

	SPECIFICATION REQUIREMENT		TYPE OF SPECIFICATION (Mandatory , Variable)	POINTS	SPECIFICATION OFFERED BY SUPPLIER (NB: Responses like: yes, meets, comply etc. are not accepted)
		Total points Vehicle + refrigeration system (variable criteria)		60	
I	REFRIGERATED TRUCK				
1	Make		mandatory		
2	Model		mandatory		
3	Country of origin		mandatory		
4	Year of manufacture	2018 or latest	mandatory		
5	Engine manufacturer code and type		mandatory		
6	steering wheel position		mandatory		
7	Engine power	minimum 130 h.p.	mandatory		
8	Maximum travelling speed	minimum 90 km	mandatory		
9	Type of fuel	Diesel (Gasoline preferred)	mandatory		
10	Fuel consumption	17-22 liters per 100 km	mandatory		
11	Engine emission	EURO 2 -EURO 3	mandatory		
12	Fuel tank volume	minimum 90 L	mandatory		
13	Seats	2+1	mandatory		
14	Transmission	4x2	mandatory		
15	Gearbox	Manual	mandatory		
16	Number of gears	minimum 5	mandatory		
17	Tire		mandatory		
17.1	Width	Min 225mm			
17.2	Height	Min 70mm			
17.3	Diameter	Min R18			
18	Ground clearance	minimum 180mm	mandatory		
19	Load capacity	Minimum 2800 kg	mandatory		
20	Safety	Anti-lock braking system (optional)	variable	7	
21	GPS	The vehicle shall have a GPS monitoring system	variable	6	
22	Heating	Cabin shall be heated during the winter season	mandatory		
23	Air condition	Cabin shall be cooled during the summer season (optional)	variable	5	
24	Documents requirements	Vehicle documents shall be sufficient for the registration at the traffic police	mandatory		
25	Warranty period: The refrigerated vehicle (vehicle + refrigerated unit) to be covered with warranty in the event of any component failure arising from defective design, materials or workmanship for a period of 1 year or 25,000km which ever comes first from the time the refrigerated vehicle is put into operation.	1 (one) year or 25 000 km, whichever comes first	mandatory		
25.1	Extended warranty	1 (one) year or 25 000 km, whichever comes first	variable	6	
26	Service and parts availability	Provide a solution to meet the requirement for service and spare parts availability on the territory in Uzbekistan by demonstrating the availability of a network in Uzbekistan for the vehicle and refrigeration unit with contact details, or, commitment to offer the maintenance and spare parts services and warranties for the vehicle and refrigeration unit.	mandatory		
27	Manuals	Manuals: User instructions, service manuals, brochures, safety instructions and related documents should be offered in Russian (and preferably in English as well), for the vehicle and refrigeration system	mandatory		
28	Training in Uzbekistan on all components for proper use of vehicle	Supplier must design and conduct "cascade training" (train-the-trainers) on the proper use of the refrigeration unit to a selected number of individuals in Russian and/or Uzbek languages, and provide user's instructions manual.	mandatory		
II	REFRIGERATION SYSTEM				
II.A.	REFRIGERATED BODY				
1.00	Refrigerated body- insulation and dimensions				
1.01	Refrigerated body fitted onto cab chassis, internal gross volume of refrigerated body must be with a range between 17 - 28m3 Please provide Make _____ Model _____ and Country of origin _____		mandatory		
1.02	Body Structure	The body should be insulated to 0.4W/m2/°C (ATP heavily insulated specification), or better. The wall (front, side walls), floor, roof and door thickness to be specified by supplier.	mandatory		
1.02.1		For use in ambient temperatures of +50°C & -20 °C and maintain the internal temperature of the refrigerated body within +2°C to +8°C with full load of vaccines.	mandatory		
1.02.2		Body structure to be rigid and capable of withstanding vibrations and shocks from rough roads while keeping the load fully secured when the vehicle is not fully loaded. Please describe how the load will be secured during transportation in rough roads	variable	5	

1.02.3		All walls and roof panels (internal and external), sub-frames, main-frames and chassis must be anti-corrosive treated.	mandatory		
1.02.4		The external surface of the body must be of a highly reflective finish (e.g. white) or more heat-reflective finish if available.	mandatory		
2.00	Refrigerated Body -Materials				
2.01		Refrigerant: CFC- and HCFC-free to comply with the requirements of the most recent Montreal Protocol. The casing and/or the compressor body of each refrigeration unit must carry a permanent label clearly identifying the refrigerant used, and in letters not less than 10 mm high.	Mandatory		
2.02		Thermal insulation foaming agents: CFC- and HCFC-free and complying with the limitations and deadlines set by the Montreal Protocol on the elimination of ozone-depleting chemicals.	Mandatory		
2.03		Other restricted materials: The product and its constituent components, excluding batteries, must not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated biphenyl ethers (PBDE).	Mandatory		
3.00	Refrigerated Body Interior				
3.01		Interior to have LED lighting for loading operated by a micro-switch on the loading doors.	Variable	3	
3.02		Reinforced non-slip level flooring with no obstructions, such as wheel arches for example.	Variable	3	
3.03		Refrigerated body to have four drains with U bend or rubber fishtail for release of water – one in each corner of the body.	Variable	3	
4.00	Refrigerated Body Door				
4.01		Box body type with two insulated doors insulated to 0.4W/m ² /°C (ATP heavily insulated specification) or better at the rear for full width opening with at least three hinges per door. Hinges and closing mechanism must be of a robust design.	Mandatory		
4.02		There must be a mechanism from the inside to disconnect the outside lock so that exit must be possible from the inside of the refrigerated compartment.	Variable	4	
4.03		Mechanism required latching the door in open position, when swung open by 270 degrees against the side panels of the vehicle.	Mandatory		
4.04		Cold strip curtain fitted behind the doors.	Mandatory		
4.05		Foldable steps to be provided to rear doors	Variable	3	
II.B.	REFRIGERATION UNIT				
5.00	Performance				
5.01		For use in ambient temperatures of +50°C & -20 °C and internal temperature of +2°C to +8°C, heat extraction capacity to be at least 2.25 times the heat flowing through the insulation. Please indicate additionally Make _____ Model _____ Country of origin _____ of offered refrigeration unit and attach its brochure and specifications	Mandatory		
5.02		For use in cold zones (freezing ambient temperature -20oC in Uzbekistan The temperature-controlled compartment needs to be maintained within +2°C to +8°C . Therefore, a heating capacity is required to provide low temperature protection	Mandatory		
5.03		Refrigerant: CFC- and HCFC-free	Mandatory		
6.00	Power requirement				
6.01		In addition to the primary power source, For when the loaded vehicle is parked close to a source of mains electricity. Provision shall be made to power the refrigeration unit from mains supply through an extension cable of at least 20 metres.	Mandatory		
6.02		Auto defrost of the evaporator to be available	Mandatory		
7.00	Temperature monitoring and control				

7.01		<p>Temperature monitoring system with a minimum of two probes. Readout of minimum and maximum temperatures in the body visible to the driver with an audible alarm for temperature excursions less than +2oC and greater than +8oC (+/- 0.5o C.) Temperature sampling to include measurement at least every 15 minutes.</p> <p>Please indicate the following: Make _____ Model _____ Sensor type (wired or wireless) _____ of the offered system and attach product brochure and specifications NB: Remote temperature monitoring devices (cloud based) will not be accepted</p>	Variable	8	
7.02		Temperatures to be electronically recorded and downloadable	Mandatory		
7.03		Temperature controller, programmable by a specialist technician, that allows both auto and manual control of temperature and defrost status inside the body.	Variable	3	
7.04		At least two sensors to be fitted, one below the cooling unit (warmest returning air), the other located close to where the vaccine load will be closest to the cold air exit. Please indicate the type of sensor (wireless or wired)	Variable	4	

Prepared by:

Reviewed by: Nargiza Fuzailova
Immunization Officer



Approved by: Afshin Parsi
Deputy Representative



In consultation with: Anton Shegay
Vehicle Specialist consultant

Endorsed by: Sufang Guo
Chief of Section



02 December 2019

Instructions

Refrigerated vehicle for transportation of vaccines from intermediate stores to service delivery in Uzbekistan

Note: Bidders are requested to follow the instructions and provide complete information of their product and relevant documents accordingly.

Specifications: The technical specifications refer to the technical aspects of the required refrigerated vehicle. These specifications have been divided into two (i.e. Vehicle specifications and Refrigeration System specifications) and stated in a table format. (See Technical Answering Sheet (TAS) Truck)

Specifications are classified as mandatory or variable:

Mandatory: Proposals must meet all mandatory specifications to qualify to the second stage of the evaluation process. Noncompliance with any of the mandatory specifications will lead to disqualification

Variable: Variable specifications will be evaluated based on the degree to which the proposal meets or exceeds the specifications in accordance with the predefined scoring system. Non-compliance with variable specifications will not lead to automatic disqualification, rather to lower scores, which may eventually lead to disqualification of proposals that do not pass the overall minimum score. To qualify to the second stage of the evaluation process, the overall minimum passing score is 42 out of 60.

Bidder's offer: Bidders shall provide complete information as a minimum for the product offered in the Technical Answering Sheet. For each of the SPECIFICATION REQUIREMENT, supplier must provide complete specification of the offer in the corresponding box in bidder's offer column. Responses like: yes, meets, comply etc. are not accepted.

List, quantity and part number of each spare part should be provided in the Technical Answering Sheet and quoted in Commercial Answering Sheet.

Bidders shall provide detailed information of the different components in the technical answering sheet (Vehicle engine, cooling unit, temperature monitoring device etc) of the offered refrigerated vehicle including make, model, year of production, country of origin etc

Documents: Supporting Documents, User instructions, service manuals, brochures and related documents for the vehicle, refrigeration system, temperature monitoring device etc should be offered in Russian and preferably in English as well

In case more than one product is offered separate Technical Answering Sheets need to be completed, saved under different names and submitted.

The Technical Answering Sheet must be submitted both in a PDF document (filled in/signed and scanned) and in a excel electronic file

Failure to complete/submit the technical answering sheet may result in invalidation of the proposal.

Technical Evaluation Criteria - Refrigerated vehicle 1Ton

Evaluation Criteria		Score
Mandatory	Pass/Fail	
Variable	Excellent	100% of score
	Very good	80% of score
	Good	70% of score
	Fair	50% of score
	Bad	20% of Score
	Does not meet	Zero