

Annex B: AMBULANCE VEHICLE TECHNICAL SPECIFICATION

Tender Reference	ADRA-ADE-SHYS-100-2026	Technical Specification Offer by Vendor :	
Project	SYHS+		
Supplier Name			
Item No.	Technical Specification Covering all SPEC	Supplier Offer	Remarks
GENERAL STANDARDS			
1	Specify Manufacturer Name.:		
2	Specify Model Number of The Offered Equipment. Number:		
3	Model Year 2025 (Brand New) :		
4	Specify Country of Origin of The Offered Equipment :		
5	Safety Standard & Certificate :		
6	General Specification		
7	Design		
8	4x4 Diesel Basic Life Support (BLS) Ambulance Vehicle		
9	Compact , heavy duty and high quality		
10	Vehicle Type : 4x4 diesel utility vehicle suitable for Basic Life Support ambulance conversion		
11	Fuel Type : Diesel		
12	Engine : 6-cylinder diesel engine, displacement approx. 4.0–4.2 CC, minimum 95 kW power output, minimum 280 Nm torque		
13	Transmission : 6-speed manual or automatic transmission.		
14	Emission Standard : Minimum Euro 4 or latest available export standard		
15	Drive System : Part-time 4WD with in-cabin selector (2H/4H/4L)		
16	Electrical System : 12V system with heavy-duty alternator suitable for ambulance electrical loads		
17	High Altitude Compensation : Factory fitted		
18	Brakes : Front: Disc, Rear: Disc : Front: Disc, Rear: Disc		
19	Suspension : Front: Coil spring; Rear: Heavy-duty leaf spring : Front: Coil spring; Rear: Heavy-duty leaf spring		
20	Tyres: 7.50 R16 or equivalent all-terrain tyres (including spare wheel)		
21	Cabin Seating : Minimum 3 seats (driver + 2) prior to conversion		
22	Number of Doors : Minimum 3 doors		
23	Fuel Tank Capacity : Dual fuel tanks, total capacity approx. 180 liters		
24	Dimensions (L × W × H): Approx. 5070 × 1770 × 2115 mm (or equivalent)		
25	Ground Clearance: Minimum 230 mm		
26	Wheelbase : Approx. 2980 mm		
27	Curb Weight : Approx. 2100–2200 kg		
28	Gross Vehicle Weight (GVW) : Minimum 3200 kg		
29	Payload Capacity : Minimum 1000 kg after ambulance conversion		
30	SAFETY AND SECURITY SPECIFICATIONS		
31	Airbags : Driver and front passenger airbags, With (D+P, electrical)		
32	Seat Belts : 3-point ELR seat belts for all occupied seats, 3 pcs (ELR 3-2-3)		
33	Anti-lock brake system (ABS) : Anti-lock braking system (With new feature !)		
34	Electronic Stability Program (ESP)		

Annex B: AMBULANCE VEHICLE TECHNICAL SPECIFICATION

Tender Reference	ADRA-ADE-SHYS-100-2026	Technical Specification Offer by Vendor :	
Project	SYHS+		
Supplier Name			
Item No.	Technical Specification Covering all SPEC	Supplier Offer	Remarks
35	Electronic Brakeforce Distribution (EBD)		
36	High-Mounted Stop Lamp Standard		
37	Reverse Camera : Rear view camera with in-cabin display		
38	Central Locking : Remote central door locking		
39	Vehicle security/anti-theft system (Immobilizer) : Factory-fitted anti-theft immobilizer		
40	Rear door : opening angle: minimum 180°		
41	Equipped with heavy-duty mechanical retainers to prevent accidental closure during loading/unloading		
42	Sliding side access door		
43	Anti-slip entrance step		
44	Heavy-duty vertical assist handle		
45	Full partition between driver cabin and patient compartment		
46	Sliding communication window		
47	Patient compartment shall be insulated to reduce heat and noise using locally available approved insulation materials. All doors and joints shall be properly sealed to reduce dust, odor, and air leakage. Flooring shall be made of durable anti-slip medical vinyl fixed over strong plywood base, easy to clean and suitable for ambulance use.		
48	TECHNICAL SPECIFICATIONS		
49	Limited slip differential With (rear axle)		
50	Wireless door locking With new feature		
51	With Power steering		
52	With Transfer box protector		
53	Severe usage package-Vehicle shall be equipped with factory-fitted Severe Usage Package including heavy-duty cooling system, heavy-duty suspension, reinforced springs, high-capacity alternator, dust protection system, underbody protection and tropical specification suitable for operation in Yemen.		
54	Body Rust and Fuel tank protection		
55	Engine coolant LLC 50%		
56	Underbody Protection Anti-corrosion treatment for chassis and fuel tanks		
57	Spare Wheel Carrier Rear or underbody mounted spare wheel		
58	EXTERIOR SPECIFICATIONS		
59	Headlamp 2 Halogen		
60	Windshield glass Green Laminated		
61	Windshield wiper		
62	Intermittent wiper With time adjustment		
63	Windshield washer Nozzle: black, 2 pcs		
64	Outside rear view mirror Door (D+P)		
65	Mud guards With (Front + Rear)		

Annex B: AMBULANCE VEHICLE TECHNICAL SPECIFICATION

Tender Reference	ADRA-ADE-SHYS-100-2026	Technical Specification Offer by Vendor :	
Project	SYHS+		
Supplier Name			
Item No.	Technical Specification Covering all SPEC	Supplier Offer	Remarks
66	AMBULANCE EQUIPMENT ADVANCE OPTION		
67	Main Stretcher with automatic folding legs and side support rails made of anodized aluminum. Nonmagnetic-Minimum load capacity: 180 kg		
68	Vinyl contour mattress of flame retardant and easy to clean having 10 cm thickness in Orange Color with 03 support belts for quick fixing		
69	Aluminum Split locking device to be installed on the floor underneath stretcher so it does not move during transport.		
70	Loading Ramp - Rear loading ramp made from anti-slip aluminum construction - Fixed or foldable design acceptable - Suitable for safe loading/unloading of stretcher and patient		
71	Auxiliary Power System - Additional deep-cycle auxiliary battery - Intelligent battery isolator system - Automatic charging management		
72	Inverter - Pure sine wave inverter - Minimum capacity: 1500 Watts - Input: 12V DC - Output: 220V AC		
73	IV Holder to be attached to the stretcher, foldable type		
74	Heavy-duty foldable secondary stretchers: 2 Nos fixed securely underneath squad bench. Orange Color. Load bearing capacity 150 Kgs		
75	Polythene Spinal board with 3x straps with rapid unhooking buckle and head immobiliser. Load capacity: 150 kgs appx.		
76	Full length medical cabinet (White color) with compartments having Blue color Velcrow straps, 03 in each compartment for holding items securely. Polycarbonate made sliding doors. Cabinet made of compact light rust free & fire proof material (Intecel-PVC-Excel). Control panel having: 3 pin outlet plug socket 12 V, switches for lights, suction unit and connection to oxygen cylinders. Cabinet to be fixed behind drivers' side. (ISO certified standard)		
77	Wiring - Concealed behind panels - Run inside protective conduits - Properly labeled and secured		
78	Full length squad bench made of Aluminum powder coated material with storage area underneath + back rest support for seating 3 persons with 3 seat belts (3-point type).(Vinyl type: Navy Blue color)		
79	Wipe clean interior paneling including partition wall with slide window made of GRP coated white color material. All interior boards and rear door panels replaced with Aluminum powder coated panels		
80	LED type lights fixed on ceiling in passenger compartment: 04 Nos (Size requirement minimum 05 inches)		

Annex B: AMBULANCE VEHICLE TECHNICAL SPECIFICATION

Tender Reference	ADRA-ADE-SHYS-100-2026	Technical Specification Offer by Vendor :	
Project	SYHS+		
Supplier Name			
Item No.	Technical Specification Covering all SPEC	Supplier Offer	Remarks
81	Roof-mounted emergency warning system consisting of: One LED light bar mounted at the front roof of the ambulance with RED or RED/BLUE lenses. Integrated electronic siren system with amplifier, speaker, microphone, and selectable tones (Wail / Yelp / Hi-Lo). Additional high-visibility LED warning lights integrated within the same emergency warning system and mounted at the rear upper section and front grille of the ambulance to ensure 360° visibility during emergency operations. All lights shall be synchronized and clearly visible during daytime and nighttime operation. The system shall be fully controlled from the driver's compartment. 360° warning visibility		
82	Exterior Graphics - White exterior finish - Reflective 3M markings - AMBULANCE marking reversed on front hood - Institutional logos and emergency markings		
83	Roof-mounted movable IV and blood bottle holder with minimum 4 hooks.		
84	Independent patient compartment HVAC system including air-condition blower unit, rear evaporator and roof-mounted waterproof ventilation fan suitable for operation up to 50°C.		
85	Full length Grab rail made of stainless steel 01 No with load bearing capacity of 150 Kgs. fixed to the ceiling in patient Compartment		
86	Stainless steel Grab bar with load bearing capacity of 150 Kgs fixed on rear door entry: 02 Nos.		
87	Central Oxygen pipeline system with quick disconnect couplings fitted with 2 Nos F size oxygen cylinders each minimum 10 liters and 1 No: D size. portable oxygen therapy inhaler kit with regulator, socket and flow valve (CE Certified)		
88	Opaque film of high-quality frosted Glass in 2/3 portion to be fixed on rear and sides, however should be fully frosted behind the side of Medical cabinet		
89	Fire Extinguisher 1kg x 2 Nos properly secured.		
90	Wall mounted Aneroid sphygmomanometer made of unbreakable material, shockproof thermoplastic rubber resistant		
91	Patient lamp 10 W, flexible type: 1 No (Map light) to be on the cabinet on the patient side		
92	Medical waste Bin: 1 No to be fixed in patient compartment. Yellow color		
93	Protection Systems - Circuit breakers - Fuse protection - Proper grounding system		

Annex B: AMBULANCE VEHICLE TECHNICAL SPECIFICATION

Tender Reference	ADRA-ADE-SHYS-100-2026	Technical Specification Offer by Vendor :	
Project	SYHS+		
Supplier Name			
Item No.	Technical Specification Covering all SPEC	Supplier Offer	Remarks
94	Hand sanitizer holder - Medical waste container - Sharps container holder - All mounted items shall be securely fixed and crash resistant		
95	Outside working lamp (55 w) to be fixed at the rear roof (ISO certified standard)		
96	Warranty & Maintenance:		
97	Spare Parts and Service - Availability of spare parts - Local after-sales service capability - Technical manuals and wiring diagrams		
98	. Documentation and Delivery Requirements Supplier shall provide: - Operator manuals - Maintenance manuals - Electrical diagrams - Compliance certificates - Warranty certificates - Vehicle identification documents		
99	Equipment offered must be covered by at least a 2 years full warranty starting the date of installation and Final Acceptance		
100	3-year free maintenance, or 100,000 KM including, Service manual Operation manual (Hardcopy & Softcopy)		
101	Stage Inspection - Technical committee inspection for insulation works, electrical installation, and oxygen pipeline installation before closure and panel installation		