

ANNEX 1: SCHEDULE OF REQUIREMENTS

Item No.	Brief Description of Goods	Quantity	Specifications
1	CO ₂ trans-critical Condensing unit	1	<p>i. Self-contained unit in a painted steel enclosure (See Figure 1)</p> <p>ii. Management of one BLDC compressor (See Figure 2)</p> <ul style="list-style-type: none"> - DC compressor - Driver of MT compressor + inverter with modulation 25% to 100% - 220 volts single phase 50/60 Hz - Complete with equalization bypass and check valves <p>iii. Gas coolers with EC fans</p> <p>iv. Two (2) HPV valves for 120 bars</p> <p>v. Liquid dryer</p> <p>vi. Liquid receiver certified for 80 bars complete with NRPV valve</p> <p>vii. Electronic control System, complete with</p> <ul style="list-style-type: none"> - Compressor equalization - Star-up phase and envelope control operation - Oil recovery system with Speed boost and Evaporator washing - Serial communication with evaporator, and floating suction

Item No.	Brief Description of Goods	Quantity	Specifications
			<p>setpoint of compressor</p> <ul style="list-style-type: none"> - Electronic synchronization between CDU and evaporator, driver of CDU and evaporator connected via field bus <p>vii. Capacity of the CDU's training unit</p> <ul style="list-style-type: none"> - Performance at +32 C°; evap -10 C° Qo (W) 2.500 - Sound level dB(A) lower than 40
2	CO ₂ evaporator certified for R-744 use, and a continuous operational pressure up to 60 Bar, supplied with (not installed):	1	<ul style="list-style-type: none"> - Electronic control valve compatible with driver and monitoring (to monitor. Control and program remotely if required) - Pressures radiometric transducer
3	Centralized Remote monitoring and control system	1	<ul style="list-style-type: none"> - Complete with licenses, monitor, hardware - Compatible with Electronic control System as described on item 1, vii). - See Figure 3
4	On-site installing, commissioning and training	1	<ul style="list-style-type: none"> - Equipment installation included - 5-day on-site training upon commissioning by technicians certified by the Supplier. - Full Telemetry license included

Item No.	Brief Description of Goods	Quantity	Specifications
			<ul style="list-style-type: none"> - 1 year online technical and troubleshooting support

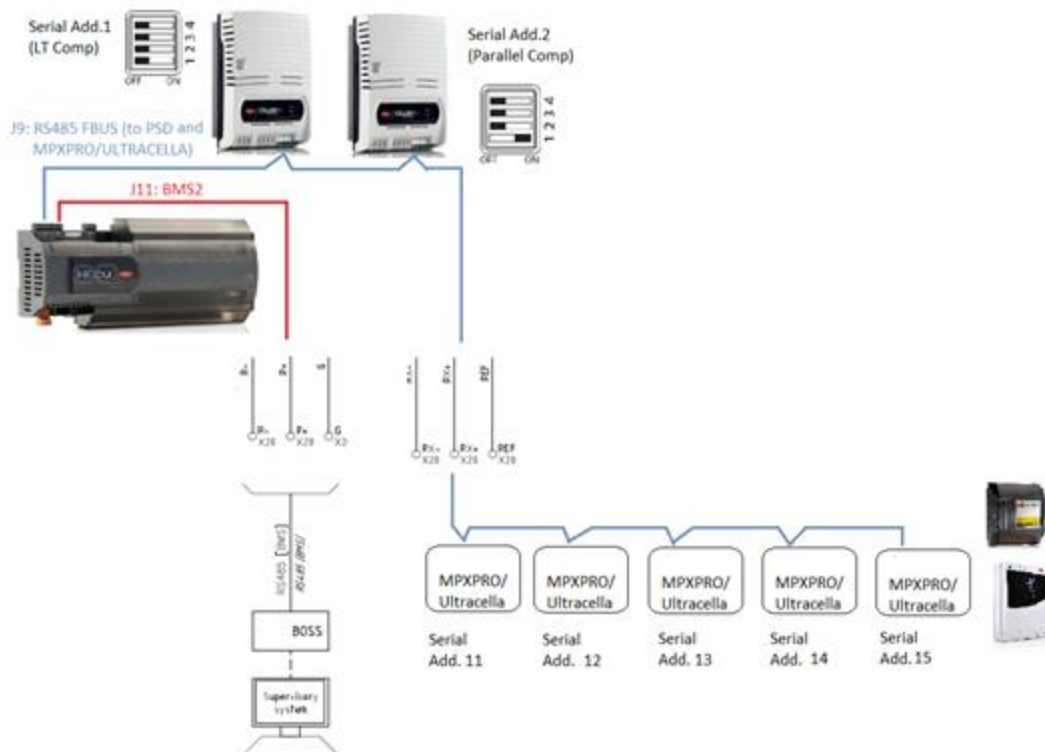
Figure 1: Self-contained unit in a painted steel enclosure



Figure 2: Management of one BLDC compressor



Figure 3: Reference centralized Remote monitoring and control system



Delivery Requirements

Delivery Requirements	
Delivery date and time	Bidder shall deliver the goods 12 weeks after Contract signature.
Delivery Terms (INCOTERMS 2020)	<input checked="" type="checkbox"/> CIF, Port of Port of Spain, Trinidad and Tobago
Customs clearance (must be linked to INCOTERM)	<input checked="" type="checkbox"/> CIF, Port of Port of Spain, Trinidad and Tobago (Goods to be cleared by UNDP)
Exact Address(es) of Delivery Location(s)	Consignee address: Resident Representative United Nations Development Programme 3 A Chancery Lane Port of Spain, Trinidad and Tobago
Distribution of shipping documents (if using freight forwarder)	Shipping Documents (BL and Commercial Invoice) are to be submitted to UNDP immediately upon shipment of goods
Packing Requirements	Not applicable
Delivery Schedule	<input checked="" type="checkbox"/> Required
Training on Operations and Maintenance	On-site installing, commissioning, and training
Warranty Period	Minimum 1 year

After-sales service and local service support requirements	<p><input checked="" type="checkbox"/> Warranty on Parts for minimum period of 12 months. The vendor of the equipment shall give warranty on the equipment sold (hardware / software license) of 12 months from the date of arrival to destination of the equipment, the vendor is required to include a copy of the WARRANTY that the OEM of the equipment has agreed with the vendor (the document must indicate the details of the company to which is granted the OEM WARRANTY. Copies of this information shall be submitted as part of the offer.</p> <p><input checked="" type="checkbox"/> After sales. the supplier must show agreement that it is equipped and properly trained to supply after sales help desk support and technical assistance for critical components, indicating a maximum estimated response time of 48hours for queries and 2 weeks for spare parts. Copies of this information shall be submitted as part of the offer.</p> <p><input checked="" type="checkbox"/> COMMISSIONING & TRAINING. the supplier must have written documentation detailing commissioning procedures to be followed for installation and if documentation is needed for the supplier/OEM for approval of warranty. The supplier will also provide virtual training activities on installation and operation procedures and safety requirements to be observed. This training will be done via Zoom and will be facilitated by the National Ozone Unit of Trinidad & Tobago over a period of 2-3 days. Copies of this information shall be before the submittal of the purchase order</p>
Preferred Mode of Transport	SEA