CIAL/FS/PR/2023-06/Corrigendum/02

29.01.2023

Name of Work: **DESIGN, SUPPLY, TESTING, COMMISSIONING AND HANDING OVER OF EMERGENCY RESPONSE VEHICLE AT COCHIN INTERNATIONAL AIRPORT**

CORRIGENDUM

SN No	Page No	Clause No	Tender Heading	Tender Description	Clarification / Deviation
1	36 of 119	5. f	CHASSIS	The chassis cab shall come with original chassis manufacturer's air condition. The brake system of the truck shall be ABS assisted braking system.	Air conditioning is required in Crew Cabin also.
2	36 of 119	6.	AXLES	The axles shall use torque increasing planetary hub ends for reducing the size of the differential housings and improving the ground clearance for extensive off-road operations.	"Design and construction of axles shall be of original chassis manufacturer make."
3	36 of 119	6.	AXLES	The tenderer shall give the details of the clients using the proposed axle system in Aircraft Rescue and Fire Fighting vehicles. Failure to furnish the above details shall be liable to disqualification.	"The tenderer shall give the details of the clients using the proposed axle system/ similar system/ in Fire-fighting vehicles which are having commercial truck chassis. Failure to furnish the above details shall be liable to disqualification."
4	36 of 119	7.	SUSPENSION	The suspension should preferably consist of a high- performance coil spring system or leaf spring over bar axle system.	"The suspension should preferably consist of a high-performance coil spring system or leaf spring over bar axle system or leaf sprig system with shock absorber and stabilizer mechanism. The design and construction of suspension system shall be as per the chassis manufacturer"

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5	37 of 119	8.5	ENGINE	The engine selected shall have authorized maintenance support in India. The supplier shall ensure all maintenance issues requiring external support are attended within a week time without any delay. Special tools and spare parts if any required for any major maintenance activity shall be arranged by the supplier and the complaint should be rectified within two weeks' time. In case where delay from the contractor for arranging the tools and manpower cause (delay in repair/ fault rectification of) serious break down delay of vehicle, CIAL reserve the right to impose a penalty of up to INR 10,000 for each day of delay beyond the above stipulated period and this will be recovered from the contract performance guarantee.	"In case where delay from the contractor for arranging the tools and manpower cause (delay in repair/ fault rectification of) serious break down delay of vehicle, CIAL reserve the right to impose a penalty of up to INR 5,000 for each week of delay beyond the above stipulated period and this will be recovered from the contract performance guarantee."
6	37 of 119	10.	ENGINE & GEARBOX HEATER	The engine and transmission shall be provided with a suitably rated heater working in 220V/230 V AC. It must give full engine power performance immediately after start-up. The heaters shall keep the cooling water and engine oil in the drive engine and the oil in the gearbox pre- heated. The power supply for heating elements shall be given by a quick disconnect plug/socket. There shall be a provision for external 220V/230 V AC connections by means of a quick disconnect socket/automatic jettisoning.	No need of ENGINE & GEARBOX HEATER
7	38 of 119	11	ENGINE COOLING SYSTEM	A thermostatically controlled pusher fan shall be fitted for providing fresh air to radiator by means of an air duct	"The design, construction and operation of fan shall be as per the Chassis Manufacturer suitable for the purpose of intent."
8	38 of 119	12 a	FUEL SYSTEM	Fuel tank shall be of non- corrosive type, and well protected from damage, exhaust heat and ground fires. The capacity of the fuel tank shall not be less than 300 Ltrs.	As per chassis manufacturer standard.

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9	38 of 119	12 b	FUEL SYSTEM	Transparent fuel filter – Separ filter to be provided in addition to the standard diesel filter for easy cleaning. There shall be pre-stage filter kept in the tank opening to prevent the diesel tank from contamination	"The fuel filter shall be as per chassis manufacturer standard."
10	38 of 119	12 c	FUEL SYSTEM	The fuel tank must be located so that it can be removed easily as and when required for cleaning purpose. A drain valve shall be located beneath the fuel tank to clear of the residue at the bottom of the tank if any.	Fuel tank design and construction and location of installation shall be as per manufacturer standard.
11	39 of 119	14 a	STEERING	The chassis shall be equipped with power assisted steering (EPS). Manual steering shall be possible in the event of power assistance failure in such a way that the vehicle can be stopped safely. A dual circuit hydraulic system shall be provided.	The construction and design of steering system shall be as per chassis manufacturer standard.
12	39 of 119	14 b	STEERING	The power steering shall have adequate capacity to allow turning the tyres to stop with the vehicle stationary on a dry level, paved surface and fully loaded, with not more than 7 Kg pull on wheel	The subject clause is hereby rendered null and void, and its provisions are no longer in effect.
13	39 of 119	14 c	STEERING	The wall-to-wall turning diameter of the fully laden vehicle shall be less than three times the vehicle overall length	As per chassis manufacturer standard.
14	39 of 119	14 c	STEERING	Dual steering pump circuit system shall be provided.	The subject clause is hereby rendered null and void, and its provisions are no longer in effect.
15	40 of 119	16 c	BRAKES	The service brakes shall stop the full loaded vehicle within 48.8 M from 64.4 KMPH on dry hard appropriately level road way, free from loose materials, and sufficiently wide roadway without any part of vehicle leaving roadway.	As per chassis manufacturer standard.

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16	40 of 119	16 f	BRAKES	The parking brake shall be capable of holding the fully loaded vehicle on a 20% gradient without air or hydraulic assistance.	"According to the chassis manufacturer or the parking brake shall be capable of holding the fully loaded vehicle on a 18% gradient without air or hydraulic assistance."
17	40 of 119	17 a	BRAKE – AIR SYSTEM	The brake system shall be dual circuit with ABS (Antilocking Brake System) and shall meet FPA/ICAO requirements. In case of a major drive shaft failure, the vehicle could be stopped safely.	"The brake system shall be dual circuit with ABS (Antilocking Brake System). In case of a major drive shaft failure, the vehicle could be stopped safely." The design and construction of ABS shall be as per chassis manufacturer standards.
18	41 of 119	17 j	BRAKE – AIR SYSTEM	The performance of the service brake system shall be as follows: i. 32.2 KMPH – 0 in less than 12.2 Mtr ii. 64.4 KMPH – 0 in less than 48.8 Mtr iii. Holding capacity - minimum 50% slope	As per chassis manufacturer standard.
19	42 of 119	18 i	DRIVERS AND CREW CABIN	The following warning indicators shall be provided as a minimum: • High Coolant temperature, warning light and alarm • Low pressure brake-air supply, warning light and alarm • Low coolant, warning light and alarm • Low fuel level • Low water and foam warning alarm • Stop engine • Check engine • Turn signals – left & right • Hazard, 4-way flasher • Head light high beam • Park brake engaged • High idle engaged • Battery on	"High idle engaged" warning indicator is not applicable.

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20	44 of 119	20 c	WATER TANK	The tank shall be provided with a manhole with adequate opening for easy ingress or egress with hinged lid for leaning/maintenance purpose. The manhole must have minimum 450 mm internal diameter.	"The tank shall be provided with adequate opening for easy ingress or egress with hinged lid for leaning/maintenance purpose."
21	44 of 119	20 h	WATER TANK	Sufficient number of anodes shall be provided in the water tank for preventing corrosion	The subject clause is hereby rendered null and void, and its provisions are no longer in effect.
22	44 of 119	21 c	FOAM COMPOUND TANK	The tank shall be provided with a manhole similar to water tank with adequate opening for easy ingress or egress with hinged lid for cleaning/maintenance purpose. Means shall be provided for automatic venting of the foam compound tank when foam is being produced or tank is filled.	"The tank shall be provided with adequate opening for easy ingress or egress with hinged lid for cleaning/maintenance purpose. Means shall be provided for automatic venting of the foam compound tank when foam is being produced or tank is filled."
23	45 of 119	24 e	REAR COMPARTMENT	The rear compartment shall have a min length of not less than 5000 mm, width of minimum not less than 2400 mm and over all height of the vehicle shall not be more than 3500mm from the ground. The height of the rear compartment for storage of mobile equipment carrier should not be less than 1900 mm, allowing firemen to go in and out while loading and unloading the equipment carriers, without bending.	"The vehicle height is amended from 3500mm to 3800mm."
24	46 of 119	28	PAINTING	The vehicle shall be painted in 'fluorescent green' colour.	"The vehicle shall be painted in fluorescent green' /Yellowish-Green".

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25	35 of 119	a	CHASSIS	The chassis selected shall be a 4X2 of reputed chassis manufacturers such as Volvo, Mercedes, IVECO and Scania.	"The chassis selected shall be a 4X2 or 6X2 or 6X4 of reputed chassis manufacturers such as Volvo, Mercedes, IVECO and Scania."
26	5, 86 of 119	14 b	Items to be loaded on the vehicle.	• Night Vision Binoculars -2Nos • Chain Saw (Heavy Duty) – 1Nos	Technical specifications for the items mentioned in the tender document can be found on pages 65 and 66, respectively.

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