRICATION /BODY BUILDING OF
ONE MOBILE HEALTH UNIT HAVING FACILITY FOR DIGITAL X-RAY, AUDIOMETRY
BOOTH AND PATHOLOGY LAB**

(Kindly fill the below format with details of Fabrication of Mobile Health Unit offered by you)

ITEMS TO BE PROVIDED BY INSTITUTE

1	BUS CHASIS	TATA LP 1512 TC/42 Bus chassis with Cowl BS-III or equivalent with Wheel base of 4225mm, Overall Length of 7380 mm and Max Width of 2434 mm.	
2	X-RAY MACHINE	300mA, High frequency mobile x-ray machine operate on single phase 230 V	
3	AUDIOMETRY BOOTH	A modular portable audiometry booth [size of Approximately 3.3 X 3.3 X 6 Feet (LWH)]	
COMPLIANCE OF TECHNICAL SPECIFICATION FOR FABRICATION		YES	NO
SR. NO	ITEMS AND REQUIREMENT		
A	OVERVIEW		
B	BODY BUILDING		
C	EXTERIOR FABRICATION SPECIFICATION		
D	INTERIOR FABRICATION SPECIFICATION		
	X-RAY CABIN		
	CR CABIN		
	PROVISION FOR FIXATION OF AUDIOMETRIC BOOTH		
	LABORATORY		
	DRIVER CABIN		
E	ELECTRICAL FITTINGS		
F	GENERATOR		
G	AIR CONDITIONER		
H	EXTERIOR AND INTERIOR LIGHTING		
I	POWER ENTRY PANEL		
J	WATER SYSTEM SPECIFICATION		

(Signature and Seal)

Full Name: _____
Place: _____ Date: _____


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