

Specification of Vehicle Mounted Hydraulic Rescue Ladder (30 m)

S.N	Parameters	Technical Specification	Remark
1	Type	Hydraulic Rescue Ladder Mounted on Vehicle	
	Vehicle		
2	Engine	Minimum 6 Cylinder Turbocharged Diesel Engine	
3	Chasis	Minimum 2x4	
4	Cab	Minimum 2 Crew Member.	
5	Turning Radius	Maximum 10 m	
	Ladder		
6	Control	Hydraulic	
7	Reach	Minimum 30 m @ Maximum Elevation	
8	Working Angle Range	Minimum (-10° to + 70°)	
9	Basket Capacity	Minimum 3 people/250 kg	
10	Slewing range	360 degree	
	Pump		
11	Rated Capacity	Minimum 50 ltr/s @1.5 Mpa	
12	Drive	PTO	
13	Foam Rationing	3% to 6%	
	Fire Monitor		
14	Type	Roof Monitor	
15	Capacity	Minimum 40 ltr/s	
16	Control	Manual	
	Features		
17	Lighting Warning	Light Warning with Siren	
18	Control	Manual Unwinding – Electrical Rewinding	
	First Responders Hose Reel		
19	Winding	Electrical Winding; Manual Unwinding	
20	Hose	Minimum 1" x 50m	
21	Nozzle	Jet / Fog Pistol	
22	Accessories	2 units 2" x 20m Fire Hose	
		2 units 2.5" x 20m Fire Hose	
		1 unit Suction Strainer	
		2 units 4" Suction Hose	
		2 units Branch Pipes	
		2 units Union Wrench	
23	Vehicle Accessories	Standard Tool Kit (Comprising of 30 Ton Hydraulic Jack, Lever, Wheel Brush and Standard Wrench Sets)	
24	After sales service	Assurance of repair and maintenance with trained man power, testing equipment and specific tools for repair and maintenance for minimum 5 years.	
		Spare parts must be readily available whenever in demand for repair and maintenance.	
		Operating training for operator and maintenance training for mechanics should be provided.	

25	Color	Standard.	
26	Manufacture Year	2020 Onwards.	
27	Workshop Repair Manual	Soft and hard copy -1/1 set.	
28	Spare Parts Catalogue	Soft and hard copy -1/1 set.	
29	Date of Manufacture of Battery	Must be less than 6 months at the time of delivery inspection.	
30	Date of Manufacture of Tyre	Must be less than 1 year at the time of delivery inspection.	
31	Warranty	Minimum 2 years/ provided by OEM whichever is greater.	

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Technical Specification of Compact Fire Engine

S.N	Parameters	Specification	Remark
1	Engine Model	Turbo charged, Diesel Engine	
	Displacement	Minimum 2500 cc	
	Engine Power	Minimum 125 HP @ rated speed	
	Engine Torque	Minimum 350 Nm @ rated speed	
2	Emission Standard	Must meet Nepal Vehicle Mass Emission Standard.	
3	Drive Side	Right hand Drive.	
4	Drive	Minimum 4 x 2	
5	Transmission	Synchromesh, Minimum 5 forward with 1 reverse	
6	Steering	Power Steering	
7	Tyre and size	Standard with 1 spare	
8	Brake System	Hydro/Pnematic brake , Hand operated Parking brake	
9	Fuel Tank Capacity	Minimum 90 Liters	
10	Turning radius	Maximum 6.5 meters	
11	Ground Clearance	Minimum 180 mm	
12	Seating Capacity	2 + 2	
13	Fire Fighting Capabilites	Water Tank : Minimum 750 Liters	
		Foam Tank : Minimum 25 Liters	
		Pump : Centrifugal with minimum 1500 LPM	
		Pump Driver : PTO	
		Standard Water pump monitoring System	
		Hose Reel : Minimum 50 m, 2 inch, Withstanding Pressure of Minimum 40 bar, electric winding	
		Extension Ladder : Minimum 24 feet	
14	Other Fire Fighting Accessories	Fire fighting Gear : Minimum 2 sets (Coat, Pants, Boots, Mask, Helmets) Minimum 3 layer fabric for Coat and Pants	
		Selfcontain Breathing Apparatus : 2 Nos.	
15	Fire Tools (At least)	Rechargeable search light x 2 , Vehicle mounted fire alarm siren with Standard Blinker, Traffic Vest x 6, Traffic Cone x 6, Fire proof standard rope : minimum 20 meters, ABC fire extinguisher 25 kg (fitted in the Trolley)	
		Suction Wrench : 4 pieces Fire Axe Large : 2 pieces Spade : 2 pieces Pickaxe : 1 pieces Crowbar : 1 pieces Sledgehammer 5 kg : 2 pieces Firehook : 4 pieces	
16	Vehicle Accessories	Standard Tool Kit (Comprising of 10 Ton Hydraulic Jack, Lever, Wheel Brush and Few Standard Wrench Sets)	
17	After sales service	Must have authorised service center in Nepal with trained man power, testing equipment and specific tools for repair and maintenance to cover warranty period.	
		Spare parts must be readily available whenever in demand for repair and maintenance.	
		Orientation training for driver, Operator and maintenance training for mechanics should be provided.	

18	Color	Standard	
19	Manufacture Year	2020 Onwards.	
20	Workshop Repair Manual	Soft and hard copy -1/1 set	
21	Spare Parts Catalogue	Soft and hard copy -1/1 set	
22	Date of Manufacture of Battery	Must be less than 6 months at the time of delivery inspection	
23	Date of Manufacture of Tyre	Must be less than 1 year at the time of delivery Inspection	
24	Warranty	Minimum 2 years/ provided by OEM whichever is greater	

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