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21 October 2024

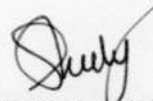
06.06.0000.214.eval.24/Pickup Amb

RE-EVALUATION OF PICKUP AMBULANCE

Reference:

A. Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate letter number 23.01.901.048.06.079.04.09.10.24 Dated 09 October 2024 (Not to all).

1. Please be informed that Bangladesh Army is planning for re-evaluation of **Pickup Ambulance**. In this regard, you are requested to forward technical offer **along with original Brochure/Catalogue, Model Technical Specification 100% updated original Spare Parts Catalogue (Hard/Soft copy) and other information**. Offered models should be compatible with general technical specification attached herewith and to be submitted directly to Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate, Dhaka Cantonment by **12 November 2024** with as intimation to this office. You are also requested to provide enlistment certificate of DGDP along with technical offer. Lack of any information will disqualify the offer.
2. Forwarded for your information and necessary action please.



SHEULY AKTER
Lieutenant Colonel
For Director General

Annex:

- A. Technical Specification of Pickup Ambulance - 11 (Eleven) Pages only.

Distribution:

External:

Action:

(All Concerned Supplier/Firm)

Information:

Army Headquarters, General Staff Branch, Overseas Operations Directorate
Army Headquarters, Quarter Master General Branch, Supply and Transport Directorate
Army Headquarters, Master General of the Ordnance Branch, Ordnance Directorate
Army Headquarters, Master General of the Ordnance Branch, Electrical and Mechanical Engineers Directorate

Internal:

IT Section: Publish in web site.

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GENERAL SPECIFICATIONS: PICKUP AMBULANCE

Serial	Description of General Specifications	Required General Specifications	Remark
1.	Name of the Local Agent & Address	To be mentioned	
2.	Name of the Manufacturer & Address	To be mentioned	
3.	Name of the Principal & Address	To be mentioned	
4.	Nomenclature	Pickup Ambulance	
5.	Make & Model	To be mentioned	
6.	a. Country of Origin	Group-A	
	b. Manufacturing Country	Group-A	
	c. Country of Assembly	Group-A	
7.	Drive	RHD	
8.	Configuration	4x4	
9.	Roof	Hard top	
10.	Dimensions.		
	a. Overall Length	To be mentioned	
	b. Overall Width	To be mentioned	
	c. Overall Height	To be mentioned	
	d. Roof Height from Seat	To be mentioned	
11.	Wheel Base	To be mentioned	
12.	Ground Clearance	Should not be less than 210 mm	
13.	Wheel Track.		
	a. Front	To be mentioned	
	b. Rear	To be mentioned	
14.	Gradient	60% (Minimum)	
15.	Angle of Approach	To be mentioned	
16.	Angle of Departure	To be mentioned	
17.	Fording Depth	500 mm (Minimum)	
18.	Weights.		
	a. Kerb Weight	To be mentioned	
	b. Payload	1000 Kg (Minimum)	
	c. Gross Vehicle Weight (GVW)	To be mentioned	
	d. Power/Weight Ratio (HP/Ton)	To be mentioned	
	e. Towed Load	500 Kg (Minimum)	
19.	Seating Capacity.		
	a. Cabin	2 Seats with seat belt including driver seat to be provided	
	b. Patient Compartment. (1) 1x Attendants seat at head end of stretcher. (2) Folding seats for seating 4 persons in rear which can be converted into flat area for carrying second causality on scoop stretcher or spinal board.	To be provided	
20.	Turning Radius (Maximum)	8.25 Meter (Maximum)	
21.	Engine.		
	a. Type	To be mentioned	
	b. Make & Model	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
	f. No of Cylinder	4 Cylinder (Minimum)	
	g. Bore and Stroke	To be mentioned	
	h. Piston Displacement	To be mentioned	
	i. HP	120 HP (Minimum) (RPM to be mentioned)	

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Serial	Description of General Specifications	Required General Specifications	Remark
	k. Torque	250 N-m (Minimum) RPM to be mentioned	
	l. Engine Test Bench Report	1. Engine Test Bench Report for all engines prepared by manufacturer during production of engine at manufacturing factory must be submitted to the SI/PSI team for each model. 2. If Engine Test Bench Report of all engines can not be submitted, in that case, for other engines of the same model must be certified and confirmed with the engine Test Bench Report (mentioning engine number) by the manufacturer duly signed and stamped.	
	m. Emission Standard	Euro-3/ Equivalent	
	n. Engine Oil Sump Capacity	To be mentioned	
	p. Cooling System	Liquid cooled	
22.	Fuel System.	Details to be mentioned (If EFI)	
	a. Type of Fuel	Diesel	
	b. Fuel Tank Capacity.	Minimum 60 Liters	
	c. Fuel Injection Pump	To be mentioned	
	d. Fuel Consumption per 100 Km	To be mentioned	
	e. Cruising range	500 km (min) with provision for extra Jerrican outside main cargo space (If required)	
	f. Fuel filter Type	To be mentioned	
	g. <u>Maximum Speed.</u>		
	(1) High way	100 Km/Hour (Minimum)	
	(2) Cross Country	To be mentioned	
23.	Transmission.		
	a. Type	To be mentioned	
	b. Make & Model	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
	f. Gear Ratio	To be mentioned	
24.	Clutch.		
	a. Type	To be mentioned	
	b. Model	To be mentioned	
25.	Transfer Case.		
	a. Make & Model	To be mentioned	
	b. Country of Origin	Group-A	
	c. Country of Manufacturer	Group-A	
	d. Country of Assembly	Group-A	
	e. High Gear Ratio	To be mentioned	
	f. Low Gear Ratio	To be mentioned	
26.	Chassis Frame.		
	a. Type	To be mentioned	
	b. Country of Origin	Group-A	
	c. Country of Manufacturer	Group-A	
	d. Country of Assembly	Group-A	
27.	Type of Steering	Power Steering	



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Serial	Description of General Specifications	Required General Specifications	Remark
28.	Front Axle.		
	a. Type	To be mentioned	
	b. Axle Capacity	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
29.	Rear Axle.		
	a. Type	To be mentioned	
	b. Axle Capacity	To be mentioned	
	c. Country of Origin	Group-A	
	d. Country of Manufacturer	Group-A	
	e. Country of Assembly	Group-A	
30.	Suspension Details.		
	a. Front	To be mentioned	
	b. Rear	To be mentioned	
31.	Brake System.		
	a. Service Brake	To be mentioned	
	b. Parking Brake	To be mentioned	
	c. Emergency Brake	To be mentioned	
32.	Tyres.		
	a. Tyre size	To be mentioned	
	b. Tyre Brand	Bridgestone/Dunlop/Goodyear/ Yokohama /Toyo/ Uniroyal/Continental/Michelin/Folda/ Firestone/Armstrong/ AMTEL/Pirelli/ Hankook and Kumho	
	c. Country of Origin	USA, Japan, EU Countries, Russia, Brazil, Indonesia, Malaysia, Philippines Singapore, Thailand and South Korea	
	d. Tyre Pattern	Non-directional (ND) Ground Grip (GG) and Cross country (CC).	
	e. Rim Size	To be mentioned	
	f. Production Year	Not before the year of contract	
33.	Electric System.		
	a. Volt	24 Volt or 12 Volt with converter to convert to 24 volt for communication purpose	
	b. Battery	1 or 2 x 12 Volt; AH to be mentioned	
	c. Alternator	12/24 Volt Ampere to be mentioned	
	d. Starter	12/24 Volt KW to be mentioned	
34.	Noise Suppressor	To be provided	
35.	Doors.		
	a. Driver's Cabin Door	To be mentioned	
	b. Rear Door	Rear double doors with 270 degree opening	
36.	Dimension Cargo Bed Interior.		
	a. Length (Interior)	To be mentioned	
	b. Width (Interior)	To be mentioned	
	c. Height (Interior)	To be mentioned	
37.	Differential lock/limited slip differential	To be provided. Details to be mentioned	
38.	Clutch.		
	a. Type	To be mentioned	



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Serial	Description of General Specifications	Required General Specifications	Remark
39.	Patient Compartment.		
	<p>a. Cabin.</p> <p>(1) Covering conversion-complete interior paneling of the sidewalls, both side of the partition wall between patient cabin and driver cabin, roof (of both patient and driver cabin) & back door panels should made from polymaths Methacrylate-Acrylonitrile Butadiene Styrene (PMMA ABS) Sheets.</p> <p>(2) The complete interior should be edgeless and suitable for easy cleaning/ scientific fumigation/ treatment of disinfectants.</p> <p>(3) Partition wall between patient & driver cabin must have sliding glass window with lock.</p>	Details to be mentioned	
	<p>b. Flooring.</p> <p>(1) The flooring should be made up of minimum 12mm thick marine grade ply, rigidly bolted to the steel base plate of the base vehicle construction</p> <p>(2) The floor should be properly cured to ensure the right strength and finish.</p> <p>(3) The floor must withstand a distributed load of minimum 150kg/m²</p>	Details to be mentioned	
	<p>c. Folding Seats for Patient.</p> <p>(1) A folding seat in the patient cabin, which can also be used as a patient bed.</p> <p>(2) Belt for patient safety to be attached with it.</p>	Details to be mentioned	
	<p>d. Attendant Seats. There should be attendant seats for the attendants on the co-driver side in the patient cabin.</p>	Details to be mentioned	
	<p>e. Internal Storage Compartment.</p> <p>(1) All the internal storage compartments, surfaces and space provisions should be made to accommodate / fix the various medical devices, trauma equipment for transportation and immobilization, medical glassware, medical disposables and consumables, fresh and dirty linens, infusion bottles, drugs, accessories, wastes, documents, records, files etc.</p>	Details to be mentioned	



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Serial	Description of General Specifications	Required General Specifications	Remark
	<p>(2) All storage compartments should be aesthetically and ergonomically well designed.</p> <p>(3) Storage compartments should be divided into various sections according to the varieties of the medical items to be stored in it.</p>		
	<p>f. <u>Electrical.</u></p> <p>(1) There must be adequate internal and external light matching to the requirements of an ambulance for various purposes.</p> <p>(2) There must be standard 220 volt AC with minimum 1000W inverter electrical supply sockets inside the patient compartment for connecting AC operated electrical equipments and 12/24 volt DC sockets for DC operated electrical equipments.</p> <p>(3) There must be emergency light bar cum siren and speaker system on the top at the front.</p> <p>(4) All medical equipments operated by portable battery must have full charging facility from the vehicle.</p>	Details to be mentioned	
	<p>g. <u>Windows.</u></p> <p>(1) One sliding window on each side to be provided</p> <p>(2) One communication window at front to be provided with opening capacity from both drivers and rear cabin</p> <p>(3) The frame as sliding window must be made of 5.0 mm aluminum sections.</p> <p>(4) All rubber items and tinted glass(minimum thickness of 6.0mm) should be of Manufacturer origin and have to be suitable for conditioned cabin</p>		
	<p>h. <u>Rear Door.</u></p> <p>(1) Two wing type door with tinted windows on both door with 270° minimum opening to be provided</p> <p>(2) The doors can be opened from inside and outside cabin. The lock should be automatic locking type from EU/USA/Japan origin</p>		
	<p>j. <u>Air Ventilation.</u> Adequate air flow mechanism to be incorporated in order to maintain proper ventilation and temperature control</p>	Details to be mentioned	



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40.	Air Conditioning System.		
	a. Both the patient compartment as well as the driver cabin should be air conditioned	Details to be mentioned	
	b. The compressor should be engine mounted and engine driven.	Details to be mentioned	
	c. Air Conditioning System must be capable to take load of total patient and have option for temperature control	Details to be mentioned	
	d. Make & Model	To be mentioned	
	e. Country of Origin & Manufacturer	Group-A	
41.	Accessories.		
	a. 01 set x spare wheel complete set with fitting attachment (Should be fitted preferable under rear load body)	To be provided	
	b. 02 x Head lights (Sealed beam type), 04 x Turn signal light (front & Rear), 02 x Stop/Brake lights, 02 x Reverse light, 01 x Cabin light, All gauges and meters in dashboard Fuel gauges, Hazard warning lights etc as required for proper functioning of all system of the vehicle.	To be provided	
	c. 02 x Fog lamp at front for drive	To be provided	
	d. 01x Blackout driving light at front RH, 02x Blackout side light NATO standard at front LH & RH, 02x Blackout combination light NATO std (Side & stop) at rear LH & RH and 01x Blackout convoy light at rear	To be provided (Sample to be approved from IV&EE before supply)	
	e. Fire Extinguisher 1 Kg capacity for A, B C & E type with bracket and chemical filled to be fitted at the side of driver seat	To be provided	
	f. Both Driver and 2 nd seater seats will be adjustable with height and tilting system	To be provided	
	g. Head rest for front seater	To be provided	
	h. Mudguard with mud flap for all wheel	To be provided	
	j. Electrical connection for trailer 12 pin NATO standard	To be provided	
	k. Antenna fixing base for wireless	To be provided	
	l. Fixing socket for wireless set power supply (24 Volt)	To be provided	
	m. Base frame for fixing wireless set (Free size)	To be provided	
	n. Guard for all light	To be provided	
	p. Pintle hook rotating type NATO standard at rear (03 Ton capacity Minimum)	To be provided	
	q. Attaching point for load restraint	To be provided	
	r. Rifle clip inside the cabin for fixing 02x rifle	To be provided	
	s. Inspection lamp complete with Cable (10 meter), Plug & arrangement of socket in the vehicle for use of inspection lamp as manufacturer standard.	To be provided	
	t. 01 set x Floor mat front & rear complete	To be provided	
	u. 02 x Sun visors with fitting brackets	To be provided	



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Serial	Description of General Specifications	Required General Specifications	Remark
	v. 01 x Inside rear view mirror	To be provided	
	w. 02 x Outside rear view mirror with stands/brackets	To be provided	
	x. Radio set complete	To be provided	
	y. Clock at Dash board	To be provided	
	z. Full size both side normal door with normal winding windows	To be provided	
	aa. Tachometer with engine RPM meter and Speedo meter (MKS system) in dashboard	To be provided	
	bb. Roof Mount Cabin Lamp Inside Cabin.	To be provided	
	cc. 02 x Towing hook at front	To be provided	
	dd. Beacon Lamp (Blue/Red)	Slim line LED light bar on roof of vehicle with blue/ red emergency lighting to be fitted	
	ee. Motor Siren with PA facility	Details to be mentioned	
	ff. Air Bag SRS	(1) To be provided (2) Details to be mentioned	
42.	Ambulance Equipment.	Group A Countries	
	a. Mechanical Respirator. (1) Stationary and portable usage with O ₂ cylinder. (2) Adult, child and infant usage facilities. (3) CMV, SIMV, PSV, CPAP operational mode. (4) Pressure and battery alarm. (5) 6-8 hours capacity rechargeable battery.	(1) To be provided (2) Details to be mentioned	
	b. Automatic external defibrillator. (1) External, biphasic current controlled pulse. (2) 5-360 Joules energy selection in manual mode. (3) Adjustable alarm limit. (4) 6 leads derivation/6 channel ECG. (5) Usage with memory card and ECG paper. (6) Ni-Cd battery 6-12 hours monitoring facility. (7) Analysis time 6-12 seconds. (8) Monitory show operational period, ECG curves, heart rate, identified VT/VF and performed defibrillation.	(1) To be provided (2) Details to be mentioned	
	c. Min Transport Monitor. (1) NIB, HR, SPO ₂ , RR, ECG. (2) High and low reading alarm. (3) 6-8 hour capacity rechargeable battery. (4) ECG Printing capacity.	(1) To be provided (2) Details to be mentioned	
	d. Oxygen Resuscitator/ Supply System (Automatic valve type). The facility to be provided for one nos of 6.8M ³ gas capacity (44 L water capacity). High pressure oxygen cylinders	(1) To be provided (2) Details to be mentioned	



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	manufactured as per BIS/ CIS/ JIS certified to be approved by the explosive department of Bangladesh Government. Test pressure 250 bar and filling pressure 150 bar. Oxygen cylinder to be provided (empty).		
	e. Oxygen Flow-meter. (1) The oxygen flow-meter should be fully compatible to the oxygen terminal outlets. These must be direct mounted and operated by oxygen supply inside the ambulance. (2) The flow tube should be calibrated in the range of 0 to 15 liters per minute.	(1) To be provided (2) Details to be mentioned	
	f. "Oxygen resuscitator Box" to be portable detachable and to be fixed with right wall of Ambulance car: (1) To be portable detachable and can be fixed with wall of Ambulance car. (2) Portable oxygen resuscitator set to be given in box that can be stored in the storage box of the Ambulance (3) Other accessories to make the oxygen resuscitator functional operating set to be provided	(1) To be provided (2) Details to be mentioned	
	g. Airways Nasopharyngeal, Oropharyngeal (adult, child and infant sizes)	(1) To be provided (2) Details to be mentioned	
	h. Blood pressure manometer, cuff and stethoscope (Pediatric and adult type).	(1) To be provided (2) Details to be mentioned	
	j. Sucker machine to be vehicle battery operated	(1) To be provided (2) Details to be mentioned	
	k. Pulse Oxymeter (Portable battery operator)	(1) To be provided (2) Details to be mentioned	
	l. Scoop Stretcher. To be provided as per fol: (1) The stretcher should be designed allowing coupling and uncoupling of any of the ends and gently scoop up the patient using the two scoops of the stretcher. (2) The stretcher should be telescopic to accommodate the tallest patient and should be folded for compact storage. (3) The frame should be made of high quality anodized aluminum and blades should be made up of extruded aluminum. (4) The scooping blades should be fixed with aluminum frame by interposition of alloy fusions.	(1) To be provided (2) Details to be mentioned	



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Serial	Description of General Specifications	Required General Specifications	Remark
	m. Roll-in Patient Stretcher cum Trolley. They should be rail on floor for fitting sub-stretcher.	(1) To be provided (2) Details to be mentioned	
	n. Wheel Chair	(1) To be provided (2) Details to be mentioned	
	p. Medicine box	(1) To be provided (2) Details to be mentioned	
	q. Universal Head Immobilizer. The universal head immobilizer must ensure optimum head immobilization to trauma patients.	(1) To be provided (2) Details to be mentioned	
	r. Splint various size with Splint multipurpose.	(1) To be provided (2) Details to be mentioned	
	s. Pneumatic Splints	(1) To be provided (2) Details to be mentioned	
	t. Spine Board. The immobilizer must have integrated universal belts for fixation thereby allowing transportation of patients in critical conditions during long and uncomfortable journeys as well	(1) To be provided (2) Details to be mentioned	
	u. First aid kit bag	To be provided	
	v. Emergency Kit box	To be provided	
43.	Following Ambulance Rescue Equipment to be Provided.		
	a. Hammer, one four pound with 15 inch handle. b. One axe. c. Wrecking bar. d. Crowbar with pinch point	To be provided	
44.	Following Tools to be Provided with Each Vehicle.		
	a. 01x Hydraulic Jack Manufacturer standard assembly with handle mentioning capacity	To be provided	
	b. 01x Wheel wrench with handle	To be provided	
	c. 01 x Adjustable wrench 200 mm	To be provided	
	d. 01 x Pliers	To be provided	
	e. 01 x Screw driver (\pm) with handle	To be provided	
	f. 02 x Double ended spanner	To be provided	
	g. 02x Stopper wheel	To be provided	
	h. Grease gun with replaceable tip	To be provided	
	j. Tyre pressure gauge	To be provided	
	k. 01 x Tool bag for above tools	To be provided	
45.	Petrol Oil Lubricant (POL) Information. The following information must be submitted with the offer:		
	a. Grade of fuel used in Vehicle	To be mentioned	
	b. Type of Engine Oil used in Vehicle	To be mentioned	
	c. Type of gear Oil (Equivalent grade) used in vehicle	To be mentioned	
	d. Grade of fuel to be used in Bangladesh	The vehicle must be suitable for used with fuel available in Bangladesh	
46.	Colour	As per indentor requirements	



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Serial	Description of General Specifications	Required General Specifications	Remark
47.	Publications.		
	a. Driver's/Owner's manual in English for Vehicle (Complete Book type)	To be provided as per requirement of EME Directorate	
	b. Updated workshop/repair manual (for vehicle) in English (Complete Book type.	To be provided as per requirement of EME Directorate	
	c. Spare Parts Catalogue in English Book type.	To be provided as per requirement of EME Directorate	
	d. Spare Parts Price Catalogue in English Book type.	To be provided as per requirement of EME Directorate	
	e. Other Operator's manuals Catalogue (Book Type) for additional equipment like Radio, Navigational Equipment etc.	To be provided as per requirement of EME Directorate	
48.	Fast and slow moving spare parts	List to be provided as per requirement of EME Directorate	
49.	Analyzer, measuring & testing/fault finding and diagnostic set	To be provided as per requirement of EME Directorate	
50.	Special Service Tools (SST)	List to be provided as per requirement of EME Directorate	
51.	Special Service Materials (SSM)	List to be provided as per requirement of EME Directorate	
52.	Training Requirements.		
	a. User Training	To be provided (As per User/ Sponsor Directorate)	
	b. Operation, Repair and Maintenance Training	To be provided (As per requirement of EME Directorate)	
	c. Equipment Management Training	To be provided (As per requirement of Ordnance Directorate)	
53.	Terms and Conditions.		
	a. Original offer (with proper signing at every pages) along with original brochure/ catalogue with proper marking and signed name designation, telephone No, Fax No., E-mail address must be submitted	Must be confirmed as per requirement	
	b. Offered technical specifications must conform to the specifications mentioned in the submitted brochure/ catalogue; otherwise offer will not be accepted. Fax/photocopy offer/ catalogue/ brochure & catalogue without marking/signing will not be considered	Must be confirmed as per requirement	
	c. Authorization certificate (Original) in favour of principal by the original vehicle manufacturer to be submitted along with offer	Must be confirmed as per requirement	
	d. Authorization certificate (Original) in favour of local agent by the principal to be submitted along with offer	Must be confirmed as per requirement	
	e. The Manufacturer, Principal and Local Agent must give a guarantee certificate for the following :		
	(1) Same/similar model of vehicle/ equipment will be available for next 10 years (Confirmation certificate to be provided by manufacturer)	Must be confirmed as per requirement	



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Serial	Description of General Specifications	Required General Specifications	Remark
	(2) Spares will be available for at least 15 years (Confirmation certificate to be provided by manufacturer)	Must be confirmed as per requirement	
	(3) After sales service should be available with local agent and will be provided as and when required for indefinite period (at free of charge up to guarantee period) and then onwards with payment (Confirmation certificate to be provided by local agent).	Must be confirmed as per requirement	
54.	Other Technical Requirement for Military Vehicle.		
	a. The vehicle must be "Fit for Radio" (FFR) communication with FR suppression/ Shielding in complete electrical system including alternator	To be provided	
	b. The vehicle must be 24 Volt output socket in rear passenger compartment for radio (FFR) sets	To be provided	
	c. Tyres for all vehicle must be of same size and grip pattern for logistics ease	To be provided	
	d. Suspension must allow for travel with full load over broken and undulating ground	To be provided	
	e. Crew Safety. The frames of the body must be strong enough to provide Roll Over protection of the passenger	To be provided	
55.	Unit price and likely increase due to price escalation in percentage during next 5 years (if available)	To be mentioned	
56.	Provision of repair, maintenance and after sale service support from local workshop	Name of workshop and address to be mentioned	
57.	Time of Free Service	1 Year to be confirmed	
58.	Warranty/Guaranty	1 Year to be confirmed	
59.	Production Date	Manufactured not before the year of contract	

