



Family Welfare Division

Specification of Ice Lined Refrigerator (ILR)

S.N.	Specification	Bidders Remarks
	Manufacturers	
	Brand	
	Type/ Model	
	Country of origin	
1	Description of function	
1.1	Ice lined refrigerators are used to store temperature sensitive vaccines/medicines.	
2	Operational requirements	
2.1	Only one vaccine storage compartment	
2.2	To maintain the temperatures of +2 °C to 8°C on minimum 8 hours electricity per day	
3	System Configuration	
3.1	Single compartment with voltage stabilizer as specified in 6.3	
4	Technical Specification	
4.1	Net storage capacity, minimum 50 liters with shelves/basket in place	
4.2	Construction: <ul style="list-style-type: none"> • Corrosion resistance: internal and external cabinet, lid and frame protected against corrosion. Bidders to specify the materials used for construction of internal and external cabinet. • CFC free insulation • Door with lock and handle • Integrated digital temperatures display LCD/LED-01 (For displaying temperature inside the system and shall operate either from electrically or solar power). 	
4.3	Refrigerant: The refrigerator shall utilize CFC (Chlorofluorocarbon) free	
4.4	Hold over time: The refrigerator shall maintain +2°C to +8°C for minimum 48 hours during power cuts at the ambient temperature +43°C	
4.6	Compressor: <ul style="list-style-type: none"> • Sealed heavy duty type • Starts and operates on electricity supply from 220 to 260 volts. 	
4.7	Control Panels: The thermostat thermometer and other visual displays like on off switch. Power indicator must be positioned	
4.8	Temperature Record History: Data loggers records minimum 30 days' temperature reading.	
5	Accessories, spares and consumables:	
5.1	<ul style="list-style-type: none"> • Start Relay-1 • Electronic Control Card / Thermostat - 1 	

	<ul style="list-style-type: none"> • Capacitor - 1 • Fuse - 1 	
6	Operating environment	
6.1	The product offered shall be designed to be stored and to operate normally under Nepal power supply, climate, temperature (+5°C to +45° C), low and high humidity conditions.	
6.2	Unit power supply 220-240V Ac, 50 Hz fitted with appropriate plug. The power cable must be minimum 3 meters long.	
6.3	Voltage stabilizer: Voltage stabilizer unit to fit the refrigerator shall be included. stabilizer to have the capacity of minimum 1KVA, normally operating input voltage of 110-270 V.	
7	Standard and safety requirements	
7.1	WHO PQS E003 Certified product .	
8	User training	
8.1	Must be provided on site user training including how to use and maintain the equipment.	
9	Warranty	
9.1	Comprehensive warranty for 2 years after installation.	
10	Maintenance service during warranty period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required	
11	Documentation	
11.1	User manual in English	
11.2	Service (Technical /Maintenance) manual in English	

