



# KHYBER PAKHTUNKHWA HUMAN CAPITAL INVESTMENT PROJECT



## TORs For Procurement and Management of RMNCH Ambulatory care Services in 04 Districts of Project

### **1 BACKGROUND:**

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The Government of Pakistan (GoP) has received credit from World Bank towards the cost of the Khyber Pakhtunkhwa Human Capital Investment Project (KP-HCIP). The project intends towards improving the performance of the health sector and is implementing several strategic policies/guidelines including the Khyber Pakhtunkhwa Health Policy 2018. This long-term strategic plan, accompanied by a monitoring and evaluation (M&E) and financial framework, provides guidance on five priority areas (three of which [(i), to (iv)] are supported by the project:

- i. Enhanced coverage and access to essential health services especially for the poor and vulnerable;
- ii. Measurable reduction in the burden of disease especially among vulnerable segments of the population;
- iii. Improved human resource management;
- iv. Governance, regulation and accountability; and
- v. Enhanced health financing for efficient service delivery and financial risk protection for the people of KP.

The Government of KP has made Health Sector reform a priority of its agenda, and as such introduced numerous initiatives to transform the landscape of health service delivery in the province. One of the most important activities is provision of ambulances to avoid the three delays of RMNCH services to improve mortality and morbidity to achieve the SDG.

### **2 EXECUTIVE SUMMARY:**

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In response to the critical need for efficient emergency medical services, the document outlines a comprehensive requirement for the procurement and management of ambulance services. The scope of this initiative includes the acquisition, customization, maintenance, and management for optimal ambulance services at BHU, RHC and Cat-D level in project districts of KP-HCIP Health Kyber Pakhtunkhwa, Pakistan. The firms interested are invited to participate in the bid with specified criteria in eligibility and expected to provide detailed proposal for the procurement of ambulances that should aim to establish a sustainable, responsive, and high-quality emergency



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medical service system. This will require collaboration between healthcare providers, government agencies, and private partners to ensure its success and the well-being of the community.

### 3 OBJECTIVES:

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PMU wishes to establish non-exclusive Long-Term Arrangement(s) (LTA) *for the procurement and management of ambulance services*. The primary objective of hiring the firm is to;

- a. Cost-effective ambulance procurement, fabrication, and maintenance.
- b. Development of Control Room for management and responsiveness.
- c. Enhance the efficiency and lifespan of ambulance fleets through effective management.
- d. Improving transportation access for RMNCH beneficiaries to healthcare facilities.
- e. Ensuring timely and safe transportation of pregnant women, newborns, and children in emergency situations.

### 4 SCOPE OF WORK

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#### 4.1 AMBULANCE PROCUREMENT AND SPECIFICATIONS:

The firm will be bound to provide vehicles directly from the authorized agent of manufacturer or manufacturer themselves as per World Bank procurement regulations through limited competition. The desired number of ambulances is 80, where 70 ambulances will need to acquire basic life support and 10 will be held for advance level life support, respectively. The following parameter should be kept in mind with regards to the procurement;

#### A. Initial Acquisition:

1. Reputable vehicle make and model that aligns with the requirements.
2. Evaluate and select ambulance models that align with operational requirements.
3. Negotiate favourable procurement contracts considering costs, warranties, and customization options.

The Specification of ambulance are;

MINIMUM REQUIREMENTS
<b>Vehicle Type</b>
White Right Hand Drive High Roof Van
<b>Engine &amp; Capacity</b>
Fuel Type: Petrol/Diesel
Emission Standard: Minimum Euro-II
Displacement: 2400cc to 3000 cc,
Power (Hp)113~136
Transmission: Five-Speed, Manual Transmission (5+1)



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Air Filter Assembly: Above Floor Level with easy access
Fuel Tank Capacity (L): Minimum 75L
<b>Dimensions</b>
Minimum ground clearance: 170 mm
Rear Cabin Size L x W x H (ft): Minimum 10 x 5.5 x 5 feet (total 5380mm*1880mm*2285mm)
<b>Chassis</b>
Suspension: Soft Suspension
Brake Type: ABS + EBD
Brake system Front disk and rear drum brake
Steering Type: Hydraulic Power + Adjustable Column
<b>Safety</b>
Front Airbags: Driver + Passenger
Standard Accessories: including Spare tire, Tool kit, Fog light etc.
Standard Warranty: of 02 Years or 100,000 km whichever comes first
<b>Exterior</b>
Tire Size: Tire Size: Minimum 195/ 80 R15C Soft Radial
<b>Body Paint</b>
ED paint s
Wheel Assembly: Alloy Rim /iron with wheel cap
Wiper: Rear + Front Wiper/Rear Washer/Rear Defroster/Rear Under view mirror
Bumper (Front & Rear): Body Colored
Power windows/ power door locks
High brake lights
Rear glass Defrost: YES
Rear mirror: YES
Camera: m Reversing Radar Buzzer
<b>Interior</b>
Air Conditioner & Heater: Dual (Front + Rear)
Seat Belts:
Accessory Connector: 12 V x 1 for Driver Only
Speaker:
Side Door Position: Left Side, Manual Slide
<b>Service Network and mobile workshop van provide for warranty period</b>
<b>Important Note:</b>
Manufacturer/Supplier must submit the certificate under technical alliance with US, European and Japanese engine's manufacturer.
The supplier/bidder must have minimum four 3S facilities in Major cities of Khyber Pakhtunkhwa to facilitate PMU fleet in schedule maintenance along with Mobile workshop in major cities. Physically Inspection of 3S facilities will be carried out by PMU committee, if required. Or the firm can offer an alternate good option.



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## B. Customization and Remodelling:

This will be done through open competitive bidding as per World bank Procurement Regulation. The Fabricator will;

1. Collaborate with specialized vehicle customization workshops.
2. Customize ambulance interiors to accommodate advanced medical equipment and ensure patient comfort.
3. Implement safety features and technologies for efficient emergency response.

## TECHNICAL SPECIFICATIONS OF ALS AMBULANCE FABRICATION

### Ambulance Specifications:

#### 1. **Advanced Life Support (ALS) Ambulances:**

- a. Equipped with advanced medical equipment for critical care scenarios.
- b. Staffed with paramedics trained in advanced life support procedures.
- c. Designed for emergencies such as cardiac arrest, severe trauma, and critical medical conditions.

### Equipment Inventory for ALS Ambulances:

1. Cardiac monitors with defibrillators.
2. Ventilators for respiratory support.
3. Automated external defibrillators (AEDs).
4. Advanced airway management equipment.
5. Intravenous (IV) access and medication administration supplies.
6. Portable diagnostic equipment (e.g., point-of-care lab testing).
7. Specialty equipment for trauma care (e.g., traction devices).

### EXTERNAL BRANDING DESIGN FOR AMBULANCE

- The ambulance should feature elegant and reflective PVC vinyl stickers displaying the word “Ambulance” on the front, rear, and sides.
- The institution's name should be affixed to both the right and left sides of the vehicle using reflective PVC vinyl stickers, in accordance with Service approval.

### SAFETY GUARDS

- Front and rear safety guards, constructed from stainless steel material, should be installed to protect the bumper.

### WINDOW GLASS TREATMENT

- Two-thirds of the windows in the patient compartment should be covered with frosted or opaque stickers to ensure patient privacy.

### FLOOR SPECIFICATIONS

The floor of the ambulance should not be punctured. Special hard points should be created for the installation of chairs, cabinets, benches, etc. These hard points should be constructed using 6mm MS sheet on the floor and ceiling. The floor should be covered with waterproof and scratch-resistant plywood sheet. A 2-3mm thick



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vinyl flooring should cover the sides, and all gaps should be completely sealed to ensure waterproofing. Additionally, a special stainless steel 16SWG sheet should be provided under the stretcher area.

## **PARTITION WALL**

A fiberglass partition should be installed between the patient compartment and the driver cabin. A small window, either built-in or sliding (in the case of a Hi Roof), should be included in the partition wall to allow for communication between the driver and the patient compartment.

## **CEILING SPOILER**

The ceiling spoiler should be constructed from ABS material and should feature internal LED lights. Long grip handles, made of stainless steel (SS) pipe, should be provided along the length of the ceiling spoiler. There should be two IV hooks with anti-swing belts.

## **ABS SHEETS ON SIDE WALLS**

To ensure cleanliness, all side walls in the patient compartment lining should be replaced with washable and disinfectable ABS sheets, replacing the previous hardboard lining.

## **OXYGEN PANEL**

The side utility panel, dedicated to the oxygen system, is constructed from waterproof composite material and is located on the right side of the ambulance. It includes:

- Two oxygen outlets
- An oxygen alarm system
- One pressure gauge for monitoring line pressure

## **ELECTRICAL WIRING**

The ambulance's electrical system for the patient compartment should be meticulously designed to ensure safety and reliability. Electrical system should include:

- Wiring harness system: All electrical wiring should be part of a wiring harness system, eliminating joints and tape. Connectors should be used throughout.
- Copper wires: Wiring should be made of copper, with fire-retardant and high-temperature-resistant properties.
- Switches: All switches should be of the rocker type, labelled, and rated for DC 12V, 10 Amps. They should be made of rugged material and include 01 USB port and a voltage meter.
- Separate battery: A separate maintenance-free 40-amp battery should be dedicated to the patient compartment. It should be charged through the vehicle's generator but should include a battery separator and an additional battery charger with an external power coupling.
- Inverter: There should be a 220-volt imported inverter with a capacity of 500 watts.
- Safety considerations: The ambulance's electrical wiring and components should be entirely separate from the vehicle chassis circuit. Additionally, electrical wiring and components should not terminate in the oxygen storage compartment. The electrical system should include a master circuit breaker easily accessible to the driver.

## **WIRING FOR TRACKER & WIRELESS COMMUNICATION SYSTEM**

The ambulance should have separate wiring provisions for the Tracker and Wireless communication system. It should include provisions for wireless and mobile antennas, all of which should be installed as per the Service's approval.

## **ATTENDANT BENCH (3-4 PERSONS)**

An openable fiberglass attendant bench is located on the left side of the rear cabin, doubling as a storage box.



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The bench is layered with 3 inches of special die-moulded polyurethane foam, similar to that used in automobile seats, and has an approximate width of 16 inches.

The automotive-grade foam is covered with high-quality artificial leather.

For easy access into the vehicle, a side bar made of stainless steel (SS) pipe is provided at the back of the bench.

## **PARAMEDIC SEAT**

A revolving EMT seat is fixed to the floor of the vehicle at the head end of the patient.

The seat includes a locking system to secure it in place when necessary and is equipped with a waist seat belt for safety.

It is covered with high-quality artificial leather or fabric for durability and comfort.

## **MEDICAL CABINET**

- The medical cabinet is constructed from high-quality, non-staining, scratch-resistant, rust-proof, and waterproof PVC fibreboard material, with ABS moulded cladding where necessary.
- All front doors and drawers feature a double-sided finish and self-retaining recessed handles.
- The doors are equipped with self-closable surface hinges.

The cabinet is divided into three sections:

### **1. Oxygen Section:**

- Designed to accommodate two M.F size O2 cylinders.
- Includes double steel brackets with rubber padding to secure the cylinders.
- Features an internal light with a door switch and a vinyl flooring mat.

### **2. Wash Basin:**

- Integrated wash basin with a water tap and water reservoir of approx. 15L.
- Equipped with an electric water pump and an electric switch for the tap.

### **3. Drawers Section:**

- Consists of 3 to 4 drawers, all made of ABS material.
- Each drawer is fitted with a special self-closing and self-retaining catcher handle lock system, ensuring they remain closed during emergency driving.

## **OXYGEN SUPPLY SYSTEM**

The ambulance is equipped with a new imported oxygen supply system, including oxygen cylinders of approximately 10 liters capacity. These cylinders should be tested and filled by an approved company and should have an automatic changeover system.

The oxygen supply hose should be made of a material that retains its flexibility in cold conditions and is resistant to cracking in heat. It should be fitted with brass sockets and connectors for durability.

The system includes imported pressure gauges for the oxygen cylinders. Oxygen is delivered through two BS outlets on the panel, and a flow meter is provided for accurate oxygen delivery.

## **INTERCOM SYSTEM**

An intercom system should be installed for communication between the driver and the patient compartment, ensuring clear and effective communication during transit.

## **REAR VIEW CAMERA & LCD SCREEN**

The ambulance should be equipped with a rear-view camera to assist the driver in maneuvering the vehicle safely. Additionally, an LCD screen should be installed in the driver compartment to display the feed from the rear-view camera, providing enhanced visibility and safety.

## **EXTERNAL & INTERNAL LIGHTS & WARNING DEVICES**

The ambulance should be equipped with the following lighting and warning devices:



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- LED emergency bar light, approximately four feet in length, and a PA system with a siren/hooter system with a 150-watt output.
- LED searchlights, installed at the back and on both sides of the ambulance.
- There should be at least two warning (red & blue) flashing flat lights on each side, sized around 2.5" x 3.5", and two at the back of the ambulance.
- Internal general lighting should be provided, along with three LED spot lamps along the length of the main stretcher, ensuring adequate illumination for patient examination even at night.

All controls for the external warning lights should be located on the driver's console for ease of access and operation.

## GENERAL MEDICAL EQUIPMENT

### SPHYGMOMANOMETER / BP APPARATUS (IMPORTED)

The rear cabin should be equipped with one imported sphygmomanometer / BP apparatus featuring a wall-mounted large dial type measuring 5/6 inches. The apparatus should have a stethoscope and cuffs for accurate blood pressure measurement.

### FOLDING STRETCHER WITH TWO-FOLD

- The bedding area should be constructed from strong, water-resistant PVC-coated orange parachute cloth, ensuring easy maintenance and cleanliness.
- The structure of the foldable stretcher should be made from 1¼-inch round, lightweight aluminium alloy, providing both strength and portability.
- A special carrying bag made of parachute material should be provided for convenient storage and transport of the stretcher.

### MAIN SELF-LOADING STRETCHER (STAINLESS STEEL)

The main self-loading stretcher should have following specifications:

- Size: Length: 1960mm, Width: 560mm, Standing Height: 880mm, Collapsed Height: 340mm ±10mm.
- Load capacity of 200 ± 10 kg.
- Constructed from stainless steel (S/S) pipe (30-32 mm) with foldable legs that strike against the bumper of the ambulance.
- Backrest adjustable up to 40° and leg raise up to 15° for patient comfort.
- Designed for stability at every point, with two protective side bars that should be collapsible.
- Four special wheel castors with plastic tires compound (two fixed & two swivel) for optimal bump absorption. Wheel sizes should be approx. 150 mm with brakes on two wheels, and two roller wheels at the front and two rear wheels approximately 100mm.
- Bedding area should be made of perforated aluminium sheet approximately 2 mm thick.
- Orange or black colour mattress, anatomic, adjustable, and watertight, with a seamless, heat-sealed, antibacterial design for maximum patient comfort and stability.
- Fixation system at the front and rear in the centre with a quick system that should be impact-resistant.
- Two stretcher belts with buckles for securing the patient during transport.

### First Aid Bag

The ambulance should be equipped with a first aid bag made of strong, water-resistant PVC-coated washable red parachute cloth with yellow reflective strips. It includes the following items:

Name of Items	QTY	Name Of Medicine	QTY
Sticking Tape	05	Polyfax ointment	02





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Small Scissor	01	Move/ Wintogine(Pain killer)	02
Cotton Bundle Small	01	LP Zine /Germinal/Brunel	02
Crape Bandage 4'' & 6'' (5+5)	10	Pyodine Large	01
Cotton Bandage 2 ½'' & 4'' (5+5)	10	Inj. Dicloran	05
Gauze Piece	01 Box	Inj Avil	05
Thermometer	01	Tab. Panadol	10
Gloves	01 Box	Tab. Aspirin	10
Face Mask	01 Box	Tab. Capoten 25 mg	10
Goggles	02	Tab. Angicid 0.5 mg	10
Emergency Torch	01	Alcoholic Swab	20
Sunny Plast	01 packet	Inj. Ringer Lactate 500ml	01
BP Apparatus (Aneroid)	01	Inj. Dextrose 25 %	05
Stethoscope	01	Branulas 18,20,22,24G (one Each)	04
Cervical Collar (M & L) One Each	02	Local Anesthetic Spray	01

### Delivery Kit: (Quantity 5)

Gamma Sterilized Delivery Kits. Each Kit containing following items:

SR #	ARTICLE	QTY
1	Sterilized Surgical blade No.10 (Single Edge)	1
2	Sterile Cord clamps Plastic, Individually Packed.	2
3	Gauze Pad 12 Ply/Layer 3" x 3"	5
4	Cotton Swab. Approx. 2 gm or more.	5
5	Toilet Soap 50/60 gm.	1
6	Latex Examination Gloves (Pair)	2
7	Transparent Plastic Sheet 3ft x 3ft nominal thickness of 0.2 mm or more	1
8	Polythene Bag 10 Inch x 10 Inch with nominal thickness of 0.2 mm or more	1
9	Mucus Extractor	1

### SYRINGE CUTTER

One syringe cutter.

### HAND SEARCH LIGHT

Rechargeable LED hand search light.

### SPOT LAMP

Spot Lamp with flexible neck for patient examination.

### BACK FLOOD LIGHT

Back search light, adequate internal lighting for handling the patients at night.

### I.V HOOKS

Hooks for intravenous infusion set should be placed.

### FIRE EXTINGUISHERS

6 Kg Dry Chemical Powder type fixed with bracket to the side-wall.

### TRASH BOX

Stainless steel with 6-8 liters capacity, attached to the floor and with plastic removable and washable inner lining.

### ALS MEDICAL EQUIPMENT

### SPINE BOARD WITH HEAD IMMOBILIZER (IMPORTED)





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The ambulance should be equipped with an imported spine board featuring a head immobilizer, designed for optimal patient immobilization and safety:

- The spine board should be floatable, reducing the risk of contamination during patient transportation.
- It should be constructed from high-density, completely recyclable polyethylene, moulded into a unique, single-piece shell for durability and ease of cleaning.
- The head immobilizer should be included and must ensure the optimum immobilization of traumatized patients.
- Size in mm: L 1840 x W 450mm x H 450. ( $\pm 5$ mm)
- Load capacity of 160 kg.

## **Glucometer with Strips (Strips Pack Size 50) (USA/UK/EU/Japan)**

1. Display: LCD
2. Measuring time: < 4 Seconds or equivalent
3. Measurement range: 0.6-33.3 mmol/L
4. Enzyme system: FAD glucose dehydrogenase (GDH), electrochemical
5. Sample size: 0.6  $\mu$ L.
6. Blood Sample Types: Capillary, venous, arterial, neonatal
7. Battery Type: 1 coin cell (CR2032)
8. Pack of 25 strips should be included.

## **Amputation & Bleeding Kits**

### **Amputation Kit in Stainless Steel Tray having following items:**

- |                                    |  |
|------------------------------------|--|
| 1. Stainless Steel Tray            | 12. Gauze Packs large (04)               |
| 2. Stainless Steel Kidney Tray     | 13. Silk 2/0 & 1 size 2 each with needle |
| 3. Saw Cutter (01)                 | 14. Tourniquets (04)                     |
| 4. Needle holder (01)              | 15. Inj. Xylocaine (05)                  |
| 5. Artery Forceps (02)             | 16. Inj. Avil (02)                       |
| 6. Toothed Forceps (01)            | 17. Inj. Dicloran (02)                   |
| 7. Tissue Scissor (01)             | 18. Inj. Maxolon (02)                    |
| 8. Sponge Holder (01)              | 19. Inj. Distilled Water (04)            |
| 9. Dressing Scissor (01)           | 20. D / Syringes 5cc & 10cc (05 each)    |
| 10. Catgut 2/0 (05).               | 21. Antiseptic Wipes Box (01)            |
| 11. Crepe Bandages S & L (02 each) |  |

## **Burn Kit**

### **Burn Kit having the following items:**

1. Sofratule 10 packs
2. 10 Water Gel/Burn Gel dressing (10x10 cm)
3. 5 Sterilized Gauze (4x4)
4. 2 Silver Sulfasalazine Creams
5. 2 Xylocaine Gels
6. 2 Burn Lotions
7. 2 Burn sheets
8. 4 Bandages of size 4"
9. 1 angular scissor
10. 2 medical tapes of size 1".



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11. A burn set which consists of soft, highly absorbent bandage materials made of polyester shall be supplied to be used in burn incidents.
12. Burn set shall contain the following equipment.
13. 5 units of burn Sheet.
14. 20 units of burn dressing.

## **NEBULIZER (USA/EU/JAPAN)**

- Designed for the treatment of the upper and lower respiratory tract, including conditions like colds, asthma, and respiratory diseases.
- Should be easy to disinfect for safe and hygienic use.
- Should be operated using mains power or the rechargeable battery.
- Automatic switch-off: yes
- Batteries: 4 x 1.5 V AA batteries
- Main's connection: 100-240 V~; 50-60 Hz; 0.5 A
- Particle size: < 6.0 µm
- Technology: Vibrating membrane
- Nebulizer performance: approx. 0.25 ml/min.

## **Airway Management Bag**

There should be an airway management bag made of strong, water-resistant PVC-coated washable parachute cloth with reflective strips. It should include the following items:

- Ambo Bag with special valves designed to limit excessive gas flow into the patient's airway, significantly reducing the risk of gastric insufflation by lowering airway pressure.
- Hand-operated manual suction apparatus.
- One portable BP apparatus with a stethoscope.
- Three silicon laryngeal masks in variable sizes with transparent tubes (3 of each size).
- Laryngoscope with four curved blades.
- One professional LED torch.
- Colour-coded airways of assorted sizes (1 set).
- Mouth opener.
- Sterilized disposable gloves (04 pcs).
- Contaminant bags (04 pcs).

## **PORTABLE ALUMINIUM O2 CYLINDER (IMPORTED) (CE/EN CERTIFIED)**

One portable aluminium oxygen cylinder, approximately 2 litres in capacity, with a regulator included in a carrying bag. Key features should include:

- Lightweight and easy to handle aluminium construction.
- Maintenance-free cylinders specifically designed for ambulances and emergency use.
- Should include regulator, valve, and transportation bag for convenience and ease of use.

## **SUCTION APPARATUS BATTERY OPERATED (IMPORTED) (CE/EN CERTIFIED)**

One rechargeable battery-operated portable suction apparatus with following features:

- Maintenance-free vacuum pumps for reliable performance.
- Autoclavable 1400ml containers with an anti-overflow valve and effective closure system.
- Techno-polymer body that is easy to clean.
- Max Air Flow: 18 – 25 L/min
- Max Vacuum Pressure: 0.07 - 0.08MPa
- Lithium batteries for long-lasting power.
- Low Noise Level for quiet operation.



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- Fast recharge and continuous run time of minimum 60 mins on battery for uninterrupted use.

## **MULTI-PARAMETER PATIENT MONITOR (USA/EU/JAPAN – CE/EN CERTIFIED)**

- Sleek, elegant, and user-friendly design, with a lightweight, portable, and attractive outline.
- Suitable for adults, paediatric, and neonatal patients.
- Minimum 10" colour screen with multichannel waveforms display.
- Display tabular; graphical
- Parameters include ECG (3/5 Lead View), SPO2, PR, NIBP, and Temp monitoring.
- **ECG**
  - o Number of Leads 3 or 5 leads Lead View
  - o User Selectable : I,II,III,aVR,aVL,aVF,V(5 Lead);
  - o 1,11 or 111(3 lead)
- **Pulse Oximetry**
  - o Range 0 to 100%
  - o Resolution 1%
- **Respiration Rate**
  - o Rate: Adult : 01%i 120 rpm
- **NIBP**
  - o Technique Oscillo metric during inflation
  - o Range Adult: 40-270mmHg
- **Temperature**
  - o Range, Accuracy 0°-50`C : +0.1 C
- **Pulse**
  - o Rate Source User Selectable: Smart, ECG, Pleth, NIBP
  - o Range Adult 15-300 bpm
- Power requirements: AC: 100 ~ 240V, 50Hz/60Hz; DC: Built-in rechargeable 11.1V 24wh Li-ion battery.
- Audio/visual alarm for convenient monitoring of patient status by EMTs.
- Certifications: CE/EN

## **AED DEFIBRILLATOR (USA/UK/EU/JAPAN - CE/EN CERTIFIED)**

- CPR feedback, verbal, and visual prompts during operation.
- Easy-to-operate, compact design, with a semi-automatic operating mode.
- Output up to 200J for effective defibrillation.
- Energy sequence: 8 sec to 150J, Charge time: 10 Sec to 200J.
- Charging time from shock alert\*: ≤ 9 sec with shock at 150J - ≤ 12 sec with shock at 200J
- Charging time from analysis time\*: ≤ 13 sec with shock at 150J - ≤ 16 sec with shock at 200J
- Analysis time: from 4 to 15 seconds
- Impedance range: 20-200 Ohms
- Sensitivity: 97%
- Specificity: 99%
- Semi-automatic: 4 buttons: ON/OFF, shock delivery, patient selection (adult/child)
- Defibrillation PADS Shelf Life: 24-30 months
- Battery Type: Disposable battery 8 cells Li-MnO<sub>2</sub>;
- Voltage/capacity: 12VDC-3000mAh
- Autonomy: Up to 200 complete rescue cycles (200J shocks + CPR)
- Stand by life: Up to 3 years



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## TRANSPORT VENTILATOR (USA/UK/EU/JAPAN - CE/EN CERTIFIED)

- Assist-Control Ventilation Mode: Assist Control, Initiates at pressures below -2 cm H<sub>2</sub>O
- Flow Rate: Ranges from 12 to 36 LPM
- Breathing Rate: Customizable, offering options of 0 and a range from 5 to 30 breaths per minute.
- Tidal Volume: Adjustable, spanning from 200 to 1200 ml.
- Inspiratory Time: 1 or 2 seconds
- FiO<sub>2</sub>: Set at 100%
- Manometer Display: Digital representation from 0 to 99 cm H<sub>2</sub>O
- Airway Pressure Limit: Fixed at 60 cm H<sub>2</sub>O.
- Power Supply: Pneumatic mechanisms with electronic controls and alert systems
- Power Input: Pneumatic source requiring 40-87 psi O<sub>2</sub> and 2 D cell batteries.
- Reflecting average adult configurations: 10 BPM breathing rate, 640 ml tidal volume, and 2-second inspiratory interval.
- Battery Time: 48 Hours of uninterrupted usage.

## TECHNICAL SPECIFICATIONS OF BLS AMBULANCE FABRICATION

### 2. Basic Life Support (BLS) Ambulances:

- a. Possess essential medical equipment for basic life support interventions.
- b. Manned by emergency medical technicians (EMTs) trained in basic life support procedures.
- c. Designed for stable patients, minor injuries, and non-critical medical conditions.

### Equipment Inventory for BLS Ambulances:

1. Basic first aid supplies.
2. Oxygen delivery systems.
3. Stretchers for patient transport.
4. Spine board and basic immobilization devices.
5. Basic diagnostic tools (e.g., blood pressure monitors).

## EXTERNAL BRANDING DESIGN FOR AMBULANCE

- The ambulance should feature elegant and reflective PVC vinyl stickers displaying the word "Ambulance" on the front, rear, and sides.
- The institution's name should be affixed to both the right and left sides of the vehicle using reflective PVC vinyl stickers, in accordance with Service approval.

## SAFETY GUARDS

- Front and rear safety guards, constructed from stainless steel material, should be installed to protect the bumper.

## WINDOW GLASS TREATMENT

- Two-thirds of the windows in the patient compartment should be covered with frosted or opaque stickers to ensure patient privacy.

## FLOOR SPECIFICATIONS

The floor of the ambulance should not be punctured. Special hard points should be created for the installation of chairs, cabinets, benches, etc. These hard points should be constructed using 6mm MS sheet on the floor



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and ceiling. The floor should be covered with waterproof and scratch-resistant plywood sheet. A 2-3mm thick vinyl flooring should cover the sides, and all gaps should be completely sealed to ensure waterproofing. Additionally, a special stainless steel 16SWG sheet should be provided under the stretcher area.

## **PARTITION WALL**

A fiberglass partition should be installed between the patient compartment and the driver cabin. A small window, either built-in or sliding (in the case of a Hi Roof), should be included in the partition wall to allow for communication between the driver and the patient compartment.

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The side utility panel, dedicated to the oxygen system, is constructed from waterproof composite material and is located on the right side of the ambulance. It includes:

- Two oxygen outlets
- An oxygen alarm system
- One pressure gauge for monitoring line pressure

## **ELECTRICAL WIRING**

The ambulance's electrical system for the patient compartment should be meticulously designed to ensure safety and reliability. Electrical system should include:

- Wiring harness system: All electrical wiring should be part of a wiring harness system, eliminating joints and tape. Connectors should be used throughout.
- Copper wires: Wiring should be made of copper, with fire-retardant and high-temperature-resistant properties.
- Switches: All switches should be of the rocker type, labelled, and rated for DC 12V, 10 Amps. They should be made of rugged material and include 01 USB port and a voltage meter.
- Separate battery: A separate maintenance-free 40-amp battery should be dedicated to the patient compartment. It should be charged through the vehicle's generator but should include a battery separator and an additional battery charger with an external power coupling.
- Inverter: There should be a 220-volt imported inverter with a capacity of 500 watts.
- Safety considerations: The ambulance's electrical wiring and components should be entirely separate from the vehicle chassis circuit. Additionally, electrical wiring and components should not terminate in the oxygen storage compartment. The electrical system should include a master circuit breaker easily accessible to the driver.

## **WIRING FOR TRACKER & WIRELESS COMMUNICATION SYSTEM**

The ambulance should have separate wiring provisions for the Tracker and Wireless communication system. It should include provisions for wireless and mobile antennas, all of which should be installed as per the Service's approval.

## **ATTENDANT BENCH (3-4 PERSONS)**

An openable fiberglass attendant bench is located on the left side of the rear cabin, doubling as a storage box.



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The bench is layered with 3 inches of special die-moulded polyurethane foam, similar to that used in automobile seats, and has an approximate width of 16 inches.

The automotive-grade foam is covered with high-quality artificial leather.

For easy access into the vehicle, a side bar made of stainless steel (SS) pipe is provided at the back of the bench.

## **PARAMEDIC SEAT**

A revolving EMT seat is fixed to the floor of the vehicle at the head end of the patient.

The seat includes a locking system to secure it in place when necessary and is equipped with a waist seat belt for safety.

It is covered with high-quality artificial leather or fabric for durability and comfort.

## **MEDICAL CABINET**

- The medical cabinet is constructed from high-quality, non-staining, scratch-resistant, rust-proof, and waterproof PVC fibreboard material, with ABS moulded cladding where necessary.
- All front doors and drawers feature a double-sided finish and self-retaining recessed handles.
- The doors are equipped with self-closable surface hinges.

The cabinet is divided into three sections:

### **4. Oxygen Section:**

- Designed to accommodate two M.F size O2 cylinders.
- Includes double steel brackets with rubber padding to secure the cylinders.
- Features an internal light with a door switch and a vinyl flooring mat.

### **5. Wash Basin:**

- Integrated wash basin with a water tap and water reservoir of approx. 15L.
- Equipped with an electric water pump and an electric switch for the tap.

### **6. Drawers Section:**

- Consists of 3 to 4 drawers, all made of ABS material.
- Each drawer is fitted with a special self-closing and self-retaining catcher handle lock system, ensuring they remain closed during emergency driving.

## **OXYGEN SUPPLY SYSTEM**

The ambulance is equipped with a new imported oxygen supply system, including oxygen cylinders of approximately 10 liters capacity. These cylinders should be tested and filled by an approved company and should have an automatic changeover system.

The oxygen supply hose should be made of a material that retains its flexibility in cold conditions and is resistant to cracking in heat. It should be fitted with brass sockets and connectors for durability.

The system includes imported pressure gauges for the oxygen cylinders. Oxygen is delivered through two BS outlets on the panel, and a flow meter is provided for accurate oxygen delivery.

## **INTERCOM SYSTEM**

An intercom system should be installed for communication between the driver and the patient compartment, ensuring clear and effective communication during transit.

## **REAR VIEW CAMERA & LCD SCREEN**

The ambulance should be equipped with a rear-view camera to assist the driver in maneuvering the vehicle safely. Additionally, an LCD screen should be installed in the driver compartment to display the feed from the rear-view camera, providing enhanced visibility and safety.

## **EXTERNAL & INTERNAL LIGHTS & WARNING DEVICES**

The ambulance should be equipped with the following lighting and warning devices:





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- LED emergency bar light, approximately four feet in length, and a PA system with a siren/hooter system with a 150-watt output.
- LED searchlights, installed at the back and on both sides of the ambulance.
- There should be at least two warning (red & blue) flashing flat lights on each side, sized around 2.5" x 3.5", and two at the back of the ambulance.
- Internal general lighting should be provided, along with three LED spot lamps along the length of the main stretcher, ensuring adequate illumination for patient examination even at night.

All controls for the external warning lights should be located on the driver's console for ease of access and operation.

## GENERAL MEDICAL EQUIPMENT

### SPHYGMOMANOMETER / BP APPARATUS (IMPORTED)

The rear cabin should be equipped with one imported sphygmomanometer / BP apparatus featuring a wall-mounted large dial type measuring 5/6 inches. The apparatus should have a stethoscope and cuffs for accurate blood pressure measurement.

### FOLDING STRETCHER WITH TWO-FOLD

- The bedding area should be constructed from strong, water-resistant PVC-coated orange parachute cloth, ensuring easy maintenance and cleanliness.
- The structure of the foldable stretcher should be made from 1¼-inch round, lightweight aluminium alloy, providing both strength and portability.
- A special carrying bag made of parachute material should be provided for convenient storage and transport of the stretcher.

### MAIN SELF-LOADING STRETCHER (IMPORTED) (STAINLESS STEEL)

The main self-loading stretcher should have following specifications:

- Size: Length: 1960mm, Width: 560mm, Standing Height: 880mm, Collapsed Height: 340mm ±10mm.
- Load capacity of 200 ± 10 kg.
- Constructed from stainless steel (S/S) pipe (30-32 mm) with foldable legs that strike against the bumper of the ambulance.
- Backrest adjustable up to 40° and leg raise up to 15° for patient comfort.
- Designed for stability at every point, with two protective side bars that should be collapsible.
- Four special wheel castors with plastic tires compound (two fixed & two swivel) for optimal bump absorption. Wheel sizes should be approx. 150 mm with brakes on two wheels, and two roller wheels at the front and two rear wheels approximately 100mm.
- Bedding area should be made of perforated aluminium sheet approximately 2 mm thick.
- Orange or black colour mattress, anatomic, adjustable, and watertight, with a seamless, heat-sealed, antibacterial design for maximum patient comfort and stability.
- Fixation system at the front and rear in the centre with a quick system that should be impact-resistant.
- Two stretcher belts with buckles for securing the patient during transport.

### First Aid Bag

The ambulance should be equipped with a first aid bag made of strong, water-resistant PVC-coated washable red parachute cloth with yellow reflective strips. It includes the following items:

Name of Items	QTY	Name Of Medicine	QTY
Sticking Tape	05	Polyfax ointment	02
Small Scissor	01	Move/ Wintogine(Pain killer)	02





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Cotton Bundle Small	01	LP Zine /Germinal/Brunel	02
Crape Bandage 4" & 6" (5+5)	10	Pyodine Large	01
Cotton Bandage 2 ½" & 4" (5+5)	10	Inj. Dicloran	05
Gauze Piece	01 Box	Inj Avil	05
Thermometer	01	Tab. Panadol	10
Gloves	01 Box	Tab. Aspirin	10
Face Mask	01 Box	Tab. Capoten 25 mg	10
Goggles	02	Tab. Angicid 0.5 mg	10
Emergency Torch	01	Alcoholic Swab	20
Sunny Plast	01 packet	Inj. Ringer Lactate 500ml	01
BP Apparatus (Aneroid)	01	Inj. Dextrose 25 %	05
Stethoscope	01	Branulas 18,20,22,24G (one Each)	04
Cervical Collar (M & L) One Each	02	Local Anesthetic Spray	01

### Delivery Kit: (Quantity 5)

Gamma Sterilized Delivery Kits. Each Kit containing following items:

SR #	ARTICLE	QTY
1	Sterilized Surgical blade No.10 (Single Edge)	1
2	Sterile Cord clamps Plastic, Individually Packed.	2
3	Gauze Pad 12 Ply/Layer 3" x 3"	5
4	Cotton Swab. Approx. 2 gm or more.	5
5	Toilet Soap 50/60 gm.	1
6	Latex Examination Gloves (Pair)	2
7	Transparent Plastic Sheet 3ft x 3ft nominal thickness of 0.2 mm or more	1
8	Polythene Bag 10 Inch x 10 Inch with nominal thickness of 0.2 mm or more	1
9	Mucus Extractor	1

### SYRINGE CUTTER

One syringe cutter.

### HAND SEARCH LIGHT

Rechargeable LED hand search light.

### SPOT LAMP

Spot Lamp with flexible neck for patient examination.

### BACK FLOOD LIGHT

Back search light, adequate internal lighting for handling the patients at night.

### I.V HOOKS

Hooks for intravenous infusion set should be placed.

### FIRE EXTINGUISHERS

6 Kg Dry Chemical Powder type fixed with bracket to the side-wall.

### TRASH BOX

Stainless steel with 6-8 liters capacity, attached to the floor and with plastic removable and washable inner lining.

### ALS MEDICAL EQUIPMENT

### SPINE BOARD WITH HEAD IMMOBILIZER (IMPORTED)



# KHYBER PAKHTUNKHWA HUMAN CAPITAL INVESTMENT PROJECT



The ambulance should be equipped with an imported spine board featuring a head immobilizer, designed for optimal patient immobilization and safety:

- The spine board should be floatable, reducing the risk of contamination during patient transportation.
- It should be constructed from high-density, completely recyclable polyethylene, moulded into a unique, single-piece shell for durability and ease of cleaning.
- The head immobilizer should be included and must ensure the optimum immobilization of traumatized patients.
- Size in mm: L 1840 x W 450mm x H 450. ( $\pm 5$ mm)
- Load capacity of 160 kg.

## **Glucometer with Strips (Strips Pack Size 50) (USA/UK/EU/Japan)**

9. Display: LCD
10. Measuring time: < 4 Seconds or equivalent
11. Measurement range: 0.6-33.3 mmol/L
12. Enzyme system: FAD glucose dehydrogenase (GDH), electrochemical
13. Sample size: 0.6  $\mu$ L.
14. Blood Sample Types: Capillary, venous, arterial, neonatal
15. Battery Type: 1 coin cell (CR2032)
16. Pack of 50 strips should be included.

## **Bleeding Kits in Stainless Steel Tray having following items:**

- |                                    |  |
|------------------------------------|--|
| 22. Stainless Steel Tray           | 33. Gauze Packs large (04)               |
| 23. Stainless Steel Kidney Tray    | 34. Silk 2/0 & 1 size 2 each with needle |
| 24. Saw Cutter (01)                | 35. Tourniquets (04)                     |
| 25. Needle holder (01)             | 36. Inj. Xylocaine (05)                  |
| 26. Artery Forceps (02)            | 37. Inj. Avil (02)                       |
| 27. Toothed Forceps (01)           | 38. Inj. Dicloran (02)                   |
| 28. Tissue Scissor (01)            | 39. Inj. Maxolon (02)                    |
| 29. Sponge Holder (01)             | 40. Inj. Distilled Water (04)            |
| 30. Dressing Scissor (01)          | 41. D / Syringes 5cc & 10cc (05 each)    |
| 31. Catgut 2/0 (05).               | 42. Antiseptic Wipes Box (01)            |
| 32. Crepe Bandages S & L (02 each) |  |

## **Burn Kit**

### **Burn Kit having the following items:**

15. Sofratule 10 packs
16. 10 Water Gel/Burn Gel dressing (10x10 cm)
17. 5 Sterilized Gauze (4x4)
18. 2 Silver Sulfasalazine Creams
19. 2 Xylocaine Gels
20. 2 Burn Lotions
21. 2 Burn sheets
22. 4 Bandages of size 4"
23. 1 angular scissor
24. 2 medical tapes of size 1".
25. A burn set which consists of soft, highly absorbent bandage materials made of polyester shall be supplied to be used in burn incidents.



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26. Burn set shall contain the following equipment.

27. 5 units of burn Sheet.

28. 20 units of burn dressing.

### NEBULIZER (USA/EU/JAPAN)

- Designed for the treatment of the upper and lower respiratory tract, including conditions like colds, asthma, and respiratory diseases.
- Should be easy to disinfect for safe and hygienic use.
- Should be operated using mains power or the rechargeable battery.
- Automatic switch-off: yes
- Batteries: 4 x 1.5 V AA batteries
- Main's connection: 100-240 V~; 50-60 Hz; 0.5 A
- Particle size: < 6.0 µm
- Technology: Vibrating membrane
- Nebulization performance: approx. 0.25 ml/min.

### Airway Management Bag

There should be an airway management bag made of strong, water-resistant PVC-coated washable parachute cloth with reflective strips. It should include the following items:

- Ambo Bag with special valves designed to limit excessive gas flow into the patient's airway, significantly reducing the risk of gastric insufflation by lowering airway pressure.
- Hand-operated manual suction apparatus.
- One portable BP apparatus with a stethoscope.
- Three silicon laryngeal masks in variable sizes with transparent tubes (3 of each size).
- Laryngoscope with four curved blades.
- One professional LED torch.
- Colour-coded airways of assorted sizes (1 set).
- Mouth opener.
- Sterilized disposable gloves (04 pcs).
- Contaminant bags (04 pcs).

### PORTABLE ALUMINIUM O2 CYLINDER (IMPORTED) (CE/EN CERTIFIED)

One portable aluminium oxygen cylinder, approximately 2 litres in capacity, with a regulator included in a carrying bag. Key features should include:

- Lightweight and easy to handle aluminium construction.
- Maintenance-free cylinders specifically designed for ambulances and emergency use.
- Should include regulator, valve, and transportation bag for convenience and ease of use.

## Technical specifications of Supply & Installation of Allied Accessories for Command, Control & Communication Centre

S. No	Name of Goods	Description/Specifications	Qty
1	Video Wall LCD Display Unit (8x3) for C3i Centre	Size: Diagonal Size 55", Bezel 3.5mm, Resolution 1920×1080 (FHD), Brightness/Luminance: 500 cd/m <sup>2</sup> , Display Colour: 8bit (16.7M), MTBF: 40,000h or Higher, Pixel Density: 40dpi, Power Requirement: AC100V ~ AC240V, 50/60 Hz <b>(Screen size: 8x3)</b> with following allied accessories (LED back Bracket = 24 units, Base Bracket = 8 unit)	1



# KHYBER PAKHTUNKHWA HUMAN CAPITAL INVESTMENT PROJECT



2	<b>Video Wall LCD Display Unit (4x3)</b>	Size: Diagonal Size 55", Bezel 3.5mm, Resolution 1920x1080 (FHD), Brightness/Luminance: 500 cd/m <sup>2</sup> , Display Colour: 8bit (16.7M), MTBF: 40,000h or Higher, Pixel Density: 40dpi, Power Requirement: AC100V ~ AC240V, 50/60 Hz (Screen size: 8x3) with following allied accessories (LED back Bracket = 12 units, Base Bracket = 4 unit)	2
3	<b>Video Controller for 8x3 video wall</b>	24 port Input & 24 Port Output Network Video Controller	1
4	<b>Video Controller for 4x3 video wall</b>	12 port Input & 12 Port Output Network Video Controller	2
5	<b>Network Based Surveillance Camera</b>	FHD Network based static camera, PoE supported (Dome/Bullet cameras), 45-60 fps, night vision with weather proof, multi streaming minimum 10 streaming profiles, SD cards, ONVIF supported	2
6	<b>Network Based Surveillance Camera</b>	FHD Network based static camera, PoE supported (Dome/Bullet cameras), 45-60 fps, night vision with weather proof, ONVIF supported	16
7	<b>Network Video Recorder 32 channels</b>	Network Video Recorder (NVR) 320 Mbps, 32 Channel, up to 12MP Resolution for Preview and Playback, 6x4TB storage (support up to 48TB), complete with all accessories (with HDD)	1
8	<b>Laptop (Terminals)</b>	Core i7, 10th Generation, 500GB SSD, 8 GB RAM, 15.6" Screen with Graphic Card	10
9	<b>Network Switch 24 ports</b>	24 Port POE manageable Switch with 2 SFP Ports	6
10	<b>Network Switch 24 Port SFP</b>	24 Port SFP Manageable Switch	1
11	<b>42U Rack</b>	42U Network Rack, 600x1000, Front Glass Door, Locks, Fans, Power Distribution Unit and Patch Panels	1
12	<b>9U rack</b>	9 U Rack with Power Distribution Unit and Patch Panel	4
13	<b>Allied Accessories</b>	Duct Patti, Piping, Networking Cable Cat6, Electric Wire fiber optic cable, ODF boxes, Pigtail, SFP, DB Box and allied accessories (job)	1
14	<b>Customized Software</b>	Centralized Customized Biometric Attendance Software, Visitor Management System, Management information System & Complaint Management System, Centralized as well as District level Inventory management system, Data base for record keeping of all the emergencies per vehicle.	1
15	<b>Biometric Device</b>	Capacity Cards: 4,000 Transactions:100,000 Fingerprint templates: 2,000 Face templates: 1000. Display 800 x 480 Pixel, LCD Capacitive Touch Screen, Communications Ethernet, Serial RS 232/RS 485	3
16	<b>5kw Hybrid Invertor with Batteries</b>	5kw Hybrid Invertor with 100Hx4 batteries & 5KW Tier-1 solar panel and allied accessories with Earthing	8
17	<b>Vehicle Tracking System</b>	Vehicle Tracker with Fleet management Software	80
18	<b>Renovation of Control Room</b>	Renovation of Control Room in all Aspects with Furniture (Job)	1
19	<b>Earthing</b>	Complete Earth job with Copper Accessories (Job)	1
20	<b>100 FEET WIRELESS TOWERS FOR BASE SET</b>	Best Quality Brand New sections (10 X 10), Pipe used in Tower section 1" 12 gauges, Stay wire use for Installation, Tower light with cable and auto censor switch for light ON/OFF, Proper earthing with copper plate/rod/cable.	4
21	<b>HAND HELD WALKIE TALKIE DMR (TDMA).</b>		160
22	<b>MOBILE WIRELESS SET DMR (TDMA)</b>	Frequency Ranges 136 – 174 MHz , Channel Capacity 512 , Operating Voltage 13.6V±15% , Channel Spacing 25/12.5kHz , Antenna Impedance 50Ω , Frequency Stability + 0.5 to +2.0ppm , LCD Display 1.45", 6Line , Built in GPS , Current Drain Standby: <0.5A Receive: <2.0A Transmit min. 45W: <12A , Transmitter: Output R.F. Power 5-45 W	80



# KHYBER PAKHTUNKHWA HUMAN CAPITAL INVESTMENT PROJECT



23	<b>BASE WIRELESS SET DMR (TDMA)</b>	Frequency Ranges 136 – 174 MHz , Channel Capacity 110 - 200 , Operating Voltage 13.6V±15% , Channel Spacing 25/12.5kHz, Antenna Impedance 50Ω , Frequency Stability + 0.5ppm , LCD Display 1.45" , 6Line , Built in GPS , Current Drain Standby: <0.5A Receive: <2.0A Transmit 45W: <12A , Transmitter: Output R.F. Power 5-45 W	80
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# KHYBER PAKHTUNKHWA HUMAN CAPITAL INVESTMENT PROJECT



## 5. EVALUATION CRITERIA & KNOCKOUT CLAUSE:-

1. Valid General Sales Tax Registration as “manufacturer” (Status Active with FBR) with experience not less than five years since its registration.
2. The Bidder shall provide PEC registration Certificate in category minimum C5 or above in ME06. In case of expired certificate, the bidder/s are required to submit proof of renewal of the certificate. This will not apply for new license registration.
3. Minimum 05 Years Market Presence of Company
4. Similar Products Workorder in hand up to 20 million.
5. The firm should have minimum of Five experience of similar nature of fabrication/conversion in Government Organizations (Purchase Orders/Contracts/Work Orders to be provided as evidence)
6. Bidder(s) must provide an Affidavit on judicial stamp paper that bidder is not blacklisted by any Public Sector Organization
7. Annual Audit Statement duly verified of the last 3 years is to be provided.
8. Have successfully completed at least five (02) Contracts of similar nature (fabrication of Ambulances) during the last (05) three years. (Documentary evidence is to be provided in shape of contract Agreement or Supply order).
9. Average annual turnover should be minimum Rs. 800 million in last 3 years.
10. Two-years warranty for parts, labors etc. after sales services shall be free of cost.
11. Bid Validity period of 90 days.
12. Successful vendor shall provide 10% performance guarantee, which will be retained by the procuring agency for one year.



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S. No.	Bidders Eligibility Factor	Mandatory Requirement	Document Required
1.	Participating firm must be well established, fully experienced and registered as a "Manufacturer" with govt. authorities (FBR etc) Experience should not be less than 15 years since its registration.	Mandatory	Mandatory (Registration documents shall be attached as proof)
2.	Valid Income Tax Registration and General Sales tax Registration (Status active with FBR)	Mandatory	Sales Tax Registration and Active Tax Payer list (ATL) in FBR Income Tax and Active Tax Payer list (ATL) in FBR
3.	Registration with KPRA	Mandatory	Copy of KPRA Registration
4.	Company Presence	Minimum (5) Years Market Presence of Company is Mandatory	Attach Past Purchase Orders
5.	Registration with PEC	Fabrication firm's PEC registration is Mandatory. As per Must have minimum number of Graduate Engineers Registered with PEC.	Valid Certificate of PEC Category C4 or above in ME-06, EE02, EE04, EE09, EE11 If applicable
6.	Registration of PSEB	Mandatory	Valid Certificate of PSEB (Pakistan Software Export Board)
7.	Relevant Experience for fabrication of Ambulances	Mandatory requirement. <ul style="list-style-type: none"> <li>• Contracts of similar nature (fabrication of Ambulances).</li> <li>• Contracts of similar nature (fabrication of Ambulances) work orders in respect of quantity</li> </ul>	Copies of Work Order(s) / Purchase Orders / Contracts to be attached.
8.	Relevant Experience for Supply & Installation of Allied Accessories for Command, Control & Communication Centre	Mandatory requirement <ul style="list-style-type: none"> <li>• At least 01 similar assignment</li> <li>• At least 01 similar assignment</li> </ul>	Copies of Work Order(s) / Purchase Orders / Contracts to be attached.
9.	Authorization Letter fabrication of Ambulances	Mandatory Item in Ambulance <ul style="list-style-type: none"> <li>• Suction Apparatus</li> <li>• Patient Monitor</li> <li>• AED</li> <li>• Transport Ventilator</li> </ul>	Authorization Letter from manufacturer / Principal/Authorized Agent.
10.	Authorization for supply of VAN	Mandatory requirement	Authorization Letter from manufacturer / Principal / Authorized Distributor or VAN.
11.	Authorization Letter Supply & Installation of Allied Accessories for Command, Control & Communication Centre	Authorization Letter are mandatory from Manufacturer / Authorized Agent for Item(s) <ul style="list-style-type: none"> <li>• Video Wall LCD Display Unit (8x3) for C3i Centre,</li> <li>• Video Wall LCD Display Unit (4x3),</li> <li>• Network Based Surveillance Camera,</li> <li>• Network Video Recorder 32 channels</li> </ul>	Authorization Letter from manufacturer / Principal/Authorized Agent.
12.	Financial Capacity	PKR. 700 million for the last 03 years.	Tax Return for last 3 years to be attached.





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13.	Production Capacity	<ul style="list-style-type: none"><li>Participating firms must have in-house high-tech production facilities.</li></ul>	Attached relevant documentary proof/ evidence such as audited account report / tax returns etc.  Attach picture of equipment and production facility along with list of machinery and equipment, as proof.
14.	Audit Report	<ul style="list-style-type: none"><li>Annual Audit Statement duly verified of the last 3 years is to be provided.</li></ul>	Attach Audit Report
15.	Non-Blacklisting	Must not be ever black-listed by any Government Organization	Declaration of Non-blacklisting on stamp paper (Rs. 100/-) by the Bidder
16.	Joint Venture	JV is allowed	JV Agreement on 100 Rupees Stamp paper
17.	Warranty	3 Year Warranty & Services	Certificate of Warranty on letter head.
18.	Delivery time compliance	Must agree to serve the Contract within 180 days after the issuance of work order.	Completion time must be clearly specified in the Technical Bid.
19.	Submission of Bidding Document Fee	As required by the procuring agency in the Tender Notice	Receipt of in-time payment of Bidding document fee
20.	Bid Validity	90 Days Bid Validity	Certificate of Bid Validity on letter head.
21.	Successful vendor shall provide 10% performance guarantee, which will be retained by the procuring agency for one year.	Mandatory	Certificate of acknowledgement on letter head.

**NOTE:** It is mandatory for the bidders to meet all the above-mentioned requirements of eligibility. In case of not meeting any single requirement, the Bid shall be declared IN-ELIGIBLE / NON-RESPONSIVE.

### **13. SELECTION PROCESS:**

Single stage one envelopes process will be adopted as per World Bank Procurement Regulation i.e. limited competition.

Contract will be awarded to the lowest evaluated responsive bid after fulfilling all the codal formalities.

### **14. MONITORING AND EVALUATION**

**Performance Monitoring:** Develop a system for Monitoring the performance of ambulance services, including data collection, analysis, and reporting.

**Evaluation Framework:** Establish an evaluation framework for assessing the impact of ambulance services on RMNCH outcomes, such as maternal mortality rates and newborn survival rates.

**Feedback Mechanisms:** Identify mechanisms for collecting feedback from beneficiaries, stakeholders, and staff to inform ongoing improvements and adjustments.

### **15. NOTE**

Firms can quote all the three items i.e. Vehicle, Fabrication and Call centre items, individually or with JV. Firm can quote for individual items i.e. Vehicle/ Fabrication/ Call centre items.