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No. F.8()/RMSC/EPM/M-5/Amb. Fabri./ 14-15/NIB-51/ 4059

Dated: 30.7.14

ADDENDUM/CLARIFICATION

Subject: - Amended date extension, technical specifications and conditions of bid document for the Fabrication & Air-Conditioning work in Ambulances under NIB No. F.8()/RMSC/EPM/M-5/Amb. Fabri./ 14-15/NIB-51/3685 Dated: 16.06.14.

1. In reference to subject cited above NIB No. F.8()/RMSC/EPM/M-5/Amb. Fabri./ 14-15/NIB-51/3685 Dated: 16.06.14, the last date for sale of bid, receipt of bid & date of opening of technical bid is hereby extended as below:-

Existing Dates			Extended Dates		
Last date for Sale of Bid Form	Last date of Receipt of Bid Form	Date of Opening of Technical Bid	Last date for sale of Bid Form	Last date of Receipt of Bid Form	Date of Opening of Technical Bid
1.	2.	3.	4.	5.	6.
12-Aug-2014 1:00 PM	13-Aug-2014 1:00 PM	13-Aug-2014 3:00 PM	21-Aug-2014 1:00 PM	22-Aug-2014 1:00 PM	22-Aug-2014 3:00 PM

2. In reference to above cited subject and NIB, the technical specification of items (Annexure-C) are here by amended as below:-

REVISED SPECIFICATIONS OF FABRICATION WORK IN AMBULANCE

Part A

(TATA 410/31 BS III SFC)

Scope of fabrication work in ambulance built on TATA 410/31 BS III SFC as per DGS&D rate contract specifications:

I. Steel and Plywood cabinet for storing medical equipment/medicine / wash basin / dust basins:

After removing the already fitted drawers wash basin, fresh water storage and drain water, dust bin and water pump and EMT seat near pilot compartment following fabrication work has to be done.

- Cover the width of fabricated ambulance end to end that is approximately 1740 mm, depth 610 mm and height 910 mm. Place alongside the partition wall behind the pilot compartment out of 910 mm height 400 mm is to be used for oxygen cylinder compartment and remaining 510 mm for drawer and cabinets.
- In the above area on left hand side has to be utilized for fitment of existing wash basin and existing dust bin for waste disposal to be provided under the wash basin.
- Existing fresh water and drain water tank fitted with power operated pump with foot

- control has to be placed suitably.
- d) After housing dustbins, washbasin and water tank remaining space in length wise to be divided in three parts for drawers for storing of medicines etc. First and Third parts has to divided equally having three drawers in vertical each row and remaining one part without any partition fitted with folding flap so it can be utilized as the back of EMT foldable seat.
 - e) The above drawers and partitions has to be made of high density BWR fire retardant plywood with the combination of 12 and 19 mm thick. Confirming IS 303 specification.
 - f) It should be cladded with 0.8 mm thick stainless steel (SS304 or 202) from all the expose to patient compartment sides and areas,
 - g) All other areas / sides expose to air should be covered with 1 mm heavy duty mica of silver gray color.
 - h) All the hardware like rails, channels, locks, catches, hinges, handles should be of Ebco, HETTICH high duty renowned brands.
 - i) The drawer should be provided with ball socket locks or double magnet catchers for each drawer at back to secure them against unintended opening during any possible motion of the ambulance and fitted with towel bolt.
 - j) Provision for liquid hand wash carrier to be fitted on to the left side of the wall near wash basin with sufficient reinforcement. Liquid should fall directly into pot when pressed.
 - k) A plywood with lamination tray to be fix on the right side of the wooden cabinet approximately 350 into 300 mm of suitable height.
 - l) Leather stitched Velcro mounting to be provided to secure needle destroyer and manual BP apparatus over the right side of the wooden cabinet.
 - m) Two front windows of patient saloon of each side has to removed and closed properly by 1mm thick GP Sheet.

II. Flooring:

6 mm ply (marine grade) should be fixed properly above the existing chequered plate and 1.6 mm thick Anti-skid PVC vinyl matting or FRP with Anti-skid coating has to be properly glued on this 6 mm ply without entrapped air bubbles and without any joints anywhere and the vinyl mat to be extended up to 24 mm on the side wall. Only one sheet to be used from below wooden cabinet to end of the floor a suitable size of 0.8 mm thick SS sheet to be provided in rear side (stretcher loading area) to prevent scratches with flat head screw upto the stretcher wheel travel area. All floor level moldings, edging and trim shall be sealed to prevent fluids from seeping under cabinets, walls and ply board.

III. Provision for storage of Emergency rescue tools:

A tool box below the stretcher fitted at LHS has to be built with FRP of 3 mm thick painted with PU paint sufficient reinforcement by MS angle for storage of emergency rescue tools with outside open table top seat. The tool box has to be design in such a manner that gangway between tool box and auto collapsible should not be less than 400 mm. If required stretcher can be shifted near to Right Hand Side inner panel.

Inner area of the box should be covered with 4 mm thick heatlon sheet properly glued to the inner surface.

IV. Provision for housing auto collapsible stretcher:

One existing fixed stretcher fitted at the RHS has to be removed for housing Auto Collapsible stretcher and suitable ramp has to be fabricated for loading of auto collapsible stretcher.

V. Spine Board, Scoop stretcher and Wheel Chair Hold:

A provision should be made available for securing the Spine board and Scoop stretcher above the RHS wheel hump cover with double strip Velcro band at both the ends of the board.

Wheel chair to be placed on Rear Right side door, using a suitable C type 19 mm wide SS metal trip placed at suitable height on door properly screwed and a Velcro strip at the top to be provided to tighten it.

VI. EMT's foldable sheet:

A seat to be mounted to the oxygen cylinder compartment splint rack can be used for back rest for seat.

Dimensions should not be less than Length = 400 mm, width = 500 mm and height = 380 mm, Back Rest height = 400 mm

It has to be fabricated from Powder coated steel pipes of 20 mm dia & 1-5 mm wall thickness to be used. It should have one waist seat belt. A minimum 70 mm thick having density 50 or higher fire retardant foam cushion to be provided for comfort. And the same should be upholstered with non absorbent fire retardant Rexene. The seat should be Velcro Belts to fold it up. Bracket resting on floor to have spring loaded mechanism to close the bracket Ribbed bushes to be provided to the brackets resting on floor Back rest to be provided with good locking system to hold the seat in both the conditions (When the chair is open or closed).

VII. Grab Rail:

A 700 mm long SS Pipe of 300 mm dia, 1.5 mm wall thickness made of MS is to be placed as Grab rail near the LHS rear door at LHS wall 550 mm from the floor with firm metal support bracket at the ends with proper reinforcement for hanging handles has to be provided to hold while standing.

VIII. Head Rack:-

Dimension approx: Length = 1800mm, Width = 350mm, Height = 270mm. To be integrated with roof above the squad bench. Made in FRP (min 3mm thick) and required 32X4 MS reinforcement to be provided. Inner surface is to be pasted with soft Heatlon black colour sheet of 4mm thickness ISI quality toughened glasses thickness 4mm to be provided with Aluminum sliding channel with velvet beadings (1.5MM thickness and 50 mm width). The Head rack should have suitable oval shaped closures to cover the opening which are easy/comfortable to operate and do not have any sharp edge at the openings.

IX. Oxygen cylinder compartment & delivery system:

A door has to be cut at right side of the ambulance and fabrication of door with bonnet type locking with a lever in the pilot compartment to house two D-type Oxygen cylinder. Oxygen cylinders has to be mounted on a trolley built out of 40x40x4 mm thick angle with a toggle clamp for fastening safety lock to be provided to prevent

accidental opening of toggle clamp. Reliable and durable locking /unlocking the trolley and cylinders on trolley with auto locking provision to be provided. Oxygen cylinder covering brackets top and bottom should be riveted with asbestos material for cylinder grip to avoid movement and noise in running should be fitted properly and delivery system to be provided. Oxygen cylinder trolley housing is to be provided under medical cabinet, both the cylinders can be handled independently. High pressure fire proof tubing (280 bar/4060 PSI) with male & female bull nose brass connector at both ends to be provided for connecting cylinder to gas regulator. Gas regulator is to be two stage pressure gauges. 2 No. humidifier bottles and flow meters (0-15 lit per min.) to be provided. Four points of brass (3+1) 3/8" to be provided in complete one assembly. Oxygen door cylinder should not obstruct with the structural members. There should not be any electrical connection in near vicinity or inside the oxygen cylinder housing. Oxygen cylinder compartment should be dust proof and proper sealing has to be provided.

X. Air Conditioning system:- Tenderer has to make provision for driving of AC compressor by vehicle engine and appropriate foundation for mountain AC compressor. The patient saloon has to be air conditioned by free flow of air or through duct and lovers .

(i) It should be split A.C with suitable roof mounted condenser with fiber cowl with double cooling fans all parts including condenser drier assembly thermostatic expansion wall suction throttle wall and cooling coil and condenser of reputed renowned brand only and evaporator, and to be mounted on Roof and suitable for ambulance propose and driven by engine power of renowned make like subros/carrier/Haiger/ Sanden/ Valeo. The unit should be CFC free.

(ii) System should not be less than 6.5 k.w. All units like blower, condenser cooling coil, expansion valve should be of reputed make.

(iii) It should be a Double blower type.

(iv) Digital microprocessor based temperature controller should be provided with fully automatic PCB based power supply.

(v) A.C system shall be certified for passenger vehicle usage.

(vi) Ambulance should be equipped with heating system for the patient compartment.

(vii) No separate brands assembled air conditioner components from different companies assembled by the fabricator will be allowed.

(viii) The complete unit should be from a single company with service centres in Rajasthan.

XI. Electrical Requirements

Alternators fitted in supplied vehicle is of 60 amp capacity has to be replaced by 90 amp capacity.

External charge port with spring loaded lid to be located at the rear left over the foot step

One Mobile AC 15/5 amp - 3 pin Charging Switch Socket assembly is to be provided in Pilot compartment.

XII. Spare Wheel Case:

Spare wheel fitted below the patient saloon floor to be shifted at rear EMT side, along with suitable opening and locking arrangement has to be made. Spare wheel case should be fabricated out of 40 x 4 mm thick angle with sufficient reinforcement

properly welded with ambulance body structure. Holding arrangement for spare wheel has to be provided.

XIII. Fuse and Other Safety Measures:

- (i) A separate fuse to each of the circuits be given.
 - (ii) There should be an indicator mark to each fuse on the fuse box be given to identify the fuse separately.
 - (iii) There should not be any joints be given within the circuits wiring.
 - (iv) At any unavoidable wiring junction(s) the wires should be joined through Bakelite connectors only.
 - (v) There should not be any loose wiring and loose joints.
 - (vi) Other than vehicle wiring harnesses, all wires/harness used for should be (Flexi cab, Finolex or equivalent make).
 - (vii) All the electrical accessories should carry ISI mark and be approved by technical committee and should be of (ARAI/ISI) automobile standard.
- All other unspecified parts necessary for the wiring should be of Automobile grade and/ or ISI certified.

XIV. Flashers, Spot Light, Tube Light:-

- (i) (6Nos) high intensity Flashers, red-orange pair on either side, and both red on the rear of the vehicle.
- (ii) (3Nos) Spot/flood lights on three sides, except on the front, in the middle of each pair of Flashers.
- (iii) Spot lights 4 (non-external lighting) (LUMAX/AUTOLITE/GRAND MAKE) or EQUIVALENT AUTOMOBILE GRADE in Ceiling inside the Patient Compartment, equality placed.
- (iv) (2Nos) four feet LED tube light with fixture and built in inverter 12V DC powered on the both sides for internal lighting each on separates circuit. (METALITE OR ANY AUTOMOBILE GRADE) Voltage: 12V DC, Amps: 2.1, Lumens: 2175 Dimension (mm): 920.8x66.1x63.5 weight (kg): 0.953.
- (v) 220V AC/15 amp-3 pin (4Nos) and 12V DC- Round sockets (2Nos) power source with Crabtree or equivalent modular switches.
- (vi) External charge port with spring loaded lid has to be located at the rear over the foot step.
- (viii) One Mobile Charging Switch Socket assembly is to be provided in Pilot compartment.

XV. Electrical Wiring:-

All electrical wiring should be done internally (concealed without joints). Wires use should be of ISI specification e.g Finolex/ Havels. All the main components like

- (a) AC Blower
- (b) Condenser Fans
- (c) Each of internal lightings (Tube lights)
- (d) Internal lightings (spot lights)

Should have separate circuits, (Power drawn directly from source (with proper cut off switch after Battery/Inverter) and a Fuse in it.)

A laminated copy of standard wiring diagram should be provided with each ambulance for reference

XVI. Branding/ Stickers:-

The tenderer shall provide the branding/ sticking as per approved design provided by NRHM. The design will bear the 108-ambulance design (approximately 30sq. ft) and IEC material printed on reflective self adhesive film of good quality.

XVII. Water Dispenser:- A water dispenser of 6 liter is to be provided with straps near wash basin area.

XVIII. MP3 PLAYER:- MP3 with FM Radio player of good quality/reputed brand like Pioneer/ Sanyo /Sony/ Philips is to be provided in the driver compartment with 300 watt output speakers of good quality speakers (Company Warranty card covering one year and with details of repair facilities available in Rajasthan to be mounted on the pilot cabin roof.

XIX. Clock:- A digital clock is to be provided in the patient compartment. It should have a minimum letter (font) Size of 50 to have better visibility.

XX. DC Connections Socket:- ISI Marked 2 DC sockets 12V near Equipments area.

I. Fans:- One fan in Driver (Pilot) compartment has to be fitted and Existing two fans has to be placed in patient compartment at appropriate place.

II. Exhaust Fan:

To be mounted to partition wall between driver and ambulance compartment, to pump ambient air into the patient compartment. One 8 inches bush less exhaust fan on partition wall of renowned brand e.g. bajaj, hevells, Crompton or equivalent brand.

XXI. Hand free telephony:

Provision for conversation between pilot and EMT while moving with patient. System should be hand free speaker type.

XXII. Fire extinguisher:

4- 5 kg capacity dry powder A B C type fire extinguisher to be fitted at LHS patient saloon extreme rear corner with the provision to hold by Velcro strips & a stainless steel holding bracket to be provided at floor has to be provided at floor. Fire extinguisher available with ambulance has to be suitably placed and fixed in driver compartment.

XXIII. Instrument/equipment to be supplied by the fabricator as per technical specifications:

For each ambulance vehicle following equipments will be supplied and installed by the fabricator which are to be placed/fitted properly:

1. Auto loader- collapsible stretcher	-	1
2. Scoop Stretcher	-	1
3. Spine board with straps and Head Blocks	-	1
4. Wheel chair.	-	1
5. Oxygen- cylinder D- type	-	2
6. Oxygen cylinder portable	-	1
7. Oxygen Key	-	1
8. Nebulizer Machine	-	1
9. Suction Pump power operated	-	1
10. Pulse Oxymeter	-	1
11. True sine wave Inverter	-	1

XXIV. General:-

1. The FRP wherever used, should have the following characteristics. It should be minimum 3 mm thick in built color fire retardant as per IS – 6746 of 1988 or latest and should meet lamination standard of IS – 10192 or latest.
2. Curtain rod and curtains:- Hospital curtains to cover door glasses for patient privacy to be provided. Foldable sun wiser to be provided on the windows of patient saloon one right hand and in two left hand windows and between patient and pilot cabin.
3. Pilot cabin light: Light should be provided in pilot cabin having luminosity good enough to enable pilot in reading and writing in the registers.
4. Velcro strips should be provided everywhere arresting the movement of any equipment/trays, curtains etc.
5. Name Tagging: Etched & color coded name tags should be provided on the medical drawers.
6. Medical equipment's has to be fitted in patient compartment at right side in such a way so they may not fall and convenient to use.
7. All areas fabricated / altered should be neatly painted/finished in white PU paint.
8. Velcro strips should be provided everywhere arresting the movement fo any equipment /trays/curtains etc.
9. White, yellow, red retro reflecting tape to be fixed at front, rear and sides of the ambulance as per RTO requirement.
10. The registration in the name of Project Director (PD), NRHM will be sole liability of the Tenderer.

XXV. Workmanship criteria for acceptance :-

General appearance of the vehicle shall not be tempered. The following shall be reason rejection:

1. Rough, sharp or unfinished edges, burrs, seam, sharp corners, joints, cracks, and dents.
2. Paint runs sage, orange peel, "fish eyes", etc. and any other imperfection or lack of complete coverage.
3. Improperly fabricated and routed wiring or harnesses.
4. Improperly supported or secured hoses, wires, wirings, wiring harnesses, mechanical controls.
5. Looses, vibrating, abrading body parts, components, subassemblies, hoses, wiring harnesses or trim.
6. Leaks of any gas fluid lines, (AC, coolant, oil, oxygen, etc.)
7. Sagging, non-form fitting upholstery or padding.
8. Incomplete or incorrect application of rust proofing.
9. Inappropriate or incorrect use of hardware, fasteners, components, or methods of construction. All fasteners used should be of 8.8 grade.
10. All metallic parts used in fabrication should be coated with apoxy (primer) e.g Asian paints, SD or equivalent.
11. A seamless appearance & finish is desirable to keep the ambulance bacteria free.
12. All welding has to be done by MIG welding.

"The following equipment will be procured and installed by successful bidder himself as per the specifications and quantity indicated below.

For each ambulance:

1. Auto Loader – Collapsible Stretcher: Quantity:- 1

- Automatic loading, made of ambulance alloy.
- Collapsible, wheeled to slide into the ambulance with ease without damaging the ambulance floor.
- One person should be able to raise and lower it into an ambulance easily.
- Provision for head end elevation adjustable Sitting posture for breathless patients-Maximum Angle of the Back 60°
- Side Railings to prevent fall of patient either side and to hold medical equipment.
- IV fluid holding rod to go with the stretcher.
- Should be light, safe and reliable trouble free.
- Levers to control front and hind legs to fold while loading the stretcher in to the ambulance.
- Lock to lock & unlock the legs to prevent collapse of the stretcher while standing.
- Lock for the wheels.
- Straps 3 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.
- 50 mm thick high density foam matters with Head rest up holstered with water proof and fire proof rexin.
- Net weight : 40 Kgs Gross Weight 50 Kgs
- Bearing Pressure or minimum load : 158 ±2 Kgs
- Product dimensions: 190x54x90 cms
- Manufacturer should be (ISO 13485 certified/ European CE marked product) and EN 1789.

2. Scoop Stretcher: Quantity:- 1

- Should be light, safe and reliable. Made of aluminum alloy
- Clutch Design in the middle so that the stretcher can be divided into left and right halves.
- Adjustable length according to patient s height
- Easy to lock & unlock
- 3 Quick release buckle belts.
- Dimension: Max Size (LxWxH) 225x45x6cm & Min Size (L x W x H) 168 x 43 x 7cm
- Net weight: 9 Kgs
- Stretcher bearing: 160 Kg
- 190x54x90cm
- Manufacturer should be ISO 13845 certified/ European CE marked product.

3. Spine board with straps and Head Blocks Quantity:- 1

- High Density Poly ethylene – Single piece
- Rigid, Light & Floatable
- Resistant to bumps and corrosion
- Non absorbent, immune to infiltrations
- Easy to clean – water & soap should be enough.
- X ray & MRI compatible

- Net weight: 9 Kgs Load Capacity : 160 Kgs
- LxWxH : 184 x 45 x 5
- Manufacturer should be ISO 13845 certified/ European CE marked product.

4. Wheel chair Quantity:- 1

- Should be foldable, light, safe and reliable. Made of aluminum alloy
- Folded size : 93x51x16 cms
- Back Height: 91 cms Width : 50 cms
- Seat height : 49 cms Width : 50 cms
- Net weight : 8 Kgs
- Pull through, telescoping long handles built in to lift patients & Carry them through narrow passages.
- Loading Weight: 160 Kgs.

5. Oxygen Cylinder Portable (ISI 7285 part-I : 2004) Quantity:- 1

- Max. Working Pressure at 150 C : 150Kgf/cm²
- Test Pressure : 250 Kgf/cm²
- Water capacity : 1.0 ltrs
- Gas Capacity (Cu.m.) : 0.15 Cu.m.
- Out side Dia 'D' (mm) : 76-80 mm
- Min. Wall Thickness 't' (mm) : 3.2 mm
- Length 'L' Approx. (mm) : 310 mm
- Tare weight approx. (kg) : 2.5 Kg
- Certificate from Petroleum and Explosive Safety Organization is required.

6. Oxygen- Cylinder D- type Quantity :- 2

- Medical Oxygen Cylinder with valve 220 CFT.
- Bulk Size D- Type High pressure seamless cylinders for medical oxygen cylinder gas.
- Cylinders should confirm to IS: 7285, certified by the Bureau of Indian Standard(BIS) and approved by Chief Controller of Explosives(CCOE), Government of India.
- 46.7 Ltr water capacity (220 Cu.Ft.), fitted with bull nose type valves per IS:3224 and neck cap.
- Color code of the cylinder should be as per IS: 3933-1966 with updating till date.
- Certificate from Department of Explosives, Government of India should be provided for each cylinder.
- Working pressure should be 150 Kg. f/cm² at 15° C, Hydraulic test pressure 250 Kg. f/cm²

7. Oxygen Key Quantity:- 2

- Matching Key cum spanner to release oxygen – same key may be used release oxygen from portable cylinder.

8. Nebuliser Machine (Amended specification) Quantity:- 1

- Piston/Atomiser-type electric aspirator. Compressed air nebulizer.
- Motion Tolerant and for continuous use in Pre Hospital transportation.
- Operating Voltage : 230 V AC
- Maximum pressure 35 psi .

- Air power: 14 litres per minute
- Aerosol output : 106 per minute
- Residual volume: 1.24 ml
- Droplet size: MMAD 3.3 microns
- Filling volume : maximum 7ml
- Noise level: 55 dba.
- Provisions for fixing/Hanging in the Ambulance.
- Check valve to protect the device against contamination due to backward inhalation.
- Unbreakable lids.
- Dust filter.
- Manufacturer should be ISO 13845 certified/ European CE marked product.

9. AC/DC/- Suction Pump Quantity:- 1

- 0 to 30 Ltrs flow rate
- High Vacuum below – 300 mm of Hg & high Vacuum of – 800 mm of Hg
- Portable & with a mounting bracket.
- Battery backup of 90 minutes minimum – rechargeable in ambulance
- Collection bottle 600 ml capacity and e-Sterilizable
- Overflow protection insured.
- Weight not more than 5 kgs
- It should have provision of foot operation.
- Manufacturer should be ISO 13845 certified/ European CE marked product.
- It should be supplied with
 - A) 1 x set of silicone rubber suction tubing, approx: diam. 10 mm, length 1.5m
 - B) 1 x angle connector and combination acetal suction tip
 - C) 1 x spare valve diaphragms
 - D) 1 x spare piston O-ring
 - E) 1 x spare retaining spring
 - F) User manual with trouble shooting guidance, in English
 - G) Technical manual with maintenance and first line technical intervention instructions, in English.

10. Pulse Oxymeter Quantity:- 1

- Lightweight, convenient handheld
- Accurate during motion and low perfusion
- Long battery life – 10 to 12 hours
- Up to 24 hours of trending memory
- Microprocessor based non-fade memory monitor
- For spot check or continuous monitoring
- Audible and visual alarms for High/Low Saturation
- Pulse Rate, Sensor Off & Low Battery – Alarms
- System should be connectable to PC for data downloading – with all required hardware and software.
- Protective boot cover with built in table – top stand
- Saturation accuracy
- Probes:- 1 no for Adult purpose probes in no. for child and Neonates purpose

- Extension cable for y probes.
- Perfusion : 2% - 20%
- Resolution – Saturation (%SpO2): 1 %
- Saturation: 70% to 100%
 - 0 No motion
 - Adults, pediatrics: ± 2 digits
 - Neonates: ± 3 digits
 - 0 In Motion
 - Adults, pediatrics: ± 3 digits
 - Neonates: ± 3 digits
- Low perfusion
 - 0 Adults, pediatrics: ± 3 digits
 - 0 Neonates: ± 3 digits
- Range of Display : 0 or 1 % to 100 %
- Pulse rate accuracy
 - 0 Pulse Rate Range : 30 – 240 bpm
 - 0 Pulse Rate (bpm) Resolution : 1 bpm
 - 0 No Motion
 - Adults, pediatrics, Neonates: ± 3 digits Motion
 - Adults, pediatrics, Neonates: ± 3 digits
 - Device should be European CE marked and from a ISO 13485 certified manufacturer

11. Inverter:**Quantity:- 1**

1. True sine wave inverter
2. The batteries placed inside the driver's cabin with provision to be charged from external AC power
3. The inverter should be of well known brands like SUKAM/ Luminous/Microtek.
4. Inverter Capacity – 600 watts/800 VA
5. Input Range – AC 130 v 270 V/DC 9.5 V – 13.8 V
6. Frequency 50 Hz
7. Power factor : 0.8
8. Output Voltage to low charged 220 (+/-)10% (regulated output from full charge battery voltage)
9. Waveform – Single Pulse PWM
10. Efficiency - 85%
11. Charger – Heavy duty CC/CV type with current limit at 12A with wide input range (150V-270A)
12. Integrated AC/DC supply inside the vehicles synchronous with alternator.
13. Battery has to be made available by fabricator himself maintenance free battery of the same make as the inverter.

Note : All the equipments should be supplied with one year guarantee and bidder has to provide fitment provisions in the ambulance.



3. The special terms and condition:-

- **Clause no. 11** - The bidder shall be a manufacturer/direct importer of required vehicles chassis or a fabricator who must have manufactured/ imported or fabricated and supplied ambulances in India satisfactorily to the extent of at least 10% in last three financial years of the quantity specified in the NIB. The list of such installation of the equipments may be asked from the bidder in verification of Annexure-G information and he should submit self attested copy of purchase order, indent and invoice (inclusive of quantity & rate). However, the condition of past performance is not applicable for the ISI marked items.
- **Clause no. 12** – Because vehicle will be inspected by a departmental technical committee before delivery. Therefore, the clause no 12 of special terms and condition is not required. Thus, this clause is deleted.
- **Clause no. 17** is added as Successful bidder will be required to submit Bank Guarantee of the amount equal to the value of vehicles which will be taken to his works for fabrication.

4. The general terms and condition:-

- **Clause no. 16(xi)** of general terms and condition is deleted.
- **Clause no. 26(v)**- Because vehicle will be inspected by a departmental technical committee before delivery. Therefore, the clause no 26(v) of general terms and condition is not required. Thus, this clause is deleted.

5. Work Schedule

Starting from the date of placement of work order by Rajasthan Medical Services Corporation Limited to the successful bidder, the Work Schedule shall be as follows:-

First 45 Days	Next Lot
prototype/sample and its approval	30 Vehicles every 30 Days

Any delay in prototype preparation will be adjusted in total supply period of 75 days with 30 vehicles of first lot including prototype vehicle. The bidder shall request in writing for approval of prototype. If committee takes more than 3 days then this period shall be provided to bidder in addition to 75 days.

Other the terms and conditions remain the same.

This is issued with the approval of MD, RMSC.

Executive Director (EPM)
RMSC, Jaipur