



RE-TENDER



TENDER NOTICE

Medical Superintendent invites sealed bids under Two Bid System for "Fabrication and Modification of 02 nos. of **EXISTING SWARAJ MAZDA AMBULANCES**.

Tender document and other details can be downloaded from the hospital website www.esih-basai.org .

Last date of submission of tender document is 31.01.2012

JOINT DIRECTOR (ADMN)

ESI HOSPITAL BASAIDARAPUR:
RING ROAD NEW DELHI-15



**EMPLOYEES STATE INSURANCE HOSPITAL
BASAI DARAPUR: RING ROAD : NEW DELHI-110015
ISO 9001-2008 OQS CERTIFIED 600 BEDS HOSPITAL**

S.NO. OF TENDER : _____

Name of the party in whose favour
the Tender form has been issued : _____

(SEAL OF THE OFFICER)

F.No. DM (H) A 16/14/2/Amb. Modification/2011 CT

Dated:

SUB: -RE-TENDER FORM FOR "FABRICATION/ MODIFICATION OF TWO EXISTING SWARAJ MAZDA AMBULANCES."

Tenderers are advised to go through the Earnest Money, Payment terms, Demonstration Trial of Equipments/Stores and other clauses of this Tender Form carefully before filling the Tender.

S.No.	Description of work	Details and specification of the job work	Quantity	EMD
1.	Existing Swaraj Mazda Ambulance to be fabricated/modified by installing all weather Air Conditioner and other equipments.	As per Appendix-A of Tender Enquiry	2	EMD (Earnest Money Deposit) Rs.50,000/- (Rupees Fifty Thousand only).



All Tender documents attached with this invitation to tender including the specifications are SACROSANCT for considering any offer as complete offer. It is therefore important that each page of the tender documents duly completed and signed should be returned with your offer.

SCHEDULE OF TENDER

- 1 The tender document can be downloaded from the hospital website www.esih-basai.org.
2. Sealed Tenders duly filled up along with **Earnest Money of Rs. 50,000/-** in the form of Demand Draft/ Banker's Cheque/Pay Order issued by any Nationalized Bank/Commercial Bank should be dropped in a Tender Box kept in the Chamber of the Deputy Director (Administration), Room No. 76 from **11.00 A.M. to 01.00 P.M. from 28.01.2012 to 31.01.2012**. Technical bids of the Tender shall be opened on **31.01.2012 at 2.00 PM** in the Committee Room, Administrative Block in the presence of the Tenderers or their authorized representative(s) who may wish to be present. In case 31.01.2012 is declared a public holiday, tenders shall be received and opened as per above schedule on next working day.
- 3 Tenderers are required to quote rates on free delivery at ESI Hospital, Basaidarapur, Ring Road, New Delhi-15 only at the risk and cost of tenderer. Rate quoted by the firms should be on firm price basis.
- 4 The Tenderers are required to submit two separate Bids i.e. - Technical and Price Bid, as per prescribed proforma. The two Bids should be submitted in two separately sealed envelopes super scribed "**Technical Bid for FABRICATION/ MODIFICATION OF TWO EXISTING SWARAJ MAZDA AMBULANCES**" and "**Price Bid for FABRICATION/ MODIFICATION OF TWO EXISTING SWARAJ MAZDA AMBULANCES**". Both sealed envelopes should be put in a third sealed envelope super scribed "**TENDER FOR FABRICATION/ MODIFICATION OF TWO EXISTING SWARAJ MAZDA AMBULANCES.**"
5. Validity The tender will be valid up to 180 days from the date of opening of tender.
6. Delivery Period Within 4 weeks from placement of firm order for the entire work.
7. Payment Terms: Will be released within two weeks after receipt of ambulances and satisfactory inspection.
8. Firms should clearly indicate different taxes and duties, which they propose to charge as extra along with the present rates thereof. Rates, taxes, duties, and discounts, if any be



quoted by the bidder and the total cost should be in one consolidated amount. Offers with such stipulations like 'as applicable' will be treated as vague and are liable to be ignored.

9. Tenderers should disclose the name and full address along with telephone/ Fax No. of the place where the ambulances will be fitted and offered for inspection before dispatch. In case the firm is registered for the subject work, they should clarify whether they are registered as a manufacturing unit or in any other capacity. In case the registration is as a manufacturer, they should indicate the full address/phone No. of their manufacturing facility.

10. Medical Superintendent reserves the right to change the quantity/requirement.

11. Medical Superintendent reserves the right to get the manufacturing capacity of firms re-verified irrespective of the registration status.

12. Only those firms should respond who are the manufacturer/authorized dealers of the items specified in Tender Specifications as brought in Appendix - A of Tender Form.

13. The price bid of eligible firms will be opened and order would be considered on the lowest qualified bidders subject to their capacity and performance etc.

14. LIQUIDATED DAMAGES: In case the firm does not complete the supply within delivery period, liquidated damages will be charged @ 2% of the total cost of items and action will be taken against the firm as deemed fit and also for forfeiture of its security deposit.

15. **TWO BID SYSTEM**

All bidders are required to submit their offers in two covers

I Technical Bid should contain the following:

- i) Tender documents duly completed and signed, but without indicating the rates quoted.
- ii) Earnest money as mentioned against each item.
- iii) Delivery terms, delivery period must be quoted.
- iv) Satisfactory Performance certificate of last two years.
- v) Pre-receipt challan for refund of Earnest Money.
- vi) Copy of the latest income tax return certificate, latest PAN/TAN.
- vii) Comprehensive Guarantee/warranty for the complete unit for a period of two years and thereafter it will be on CMC for 5 years.
- viii) Catalogue/Literature of the equipment should be enclosed.
- ix) Statement of deviation parameter wise from tendered conditions, if any.
- x) Authority letter from manufacture/authorized distributors/stockiest, if applicable.
- xi) User list.



- xii) Name and address of the nearest authorized service centre.
- xiii) Declaration/undertaking on non-judicial stamp paper of Rs. 100/- as per the Performa enclosed.
- xiv) Any other relevant documents which the firm wishes to submit.

(II) **Price Bid should contain the following:**

- (i) Details of rates, taxes, duties, and discounts, if any be quoted by the bidder and the total cost should be in one consolidated amount. These details should be submitted on their letter head.
- (ii) Rates must be clearly written in figures as well as in words.
- (iii) There should not be any cutting/over writing.
- (iv) Price discount offered, if any, should be clearly stated.

16. Warranty Clause: Work done and equipments supplied against this tender should bear a Comprehensive warranty by the contractor against defective materials, workmanship, finish and performance for a period of two years from the date of satisfactory installation and inspection of stores at ESI Hospital, Basaidarapur, New Delhi.

17. Medical Superintendent reserves the right to get the sample tested from any Laboratory at any stage and to cancel/reject the tender without assigning any reason thereof.

NOTE:

- a) Full name and status of the person signing the tender documents must be clearly mentioned in the tender documents.
- b) The tenderers are informed that all relevant details with reference to the Tender stipulations are clearly responded to. In case any of the ambiguity is not clearly stated to/replied to by any of the bidders, no repeat or clarifications will be sought from the concerned bidder and its offer is liable to be rejected.
- c) In case the price quoted cannot be matched with the item/s quoted in technical bid shall be liable to be rejected.
- d) Only technical bid will be opened first and shall be referred to the Technical Committee for evaluation. The price bid of only those Tenderers who qualifies in the technical evaluation and found acceptable by the competent authority will be opened for further action.
- e) Before submission of tender, Tenderer will check the Check List attached to these Tender Documents as enclosed Appendix - B for compliance on various stipulations of the tender.

Medical Superintendent



UNDERTAKING: (To be submitted in non- judicial stamp paper of Rs. 100/=)

- 1 I,.....(Name of authorized Signatory) the undersigned hereby declare and affirm that I have gone through the terms and conditions governing the tender and undertake to comply with all terms and conditions.
- 2 That the rates quoted by me are valid and binding upon me for the entire period of contract.
- 3 The rates quoted are not the higher than quoted for any other government institution/hospital in India.
- 4 That the earnest money of Rs._____ deposited by me vide Banker Cheque/Demand Draft no._____ Dt._____ drawn on.....(Name of the Bank) is attached herewith.
- 5 That I/We authorize Medical superintendent to forfeit the earnest money deposited by me/us, if any delay or failure to supply the article within the stipulated time and the items of desired/quoted quality.
- 6 That I will be in the position to provide Comprehensive Maintenance Contract (CMC), spare parts, accessories attached and its consumables for 7 years from the date of satisfactory installation of the equipment.
- 7 That there is no vigilance/CBI case or court case pending against the firm, debarring my firm to supply of items quoted.
- 8 That I hereby undertake to supply the items as per directions given in supply order within stipulated period.
- 9 That I undertake to maintain the equipment to the satisfaction of user during the period of guarantee, warranty and CMC.
- 10 I have been informed that the Medical Superintendent has the right to accept or reject any or all the tenders without assigning any reason thereof.

Signature and Address of the Tenderer



TERMS AND CONDITIONS GOVERNING CONTRACT

1. The Tenderer must enclose a Draft/Banker Cheque of Rs. 50,000/- (**Rupees Fifty Thousand Only**) as earnest money drawn in the favor of ESI Fund A/C No.1 payable at Delhi.
2. EMD Deposited with earlier tender if any or in any other form as given, will not be adjusted/accepted against this tender. Tender without EMD will not be accepted in any case.
3. Tenderer will have to demonstrate/display/show the quoted items to Technical Evaluation Committee within the stipulated time frame as and when asked for. The tender shall be liable to be cancelled on non-compliance of this clause.
4. EMD will be released after finalization of tender to unsuccessful bidder/s without interest.
5. Successful bidder has to deposit 10% of the total cost of tender as performance security with the Medical Superintendent in the form of Demand Draft/ Banker's Cheque/Bank Guarantee, else 10% of the payment due (Rounded-up) shall be with-held which will be released on satisfactory performance of the equipment after expiry of warranty.
6. The company will get only one chance for demo. In case the company fails to arrange the demo his tender shall be liable to be cancelled.
7. The date for demonstration shall be fixed with mutual consent on telephone and the same shall be confirmed in writing and by fax. In any case not more than two weeks time shall be given to arrange for demo.
8. In case demo of the equipment is required the same has to be arranged at ESI Model Hospital, Basaidarapur, New Delhi.
9. Only the item/s of manufacturers or their authorized distributor/stockiest would be considered.
10. Tenderer must provide the telephone and fax no with tender for all correspondence.
11. The equipment should be guaranteed /warranted for a minimum period of two years.



12. Firm should undertake to enter into Comprehensive Maintenance Contract (CMC) for equipment as well as for accessories attached, for minimum period of five years after completion of warranty period and accordingly quote the rates of CMC for five years. Firm should undertake to keep the equipment in running order throughout the warranty and CMC period and in case of equipment going out of order the fault will be attended within 24 hours of lodging the complaint.
13. The cost of CMC shall be added for ranking, evaluating and selecting the Tenderer.
14. The payment of CMC shall be made on quarterly basis after successful completion of each quarter.
15. Payment will be made within two weeks after the successful installation and satisfactory inspection.
16. Photocopy of latest Income Tax Return/PAN/TAN No. Should be enclosed with the completed tender.
17. Tenderer, if not a manufacturer, has to submit manufacturer's authorization certificate.
18. The Medical Superintendent has the right to accept or reject any or all the tenders without assigning any reason(s) thereof.
19. The tenderer is required to submit an undertaking as per the Performa enclosed on a non-judicial stamp paper of Rs.100/-.
20. Arbitration: 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 specifically provided for by these or the special conditions), the same shall be referred to the sole arbitrator appointed by the Director General, ESIC.

Medical Superintendent
ESI Model Hospital
Basaidarapur, New Delhi – 110015



LIST

TENDER FORM FOR "FABRICATION/ MODIFICATION OF TWO EXISTING SWARAJ MAZDA AMBULANCES."

TENDERERS SHOULD FURNISH SPECIFIC ANSWERS TO ALL THE QUESTIONS GIVEN BELOW. TENDERERS MAY PLEASE NOTE THAT IF THE ANSWER SO FURNISHED ARE NOT CLEAR AND/OR ARE EVASIVE, THE TENDER WILL BE LIABLE TO BE IGNORED.

S.No.	Particulars	Details
1.	Name and Address of the Company along with phone number/mobile and Fax Nos.	
2.	Registration Number	
3.	Whether Sole Proprietor / Partnership Firm / Private / Limited Company	
4.	Details of Earnest Money Deposit	
5.	PAN/TAN/VAT/Service Tax No. with photocopies	
6.	Manufacturer or Authorized Agent (Authority letter if required)	
7.	Whether banned by any organization	

I hereby declare that I have carefully read and fully understood all the terms and conditions of the Tender Document.

Signature of Tenderer
(Full Name and address of the persons signing in Block letters)

**APPENDIX - B****CHECKLIST FOR THE TENDERER (Please Tick)****TENDER FORM FOR "FABRICATION/ MODIFICATION OF TWO EXISTING SWARAJ MAZDA AMBULANCES."**

Sl. No.	Items	Yes	No
1.	Name of the Company		
2.	Manufacturer of the Equipment		
3.	Earnest money deposited		
4.	Delivery at FOR		
5.	Validity of tender – 180 days with reference date		
6.	Delivery period mentioned		
7.	Details of past performance mentioned (page nos. if Yes)		
8.	Arbitration clause accepted		
9.	The cost of commonly used spares (with Price Bid and page nos. of the list)		
10.	Authorization Letter (in case applicable)		
11.	Nearest place for availability of after sales service		
12.	List of the installations provided (page nos.)		
13.	Relevant catalogues enclosed or not (page nos.)		
14.	Any deviation from tendered specifications		
15.	Any deviation from terms and conditions of Tender		
16.	Two Bids submitted (Technical and Price Bid)		
17.	Warranty offered (Minimum 24 months after Successful installation and satisfactory inspection)		
18.	Rate of CMC year wise minimum for five years after expiry of warranty (with Price Bid)		
19.	Undertaking on stamp paper submitted		
20.	Filled in Performa (LIST)		

Signature of Tenderer

**APPENDIX - 'A'****PARTICULARS OF AMBULANCES INTENDED FOR MODIFICATION/ FABRICATION ON THE SPECIFICATION/DESCRIPTION OF INDICATIVE JOB WORK WITH FITTING OF ALL WEATHER AIR CONDITIONER ALONGWITH EQUIPMENTS IN THE EXISTING SWARAJ MAZDA AMBULANCES IN POSSESSION OF ESI MODEL HOSPITAL, BASAIDARAPUR, NEW DELHI – 110015.**

Model No. _____

Registration No. _____

Bidders are advised to meet the Casualty In-Charge to inspect the vehicles at this hospital for the specified fabrication job during office hours (9AM to 4PM).

1. Existing Swaraj Mazda Ambulance to be fabricated/modified with fitting of all Weather Air-Conditioner.
2. **Colour:** The base color of the exterior of the vehicle should be repainted white.
3. All interior paneling fabrication with seamless Fiber Reinforced Plastic (FRP).
4. Interior Painting with Anti Bacteria Paint & 3 layer heavy duty thermal insulation between FRP and chasis to reduce sound & temperature effect.
5. Driver & patient cabins partition in FRP with sliding glass window with lock.
6. Heavy duty water proof ply board with high density vinyl flooring of matching color.
7. Integrated facility for washing hand with separate stainless steel (SS) tanks for fresh & disposed water. The washing tap should be operated by a small pump operated through foot operated switch provided on the floor of the patient cabin below the basin.
8. SS wash station provided with soap dispenser, tissue dispenser & towel hooks.
9. Two SS waste bins (approx. size 10 Ltrs. each) separately for Biomedical & other wastes.
10. Two way Intercom system between driver and patient cabin.
11. Two Stainless steel hooks for I.V. bottles.
12. Overhead cupboard covered with sliding glass for storage.



13. Roof mounted stainless steel hand support rail with 4 Nos. of strap handles.
14. Grab rail on rear entry door for easy access.
15. 3 Interior spot lights (12 V AC) in patient cabin along with general illumination.
16. 220 V AC / 12 V DC outlet - plug point.
17. Additional power socket at the rear end for emergency search light.
18. Electric protection circuit with heavy duty 12 V DC cutoff switch located near driver seat for easy accessibility.
19. Rear door open warning alarm in driver cabin.
20. Charging socket for Inverter from 220 V AC. with 20 meters of charging lead and charging lead for mobile phones also.
21. Inverter of 800VA capacity (superior quality) with additional backup battery & facility for charging from both 220 V AC & Vehicle alternator.
22. Alternator – 135 Amp 12 V for charging of Inverter batteries.
23. 6 High intensity blinkers - 2 each on three sides.
24. 3 High Intensity Floodlights - 1 each on three sides for illumination of outside area at emergency site.
25. Emergency light bar with integrated 4 rotating beacons.
26. Electronic siren (3 Tone) and public address system digital clock fixed in patient cabin, Fire extinguisher cylinder.
27. Solar film / sand blasting of window glasses.
28. Customized external graphics with radium strips with the name of this hospital, & logo etc as per design provided.



29. **Oxygen Therapy:** Heavy duty trolley to mount Oxygen cylinder 1320 ltr – 1 No, changeable from outside the vehicle with separate lockable door helps in maintaining good hygiene in patent cabin.
30. High pressure flexible stainless steel braded teflon tubing from oxygen cylinders up to regulators.
31. Oxygen regulator with 2 stage regulation for better patient safety with pressure gauges near doctor seat for easy accessibility.
32. **Air Conditioning System:** Complete gas pipe lining with tubing embedded in control panel having superior Parkodex type top loading outlet points for oxygen - three Nos. (One with flow meter and humidifier for direct inhalation, second for connection to ventilator & third for standby). Heavy duty ducted Air-conditioning system coupled with vehicle engine with automatic digital control panel with temperature display in patient cabin. Roof mounted, heavy duty aluminum condensers cooling coil with twin blower motor and single evaporator valve for efficient & uniform cooling. 8 ducts in patient cabin to provide balanced flow throughout the cabin and 2 ducts in driver's cabin.
33. SS wash station provided with soap dispenser, tissue dispenser & towel hooks.
34. Wooden storage cabinets with stainless steel cladding with one small drawer for writing pad type.
35. Equip the existing Swaraj Mazda Ambulances with various essential equipments as per the list in "Ambulance Patient Handling System".

Terms & Conditions:

1. The Supplier should have its own facility for fabrication and should have sufficient experience in Ambulance Fabrication / Air Conditioner fitting.
2. The supplier should have provision of after sales support for fabrication and maintenance.
3. The interested companies should have fabricated, fitted with air conditioner and equip ambulances and have been offering satisfactory after sales support to the customers. The Company should be in the said business for more than three years (attach documentary proof and satisfactory performance certificate from the Customers).



4. The maintenance of the Ambulance (Fabrication, A/C fitting and the equipments) will be the sole responsibility of the supplier.
5. Details of model & make should be mentioned for each equipment being offered.
6. All the technical documents like literature, catalogues etc. of the equipment being offered are to be enclosed along with offer.
7. The details of the fabrication job listed are indicative. The Tenderer shall have to physically display/show a similarly fabricated ambulance at the consignee's address before finalization of the work order.

Guarantee/Warranty:

1. The following comprehensive Guarantee/warranty and CMC clause shall be applicable and binding on successful Tenderers.
2. Comprehensive Guarantee/warranty for two years from the date of supply/installation of all the equipments. After the expiry of Guarantee/warranty, the fabrication and Air conditioning should be on CMC for five years.

Medical Superintendent
ESI Model Hospital
Basaidarapur, New Delhi – 110015



FUNCTIONAL REQUIREMENT (INDICATIVE)

Ambulance Patient Handling Equipments

(Specifications are also indicative. Any item that meets the minimum functional requirements shall be acceptable.)

1. Auto Loader
Roll-in Automatic loading type (preferably with capability to convert into wheel chair) of a reputed manufacturer.
Collapsible, with minimum Four swivel wheels to allow cot to be handled and to slide into the ambulance easily without damaging the ambulance floor
One person should be able to raise and lower it into an ambulance easily
Built with anodized aluminium lightweight / stainless steel
Swing-down side rails to enable convenient patient transfer from bed to cot
Adjustable backrest angle from 0 – 65 deg
At least three strap-type restraining devices (chest, hip, and knee) to prevent longitudinal or transverse dislodgment of the patient during transit.
Provision to fix AA type oxygen cylinder
Dual I.V. holder, capable of being cot mounted
Padded wrist and ankle restraints, minimum one complete set
Fixing devices to secure the stretcher in place not allowing side to side or vertical movements in the ambulance while on run.
Locks on wheels/legs if required to ensure that the stretcher doesn't collapse/move while standing
50 mm thick high density foam mattress holstered with water proof and fire proof material
Dimensions (Approximately): <ul style="list-style-type: none">o Length: 200 cmo Width : 60 cmo Height: 90
Loading Capacity : 150-180 kg

2. Scoop Stretcher

Should be light, safe and reliable
Aluminium alloy with adjustable length
Clutch Design (Lateralised / in center) so that the stretcher can be divided into left and right halves.
Easy to lock and unlock
3 Quick release buckle belts



Dimensions (Approximately): o Max. Size L*W*H 220*505*8cm o Min. Size L*W*H 160*40*6cm
Net weight: <10 Kgs
Weight bearing: 150-180 kg
To be supplied with a mountable & detachable 'Double Head Immobilizer

3. Foldaway Stretcher

Light weight, portable & easy to carry
Made of high strength AL-alloy & should be 4-Folded when packed
Weight Bearing: 150-180 kg

4. Spine Board

High Density Polyethylene - Single piece
Rigid , Light & Floatable
Resistant to bumps and corrosion
Non absorbent, immune to infiltrations
Easy to clean- water & soap
X ray & MRI compatible
Load Capacity : 150-180 kg
L*W*H : approx 180 * 50 * 6 cm
Rigid Head Blocks with restrains to be supplied along

5. Transfer Sheet

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

6. Wheel chair

Should be light, safe and reliable
Made of aluminium alloy with 4 wheels
Folded size : approx 90*50*15 cm
Net weight : less than 10 Kgs
Pull through, telescoping long handles built in to lift patients & carry them through narrow passages.
Two handles on the top to facilitate the lifting of patients , working in harmony with telescoping handles
Loading Weight : 150-180 kg

7. Bi-Phasic Defibrillator cum Cardiac Monitor with Recorder

Wall Mounted, Transport defibrillator cum Cardiac Monitor of a reputed brand
Lightweight , Easy to Use with both Manual & AED Capabilities



Suitable for ambulance operation, with adult and paediatric external fixed paddles and Patient cables
Minimum 6.5 inches Colour LCD Display
Should be able to deliver shock from 2- 200 joules through biphasic technology.
Should have charging time up to 200J in less than 6 seconds with a new fully charged battery
Should have built in Non invasive pacing and SpO2 monitoring
Should have 12 lead interpretative ECG and synchronized cardio version
Integrated Multi Parameter Monitor with the following parameters: NIBP – Adult and Paediatric SpO2 - Adult & Paediatric Respiration Rate (Optional) 12 Lead ECG
ECG signal shall be via defibrillator paddles, disposable defibrillation electrodes or patient cables
Should be able to print critical events via a built in printer
AC/DC Modules
Should have built in charger
Ambulance Mounting Bracket
Should be FDA,CE / BIS Approved
All required leads, probes, accessories & manuals to be supplied along with Spare Disposable Pads – 10 no's each
Provision for future up-gradation to enable transmission of Patient Vitals via Telemetry for remote monitoring

8. Transport Ventilator

Should be wall mounted, light weight, robust and user friendly
Suitable for adults, children and infants up to 5 kg
Modes of ventilation: o CMV o Assist Control o PEEP
Separate control for inspiratory and expiratory time and flow rate.
Adjustable pressure limit to safely cope with all patients.
High inflation pressure alarm
Power source : Compressed air / oxygen (dependence on battery or AC power is not desirable)
It should be able to deliver respiratory rate ratio of up to 1: 2
FIO2: 100% oxygen and air mix, approx.45%
Equipment should be complete with carry bag, patient circuit, pressure



regulator for the oxygen cylinder and relief valve. (Transport Ventilator Kit)
Pneumatic Suction & Inhalational Therapy (1-15ltrs/min) should be built into the kit.
The above kit should be supplied with all required brackets / mounts to ensure mounting in ambulance and on stretcher rails without hampering patient care in an acute scenario.
Should have airway pressure monitor
Should have a disconnect alarm. (Visual and audible)

9. Suction Pump (Manual)

Portable & Lightweight
Vacuum (max): 550mmHg
Non disposable container – 250 ml connecting jar made out of polycarbonate
Operating environmental temperature – 20C to + 50C
Maximum Weight: 500 gms.

10. Suction Pump (Electronic)

Mobile, electronic membrane suction pump for removal of secretions, blood and solid food particles from emergency patients.
The pump should have a sturdy housing, which is easy to clean and having storage for the suction hose.
It should have a stable and ergonomic handle.
It should have pre-selected suction levels with quick-selection buttons for easy operation.
The pump should be chargeable via both 230V and 12V.
It should have rechargeable Nickel-Cadmium (2.8 Ah) batteries.
LED display for indicating charge level of rechargeable battery.
It should operate for at least 30 mins at maximum suction on full charge.
The battery should have a service life of about 400 charge/discharge cycles in 3 years.
Suction capacity at 12 V should be more than 20 L/min with maximum vacuum of more than 75 kPa.
Weight of the entire unit should not be more than 6 kgs.
It should not measure more than 400(W) x 300(H)x 150(D) in mm.
50 W motor output.
Maximum current consumption should not be more than 4 A.
It should be operable in a temperature range of -18 to +45 ⁰ C.
Product class for suction pump as per 93/42/EEC:IIb.
The reusable canister must have a capacity of more than 750 ml and should have a Hydrophobic bacterial filter with 1 um filtration grade.



Option for connection of disposable collection canister system.
The aspiration tube should be of 10mm diameter and at least 1200 mm length.
It should have a wall-mounting set (including installation set) with as integrated charger and complying with EN 1789 norms.
The unit should conform to EN 10079-1, EN 1789, Directive 95/54/EC norms. Classification according to EN 60601-1 with Class-II protection against electric shock with charger; Class-I
Accessories should include :-
i) Accessory bag for suction pump accessories.
ii) Wall mounting with integrated charging device.
iii) Power Cable.
iv) 12 volt connection cable and charger (Plug charging device)

11. Artificial Manual Breathing Unit (Adult)

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

12. Artificial Manual Breathing Unit (Pediatric & Neonatal)

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

13. Mouth to Mask ventilation device (Adult)

Of Reputed manufacturer's make

**14. Mouth to Mask ventilation device (Child)**

Of Reputed manufacturer's make

15. Oxygen Cylinder (Portable)

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

16. Nebulizer

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

17. Laryngoscope with blades

Standard equipment in metal with 3 standard size curved blades and one extra large blade (Adult & Child).
Handle should have comfortable grip.
Good quality light source

18. Syringe Infusion Pump

Flow rate programmable from 0.1 to 200 ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option.
SAVE last infusion rate even when the AC power is switched OFF.



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

19. Handheld Glucometer

One unit of a reputed brand with 100 units of disposable lancets/tips and Gluco Sticks.
The brand provided should have supplies easily available across India.

20. Stethoscope

Of a reputed brand
Tunable diaphragm and a bell
High quality buffed stainless steel snap tight ear tubes
Poly vinyl chloride double lumen tubing 76 cms in length
Soft sealing ear tips

21. BP Apparatus (Digital)

Two Nos. of a reputed brand
Motion tolerant, self inflating
± 2 mm of Hg systolic or Diastolic
AC / DC, Rechargeable in Ambulance
Supplied with regular/extra large and paediatric size cuffs

**22. Puppillary Torch**

Two Nos. Of a reputed brand with Spot illumination without peripheral ring of light

23. Needle & Syringe Destroyer

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

24. Thermometer (Digital)

Two Nos.
Battery operated
with on and off audio alarm
Measurable in Fahrenheit and Centigrade
Memory of the last reading

25. Pneumatic Splints set of 6 Adult sizes with carrying case

- **Hand & wrist**
- **Half arm**
- **Full arm**
- **Foot and ankle**
- **Half leg**
- **Full leg**

Air splints simultaneously splint and

X-ray through the splints
Inflatory 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

26. Roller Splints

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

**27. Cervical Collars**

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

28. Scissors with Round tip

Two Nos. with Thermoplastic handles
Should cut a 1 rupee coin
6" made of SS with one edge round and other edge sharp

29. Toothed Forceps-Dissecting

15 cms, high tensile stainless Steel

30. Artery Forceps 6"

Two Nos. 6" high tensile stainless Steel

31. Toothed Forceps 6"

6" high tensile stainless Steel

32. Magill's forceps

Standard Equipment in High Quality Stainless Steel
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33. Kidney Tray

20 cms. x 15 Cm x 4 cm 18 / 8 Stainless Steel 500 ml capacity

34. Kilk Clamp

50 nos. Of reputed make

35. Tongue Depressor

100 nos. Disposable Wooden Spatula

**36. First Aid Kit Bag**

A Pre-Packed Off the Shelf Resuscitation & First Aid Kit Bag made of Nylon/tougher material having space for Emergency Airway Management and Resuscitation including essentials drugs, equipment & a portable Oxygen Cylinder of with regulator, etc.

37. Rescue Equipment

Crowbar (min 48 inches, with pinch point) & A multipurpose tool such as 'Stanley FuBar Forcible Entry Tool'/equivalent for vehicle extrication.

Item at serial numbers 5, 6, 7, 8, 10, 11, 12, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27 and 28 to 37 above are optional items and these are to be purchased at the discretion of the purchaser.

Fabrication, air-conditioning and mandatory items at serial number 1, 2, 3, 4, 5, 6 and 7 shall be considered to arrive at the best responsive bid.

Tentative date for demo of vehicle (ambulance) shall be informed to the Tenderer on the day of opening of the tenders.

Medical Superintendent
ESI Model Hospital, Basaidarapur
New Delhi – 110015