

Technical Specification of Refrigeration Van for Vaccine Transfer

SN	Parameters	Technical Specification	Remarks
1	General	An Insulated container body and a refrigeration unit mounted on the suitable vehicle which shall have the capacity to maintain required temperature range for the transportation of vaccine.	
2	Body Structure	The body shall comprises of outer panel of MS or equivalent of suitable thickness and inner panel of Food grade SS of suitable thickness coated on the suitable base material. The insulation material should be of PUF (Poly Urethane Foam) of required thickness for roof and floor panel. Proper Lightening should be provided inside the cabin and thermal insulated container. No fluorescent tube should be used for lightening propose. The temperature range should maintain minimum 2 to 8 Degree C with any point with full load or no load vaccine. Inside volume should be minimum 7 Cu m	
3	Refrigeration Unit	The Refrigeration unit should installed on the body above the cabin of the vehicle and gives a range of temperatures. The unit should be powered by self-propelled pickup engine or auxiliary engine. It should have suitable sized compressor, evaporator and control switches along with voltage stabilizer. Should have Temperature display unit inside the cabin.	
4	Engine	Should have water cooled Diesel engine with direct injection, turbo charged system	
	Displacement	Minimum 2100 cc	
	Power	Minimum 55 Kw@ rated rpm	
	Torque	Minimum 200 Nm @ rated rpm	
5	Emission Standard	Must meet the standard prevailing norms of Government of Nepal.	
6	Transmission	Gears: Minimum with minimum 5 forward + 1 reverse	
7	Steering	Power	
8	Ground Clearance	Minimum 200mm	
9	Payload	Minimum 900 kg	
10	Fuel Tank Capacity	Minimum 45 liters	
11	Tyre	Standard with minimum 1 tyre spare in the vehicle	
12	Seating capacity	Driver plus minimum one	
13	Color	Green (Nepali Army standard)	
14	Standard tool kit	Standard Tool kit such as lifting jack, Wheel spanner, Screw driver, Fog light fitted on body etc. should be provide with the vehicle. Should also provide Extra Temperature display with sensors	
15	Manual	User Manual (Hard Copy - 1 set) Maintenance Manual (Soft and Hard Copy-1/1 set)	
16	Year of Manufacture	Should be 2021 onwards	
17	Date of Manufacture of tyre	Must be less than 1 year at the time of delivery inspection	
18	Date of Manufacture of	Must be less than 6 months at the time of delivery inspection	
19	Servicing	Minimum 5 times free servicing after delivery	
		Servicing Centers must be available in Nepal	
20	Warranty	Minimum 2 years/provided by OEM whichever is greater	