

GVK Emergency Management and Research Institute (Annexure - I)

Part A: Scope of Fabrication work:

1) Steel and Ply Wood Cabinet for storing medical equipment / supplies / Wash basin / Dust bins:

Dimensions: length to cover the width of fabricated ambulance end to end Width = 1645mm and height=910mm.Placed alongside the partition wall behind the driver's compartment. Made of BIS quality water proof and fire retardant ply boards of Walls, Top and Bottom plywood thickness-19mm.Drawers plywood thickness-12mm .It should be clad with 0.8 mm thick stainless sheet (SS-304) from all the areas exposed to patient compartment sides. Also all the other areas (drawer walls, sides, rear and bottom) exposed to air should be

laminated with minimum 1 mm heavy duty mica of silver gray color.

Height of the cabinet-510 mm(above the oxygen compartment)

Width of the cabinet-1645mm(From left wall to Right wall of the body)

WIDTH OF THE CABINET-

First lane drawers-width-515mm with one door(for dust bins and fresh and drain water tanks)

Second lane drawer-width-290mm Three rows on vertical with equal size

Third lane Drawer-width-550 Single door with EMT seat back rest.

One partition to be made @height of 300mm from bottom of the wooden cabinet.

Fourth Lane drawers-width- 290 two rows. Top-170mm height- Second-rest of the height

All the hardware like rails, channels, sliders, locks, catchers, hinges, handles should be best quality of imported material only (e.g. HETTICH) heavy duty renowned brands.

House the Stainless Steel (SS-304) wash basin minimum 410MM dia, maximum of 420 dia Depth minimum165MM maximum 170mm with water tap (Brass with chrome plated) supplying water through Motorized Pump (12 V DC power operated), (should be of good company like "Denso") with foot operated control mounted on the bottom of the medicine rack vertically, to pump the water from the fresh water tank.

The Wash Basin Pump should have water tap positioned so that by washing hands water should not fall outside of the pot.

Provision for Liquid hand wash carrier fitted on to the left side of the wall near wash basin with sufficient reinforcement .Liquid should fall directly in to pot when pressed.

Fresh water tank and drain water tank both made of Stainless Steel (0.8 mm SS-304 grade) to be fitted below the wash basin, both 10 liters capacity.

Wash basin and Drain water tank hose connection joints to be fixed firmly with clamp and sealant to prevent water over flow into the patient compartment.

Ambulance Fabrication Specifications (Annexure I, II)

The drawers should be provided with double Magnet catchers for each drawer at back side to secure them against unintended opening during motion of the ambulance

9 slots of ABS material removable partition tray with THREE partitions to be provided in the upper drawer beside the dust bins and rest all the drawers to have 3 horizontal partitions.

A plywood with lamination tray with 9 slots (530mm length 300mm width 130mm height) to be fixed on the right side of the wooden cabinet.

Velcro mounting to be provided to secure needle destroyer and manual BP apparatus over the right side of the wooden cabinet

Two Concealed Portable Steel Dust Bins to be fixed with at least two screws there by making in movable with spring loaded lids for waste disposal are to be provided under the wash basin. 420mm Height (Including spring loaded lid) X 200 mm Dia.

Pilot cabin partition frame to be fitted with a sandwich FRP panel fastened to the MS frame from both sides.

Bidders needs to submit the material test certificate under FR Grade plywood criteria and GVK EMRI has rights to carry out destructive testing at vendor's cost

2) Squad bench / attendant seat- (with Seat belts) with storage for EM rescue tools.

- i. 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 4x75mm with three bolts triangle seating four no heavy duty hinges with equal distance. All the three bolts should be mounted on the r reinforcement given to squad bench.
- ii. A minimum 50mm thick, 50 or higher density Foam cushion to be provided for seat on 12 mm water proof and fire retardant ply board for comfort the same should be upholstered top and bottom side of the seat with non absorbent rexin of silver gray color to be fastened properly
- iii. Squad bench to be made of FRP (min 4 mm) outside and with the Mild steel (MS) angular 4 mm thick frame reinforced within, to carry 450 kg weight and to be painted with PU paint. Re enforcement to squad bench has to be given in equal distance for storage of rescue tools. All the storage compartments should have sufficient reinforcement with 32*4 angular frames also.
- iv. Dimensions of the bench: Length = 1830mm, Width=500mm. Height = 470mm.
- v. The inner box area should be covered with the 4mm thick black color Heaton 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.
- vi. Front side of the squad bench space to be used for securing the scoop stretcher, toggle clamp to be mounted at the rear end, Velcro and TWO SS brackets on bottom and one at front end stopper (scoop should not touch floor while loading and unloading) for holding the scoop with proper reinforcement to be provided appropriately.
- vii. Three suitably placed good quality seat belts to be provided with proper reinforcement on top and bottom.

National Fleet Head

Ambulance Fabrication Specifications (Annexure I, II)

- viii. Back rest with 25mm thick high density cushions to be provided on 10 mm ply wood with a height of 250mm and equal length of squad bench with proper reinforcement. Steel reinforcement of the squad bench to take direct load on structure rather than FRP panels.
- ix. A stopper to be provided for holding the squad bench in opening position at rear end (from entrance side) of the squad bench in 90 degree position with proper Reinforcement. Velcro to be provided for holding the bottom on to the back rest.
Mounting to be provided for Suction Apparatus in between the medical cabinet and squad bench to secure with Velcro strip and provision to be made for 12V DC Socket @height of 300mm from the floor. (Refer as per Drawing)
One handle length in two feet in size to be provided on LH side of the wall above the fire extinguisher for holding while getting into ambulance.(grab rail type in vertical)

3) EMT's Foldable Seat:

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

- i) Dimensions: Length =400mm, width =500mm and height=380mm,Back Rest height=400mm, back rest thickness=25mm. Minimum 60 cm distance to be provided from the EMT seat back upper surface to the forward hear of the stretcher.
- ii) S.S. Powder coated steel pipes of 20 mm dia & 1.5 mm wall thickness to be used.
- iii) It should have one waist seat belt.(aero plane model buckle type)
- iv) A minimum 50mm thick 50 or higher density Foam cushion to be provided for comfort.
- v) And the same should be upholstered with non absorbent Rexene of silver gray color.
- vi) The seat should have Velcro Belts to fold it up.
- vii) Bracket resting on floor to have spring loaded mechanism to close the bracket automatically when closed. Bottom and back rest plywood should be of 12mm thick fire retardant plywood
- viii) Rubber bushes to be provided to the brackets resting on floor
- Viii) Back rest to be provided with good locking system to hold the seat in both the conditions (When the chair is open or closed). Back rest foam 40mm thick 50 density foam cushion.

4) Oxygen Cylinder Compartment & Delivery System:

- i) A door for the Trolley to be cut and fabricated with bonnet type locking with a opening lever in the driver compartment.
- ii) The Door opening lever should be below the driver seat with flexible wire cage which is firm and flexible without steep bend en route.
- iii) The Cylinder compartment should be properly sealed from all sides along with the Door side to protect and avoid any chances of dust entering this compartment.
- iv) This trolley should be designed with M.S. angle frames 40x4 to hold two D type Oxygen cylinders (each could independently taken out), under medicine cabinet securely 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 three brackets top and bottom should be riveted with asbestos material for cylinder grip to avoid movement and noise in running.

Ambulance Fabrication Specifications (Annexure I, II)

- v) Complete oxygen cylinder compartment (SIX insides of the compartment) should be riveted with 1 mm thickness GI SHEET. Outer edges of the GI sheet to be welded with body to avoid sharp edges of GI sheet.
- vi) Three vents sizes 6 inches in length and one inch in height (from the centre of the door three inches LH side and three inches RH side) to be provided for oxygen doors .
- vii) Vents to be inclining downward from inside
- viii) High Pressure Tubing: 280 bar/ 4060 psi test pressure, with male female (5/8 inches) bull nose Brass connectors (Only forged brass connectors to be used) at both the ends, to connect it from the oxygen cylinder to the pressure regulator inside the patient cabin; 2 No's each of 2 meters length;
(e.g. Goodle make pipe/ISI standard to be used. metal pipes/wire mesh pipes are not acceptable)
- ix) Preset Pressure Gauge cum two stages Regulator, with static outlet pressure first stage of 20 bars/290psi and second stage of 4.12 bars/ 60 psi Double safety valve type 2 No's each.
 - x) Humidifier Bottle: Poly Carbonate Bowl with metal Cap and T type inlet outlet nipples, 2 nos. All the connectors should be of chrome plated on brass material.
 - xi) Flow Meter: Brass with chrome plated body, Poly carbonate tube, to regulate the flow from 0 to 15 liters per mints. It should be a back pressure compensated.
 - xii) Humidifiers should be mounted @1100mm height from the floor on RH side wall in front of the wooden cabinet.
 - xiii) Three plus one (3+1) four ports of Brass 3/8 inches nipple in size be provided in complete one assembly (One set) on a common rectangular Brass Tube (Rail) with two Needle Valves at both the ends. (Ask for Clarification if needed)

5) Flooring

- i) A water proof fire retardant marine ply board with 12mm thickness is to be used for flooring with maximum two joints coming around the centre of the body including Oxygen compartment base area Ply wood mounting should be equal surface around the floor. Ply wood should be mounted on the floor with sufficient reinforcement.
- ii) A non stick, mark resistant, scuff proof and safety flooring material with minimum 2 mm thickness (LG BR-92308) to be glued properly without entrapped air bubbles and without any joints anywhere and the vinyl mat to be extended up to 50 mm on the side walls. Only one sheet to be used from below wooden cabinet to end of the floor.
- iii) All floor level moldings, edging and trim shall be sealed to prevent fluids from seeping under cabinets, walls and ply board.
- iv) 1930 mm length x 700 mm wide (from RHS wheel hump to below the edge of the rear door) stainless plate SS 304 grade matt finish (1 mm thick) to be provided, under the stretcher loading area to prevent scratches and SS sheet should be paste with silicon paste to arrest the water entry under the SS sheet.
- v) The SS sheet placed on floor should be fixed with flat Stainless steel head less screws suitably placed to avoid any bulging of the sheet anywhere on edges or within.

Ambulance Fabrication Specifications (Annexure I, II)

6) Wall paneling work Pilot and Patient Compartments:

a) Wall paneling:

- i. To be reinforced with steel rib cage and all Interiors, internal sides, cover to close the wheel hump and roof should be paneled in **Fire Retardant Fiber Reinforced Plastic** (FRP) minimum 4 mm thick, Chopped Strand Mat / Isophelic Polyesters / Gel Coat (Naphtha / Saint Gobin or equivalent) with superior quality PU PAINT SWAN WHITE COLOUR in painting.
 - ii. Provision to be given on FRP for removing the rear door hinges and tail lights bulbs to be replaced without cutting the FRP panels.
 - iii. Dual insulations - PUF / PU 12 mm insulation and thermo cool 40mm thick (Both in two layers) for reduction of heat and noise within the patient compartment, insulating material should be non-toxic, non-settling type, vermin proof, mild dew proof and non hygroscopic body and paneling .
 - iv. Panels shall be installed in a manner to prevent sagging, deflection, warping or vibration and they should be free from any sharp projections. Wherever there are any open/hollow areas behind walls and doors, suitable reinforcement must be installed to prevent breakage of this paneling.
- b) All the Panels, Parts Mounted and Provision for Medical Equipments to be Mounted, shall have 4mm thick Mild Steel (MS Fe 410) sheet reinforced .
- i) 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)
- c) A seamless appearance and finish is desirable to keep the ambulance bacteria free in services.

General:

- i) One pouch with FRP (Size- Width-700mm, Height-200mm, Depth-100mm) to be provided on to the partition wall behind Pilot seat for placing ambulance records with proper reinforcement on partition structure
- ii) Provision for placement of power switches / sockets/ fans/ air conditioner, telemedicine and for upgrading other electrical items shall be made available in paneled walls.
- iii) Provision for two I.V hooks & holders – one on the front and one on the rear on RH side wall has to be made with proper reinforcement and Velcro arrangement
- iv) Adequate provision for safeguarding oxygen regulator, flow meter and humidifier on the right side panel at height of 1100mm finished floor of the patient cabin.
- v) Identification radium sticker for all electrical switches, medical equipments and racks etc. to be pasted.

Ambulance Fabrication Specifications (Annexure I, II)

7) Head racks and grab rails in the ceiling and near Rear Door:

Head Rack:

- i. Dimension approx: Length =1800mm, Width = 350mm, Height = 270mm. To be integrated with roof above the squad bench. Made with FRP (min 4mm thick) and 32X32X4 MS reinforcement to be provided for the head racks. Inner surface is to be pasted with soft Heatlon black colour sheet of 4mm thickness.
- ii. One Partition in centre of the head racks to be provided .
- iii. Four ISI quality toughened glasses thickness 4mm to be provided with Aluminum black colour sliding channel with velvet beadings (1.5MM thickness and 40 mm width).
- iv. Glasses to be fixed in opposite direction for opening and closing with aluminum handle cum clip type.(Automatic locking when closed)
- v. 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.

b. Grab Rail:

- i) A 2380mm long plastic sleeved MS pipe of 30mm dia, 1.5 mm wall thickness to be placed as grab rail on the Ceiling with proper aluminum/plastic oval shape support brackets at four places in equal distance. All the brackets should be riveted with grab rail.
- ii) A 700mm long plastic sleeved MS pipe of 30mm dia, 1.5 mm wall thickness to be placed as Grab rail near the LHS rear door at LHS wall 550 mm from the floor with firm metal support brackets at the ends with proper reinforcement.

c. Spine Board, and Wheel Chair Hold, Defibrillator Mountings:

- i) Provision should be made for securing the Spine board above the RHS wheel hump cover with double strip Velcro band at three places of the board with proper reinforcement.
- ii) A 200mm height stainless steel stopper to be provided for holding the spine board with proper reinforcement.
- iii) Adequate Supports to be provided on RHS wall to avoid spine board touching the wall when secured.
- iv) Provision for holding wheel chair on the RHS side wall before wheel hump with two mounting brackets on floor for holding the wheels of the chair, and toggle to be provided on top of the wheel chair for locking with proper reinforcement.
- v) Provision for fitment of Collapsible stretcher mounting & lock bracket on finished flooring
- vi) 4 mm thickness 3*3 feet in size MS Re enforcement to be given on RH side wall for fixing the Defibrillator/digital parameter monitor and ventilator. Provision to be given for holding the nuts from back side of the re enforcement.
- Vii) 2*1 feet re-enforcement to given above the spine board stopper for mounting the LAP TOP bracket.

8) Fire extinguisher hold:

- i) Provision with straps / Velcro with reinforcement for placing a fire extinguisher . A Stainless steel holding bracket to be provided on the floor with proper size.
- ii) Provision to be given in pilot compartment for holding 1 kg fire extinguisher at TWO places

Ambulance Fabrication Specifications (Annexure I, II)

9) Window Covering:

- i) All the rear side Windows and side windows and rear door glasses should have non transparent white film pasted from inside, more than half of the height of the window to avoid visibility into the ambulance

Part B: Scope of Air Conditioning Work: If not provided in base vehicle

10) Air Conditioning System:

- i. Roof Mounted Multi Flow Condenser (Length-minimum 712 MM X Width 635 MM X Thickness 26 MM) - Subros/ carrier or Equivalent- with Fiber cowl, with Double Cooling Fans.
- ii. Only casting A/C compressor mounting brackets to be used. (Welding compressor mounting Brackets are not allowed)
- iii. Double blower type Cooling Coil of reputed/renowned Indian brands Brand only to be used. iv. With engine driven compressor DKS17 of Subros / Valeo brand:
- iv. With 50mm ducts (ports) on the ceiling, in two rows to have eight delivery ports (four each row), of the patient cabin, with flaps to cover the ports,
- v. Digital microprocessor based temperature controller should be provided with fully automatic PCB based power supply.
- vi. System suitable for Heat Load to draw heat from 10 cubic meter volume, (to bring down temp from 40 degree Celsius to 16-20 degree Celsius in 20 mints).
- vii. Condenser fan should be cover with FRP and front with aluminum mesh.

(IN THE EVENT OF BASE VEHICLE SUPPLIED WITH INBUILT AIR CONDITIONING UNIT THE ABOVE AC SPECIFICATIONS CAN BE IGNORED)

Part C: Scope of Electrical Work:

11) Light bar:

- i) LED based Rhombic shaped, Double layered structure, Combination of continually lit, turning lamps, (E.g. SOLPHIN/GRAND)
- ii) Long life span, high luminance, Voltage: DC 12V, Power: 25W
- iii) With integrated double diaphragm type Siren, Public Addressing System of 100W (PMPO) output.
- iv) Light bar to be mounted on front roof of the vehicle with MS frame with FRP cover.
(Grand/Solphin or Equivalent Indian brands only to be used with onsite warranty)

12) Flashers, Spot Lights, Tube Lights:

- i) (6Nos) high intensity Flashers (ONLY LED), red-orange pair on either side, and both red-orange on the rear of the vehicle. (Dolphin/Grand or equivalent Indian brand only)
- ii) (3Nos) Spot / flood lights on three sides, except on the front, in the middle of each pair of Flashers. (Grand or equivalent Indian brand only)
- iii) Spot lights 5 no's to be provided on sealing (5 no's DC Worming lights-non-external

Ambulance Fabrication Specifications (Annexure I, II)

lighting) along the length of the patient cabin inside the ambulance with one of the light coming above head of the patient. (LUMAX /AUTOLITE/GRAND MAKE OR EQUIVALENT AUTOMOBILE GRADE)

- iv) LED lights 5 no's with fixture and 12V DC powered on the both sides for internal lighting each on a separate circuit with a LED type. (METALITE, INNOVLITE OR ANY AUTOMOBILE GRADE) Voltage: 12V DC, Amps: 2.1, Lumens: 2175 Dimension (mm): 920.8x66.1x63.5 weight (kg): 0.953.

❖ All bulbs and lights should be sourced from renowned Indian brands only

13) Electrical Wiring:

i) All The main Components like,

- (a) AC Blower
- (b) Condenser Fans,
- (c) Each of Internal Lightings (Led Lights),
- (d) Internal Lightings (Spot Lights),
- (e) External Lights (Flashers),
- (f) External Lights (Spot/Flood Lights),
- (g) Light Bars,
- (h) Each of Medical Equipments powering Sockets etc...

- ❖ should have separate circuits, (Power drawn directly from source (with proper cut off switch after Battery and a Fuse in it).
- ❖ A laminated copy of standard wiring colored diagram for Air conditioning, and DC wiring separately should be provided with each ambulance for reference.
- ❖ All precautionary measures should be taken in to consideration within the Scope of Auto Electrical work to avoid any accidental fire incidence during installation of any Electrical gadget, or any provision for that.
- ❖ Three pin socket provision for charging the mobile phone has to be given in the dash board

i) 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.

ii) All electrical and electronic components shall be selected to minimize electrical loads thereby not exceeding the Vehicle's generating system capacity. All electrical system components and wiring shall be readily Accessible Through access panels for checking and maintenance.

iii) 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.

iv) All switches, connectors, end-wiring should be rated to carry out minimum 125 % of their maximum ampere load. All wiring should confirm to ISI2645 specification.

Ambulance Fabrication Specifications (Annexure I, II)

v) 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 inch.) Away from exhaust system components.

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

vii) 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.

viii) 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.

14) Fuse and Other Safety Measures:

- i) Battery main cut off switch to be provided without naked wires or mounting.
- ii) A separate Fuse to each of the (as mentioned above) circuits to be given.
- iii) There should be an Indicating sticker to be pasted to each fuse on the fuse Box to identify the Fuse separately.
- iv) There should not be any joints be given within the Circuit Wiring,
- v) At any unavoidable wiring junction(s) the wires should be joined through Bakelite Connectors.
- vi) There should not be any loose wiring and loose joints.
- vii) Other than vehicle wiring harnesses, all wires/harness used for should be ((Flexi Cab, Finolex or equivalent Make with fire retardant grade) All the wiring provided shall be copper with insulation having high temperature resistant.
- viii) All wiring(including groundings), devices, switches, out lets etc except circuit breakers shall be rated to carry at least 125% of the maximum ampere load.
- ix) All splices and terminals provided shall comply with SAEJ163 standards.
- x) All the electrical wires and accessories should carry ISI Mark, with CML Number and be approved by technical committee and should be of (ARAI/ISI) automobile standards.
- xi) All other unspecified Parts necessary for the Wiring should be of Automobile grade And/or ISI Certified with CML Number.
- xii) Same color code wires to be used for all ambulances for respective circuits.
- xiii) All wiring harness should be covered with crocodile sleeves and should be routed properly.
- xiv) Only electronic type relays to be used and to be concealed. (No relay or fuse boxes should not be visible to outside)
- xv) Wiring necessarily passing through oxygen compartment should be protected from damage.

Ambulance Fabrication Specifications (Annexure I, II)

xvi) All the holes drilled for wire routing, holes edges to be covered with rubber sealing (Grommet) to prevent wire damage.

15) Clock:

A standard quality LED/Digital clock is to be provided in the patient compartment. It should have a minimum Letter (font) Size of 50 to have better visibility.

16) DC connections Socket:

i) Crabtree, 2 DC Sockets 12 V near Equipment area to be provided.

17) Roof / Wall mounted fans :

- i) Half Safety metal guard. Screw mounting. Oscillating, 200 mm fan blade, operated by DC 12V in 2 nos. in the Patient compartment,
- ii) One fan (same as above) in Pilot compartment. iii) Roof light to be fitted in pilot cabin

18) Exhaust Fan:

One 200 mm bush less DC Exhaust fan to be mounted to partition between Pilot and ambulance compartment, to pump ambient air into the patient compartment.(Should be sourced from renowned Indian brand only with ISI certification)- (Havel's or Bajaj)

19) Complete Graphics to be done as per GVK EMRI specifications.

Ambulance Fabrication Specifications (Annexure I, II)

(Annexure-II)

WORKMANSHIP CRITERIA FOR ACCEPTANCE

(General appearance of the vehicle shall not show any evidence of poor workmanship).

The following shall be reason for rejection:

1. Rough, sharp or unfinished edges, burrs, seam, sharp corners, joints, cracks, and dents.
2. Non-uniform panels. Edges that are not filleted, beveled, etc.
3. Paint runs sags, orange peel, "fish eyes", etc. and any other Imperfection or lack of complete coverage.
4. Body panels that are uneven, unsealed, or have voids.
5. Misalignment of body fasteners, glass, viewing panels, light housings, other items with large or uneven gaps, spacing etc. such as door, body panels, and hinged panels.
6. Improper body design or interface with the chassis that could cause injury during normal use or maintenance.
7. Improperly fabricated and routed wiring or harnesses.
8. Improperly supported or secured hoses, wires, wiring harnesses, mechanical controls.
9. Loose, vibrating, abrading body parts, components, subassemblies, hoses, wiring harnesses or trim.
10. Interference with chassis components, body parts, doors, etc.
11. Leaks of any gas or fluid lines, (AC, coolant, oil, oxygen, etc.)
12. Abnormal Noise, panel vibrations, etc.
13. Sagging, non-form fitting upholstery or padding.
14. Incomplete or incorrect application of rust proofing.
15. Inappropriate or incorrect use of hardware, fasteners, components, or methods of construction.
16. Incomplete or improper welding, riveting.
17. Visual deformities.
18. Lack of uniformity and symmetry where applicable.
19. Unsealed appurtenances or other body components, gaskets, etc.
20. In addition, any deviation from specification requirements (refer Annexure-I) or any other item, whether or not stipulated herein, that affects form, fit, function, durability, reliability, safety, performance or appearance shall be cause for rejection.
21. Defective components shall not be furnished. Parts, equipment, and assemblies, which have been repaired or modified to overcome deficiencies, shall not be furnished without the approval of GVK EMRI. Welded, bolted, and riveted construction utilized shall be in accordance with the highest standards of industry. Component parts and units shall be manufactured to definite standard dimensions with proper fits, clearances, and uniformity.

(All the old parts (removed parts from Ambulance like partition, stretcher, etc. to be handed over to GVKEMRI).