

NATIONAL HEALTH MISSION, RAJASTHAN




Expression of Interest (EOI) for Rate Contract for Procurement of ALS Ambulances with Negative Pressure

Mission Director,
National Health Mission,
Government of Rajasthan, Jaipur

EOI/ RC Ref No.: PA-MDNHM/2021/213

Dated: 20-05-2021


Dr. Praveen Aswal
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Rajasthan, Jaipur

EXPRESSION OF INTEREST

The Rajasthan State Health Society (RSHS) intends to procure the **ALS Ambulances with Negative Pressure** on urgent basis to manage the Covid-19 pandemic. EOI has been invited from the Manufacturers (OEM)/ Authorized distributors/ Authorized Partners for the Rate Contract for Procurement of ALS Ambulances with Negative Pressure. Interested parties may please submit their techno-commercial proposals in prescribed formats as attached along with the documents as per EOI Rate Contract to The Mission Director, National Health Mission (RSHS), Jaipur, Rajasthan. Bidders have to submit their proposals only through e-mail: md-nhm-rj@gov.in latest by 25.05.2021 (17:00 Hours).

The proposal can also be seen at department's website rajswasthya.nic.in and <https://sppp.rajasthan.gov.in>




MISSION DIRECTOR
NATIONAL HEALTH MISSION, JAIPUR
RAJASTHAN

EXPRESSION OF INTEREST (EOI) SCHEDULE SHEET

EOI RC Reference No.	
Name of Organization	National Health Mission. Rajasthan
Bid type	Expression of Interest (EOI) for Rate Contract
Date of Publishing	20-05-2021
Document Download Start Date	20-05-2021
Document Download End Date	25-05-2021
Bid submission Start Date	20-05-2021
Last Date and Time for Submission of Techno-Commercial bid	25-05-2021 till 05.00 pm
Mode of Submission	Through email md-nhm-rj@gov.in
Bid opening	The bid will be opened on 25-05-2021 at 05.30 pm


The items under this EOI are COVID related, so exemption from the provisions of RTPP ACT and RTPP RULES is available through Finance Department's notification dated 18.04.2021.

1. The proposal can be downloaded from department's website rajswasthya.nic.in and <https://sppp.rajasthan.gov.in>
2. Bidder has to submit their quotations (rates) in prescribed BOQ format as annexed with this bid document.
3. The rates should be F.O.R. at any place in Rajasthan as directed by State Govt, inclusive of all kinds of taxes, freight charges or any other charges etc.


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Documents Required For Eligibility (Checklist)

SL	Eligibility Criteria	Document to be Submitted
1.	<p>Status of firm- The Bidder can be a Company (Bidding Company) or a Consortium of Companies (Bidding Consortium) with one of the Companies acting as the Lead Member of the Bidding Consortium.</p> <p>The Bidder shall be either an OEM of vehicles/Authorized Dealer of OEM/Fabricators/Medical Equipment Suppliers.</p> <p>In case of Consortium, the lead member shall be legally responsible and shall represent all consortium members, if any, in all legal matters.</p>	Certificate of Incorporation under Companies Act 1956 or 2013 (for Indian companies) / Registration Proof.
2.	OEM should be manufacturer of certified AIS – 125 (Part I) ambulance vehicles	Proof of certification
3.	Technical specification Compliance along with Catalogue	Annexure- 2
4.	PAN Card of the Bidder	Dually Signed and stamped Copy.
5.	GSTN	Copy of GSTN Certificate.
6.	Delivery Schedule	Annexure-A
7.	Details of proposed vehicles and proposed fabrication	Annexure-B
8.	Firm data format	Annexure-C
9.	Self Declaration regarding not debarred/ black listed by State of Rajasthan/ Central Govt./ their PSUs.	Annexure -D
10.	<p>Financial Turn Over: The firm should have an average annual turnover of INR 25.00 crore or more in the any last three (3) consecutive Financial Years (2020-21, 2019-20, 2018-19 and 2017-18)</p>	CA certificate clearly specifying the annual turnover for the specified years. Annexure-E
11.	Format Of Undertaking For Bid Submission	Annexure-F
12.	Financial Bid (BOQ)	Annexure-3


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
TERMS AND CONDITIONS

1. The items under this EOI for Rate Contract are COVID related, so exemption from the provisions of RTPP ACT and RTPP RULES is available through Finance Department's notification dated 18.04.2021.
2. The bidders are advised to explicitly read this EOI document and if the bidder agrees to all the points included in bid, may submit their proposals in the manner as described herewith.
3. The bidders are not required to pay the cost of the bidding document and may download it from the Departmental website www.rajswasthya.nic.in and <https://sppp.rajasthan.gov.in>.
4. The bidders are not required to submit any bid security for this tender.
5. The bidders should not have been blacklisted / debarred in last 3 years from the date of submission of bid by any Government Department/Central Govt./Public Sector Undertakings of India.
6. The bid validity for the bids quoted shall be for a period of 90 days from the date of opening of bids.
7. Rates approved through this Rate Contract shall be valid for six months from the date of issue of supply order i.e., the RC shall be valid for six months.
8. No advance payment shall be made with regard to this EOI, without the bank guarantee of an equivalent amount.
9. Payment will be released only after successful supply and acceptance reports of the ALS Ambulance with Negative Pressure, as per terms and conditions of this EOI.
10. The duly filled bids, with copies of the documents required, shall be submitted to the specified email address only, within the prescribed date and time for the submission of the bid.
11. Mission Director, Rajasthan State Health Society, National Health Mission, Jaipur reserves the right to accept or reject any or all the bids received in this procurement process, without assigning reasons.
12. The bidder is required to include all costs related to supply of new vehicles, warranty, insurance, inland transportation for vehicle delivery, servicing and other miscellaneous charges in their financial offer to be submitted in the prescribed format attached.
13. Prior to the expiry of the period of validity of the bid, the successful bidder shall be notified through a Letter of Acceptance (LoA) sent through email that its bid has been accepted.
14. Upon receipt of the LoA, the successful bidder(s) shall submit acceptance and submit performance security 2.5% of the amount of approved price/ Rates per unit for 50 units


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of ALS Ambulance with Negative Pressure and execute Agreement on a non judicial stamp paper of Rs, 1000/- only.

15. Rates quoted should be all inclusive for carrying out activities in the scope of supply and installation and warrantee of supplied item during warrantee period.
16. Code of Integrity : No person participating in a procurement process shall act in contravention of the code of integrity prescribed by the State Government.
17. Conflict of Interest : A conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations. A Bidder should not have a conflict of interest in the procurement.
18. Clarification of Technical or Financial Bids : To assist in the examination, evaluation, comparison and qualification of the Technical or Financial Bids, the Bid evaluation committee may, at its discretion, ask any Bidder for a clarification regarding its Bid.
19. Evaluation of Qualification of Bidders in Technical Bids: by the committee based on criteria that bidder whose proposal technically is found responsive will only be considered for price evaluation.
20. Performance Security Deposit is required to be deposited and it will be equal to 2.5% of value of 50 units as per approved price/ rates per unit in the form of DD/BC/FDR/Bank Guarantee from any scheduled bank (having its branch at Jaipur) in favour of Mission Director, National Health Mission, Jaipur. The Performance bank guarantee shall remain valid for a period of 3 months (three months) beyond the date of expiry of the all liabilities and responsibilities from the date of issue. The Performance Security is to ensure due performance of all obligations of the agency under the contract against an event of default by the agency and/or any material breach of its obligations there under. The security deposits shall not carry any interest during the tenure of the Contract.
21. The performance security deposit shall be refunded after adjustment of outstanding dues, if any, made in accordance with this contract, to the bidder on his application within one month after at the end of full term of contract period and fulfilment of all the responsibilities as per the agreement.
22. Liquidated Damages: Subject to provisions of EOI, if the Supplier fails to deliver any or all of the Goods or perform the Installation services within the period specified in the Contract, the Procuring Entity shall, without prejudice, LD shall be made on the


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basis of following percentages of value of stores which the tenderer has failed to supply :-

(a) Delay up to one fourth period of 2½% the prescribed delivery period.

(b) Delay exceeding one fourth but 5% not exceeding half of the prescribed delivery period.

(c) Delay exceeding one fourth but 7½% not exceeding three fourth of the prescribed delivery period.

(d) Delay exceeding three fourth of the 10% prescribed delivery period.

Note : (i) Fraction of a day in reckoning period of delay in supplies shall be eliminated if it is less than half a day.

(ii) The maximum amount of agreed liquidated damages shall be 10%

23. Signing of contract After acknowledgement of the Letter of Award (LOA) by the Selected Bidder and submission of performance security, it shall execute the Agreement within a three days from the date of issuance of LOA. The Selected Bidder shall not be entitled to seek any deviation in the Agreement. If the Selected Bidder fails to sign the Agreement within the stipulated time, procuring entity may cancel the his notification of award and may invite the next lower Bidder for negotiations. and may issue LOA to him.


24. MD, NHM, Jaipur shall reserve the right for deduction dues from the performance security deposit, at any stage of agreement, i.e., current/ completion/termination/surrender, against:

1. Any amount imposed as penalty and adjustment for all losses/damages suffered by Procuring Entity for any non-conformity with the terms & condition of the agreement.
2. Any amount for which Procuring Entity becomes liable to the Government/ Third party due to any default by any employee / agent of the supplier.
3. Any payment/ fine imposed under the order / judgment of any court/consumer forum or law enforcing agency or any person working on behalf of the Supplier.

25. All safety measures required for COVID-19 pandemic shall be complied with.

26. Any Dispute will be subjected to the Jurisdiction of Court at Jaipur, Rajasthan, India only.

27. The number of supply of ALS Ambulance with Negative Pressure under this Rate Contract shall be 50. The MD, NHM shall issue orders for procurement and supply as and when required and of the number of units as required. The number of supply of units can be more or less, as per requirement for COVID management of the state.


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SPECIAL TERMS AND CONDITIONS

Technical proposal

- a. Bidders shall submit the technical proposal in the proposed formats.
- b. Failure to comply with the requirements shall make the Proposal liable to be rejected.

Right to accept/reject any proposal or all proposals

The procuring entity reserves the right to accept or reject any Bid and to annul the Bidding process and reject all Bids at any time prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidders.

Responsibilities of selected Bidder

1. Provide brand new vehicles directly through the Vehicle manufacturing Company or the company's authorized showroom/dealer, as and when required by MD, NHM, as per the terms and conditions of this EOI and the Agreement signed thereof, during the currency of the contract period.
2. Provide equipment mentioned under technical specifications with comprehensive warranty, insurance and maintenance support at no extra cost.
3. Installation and commissioning of equipments as provided in annexure A.
4. Ensure compliance of the vehicle to various standards and performance requirements throughout the scope of the contract period as per standard norms and as provided in the EOI.
5. Provide all relevant invoices and vehicle papers in within specified timeline as given by MD, NHM.
6. Comply with procedures of RTO, Transport Department of the State of Rajasthan in registration of the vehicles, including payment of taxes and fee as required.
7. Provide comprehensive warranty support towards vehicle repair/replacement of the vehicle.
8. Provide and maintain all types of required insurance for the vehicles.
9. The bidder shall take comprehensive insurance and extended warranty for whole of contract period covering 100% costs incurred towards accident, theft, damage, repair, maintenance, replacement of any/all vehicle parts, including parts and equipment supplied/fabricated, etc.
10. The bidder at all times shall respond to the concerns raised by National Health Mission Jaipur Rajasthan with regard to vehicle maintenance.
11. Deliver equipped ambulances to the locations/ places/ institutions identified by the procuring entity.
12. Provide compliance to proposed vehicles, fabrication and equipment by filling the Annexure B.

13. On arrival of the Ambulances at destinations, the procuring Entity or its representative shall have the right to inspect and/or test any or all the ambulances to confirm their conformity to the contract.

14. If the ambulance or its performance is not as per specified conditions, the bidder shall rectify the deficiency or replace the ambulance to the satisfaction of the Procuring Entity.

Registration of vehicles

Selected bidder shall be responsible for registration of all vehicles. The registration will be in the name of MD, NHM, RAJASTHAN , JAIPUR.

Removal of rejected goods and replacement

If upon delivery, whether inspected and approved earlier or otherwise, if the material/equipment is not in conformity with the specifications, the same shall be rejected by the procuring Entity or his duly authorized representative and notification to this effect will be issued to the Supplier.


Insurance

The Supplier, at his cost, shall arrange, secure and maintain all insurance as may be pertinent and obligatory in terms of law to protect his interest and interests of the procuring Entity against all perils. The insurance covers to be taken by the Supplier shall be in the name of procuring Entity. The Supplier shall however be authorized to deal directly with the insurance company.

The insurance required to be taken by Supplier shall cover all risks including war, strike, riots and civil commotion etc. Notwithstanding the extent of insurance cover, the amount of claim available from the underwriters and the time at which claim is available from the under underwriters, the Supplier shall be liable to make good the full availability as per procuring Entity requirements.

Transportation

1. The supplier is required to deliver vehicles to the destinations specified in the contract and the cost thereof shall be included in the contract price.
2. The transportation of the Goods after the delivery at the final destination shall be the responsibility of the procuring Entity.


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Timeline for delivery of vehicles

The delivery schedule for the vehicles is provided as.

Ambulance Type	Numbers	Timeline (Number of days from date of issuance of Letter of Award (LoA))
ALS Ambulances with Negative Pressure		15 days from Date Of Order (LoA)
ALS Ambulances with Negative Pressure		30 days from Date Of Order (LoA)

Note: The bidders shall fill the number of vehicles that can be supplied by them in the time period specified above. The MD, NHM shall place order for supply as per requirement for COVID Containment/ Management in the state, up to 50 units of the ALS Ambulances with Negative Pressure.



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Details of proposed vehicles and proposed fabrication

PROPOSED VEHICLES

S.No	Ambulance Type	Make and Model proposed by Bidder (In compliance the vehicle specifications mentioned in this RFP)	Remarks
1.	ALS Ambulances with Negative Pressure		

PROPOSED FABRICATION

S.No	Fabrication requirements mentioned in this RFP	Proposed fabrication details (In compliance with the vehicle specifications mentioned in this RFP)	Remarks
1			
2			
3			
4			
Additional fabrication proposed by the Bidder			


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Firm Data Format

1. Name of Firm / Company:
2. Registered Address
3. Name of Contact Person
4. Contact /Mobile Number
5. E-mail address
6. Date of Incorporation
7. Core business activities
8. Number of years in business
9. No. of vehicles (Ambulances) supplied
10. Details of main branches and service centres in the State of Rajasthan
11. PAN of Firm/Company
12. GST of Firm/Company
13. Banks Details

Correspondence with respect to this tender may be addressed to

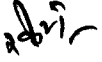
Mr/Ms.....at email
id

..... and mobile

no..... I/We accept that NHM may send SMS and/or email regarding this tender/any other tender, award of contract, purchase order(s) and/or any other information on any/all mobile nos. mentioned in this vendor data sheet. I/We certify that the information given herein is correct to the best of my knowledge and belief.

Signature and seal of bidder

Date


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Declaration by Bidder

I/ We Director / Partner of..... address of Registered Office..... hereby declare that I/we or any of our partner of the firm are not debarred by the any co-operation/ companies/ board/ PSUs/ department of Government of Rajasthan/ Government of India or blacklisted by them in last three years from participating in Bid(s), as on the (Date of Signing of Application).

I/We further that I am aware that, my/our proposal for captioned Work would be liable for rejection in case any material misrepresentation is made or discovered at any stage of the Bidding process or thereafter during the agreement period and the amounts paid till date shall stand forfeited without further intimation.

Dated this.....Day of....., 2021


Name of Bidder

.....

Signature of the Authorized Person

.....

Name of the Authorized Person



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Annexure-E

Annual Financial Turnover Statement

The average annual turnover of M/s address for past three years are given below and certified that the statement is true and correct.

Sr. No.	Financial Year	Annual Turnover
1	2017-18	
2	2018-19	
3	2019-20	
4	2020-21	

Note: Annual Turnover for any of the three consecutive years be mentioned.

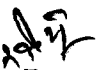
Average Annual Turnover:

Signature of Auditor/ Seal Chartered Accountant

(Name & Complete Address)

Tel. No.

Mob. No.



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**FORMAT OF UNDERTAKING
FOR BID SUBMISSION
(On Company's Letter Head)**

I/we M/S..... declare that I/we have read EOI and understood and that I/we accept all clauses, conditions and any addendum thereof, and descriptions of the EOI document without any change, reservation and conditions.

I/we carefully examined and confirm to all the parts of the EOI documents and have obtained all the requisite information affecting this proposal and I/we hereby propose, to implement the project as described in the EOI document in conformity with the conditions of agreement and the technical aspects as indicated in this EOI.

Signature and seal of Bidder

Name & Designation

Date:

Place:



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SPECIFICATIONS FOR ADVANCED LIFE SUPPORT AMBULANCES with Negative Pressure**Base Vehicle for Advanced Life Support Ambulance****BASE VEHICLE:**

The vehicle has to be procured by the vendor, fabricate and equip it and supply. The specifications are as under. While submitting the bid, the bidder should mention the details of the vehicle which they are going to fabricate and equip.

TECHNICAL SPECIFICATION FOR AMBULANCE Fitted WITH AC from OEM	
Parameters	Minimum Specifications
Vehicle Engine Capacity	Base vehicle should be compatible with all standards of National Ambulance Code AIS-125 (Part-1), category M2, Type D Road Ambulance (Advance Life Support Ambulance) and CMVR 1989 as amended from time to time.
Engine BHP	
Engine Torque	
Fuel Tank Capacity	
Length of Vehicle Body	
Width of Vehicle Body	
Height of Vehicle Body	
Ground Clearance	
Wheel base	
Type of Fuel	Diesel
Vehicle Emission Compliance	BS-VI
Vehicle Mileage	Minimum 8 KM/ Litre
Vehicle Compliance	Vehicle should be CMVR compliant and should comply with AIS125
Air Conditioning	As per AIS-125 (Part-1) or as amended from time to time
Heating System	As per AIS-125 (Part-1) or as amended from time to time
Type of Steering	Power Steering
Brakes	Antilock braking System mandatory
Warranty Period	As per Vehicle OEM's standard warranty Guidelines

Specifications for Fabrication

(Fabrication should be as per National Ambulance Code AIS-125 (Part -1))

Parameters for Negative Pressure

- Appropriate and technically designed suction system at Par with international standards maintaining Negative Pressure More than -15 pa with minimum 15-20 air changes /hour using certified filters for filtration of pathogens up to 99.97%
- The design of the ambulance should be in such a manner that the flow of the air towards the inlet of the ventilation system cleanly sweeps the patient bed so that the nasal or oral discharge from the patient is directly scavenged into the ventilation system.
- The negative pressure should be digitally displayed at all times when in use.
- The noise level in the patient cabin should be less than 45-50db

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1. Interior Panelling

Complete interior Panelling of the sidewalls, both sides of the partition wall between patient cabin and driver cabin, roof (of both patient and driver cabin) & back door panels should be with Seamless fire retardant moulded FRP with inbuilt Gel technology

The FRP panelling should have the following characteristics:

- Thickness - minimum 3 mm.
- Inbuilt colour.
- Fire retardant as per IS standard or latest,
- Should meet lamination standard IS or latest.

The complete interior should be edgeless and suitable for easy cleaning/scientific fumigation/treatment by disinfectants. The ambulance interiors should be designed with care to avoid injuries by fall of equipment or cylinder on persons inside the ambulance in case of turmoil due to bad road conditions. Panels shall be installed in a manner that prevents sagging, deflection, warping or vibration and they should be free from any sharp projections wherever there are any open/hollow areas behind walls and door. The MS sheet should be MIG welded to the body of the Vehicle structure as per Automobile standards and be coated with PU Primer to avoid any rusting. ARCH WELDING WILL NOT BE ACCEPTED.

Scoop And Spine Board and Wheel Chair Hold: A provision should be made available for securing the Scoop and Spine board under the Ramp created for Auto Loading Stretcher. There should be provision to install Wheel chair either on LHS door or inside the patient cabin


Identification sticker for all electrical switches, medical equipment and racks etc, to be pasted.

Fire extinguisher hold: Provision with straps / Velcro with reinforcement for placing a fire extinguisher should be provided as per drawing. A stainless steel / FRP holding bracket to be provided on the floor with proper size.

Window Covering: All the rear side Windows should have non transparent white film pasted from inside, more than half of the height of the window to avoid any visibility into the ambulance.

2. Insulation

There should not be any void between Vehicle body and FRP interior panelling. Insulation of 40 mm thick PUF/PU alongside the vehicle body with thermocol to fill the balance void Gap alongside FRP for reduction of heat and noise within the patient compartment. The insulating materials used should be Fire Retardant, non-toxic, non-settling type, vermin proof, mild dew proof and non-hygroscopic.


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3. Communication Window

A fixed window between Driver's Cabin and Patient Compartment should be provided at appropriate location for visual checks and voice communication between the cabin and patient compartment. This window should be transparent, shatter proof. This window should also have a roll down curtain.

4. Storage

Along the right and left hand side behind the driver's compartment and on either side of paramedic chair, for provision for storage of medicines should be made by providing self-locking cabinets or drawers with sliding doors as pockets.

Head rack along the left hand side along the roof, for storage. Two partitions in the centre of the head rack to be provided. The head rack should have suitable oval shaped closures to cover the openings which are easy/comfortable to operate and do not have any sharp edges at the openings.

Adequate provision for storage of medicines/consumables/equipment should be made by providing self-locking cabinets and drawers in fire retardant FRP/non wood material in sync with the ambulance's internal look and feel. The drawers should be on steel guide ways (of reputed brands only). The self-locking keyless locks should have integrated flushed handles for firm grip to open the sliders and the doors as the case may be. There should be provision made for safe disposal of separate medical & general Waste. 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 for waste disposal should be provided at the right hand side.

5. Flooring

Water proof fire retardant marine ply board with 12 mm thickness is to be used for flooring with maximum two joints. A non-static, mark resistant, scuff proof and safety flooring material with minimum 2 mm thickness to be glued properly without entrapped air bubbles and without any joints anywhere and the vinyl mat to be extended up to 24mm on the side walls. Only one sheet to be used from below wooden cabinet to end of the floor. All floor level mouldings, edging and trim shall be sealed to prevent fluids from seeping under cabinets, walls and ply board. 230 mm Long x 680 mm wide (from RHS wheel hump below the edge of the rear door) stainless plate (0.8mm) to be provided, under the stretcher loading area to prevent scratches. The SS sheet placed on floor should be fixed with flat head screws suitably placed to avoid any bulging of the sheet anywhere on edges or within.

6. Ambulance Seating

All seats in the patient compartment shall conform to detailed specification as mentioned below. Padding material shall be fire retardant foam of a medium to firm density (not less than 50 gsm) with a minimum finished thickness (padding and upholstery) of 70 mm for seat pads, and 45 mm for head and backrests. All padding and upholstery shall be fire retardant as per BIS/ISO/AIS. The upholstery


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shall be non-absorbent, washable and impervious to disinfectants. The upholstery should be made from reinforced fire retardant materials with minimum 1.0 mm thickness. All seats frames, surfaces and upholstery should be designed to facilitate cleaning and disinfecting. All exposed surfaces shall be free of vent devices that would permit the entrapment of biological contaminate. All seating position in the patient compartment should have vertical overhead clearance for getting into the seat and coming out.

A folding seat for the **Doctor/ Paramedic** should be installed facing towards the rear of the patient compartment with foldable side bar & it should be near to the primary patient's head for easy accessibility. This seat shall not be less than 40 cm deep, 40 cm wide, and 400cm height, measured to the top of the seat cushion and should have adequate restrains for the Doctor. The seat should have Velcro Belts to fold it up. It should have one waist seat belt.

A squad bench shall be installed along the left hand (on LH wheel hump) wall end with open able top Seat from inside. The top seat to be mounted on 4x75 mm with three bolts triangle seating four no. of heavy duty hinges with equal distance. All the three bolts should be mounted on the reinforcement given to squad bench.

Squad bench should have foldable side arms and to be made of FRP outside and with the Mild steel (MS) angular 4 mm thick frame reinforced within as per drawing, to carry 450 kg weight. Three compartments at equal distance to be made in squad bench for storage of rescue tools. All the storage compartments should have sufficient reinforcement with 32*4 angular frames. The seats should have three point retractable seat belts, which should be neatly folded into the wall groove of the FRP when not in use.

Back rest with high density cushions equal in length of squad bench with proper reinforcement.

The inner box area should be covered with the 4mm thick black color Heatlon sheet properly glued to the inner surface and squad bench and floor joints to be sealed with silicon paste sealant to prevent water seepage into the storage area.

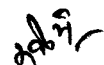
Mounting to be provided for Suction Apparatus in between the medical cabinet and squad bench.

7. Foot Step

The footstep should be provided appropriately, if the patient compartment floor is more than 46 cm above the ground. This step should be transverse length equivalent to the door opening. If there is more than one step, the steps should be equidistant. The steps shall not be located or exposed to the interior of the ambulance, even when the rear door is closed. The step tread shall have minimum depth of 13 cm and maximum depth of 27 cm, if the steps protrude more than 18 cm from the rear the vehicle, fold-up steps should be provided.

8. IV Holder

At least two ceiling lockable mounted which do not allow movement of IV bottles.


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9. Grab rail

Grab Rail made of Stainless steel/hard plastic with proper support / fixing for ease in entering shall be installed at both sides. The ceiling should have sufficient number of foldable grab handles.

10. Oxygen Delivery System

The ambulance shall have piped medical oxygen system (manifold) capable of storing and supplying medical grade oxygen. The manifold should have two 'D' Type oxygen cylinders. The cylinders should be changeable from outside the patient compartment and a cylinder changing wrench should be housed at an appropriate location. Cylinders will be provided by the end users

Each cylinder should be individually connected to a European CE certified medical oxygen grade pressure reducer complying to ISO standard in such a way that one cylinder acts on duty and the other as a stand-by. Both these reducers should be capable of reducing the cylinder pressure to a static outlet pressure of 4 bars -100 LPM and should include a safety relief valve. It should maintain precise readings and calibrations during ambulance operation and not be affected by the temperature conditions. The pressure reducer should not weight more than 500 Gms /each.


Changing from one cylinder to the other should be manually and occur with operation of medical oxygen grade valve. The inlet port of the regulator should be connected to both the cylinders in parallel, allowing any of the cylinders to be in line or of line with the cylinder at any point of time without closing the individual cylinder valves.

The patient cabin must have a manual display panel for oxygen supply status. The display panel should be certified for use with Medical Oxygen and should have individual LED/LCD display windows to constantly indicate the pressure level of both the cylinders.

Minimum two CE certified medical grade oxygen outlets along with changeover valve for the patient, on right side wall near the patient's head end (distance between patient head and oxygen 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.

There should be no welded joints in the entire connection assembly of the oxygen distribution system. The manifold should be so designed that it shall ensure proper fixation of cylinders during travel and should ensure easy cylinder changing and positioning. There should not be any electrical connection in near vicinity or inside the oxygen cylinder housing, except pressure regulator integrated with flow control valve.

There Should be one CE certified Dial setting type or Moving Ball flow meter. Pressure compensated and calibrated for inlet pressure range of 3.5 -4.5 bar, be able to regulate the flow from 0 to 15 litres per min and should show the actual oxygen flow rate. Installed vertically so as to not interfere with the other outlets and should be easily readable from the Doctor's/Paramedic' seat. The inlet probe should be fully adaptable to the terminal outlet in the ambulance as well as to the outlet adapter of the portable oxygen cylinder specified below in the list of medical equipment. The outlet of the flow-meter should be universal in design to accept the humidifier, the flow selector switch or a direct connector. Should have a humidifier made up of an impact resistant polycarbonate bowl with cap


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and inlet outlet nipples and Should include a flow selector switch to bypass the flow of the oxygen through the humidifier and allow nebulization to the patient directly using the flow of the oxygen .

The flow meter should be supplied with a direct connector to provide oxygen therapy without humidifier, insufflation kit and nasal prong.

11. Air Conditioner

The patient compartment should be fully air-conditioned by the OEM vehicle manufacturer as per CMVR guidelines and should have uniform cooling. The AC vents should be provided in both patient and driver compartments.

12. Fog Light

The vehicle shall be equipped with bumper mounted Fog Lights with stone guards with on / off switch on the front cab console.

13. Light Bar / Public Address System

Emergency Light Bar cum Public Address System at the top of the vehicle on the front end. The layout should comprise of LED flashing lights. Each light bar should have minimum four high intensity LED flashes and a speaker in the centre. The light bar control unit must have all the necessary control for the various components of the light bar. It must have a microphone to be used to address anything to the mass outside the vehicle in any situation of disaster or natural calamity or any other similar situation. The control unit should be connected to the light bar via the connecting wires all inside a master wire sleeve. It should have variable tones like Wail, Yelp, Hi-Lo, Horn, Siren, Manual. The operational voltage should be 12V DC. The power consumption should be maximum 100W. All the controls should be provided on the drivers console.

14. Lighting and Illumination (Exterior and Interior)

The automotive grade exterior ambulance lighting CMVR or equivalent certified should meet the day as well as running lights requirements with minimum.

- i) LED (6Nos) high intensity Flashers, red-orange pair on both side, and both red on the rear of the vehicle.
- ii) LED (3Nos) Spot / flood lights on three sides, except on the front, in the middle of each pair of Flashers.
- iii) LED Spot lights 3 (non-external lighting) in ceiling inside the Patient compartment equally placed.
- iv) (4Nos) LED lights with fixture in 12V DC powered on the both sides for internal lighting each on a separate circuit giving min 100 LUX at any point in the Ambulance compartment.
- v) 2 Nos. 12V DC- sockets 10 Ampere capacity power source near equipment console area and be on a separately protected circuit.

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vi) Intubation Patient spot light (LED) fixed over the head side of the patient trolley on the ceiling of the Patient compartment with min 500 LUX over the patient trolley.

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 fuse should be housed in the fuse box covered or at appropriate place. The engine electronic system also should be immune to interference of radio frequency transmissions. 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 weather proof. The wiring shall with stranded wire.

All switches, connectors, end-wiring should be rated to carry out minimum 125 %of their maximum ampere load. All wiring should confirm to IS standard 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") away from exhaust system components.

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.

15. Electrical wiring and sockets etc.

There should be at least three numbers of 220 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 ISstandards. 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.

Sufficient "Power Point" type connection shall be furnished in the patient compartment. Each connector shall be rated for 12-volt DC, 10 Ampere capacity and be on a separately protected circuit.

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 equipment and material indicated for connection to a wiring system rated 220 volts nominal 2 wire with ground shall incorporate a minimum 15 ampere circuit breaker

which can be used as a master AC disconnect switch. 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 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 weather proofed. The AC wiring shall be with stranded wire.

All switches, connectors and wiring should be rated to carry out minimum 125 % of their maximum ampere load. All wiring should conform to IS standard 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") away from exhaust system components.

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.

16. Inverter


True sine wave inverter of 600 watts / 800 VA capacities shall be provided with the additional min 100Ah battery placed inside the driver's cabin with provision to be charged from external AC power source and vehicle alternator. A 220-volt AC flanged inlet conforming to international/Indian standards, with spring loaded cover assembly suitable for wet locations shall be installed at tail end of the ambulance. The connection shall be permanently labelled with the following:

THIS CONNECTION IS FOR 200-VOLT AC, 50Hz, 15-AMPERE SUPPLY.

This receptacle shall energize the vehicle's internal AC circuit from an external power source (utility power). The Inverter should be of well-known brands. Minimum desirable input Range -AC 130V - 270V/ DC 9.5 V- 13.8 V, Frequency-50 Hz, Power Factor- 0.8. Output Voltage - 220 (+/-) 10% (regulated output from full charge battery voltage to low charged battery voltage), Waveform-Single Pulse PWM with Efficiency of 85%.

17. Roof / Wall mounted Fans

Oscillating 200mm fan blade brushless 2-speed switch operated by DC 12 V 2nos in the Patient compartment and one fan in Driver compartment shall be provided.


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18. Fire extinguisher hold:

2 Kg fire extinguisher ABC type, ISI certified should be provided with straps / Velcro and reinforcement for placing. A steel holding bracket to be provided on the floor with proper size.

19. Exteriors

Exterior colour of ambulance – as per Govt. guidelines.

Emblems and markings – as per Govt. guidelines.

White retro reflecting tape to fixed for front bumper – complete length

Red retro reflecting tape on rear door bottom – complete length

Yellow retro reflecting taping to be fixed on LH and RH side of the complete length of the body as per RTA rules and regulations.

(Only 3M make with 2 inch in size retro reflecting tape should be used)


Front and rear rubber mud flaps to be provided.

20. Clock

A digital clock is to be provided in the patient compartment. It should have a minimum Letter (font) Size of 50 mm to have better visibility

21. Extrication Equipment & Others

- 12" Wrench Adjustable Open End
- 12" Screw Driver Standard Square Bar
- 8" Screw Driver Philips Head # 2
- Hacksaw with 12" Carbide Wire Blade
- Vice Grip Pliers 10"
- 5lb Hammer with 15" Handle
- Fire Axe Butt 24" Handle
- Wrecking Bar with 24" Handle
- Bolt Cutter with 1" To ¼" Jaw Opening
- Shovel with Pointed Blade
- Tin Snips - Double Action 8" Minimum
- Mastic Knife
- Spring Load Canter Punch
- Goggles
- Pruning Saw
- AC/DC Rechargeable search light, 400 Meter range, water proof, docking station with auto charging facility


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MEDICAL EQUIPMENTS

1. Automatic Collapsible Stretcher cum Trolley: Should be AIS-0125 "D" Type Certified


- Multifunctional automatic stretcher with varied positions outside the ambulance. Using the most advanced technical skills to finish pulling the ambulance stretcher up to the ambulance automatically. It can easily adjust to various positions for emergency treatment under any complicated situations, especially compatible with ambulance environment.
- Should be made of high strength MS / SS OR Aluminium alloy.
- Should be able to convert into stretcher from trolley automatically with levers manually.
- Provision for head end elevation adjustable. Sitting posture for breathless patients - Maximum Angle of the Back 85°
- Should have side Railings to prevent fall of patients either side and to hold medical equipment
- IV fluid holding rod to go with the Stretcher
- Sufficient straps in number to restrain the patient.
- Fixing devices to secure the stretcher in place not allowing side to side or vertical movements in the ambulance while on run.
- Gross weight should not be >50 kgs.
- Bearing Pressure or minimum load: 150 Kgs.
- Product dimensions: Should not be less than 1950mm X 510mm X 960mm (Max.)
- Product dimensions: Should not be less than 1950mm X 510mm X 320 mm (Min.)
- Should be AIS-0125 "D" Type certified OR EN 1789

2. Scoop Stretcher

- Should be light weight, safe and reliable.
- Clutch Design/Locking device should be positioned off centre to allow easy closure from the patient head.
- Adjustable length according to patient's height
- Easy to lock and unlock
- Minimum 3 Quick release buckle belts
- Net weight: not more than 10Kgs
- Load capacity : 150kgs

3. Spine Board with Straps with head immobiliser

- High density polyethylene – Single Piece
- Rigid, Light & Floatable
- Resistant to bumps and corrosions.
- Non-observant, immune to infiltrations.
- Easy to clean.
- Net weight 9 KG.
- Load Capacity 150 KG.
- L X W X H is 1570mm X 40mm X 50mm


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4. Foldable Carrying Chair (Wheel Chair cum Stair Chair)

- Net weight: less than 10 Kgs.
- Pull through, telescoping long handles built in to lift patients & carry them through narrow passages

5. AC/DC- Suction Pump Portable

- Body should be made of lightweight ABS Plastic
- Collection bottle 1000 ml capacity Autoclavable with disposable liner and filter directly integrated in the cover.
- Overflow protection ensured
- Compact and light weight
- Inbuilt anti-flammable rechargeable battery with autonomy up to 75 minutes and battery status display
- Should be wall mounted docking station with a facility of 12V DC charging as per EN1789_2010 norms with 10G capacity mount from the same manufacturer

6. Ambu Bag Adult - Silicon

- 1600ml adult self-inflating double ended silicone bag with mounts
- Siliconised, double layered
- Side feed oxygen inlet
- Type "L" non-rebreathing valve
- Size 4 Clear hood facemask with silicone cuff
- 1.5 mtrs oxygen enrichment tubing
- Carrying case
- Auto clavable and USFDA/ CE European


7. Ambu Bag Child- Silicon

- 500ml Self inflating double ended silicone bag with mounts
- Side feed oxygen inlet
- Type "L" non-rebreathing valve with pressure limiting device 40 cms of water
- Size OA Circular Paed. All Silicone facemask
- Reservoir Hose with Adaptor to provide higher oxygen & 1.5 mtrs oxygen enrichment tubing
- Carrying case

8. Mouth to Mouth ventilation devises Adult, child and neonate of reputed manufacturer

9. Needle & Syringe Destroyer - Manual

- Maximum weight 2.5 Kgs
- Motion Tolerant


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10. Syringe Pump

- Flow rate programmable from point no. 0.1 to 900 ml per hour or more with user selectable flow set rate.
- Bolus rate should be programmable to minimum 400 to 500 ml per hour with infused volume capacity. Audio alarm after every 0.5 ml delivered bolus.
- Save last bolus/ infused rate even on power failure/ Switch off.
- Display of drug name with provision of memorising at least 5 to 10 drug names.
- KVO must be available with user selectable KVO.
- Various occlusion pressure triggers levels.
- Should work on commonly available syringe from 10 to 50 ml.
- Automatic detection of syringe size.
- Should alarm for wrong loading of syringe OR Flanges out of slots etc.
- Should have inbuilt battery backup for at least four hours.
- Should have comprehensive alarm package for OP limit exceed near end infusion, volume limit, KVO rate flow, low battery, AC failure.
- Should have safety certificate from competent authority ISO: 13485, European CE , drop tested and AIS-125 compliant

11. Defibrillator

- Bi- Phasic with 3/6 leads ECG, Separate Multipara Monitor which should be USFDA APPROVED, SpO2, Pulse, Heart rate, NIBP & light weight and latest model.
- Low Energy Biphasic defibrillator with recorder having capability to arrest all arrhythmia, with energy or 150-200 joules.
- Work on Automated External Defibrillation (AED) mode.
- Built in 50 mm strip printer/ thermal recorder/SD Card
- Should have minimum color TFT display of 5.7 inches
- Device should have battery backup of approximate 6 hours of monitoring
- Wall mount from the same manufacturer for installation in Ambulances
- The equipment should also be working direct i.e. without battery.
- Should have USFDA/ European CE by notified body, EN 60601-1

12. Nebuliser Reputed Make

- Provision for fixing/Hanging in the Ambulance desirable.

13. Hand held Glucometer – Reputed Manufacturer make

14. Multiple stiff neck adjustable Collars

15. Pneumatic Splints

- set of 6 adult sizes (Hand & wrist, Half arm, Full arm, Foot and ankle, Half leg & Fullleg) with carrying case
- 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
- Should be as per CE/FDA/BIS/ISI standards:

16. Emergency Kits

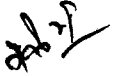
- Should have following items
- Manual Suction pump (foot operated)
- Gauze cutter
- Laryngoscope – standard – paediatric and adult
- Magill forceps , artery and toothed
- Endotracheal tubes
- Oral Airway
- Sphygmomanometer
- Stethoscope
- Thermometer
- Diagnostic hammer
- Penlight
- Tongue Depressor
- Syringe infusion set
- I.V. Cannula
- Tourniquet
- First aid surgical devices -
- Elastic bandage
- Sterile Gloves
- Adhesive plaster

17. Transport Ventilator

- 1) Should be wall mounted, light weight, robust and user friendly
- 2) Suitable for adults, children and infants
- 3) Modes of ventilation:
 - CMV
 - Assist Control
 - PEEP
- 4) Should have:-
 - Tidal Volume: 75 to 2000 ml
 - Respiratory Minute Volume: 3-12 l/min
 - Respiratory Rate: 5 to 40
- 5) Adjustable pressure limit automatically to avoid mechanical barotrauma in all patients.
- 6) Power source : Compressed air / oxygen (dependence on battery or AC power is not desirable)
- 7) It should have Alarms for:-
 - Stenosis
 - Disconnection (Audible and Visual)
 - Low Oxygen
 - Low battery

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- 8) It should be able to deliver respiratory rate ratio of up to 1: 2
- 9) FIO2: 100% oxygen and air mix, approx.45%
- 10) Ventilator should have certificate of AIR WORTHINESS
- 11) Equipment should be complete with carry bag, patient circuit, (Transport Ventilator Kit).
The 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.
Mounts should be from the same manufacturer.
- 12) Should have airway pressure monitor
- 13) It should have minimum IP X 4 rating
- 14) It should have operating temperature -18 to + 60^o C
- 15) Ventilator should be USFDA/European CE by notified body, EN 794-3, EN 60601-1, & EN - 1789.



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FINANCIAL BID FORMAT (BOQ)**Name of the firm/ Bidder**

S.No. (1)	Item Description (2)	Basic Rate per unit in INR (3)	GST (4)	Total amount inclusive of GST (5) (3)+(4)
1.	ALS Ambulance with Negative Pressure			

Note:-

- 1- In case of any discrepancy between the price quote in figures and words, the price quoted in words shall prevail over the price quoted in figures.
- 2- Nothing over and above shall be payable to the supplier, hence, the bidder must ensure that the quoted price includes all the taxes, duties, logistics, transportation charges etc.

Signature with Stamp of Bidder

Name of Bidder



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