

E-5
Aug
2022

**PROCUREMENT OF GOODS
UNDER
NATIONAL SHOPPING PROCEDURES**

FOR

**Supply and Installation and testing of Refrigeration Machinery
For Processing Unit, Cold Storage Pre Cooling Rooms Blast
Freezer and Pack House**

OF

**Ancestral Farmer Producer Company Ltd. Indapur,
Dist. Pune**

UNDER

Hon. Balasaheb Thackeray Agribusiness Rural Transformation (SMART) Project

TENDER NOTICE

Hon. Balasaheb Thackeray Agri-business & Rural Transformation Project (SMART)

Govt. of Maharashtra is implementing World Bank assisted Hon. Balasaheb Thackeray Agribusiness And Rural Transformation (SMART) Project for developing Agriculture Commodity value chains. Ancestral Farmer Producer Company Ltd. Indapur, Dist. Pune is one of the beneficiaries under the project and inviting bids for the following goods.

Name of Goods	Supply , Installation and Testing Of refrigeration Machinery For Processing Unit, Cold Storage Pre Cooling Rooms Blast Freezer and Pack House
Tender Fee Amount in Rs.	1180/-
EMD	In the form of Bid Security Declaration
Date of issue of Request for Quotation	From 6/4/2023 To 20/4/2023 up to 5:00 PM
Pre. Bid meeting Date , Time & Address	11/4/2023 at 11:30 AM
Last Date & Time for submission of bid	21/4 /2023 up to 11:00 AM
Opening of technical bid	21/4 /2023 At 12:30 PM

Bid document is available at the following office address and also on project website <https://www.smart-mh.org>. For further any updates / notices shall be published on project website only.

President

Ancestral Farmer Producer Company Ltd.

G No 119, Upper Floor Shop No.1, Baramati Naka, Chaitanya Mega Market, Indapur, Pune.

Email ID- bonganeanand@gmail.com

Mob. No. 9324344370

INVITATION FOR QUOTATIONS
Supply , Installation and Teting Of refrigeartion Machinery For Processing Unit, Cold Storage Pre Cooling Rooms Blast Freezer and Pack House

Date: 5/4/2023

RFQ No.: SMART/ancestral/Goods/10/2022-23

To

Dear Sirs,

Sub: Invitation For Quotations for Supply and Installation of **Supply , Installation and Teting Of refrigeartion Machinery For Processing Unit, Cold Storage Pre Cooling Rooms Blast Freezer and Pack House**

Dear Sirs,

- 1) Government of Maharashtra is implementing World Bank assisted Hon. Balasaheb Thackeray Agribusiness And Rural Transformation (SMART) Project for development of Value Chain of Various Commodities in the State.
- 2) The SMART Project is being implemented by various Project Implementation Units. *PIU Agriculture* is one of the implementing unit of SMART Project. *Ancestral Farmer Producer Company Ltd.* Indapur, Dist. Pune is one of the beneficiary of *PIU Agriculture* under the SMART project.
- 3) *Ancestral Farmer Producer Company Ltd.* Indapur, Dist. Pune (hereinafter referred to as Purchaser) is inviting quotation for the following supply and installation of goods under the SMART Project.
- 4) You are invited to submit your most competitive quotation for the following goods

NO.	Brief Description Of the Good& Specifications	Qty	Unit
A	Electromechanical Work		
B	PART – II - REFRIGERATION SYSTEM - PRECOOLING ROOM, COLD ROOMS, DEEP FREEZING COLD ROOMS, BLAST FREEZER AND RIPENING CHAMBERS AND HVAC SYSTEM FOR PROCESSING ROOM		
	SCOPE OF WORK The work includes designing, engineering, providing, installing, testing and commissioning of the refrigeration and air conditioning system covering the equipment / materials / services covered in the Technical specification, BOQ and the drawings. The erection, testing and commissioning will include lifting of equipment placement and alignment in position, interconnecting piping, controls etc. The system shall be pressure tested and evacuated as per standard practice before charging the refrigerant gas. The plant shall be run on load for 3 days for satisfactory performance.		

		All tools and tackles / welding machines, rods and gases etc. required for fabrication, erection, testing and commissioning etc. shall be arranged by the contractor at his own cost.		
B1	AIR COOLED CONDENSING UNITS			
		Totally built up Condensing units with MCB connector contactor assembly and in built drier filter will be preferred Compressor : Bitzer / Emerson / Danfoss (Condensing unit has to be from original compressor manufacturing company only. No Condensing unit assembler built unit will be acceptable.) Condenser : Air Cooled as per company standard. compressor Type : hermatically sealed - Scroll Or Reciprocating - unless otherwise specified		
C	REFRIGERATION MACHINERY FOR PRE COOLING ROOMS			
		Standby -zero		
C.1		Condensing Unit with Cooling capacity of 25.0 KW and above at (0) deg C room temp and at Condensing temp of 50 deg C. Condensing unit with inbuilt contactor connector and MCB Panel including inbuilt drier filter with adjustable HP LP Switch Assembly only - Refrigerant R 404 Approved Makes: Carrier / Bluestar / Panasonic	4	Set
C.2		Evaporator unit with 25.0 KW and above at -5 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Approved Make: Carrier / Bluestar / Panasonic	4	Set
C.3		DANFOSS / DIXELL make Refrigeration Controllers	4	Set
D	REFRIGERATION MACHINERY FOR COLD STORAGES			
		Standby -zero		
DA.1		Condensing Unit with Cooling capacity of 7.2 KW and above at (0) deg C room temp and at Condensing temp of 50 deg C. condensing unit with inbuilt contactor connector and MCB Panel including inbuilt drier filter with adjustable HP LP Switch Assembly only - Refrigerant R 404 / R134A Approved Makes: Carrier / Bluestar / Panasonic	4	Set
DA.2		Evaporator unit with 7.2 KW and above at -5 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Approved Make: Carrier / Bluestar / Panasonic	4	Set
D.A3		DANFOSS / DIXELL make Refrigeration Controllers	4	Set
DB.1		Condensing Unit with Cooling capacity of 3.0 KW and above at (0) deg C room temp and at Condensing temp of 50 deg C. condensing unit with inbuilt contactor connector and MCB Panel including inbuilt drier filter with adjustable HP LP Switch Assembly only - Refrigerant R 404 / R134A Approved Makes: Carrier / Bluestar / Panasonic	2	Set
DB.2		Evaporator unit with 3.0 KW and above at -5 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Approved Make: Carrier / Bluestar / Panasonic	2	Set
DB.3		DANFOSS / DIXELL make Refrigeration Controllers	2	Set
E	REFRIGERATION MACHINERY FOR MINUS TEMP COLD ROOM			
		Standby -One [one working and one stand by]		

E.1		Low temperature Condensing Unit with Cooling capacity of 6.0 KW and above at (-18) deg C at Condensing temp of 50 deg C condensing unit with inbuilt contactor connector and MCB Panel including inbuilt drier filter with adjustable HP LP Switch Assembly only- Refrigerant R 404A Approved Makes: Carrier / Bluestar / Panasonic / Bluecold	4	Set
E.2		Evaporator unit with 6.0 KW and above at -25 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Unit should include Coil heater, Drain heater and Tray heater Approved Makes: Carrier / Bluestar / Panasonic / Bluecold	4	Set
E.3		DANFOSS / DIXELL make Refrigeration Controllers	4	Set
F	REFRIGERATION MACHINERY FOR BLAST FREEZER			
F.1		Low temperature Condensing Unit with Cooling capacity of 17.0 KW and above at Evaporating temp of (-40) deg C at Condensing temp of 50 deg C Condensing unit 20.2Y Bitzer Compressor or above completely built up with all necessary mechanical / electro mechanical components and safety equipments Approved Makes: Carrier / Bluestar / Bluecold - but with Semi hermetic Bitzer compressor only Refrigerant - R 404A	1	Set
F.2		Equivalent Evaporator unit with expansion valve [in built not necessary] Unit should include Coil heater, Drain heater and Tray heater Approved Make: Carrier / Bluestar / Bluecold / Panasonic	1	Set
F.3		Controls and Instrument as follows: (a) Thermostatic expansion valves [if not in built] DANFOSS/ SPORLAN / Eqvt approved Make for Blast Freezing Ref Machine (b) Digital temperature indicator cum controller (0 to 50 deg. C range) for pre - Cooling, Cold Store and Ante - room. (c) Liquid line solenoid valves DANFOSS / MANIKS / SPORLAN / eqvt approved make for pre - cooling, Cold Store and Deep freezing Cold Rooms	1	Set
G	Electrical work for Refrigeration System			
		Electrical control panel cubicle type, dust and vermin proof copper bus bars and suitable for 415 Volts, 3 phase, 50 C/s A.C. supply and incorporating the following: a) Incoming MCCB Rating as required. b) Earth leakage current ELR and suitable ELCB c) MCBs and starters for condensing units, air handling unit, ACUs in cold stores, ante room d) MCBs for control circuit e) MCBs as spare f) MCBs for capacitors The Distribution panel shall have provision for interlocking of various equipment as per standard practice. ARRANGEMENT SHOULD BE ENOUGH FOR HAVING RATED INCOMER MCB AND OUTGOING MCBS FOR 16 REF UNITS	1	Lot
H	AIR CONDITIONING MACHINES FOR PACK HOUSE			
		Standby -zero		
H.1		Supply of 8.5 TR Ductable AC [make: Hitachi / Blue Star / Voltas]	2	Nos

I	AIR CONDITIONING MACHINES FOR PROCESSING UNIT			
		Standby -zero		
I.1		Ssupply of 11.5 TR Ductable AC [make: Hitachi / Blue Star / Voltas]	5	Nos
B)	INSTALLATION OF REF MACHINES			
B1)	INSTALLATION OF REF MACHINES PRE COOLING ROOM			
1	Precooler Room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 15 KW MT to 32 KW MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	40	RMT
2	Precooler Room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.	80	RMT
3	Precooler Room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	40	RMT
4	Precooler Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	4	Nos
5	Precooler Room	Supply of Epoxy Coated M S Base Frame for Installing One Over the other Evaporator units in Precooler Rooms	2	Set
6	Precooler Room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	20	RMT
7	Precooler Room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	80	KGS
8	Precooler Room	Supply of Vapour proof Bucket type Lighting fitting, Protection IP-65, Model Magnum1 - 2x18W FTL, Havell Make, with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	6	Nos
9	Precooler Room	Installation, Testing & Commissioning of Outdoor Condensing Unit and indoor unit with necessary supports and copper piping of Any Make upto 7.5 HP Capacity , Medium /Low Temperature .	4	Nos
10	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	2	Nos
B2)	BOQ - INSTALLATION OF REF MACHINES - Cold Room			
1	Chiller Room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor	100	RMT

		Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.		
2	Chiller Room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.	220	RMT
3	Chiller Room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	120	RMT
4	Chiller Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	6	Nos
5	Chiller Room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	60	RMT
6	Chiller Room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	48	KGS
7	Chiller Room	Supply of Vapour proof Bucket type Lighting fitting, Protection IP-65, Model Magnum1 - 2x18W FTL, Havell Make, with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	9	Nos
8	Chiller Room	Installation, Testing & Commissioning of Outdoor Condensing Unit and indoor unit with necessary supports and copper piping of Any Make upto 7.5 HP Capacity , Medium /Low Temperature .	6	Nos
9	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	3	Nos
B3)	BOQ - INSTALLATION OF REF MACHINES - Cold Room (Minus)			
1	Freezer Room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	40	RMT
2	Freezer Room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold	120	RMT

		Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.		
3	Freezer Room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	40	RMT
4	Freezer Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	4	Nos
5	Freezer Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	4	Nos
6	Freezer Room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	20	RMT
7	Freezer Room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	40	KGS
8	Freezer Room	Supply of Vapour proof Bucket type Lighting fitting, Protection IP-65, Model Magnum1 - 2x18W FTL, Havell Make, with Polycarbonate Diffuser for Positive Temperature Chiller Room	4	Nos
9	Freezer Room	Installation, Testing & Commissioning of Outdoor Condensing Unit and indoor unit with necessary supports and copper piping of Any Make upto 7 HP Capacity , Medium /Low Temperature .	4	Nos
10	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	2	Nos
B4)	<i>BOQ - INSTALLATION OF REF MACHINES - Blast Freezer</i>			
1	Blast Freezer room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	10	RMT
2	Blast Freezer room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.	40	RMT
3	Blast Freezer room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water	10	RMT

		freezing inside pipe as per Specifications for Cold Rooms.		
4	Blast Freezer room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 4Y or 12.2Y Bitzer Compressor for All Make ; Having Installation Height above 1.8 M from Ground Level.	1	Nos
5	Blast Freezer room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	1	Nos
6	Blast Freezer room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	10	RMT
7	Blast Freezer room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	30	KGS
8	Blast Freezer room	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room	1	Nos
9	Blast Freezer room	Installation,Testing & Commissioning of Blast Freezing Unit with 20.2Y Bitzer Compressor Equivalent capacity of Indoor unit along with Expansion Valve	1	Nos
10	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	1	Nos
B5)	BOQ - INSTALLATION OF DUCTABLE AC - Pack House			
1	Pack House	Supply of Liquid & Suction piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	60	RMT
2	Pack House	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	80	RMT
3	Pack House	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	60	RMT
4	Pack House	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	2	Nos
5	Pack House	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	30	RMT

6	Pack House	Supply of Refrigerant R-22 / 410 A For Refrigerated Equipment.	20	KGS
7	Pack House	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	0	Nos
8	Pack House	Installation Testing & Commissioning of 8.5TR Ductable AC	2	Nos
9	Ripening Rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	0	Nos
B6)	BOQ - INSTALLATION OF DUCTABLE AC - Processing Unit			
1	Pack House	Supply of Liquid & Suction piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	75	RMT
2	Pack House	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	120	RMT
3	Pack House	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	50	RMT
4	Pack House	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	5	Nos
5	Pack House	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	45	RMT
6	Pack House	Supply of Refrigerant R-22 / 410 A For Refrigerated Equipment.	55	KGS
7	Pack House	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	0	Nos
8	Pack House	Installation Testing & Commissioning of 11.5TR Ductable AC	5	Nos
9	Ripening Rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	0	Nos

** Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only.If any specific brand/model number is mentioned in the specification in such case other equivalent brand/ model no is acceptable to the purchaser separate sheet need for specification*

- 5) You are requested to provide your offer latest by 11:00 am on 16/3/2023.
- 6) Technical bid will be opened in the presence of Bidders or their representatives who choose to attend at 11:30 am on 16/3/2013 in the office of *Ancestral Farmer* Producer Company Ltd. Indapur, Dist. Pune
- 7) We look forward to receiving your quotations and thank you for your interest in this project.

President, Procurement Committee
Ancestral Farmer Producer Company Ltd. Indapur, Dist. Pune
Email ID- bonganeanand@gmail.com
Mob. No. 9324344370

Instructions to Bidders

1. Scope of Supply of Goods:

Ancestral Farmer Producer Company Ltd. Indapur, Dist. Pune invites quotations for supply of following goods

NO.	Brief Description Of the Good& Specifications	Qty	Unit
A	<u>Electromechanical Work</u>		
B	<u>PART – II - REFRIGERATION SYSTEM - PRECOOLING ROOM, COLD ROOMS, DEEP FREEZING COLD ROOMS, BLAST FREEZER AND RIPENING CHAMBERS AND HVAC SYSTEM FOR PROCESSING ROOM</u>		
	<p>SCOPE OF WORK</p> <p>The work includes designing, engineering, providing, installing, testing and commissioning of the refrigeration and air conditioning system covering the equipment / materials / services covered in the Technical specification, BOQ and the drawings.</p> <p>The erection, testing and commissioning will include lifting of equipment placement and alignment in position, interconnecting piping, controls etc. The system shall be pressure tested and evacuated as per standard practice before charging the refrigerant gas. The plant shall be run on load for 3 days for satisfactory performance.</p> <p>All tools and tackles / welding machines, rods and gases etc. required for fabrication, erection, testing and commissioning etc. shall be arranged by the contractor at his own cost.</p>		
B1	AIR COOLED CONDENSING UNITS		
	<p>Totally built up Condensing units with MCB connector contactor assembly and in built drier filter will be preferred</p> <p>Compressor : Bitzer / Emerson / Danfoss (Condensing unit has to be from original compressor manufacturing company only. No Condensing unit assembler built unit will be acceptable.)</p> <p>Condenser : Air Cooled as per company standard.</p> <p>compressor Type : hermatically sealed - Scroll Or Reciprocating - unless otherwise specified</p>		
C	REFRIGERATION MACHINERY FOR PRE COOLING ROOMS		
	Standby -zero		
C.1	<p>Condensing Unit with Cooling capacity of 25.0 KW and above at (0) deg C room temp and at Condensing temp of 50 deg C. Condensing unit with inbuilt contactor connector and MCB Panel including inbuilt drier filter with adjustable HP LP Switch Assembly only -</p> <p>Refrigerant R 404</p> <p>Approved Makes: Carrier / Bluestar / Panasonic</p>	4	Set
C.2	<p>Evaporator unit with 25.0 KW and above at -5 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve</p> <p>Approved Make: Carrier / Bluestar / Panasonic</p>	4	Set
C.3	DANFOSS / DIXELL make Refrigeration Controllers	4	Set
D	REFRIGERATION MACHINERY FOR COLD STORAGEES		
	Standby -zero		
DA.1	Condensing Unit with Cooling capacity of 7.2 KW and above at (0)	4	Set

		deg C room temperature and at Condensing temp of 50 deg C. condensing unit with inbuilt contactor connector and MCB Panel including inbuilt drier filter with adjustable HP LP Switch Assembly only - Refrigerant R 404 / R134A Approved Makes: Carrier / Bluestar / Panasonic		
DA.2		Evaporator unit with 7.2 KW and above at -5 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Approved Make: Carrier / Bluestar / Panasonic	4	Set
D.A3		DANFOSS / DIXELL make Refrigeration Controllers	4	Set
DB.1		Condensing Unit with Cooling capacity of 3.0 KW and above at (0) deg C room temperature and at Condensing temp of 50 deg C. condensing unit with inbuilt contactor connector and MCB Panel including inbuilt drier filter with adjustable HP LP Switch Assembly only - Refrigerant R 404 / R134A Approved Makes: Carrier / Bluestar / Panasonic	2	Set
DB.2		Evaporator unit with 3.0 KW and above at -5 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Approved Make: Carrier / Bluestar / Panasonic	2	Set
DB.3		DANFOSS / DIXELL make Refrigeration Controllers	2	Set
E	REFRIGERATION MACHINERY FOR MINUS TEMP COLD ROOM			
		Standby -One [one working and one stand by]		
E.1		Low temperature Condensing Unit with Cooling capacity of 6.0 KW and above at (-18) deg C at Condensing temp of 50 deg C condensing unit with inbuilt contactor connector and MCB Panel including inbuilt drier filter with adjustable HP LP Switch Assembly only- Refrigerant R 404A Approved Makes: Carrier / Bluestar / Panasonic / Bluecold	4	Set
E.2		Evaporator unit with 6.0 KW and above at -25 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Unit should include Coil heater, Drain heater and Tray heater Approved Makes: Carrier / Bluestar / Panasonic / Bluecold	4	Set
E.3		DANFOSS / DIXELL make Refrigeration Controllers	4	Set
F	REFRIGERATION MACHINERY FOR BLAST FREEZER			
F.1		Low temperature Condensing Unit with Cooling capacity of 17.0 KW and above at Evaporating temp of (-40) deg C at Condensing temp of 50 deg C Condensing unit 20.2Y Bitzer Compressor or above completely built up with all necessary mechanical / electro mechanical components and safety equipments Approved Makes: Carrier / Bluestar / Bluecold - but with Semi hermetic Bitzer compressor only Refrigerant - R 404A	1	Set
F.2		Equivalent Evaporator unit with expansion valve [in built not necessary] Unit should include Coil heater, Drain heater and Tray heater Approved Make: Carrier / Bluestar / Bluecold / Panasonic	1	Set
F.3		Controls and Instrument as follows: (a) Thermostatic expansion valves [if not in built] DANFOSS/ SPORLAN / Eqvt approved Make for Blast Freezing Ref Machine (b) Digital temperature indicator cum controller (0 to 50 deg. C	1	Set

		range) for pre - Cooling, Cold Store and Ante - room. (c) Liquid line solenoid valves DANFOSS / MANIKS / SPORLAN / equvt approved make for pre - cooling, Cold Store and Deep freezing Cold Rooms		
G	Electrical work for Refrigeration System			
		Electrical control panel cubicle type, dust and vermin proof copper bus bars and suitable for 415 Volts, 3 phase, 50 C/s A.C. supply and incorporating the following: a) Incoming MCCB Rating as required. b) Earth leakage current ELR and suitable ELCB c) MCBs and starters for condensing units, air handling unit, ACUs in cold stores, ante room d) MCBs for control circuit e) MCBs as spare f) MCBs for capacitors The Distribution panel shall have provision for interlocking of various equipment as per standard practice. ARRANGEMENT SHOULD BE ENOUGH FOR HAVING RATED INCOMER MCB AND OUTGOING MCBS FOR 16 REF UNITS	1	Lot
H	AIR CONDITIONING MACHINES FOR PACK HOUSE			
		Standby -zero		
H.1		Ssupply of 8.5 TR Ductable AC [make: Hitachi / Blue Star / Voltas]	2	Nos
I	AIR CONDITIONING MACHINES FOR PROCESSING UNIT			
		Standby -zero		
I.1		Ssupply of 11.5 TR Ductable AC [make: Hitachi / Blue Star / Voltas]	5	Nos
B)	INSTALLATION OF REF MACHINES			
B1)	INSTALLATION OF REF MACHINES PRE COOLING ROOM			
1	Precooler Room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 15 KW MT to 32 KW MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	40	RMT
2	Precooler Room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.	80	RMT
3	Precooler Room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	40	RMT
4	Precooler Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make	4	Nos

		; Having Installation Height above 1.8 M from Ground Level.		
5	Precooler Room	Supply of Epoxy Coated M S Base Frame for Installing One Over the other Evaporator units in Precooler Rooms	2	Set
6	Precooler Room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	20	RMT
7	Precooler Room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	80	KGS
8	Precooler Room	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	6	Nos
9	Precooler Room	Installation,Testing & Commissioning of Outdoor Condensing Unit and indoor unit with necessary supports and copper piping of Any Make upto 7.5 HP Capacity ,Medium /Low Temperature .	4	Nos
10	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	2	Nos
B2)	BOQ - INSTALLATION OF REF MACHINES - Cold Room			
1	Chiller Room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	100	RMT
2	Chiller Room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets,ittings & Clamps.	220	RMT
3	Chiller Room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	120	RMT
4	Chiller Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	6	Nos
5	Chiller Room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	60	RMT
6	Chiller Room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	48	KGS
7	Chiller Room	Supply of Vapour proof Bucket type Lighting fitting,Protection	9	Nos

		IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring		
8	Chiller Room	Installation,Testing & Commissioning of Outdoor Condensing Unit and indoor unit with necessary supports and copper piping of Any Make upto 7.5 HP Capacity ,Medium /Low Temperature .	6	Nos
9	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	3	Nos
B3)	BOQ - INSTALLATION OF REF MACHINES - Cold Room (Minus)			
1	Freezer Room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	40	RMT
2	Freezer Room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.	120	RMT
3	Freezer Room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	40	RMT
4	Freezer Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	4	Nos
5	Freezer Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	4	Nos
6	Freezer Room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	20	RMT
7	Freezer Room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	40	KGS
8	Freezer Room	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room	4	Nos
9	Freezer Room	Installation,Testing & Commissioning of Outdoor Condensing Unit and indoor unit with necessary supports and copper piping of Any Make upto 7 HP Capacity ,Medium /Low	4	Nos

		Temperature .		
10	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	2	Nos
B4)	BOQ - INSTALLATION OF REF MACHINES - Blast Freezer			
1	Blast Freezer room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	10	RMT
2	Blast Freezer room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.	40	RMT
3	Blast Freezer room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	10	RMT
4	Blast Freezer room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 4Y or 12.2Y Bitzer Compressor for All Make ; Having Installation Height above 1.8 M from Ground Level.	1	Nos
5	Blast Freezer room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	1	Nos
6	Blast Freezer room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	10	RMT
7	Blast Freezer room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	30	KGS
8	Blast Freezer room	Supply of Vapour proof Bucket type Lighting fitting, Protection IP-65, Model Magnum1 - 2x18W FTL, Havell Make, with Polycarbonate Diffuser for Positive Temperature Chiller Room	1	Nos
9	Blast Freezer room	Installation, Testing & Commissioning of Blast Freezing Unit with 20.2Y Bitzer Compressor Equivalent capacity of Indoor unit along with Expansion Valve	1	Nos
10	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	1	Nos
B5)	BOQ - INSTALLATION OF DUCTABLE AC - Pack House			
1	Pack House	Supply of Liquid & Suction piping with Suction Line Rubber	60	

		Nitrile Insulation connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.		RMT
2	Pack House	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	80	RMT
3	Pack House	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	60	RMT
4	Pack House	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	2	Nos
5	Pack House	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	30	RMT
6	Pack House	Supply of Refrigerant R-22 / 410 A For Refrigerated Equipment.	20	KGS
7	Pack House	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	0	Nos
8	Pack House	Installation Testing & Commissioning of 8.5TR Ductable AC	2	Nos
9	Ripening Rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	0	Nos
B6)	BOQ - INSTALLATION OF DUCTABLE AC - Processing Unit			
1	Pack House	Supply of Liquid & Suction piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	75	RMT
2	Pack House	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	120	RMT
3	Pack House	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	50	RMT
4	Pack House	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor	5	Nos

		Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.		
5	Pack House	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	45	RMT
6	Pack House	Supply of Refrigerant R-22 / 410 A For Refrigerated Equipment.	55	KGS
7	Pack House	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	0	Nos
8	Pack House	Installation Testing & Commissioning of 11.5TR Ductable AC	5	Nos
9	Ripening Rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	0	Nos

Delivery Period	Place of Delivery	Installation Requirement if any
2 Month	<i>Ancestral Farmer</i> Producer Company Ltd. Indapur, Dist. Pune	AS per above

2. Qualification Criteria of bidder:

The bidder should fulfill following all qualification criteria;

- a) Should have GST registration
- b) Should have achieved in at least one year an annual financial turnover not less than Rs 138.60 Lakh in the last three years;years i.e. FY 2019-20, 2020-21,2021-22.
- c) Should have satisfactorily supplied (installation if applicable) similar goods of value not less than Rs. *55.40 Lakh* in any one year during last three years. (current year and three previous financial years)
- d) Should not have been black listed, debarred or suspended on the date of bid opening by any of the Government organization, the World Bank Group.

3. Bid Price

- a) The contract shall be for the full quantity/delivery as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
- b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
- c) The price should inclusive of transportation, loading, unloading, installation etc.
- d) GST in connection with the sale shall be shown separately.
- e) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

4. Validity of Quotation

Quotation shall remain valid for a period not less than 60 days after the deadline date specified for submission.

5. Tender Fee & Bid Security:

a) Tender Fee:

Bidding document may be purchased from the Employer office for a non-refundable fee as indicated. Bidder may also download bidding document from aforesaid website and submit bid document cost in the form of demand draft along with the bid. If bidder fails to submit the tender fee, the bid submitted by such bidder shall be rejected.

b) Bid Security :

- 1) Bidder should submit bid security declaration in the attached format. If bidder not submitted bid security declaration, the bid submitted by such bidder shall be rejected.
- 2) The Bid Security declaration shall be executed
 - a) if a bidder withdraws its bid prior to the expiry date of bid validity specified by the bidder on the letter of bid or any extended date provided by the bidder; or
 - b) During the bid process, if any information submitted found manipulated / hidden /false / mala fide in the bid
 - c) if the successful Bidder fails to
 - (i) sign the Contract or
 - (ii) furnish a Performance Security

6. Submission of bid .

- a) The bidder is advised to visit the site at his own expense and obtain all information that may be necessary for preparing the bid.
- b) Each bidder shall submit only one bid.
- c) Modification and Withdrawal of Bids – Resubmission of bid by the bidders for any number of times before the final date and time of submission is allowed.
- d) Bid shall comprise of the following 2 envelopes:
 - 1) **Envelope 1:** Technical bid
 - 2) **Envelope 2:** Financial /price bid

Note: The above both the envelopes are to be submitted in a separate sealed envelopes mentioning the Technical bid and financial bid on top of the each envelop and bidders name at bottom of the envelop. Both these two envelopes shall be packed in a one outer envelope & seal it.

The sealed outer envelope will also bear the following identification: -

- Bid for **Supply , Installation and Teting Of refrigartion Machinery For Processing Unit, Cold Storage Pre Cooling Rooms Blast Freezer and Pack House**
- Bidder's name.....
- Bidder's address
- Bidder's contact number

1) Technical bid: (Envelop 1)

The bidder shall submit following documents in the technical envelope.

- a) Demand draft towards tender document fee if tender document downloaded from the website OR payment receipt if tender document purchased from the employer office.
- b) Details of technical documents submitted (in the attached form no 1)
- c) Bid security declaration (in the attached form no 2)

- d) The declaration that the bidder is not black listed/banned by any Government department/ Public Sector Undertaking/ Private Sector/ or any other agency (in the attached form no 3)
- e) Turn over certificate issued by the chartered Accountant for financial years i.e. years i.e. FY 2019-20, 2020-21, 2021-22 or copy of ITRs or balance sheet (in the attached form no 4)
- f) Experience of the bidder in supplying similar item (in the attached form no 5)
- g) PAN Card copy
- h) GST registration certificate

2) Financial Bid:(Envelop 2)

The bidder shall quote for all items (Form no 6).

7. Bid opening and Evaluation process:

a) Opening of Envelop - A (Technical Bid)

The 'Technical Envelop' of bids will be publicly opened first in the presence procurement committee members and bidders' designated representatives and anyone who chooses to attend at the address on the date and time specified in the tender notice. In the event of the date specified for bid opening being declared as a closed holiday for the purchaser's office, the due date for opening of bids will be the following working day at the same time and venue.

b) Evaluation of Technical Bid

The evaluation of the technical bids will be carried out as per the eligibility criteria mentioned in the clause 2. The bidders fulfilling minimum eligibility criteria are declared technically qualified and eligible opening of the financial bid.

c) Opening of Envelop - 2 (Financial Bid)

Financial envelope of technically qualified bidders shall be opened in the presence procurement committee members and bidders' designated representatives on the date and time informed by the purchaser.

8. Evaluation of Financial bids/ Quotations

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- a) are properly signed ;
- b) conform to the terms and conditions, and specifications.
- c) The Quotations would be evaluated for the entire item together

9. Information relating to evaluation of bids and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.

10. Normal commercial warranty/ guarantee 2 years shall be applicable to the supplied goods.

11. Award of contract:

- a) The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price and who meets the specified qualification criteria.

- b) Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- c) The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period.

Note: In case of a tie of evaluated cost between two or more bidders, discount shall be taken from all the L1 bidders. In case there is still a tie, bidder with the maximum turnover shall be awarded contract

12. Purchaser's Right to Vary Quantities at Time of Award

At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services up to 15% originally specified without any change in the unit prices or other terms and conditions of the Bid and the bidding document.

13. Performance Security:

Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the Purchaser the performance security in the form of Demand draft or unconditional bank guarantee in favor of the Purchaser for an amount equivalent of 10% of the contract price. The Performance Security will be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract including any warranty obligations.

- 14. Payment will be made within 15 days after delivery of the goods and installation if required duly certified by the authority appointed by the purchaser and upon receipt of tax invoice. Applicable GST will be paid to the supplier as per the prevailing rate
- 15. If bidder not delivered / installed goods within the time, liquidated damage @ 0.5% per week shall be deducted from final payment.
- 16. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.

We look forward to receiving your quotations and thank you for your interest in this project.

President, Procurement Committee
Ancestral Farmer Producer Company Ltd. Indapur, Dist. Pune
Email ID- bonganeanand@gmail.com
Mob. No. 9324344370

Form No 1

Details of technical documents submitted

(On bidder's letter head)

Sr. No.	List of documents to be submitted	Document page No
1	Tender fee receipt	
2	Bid security declaration (Form no 2)	
3	The declaration that the bidder is not black listed/banned by any Government department/ Public Sector Undertaking/ Private Sector/ or any other agency (form no 3)	
4	Turn over certificate issued by the chartered Accountant for financial years i.e. years i.e. FY 2019-20, 2020-21, 2021-22. (Form No 4) or copy of ITRs or balance sheet	
5	Details of experience in supply of similar goods (Form No 5) along with the relevant documents	
6	GST registration certificate	

Signature

Name of Authorized Signatory.....

Bidder's Office Seal

Note: Bidders should submit this form along with all above mentioned required documents. Each document should be numbered. Purchaser reserves the right to reject the bid if any of the required documents are not submitted by the bidder along with the bid.

FORMAT OF DECLARATION IN LIEU OF EMD/BID SECURITY
(To be submitted on the Bidder's Letter Head)

Date: *[insert date]*

Tender Ref No.: *[insert number]*

To
President,
Ancestral Farmer Producer Company Ltd.
Indapur, Dist. Pune

We, the undersigned, declare that:

We understand that, according to your conditions, quotation must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with any CBO or project implementing unit under SMART or various offices under various Government organization / World Bank funded Projects for the period of time of 3 years starting from opening of the financial bids, if we are in breach of our obligation(s) under the bid conditions, because we:

- (a) have withdrawn our Bid during the period of bid validity or
- (b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security in accordance with the clauses of Request for Quotations/Bids.

We understand this Bid-Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

Signed: *[insert signature of person whose name and capacity are shown]* In the capacity of *[insert legal capacity of person signing the Bid-Securing Declaration]*

Name: *[insert complete name of person signing the Bid-Securing Declaration]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on day of , *[insert date of signing]*

Corporate Seal (where appropriate)

Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid.]

**FORMAT OF SELF DECLARATION WITH REGARD TO BLACKLISTING/ NON- DEBARMENT,
BY ORGANISATION**

(To be submitted on the Bidder's Letter Head)

Date: *[insert date]*

Tender Ref No.: *[insert number]*

To

President,

Ancestral Farmer Producer Company Ltd.

Indapur, Dist. Pune

We hereby confirm and declare that we, M/s -----,
is not blacklisted/ De-registered/ debarred by any Government department /Public Sector
Undertaking/ Private Sector/ or any other agency for which we have Executed/ Undertaken the
supply goods/ works/ Services during the last 3 years.

Signature

Name of Authorized Signatory.....

Office Seal

Date:**Financial Capacity (on CA's letter head)****TO WHOMSOEVER IT MAY CONCERN**

This is to certify that M/s. (name of bidder) is having registered office at (detailed office address). The turnover of the (name of bidder) from the business for the three financial year based on the audited financial Statement is as under.

Sr. No.	Financial Year	Turnover in Rs. Lakhs
1	FY 2019-20	
2	FY 2020-21	
3	FY 2021-22	
	Average Turnover	

The above information/figures are true and authentic to the best of my knowledge and belief. I / we, am/ are well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of bid at any stage, besides liabilities towards prosecution under appropriate law.

Signature of the Chartered Accountant

Name of the Firm

Registration No.

Date:

Place:

(Seal of the Chartered Accountant)

Email id:

Experience of the bidder in supplying similar item

Sr. No	Name and Address of Client	Name of Item supplied	Quantity of item supplied	Supply/ Work Order Date	Supply/ Work order Value in Rs.	Supply/ Delivery Completion date
1						
2						
3						

Signature

Name of Authorized Signatory.....

Office Seal

Note: It is necessary to submit Completion certificate issued by the client / delivery challan duly acknowledged by the client / tax invoice copy.

(Quotation Format)
Price Schedule
(On bidder's letterhead)

NO.	Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
A	<u>Electromechanical Work</u>				
B	<u>PART – II - REFRIGERATION SYSTEM - PRECOOLING ROOM, COLD ROOMS, DEEP FREEZING COLD ROOMS, BLAST FREEZER AND RIPENING CHAMBERS AND HVAC SYSTEM FOR PROCESSING ROOM</u>				
	<p>SCOPE OF WORK</p> <p>The work includes designing, engineering, providing, installing, testing and commissioning of the refrigeration and air conditioning system covering the equipment / materials / services covered in the Technical specification, BOQ and the drawings.</p> <p>The erection, testing and commissioning will include lifting of equipment placement and alignment in position, interconnecting piping, controls etc. The system shall be pressure tested and evacuated as per standard practice before charging the refrigerant gas. The plant shall be run on load for 3 days for satisfactory performance.</p> <p>All tools and tackles / welding machines, rods and gases etc. required for fabrication, erection, testing and commissioning etc. shall be arranged by the contractor at his own cost.</p>				
B1	<u>AIR COOLED CONDENSING UNITS</u>				
	<p>Totally built up Condensing units with MCB connector contactor assembly and in built drier fliter will be prefferred</p> <p>Compressor : Bitzer / Emerson / Danfoss (Condensing unit has to be from original compressor manufacturing company only. No Condensing unit assemaler built unit will be acceptable.)</p> <p>Condenser : Air Cooled as per company standard.</p>				

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
		compressor Type : hermatically sealed - Scroll Or Reciprocating - unless otherwise specified				
C	REFRIGERATION MACHINERY FOR PRE COOLING ROOMS					
		Standby -zero				
C.1		Condensing Unit with Cooling capacity of 25.0 KW and above at (0) deg C room temp and at Condensing temp of 50 deg C. Condensing unit with inbuilt contactor connector and MCB Panel including inbuilt dirier filter with adjustable HP LP Switch Assembly only - Refrigerant R 404 Approved Makes: Carrier / Bluestar / Panasonic	4	Set		
C.2		Evaporator unit with 25.0 KW and above at -5 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Approved Make: Carrier / Bluestar / Panasonic	4	Set		
C.3		DANFOSS / DIXELL make Refrigeration Controllers	4	Set		
D	REFRIGERATION MACHINERY FOR COLD STORAGES					
		Standby -zero				
DA.1		Condensing Unit with Cooling capacity of 7.2 KW and above at (0) deg C room tempreture and at Condensing temp of 50 deg C. condensing unit with inbuilt contactor connector and MCB Panel including inbuilt dirier filter with adjustable HP LP Switch Assembly only - Refrigerant R 404 / R134A Approved Makes: Carrier / Bluestar / Panasonic	4	Set		
DA.2		Evaporator unit with 7.2 KW and above at -5 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Approved Make: Carrier / Bluestar / Panasonic	4	Set		
D.A3		DANFOSS / DIXELL make Refrigeration Controllers	4	Set		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
DB.1		Condensing Unit with Cooling capacity of 3.0 KW and above at (0) deg C room tempreture and at Condensing temp of 50 deg C. condensing unit with inbuilt contactor connector and MCB Panel including inbuilt dirier filter with adjustable HP LP Switch Assembly only - Refrigerant R 404 / R134A Approved Makes: Carrier / Bluestar / Panasonic	2	Set		
DB.2		Evaporator unit with 3.0 KW and above at -5 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Approved Make: Carrier / Bluestar / Panasonic	2	Set		
DB.3		DANFOSS / DIXELL make Refrigeration Controllers	2	Set		
E	REFRIGERATION MACHINERY FOR MINUS TEMP COLD ROOM					
		Standby -One [one working and one stand by]				
E.1		Low tempreture Condensing Unit with Cooling capacity of 6.0 KW and above at (-18) deg C at Condensing temp of 50 deg C condensing unit with inbuilt contactor connector and MCB Panel including inbuilt dirier filter with adjustable HP LP Switch Assembly only- Refrigerant R 404A Approved Makes: Carrier / Bluestar / Panasonic / Bluecold	4	Set		
E.2		Evaporator unit with 6.0 KW and above at -25 deg C Evaporating temp or of more capacity with inbuilt and pre installed Expansion Valve Unit should include Coil heater, Drain heater and Tray heater Approved Makes: Carrier / Bluestar / Panasonic / Bluecold	4	Set		
E.3		DANFOSS / DIXELL make Refrigeration Controllers	4	Set		
F	REFRIGERATION MACHINERY FOR BLAST FREEZER					

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
F.1		<p>Low temperture Condensing Unit with Cooling capacity of 17.0 KW and above at Evaporatig temp of (-40) deg C at Condensing temp of 50 deg C</p> <p>Condensing unit 20.2Y Bitzer Compressor or above completely built up with all necessary mechanical / electro mechanical components and safety equipments</p> <p>Approved Makes: Carrier / Bluestar / Bluecold - but with Semi hermatic Bitzer compressor only</p> <p>Refrigerant - R 404A</p>	1	Set		
F.2		<p>Equivalent Evaporator unit with expansion valve [in built not necessary] Unit should include Coil heater, Drain heater and Tray heater</p> <p>Approved Make: Carrier / Bluestar / Bluecold / Panasonic</p>	1	Set		
F.3		<p>Controls and Instrument as follows:</p> <p>(a) Thermostatic expansion valves [if not in built] DANFOSS/ SPORLAN / Eqvt approved Make for Blast Freezing Ref Machine</p> <p>(b) Digital temperature indicator cum controller (0 to 50 deg. C range) for pre - Cooling, Cold Store and Ante - room.</p> <p>(c) Liquid line solenoid valves DANFOSS / MANIKS / SPORLAN / eqvt approved make for pre - cooling, Cold Store and Deep freezing Cold Rooms</p>	1	Set		
G	Electrical work for Refrigeration System					

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
		Electrical control panel cubicle type, dust and vermin proof copper bus bars and suitable for 415 Volts, 3 phase, 50 C/s A.C. supply and incorporating the following: a) Incoming MCCB Rating as required. b) Earth leakage current ELR and suitable ELCB c) MCBs and starters for condensing units, air handling unit, ACUs in cold stores, ante room d) MCBs for control circuit e) MCBs as spare f) MCBs for capacitors The Distribution panel shall have provision for interlocking of various equipment as per standard practice. ARRANGEMENT SHOULD BE ENOUGH FOR HAVING RATED INCOMER MCB AND OUTGOING MCBS FOR 16 REF UNITS	1	Lot		
H	AIR CONDITIONING MACHINES FOR PACK HOUSE					
		Standby -zero				
H.1		Ssupply of 8.5 TR Ductable AC [make: Hitachi / Blue Star / Voltas]	2	Nos		
I	AIR CONDITIONING MACHINES FOR PROCESSING UNIT					
		Standby -zero				
I.1		Ssupply of 11.5 TR Ductable AC [make: Hitachi / Blue Star / Voltas]	5	Nos		
B)	INSTALLATION OF REF MACHINES					
B1)	INSTALLATION OF REF MACHINES PRE COOLING ROOM					
1	Precooler Room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 15 KW MT to 32 KW MT Capacity; One to One stand alone Refrigeration	40	RMT		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
		System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.				
2	Precooler Room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.	80	RMT		
3	Precooler Room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	40	RMT		
4	Precooler Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	4	Nos		
5	Precooler Room	Supply of Epoxy Coated M S Base Frame for Installing One Over the other Evaporator units in Precooler Rooms	2	Set		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
6	Precooler Room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	20	RMT		
7	Precooler Room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	80	KGS		
8	Precooler Room	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	6	Nos		
9	Precooler Room	Installation,Testing & Commissioning of Outdoor Condensing Unit and indoor unit with necessary supports and copper piping of Any Make upto 7.5 HP Capacity ,Medium /Low Temperature .	4	Nos		
10	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	2	Nos		
B2)	BOQ - INSTALLATION OF REF MACHINES - Cold Room					
1	Chiller Room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings &	100	RMT		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
		Clamps.				
2	Chiller Room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.	220	RMT		
3	Chiller Room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	120	RMT		
4	Chiller Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	6	Nos		
5	Chiller Room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	60	RMT		
6	Chiller Room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	48	KGS		
7	Chiller Room	Supply of Vapour proof Bucket type Lighting fitting, Protection IP-65, Model Magnum1 - 2x18W FTL, Havell Make, with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	9	Nos		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
8	Chiller Room	Installation,Testing & Commissioning of Outdoor Condensing Unit and indoor unit with necessary supports and copper piping of Any Make upto 7.5 HP Capacity ,Medium /Low Temperature .	6	Nos		
9	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	3	Nos		
B3)	BOQ - INSTALLATION OF REF MACHINES - Cold Room (Minus)					
1	Freezer Room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	40	RMT		
2	Freezer Room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.	120	RMT		
3	Freezer Room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	40	RMT		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
4	Freezer Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	4	Nos		
5	Freezer Room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	4	Nos		
6	Freezer Room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	20	RMT		
7	Freezer Room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	40	KGS		
8	Freezer Room	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room	4	Nos		
9	Freezer Room	Installation,Testing & Commissioning of Outdoor Condensing Unit and indoor unit with necessary supports and copper piping of Any Make upto 7 HP Capacity ,Medium /Low Temperature .	4	Nos		
10	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	2	Nos		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
B4)	BOQ - INSTALLATION OF REF MACHINES - Blast Freezer					
1	Blast Freezer room	Supply of Liquid & Suction Refrigerant piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	10	RMT		
2	Blast Freezer room	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit & control panel for Medium Temperature Application (For Remote Type Open Multi deck / Cabient Chiller ; Cold Room Indoor Unit of Any Make) from 3 HP MT to 6 HP MT Capacity; One to One stand alone Refrigeration System as per Specifications suitable for site installation conditions with necessary supports / brackets, fittings & Clamps.	40	RMT		
3	Blast Freezer room	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	10	RMT		
4	Blast Freezer room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 4Y or 12.2Y Bitzer Compressor for All Make ; Having Installation Height above 1.8 M from Ground Level.	1	Nos		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
5	Blast Freezer room	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	1	Nos		
6	Blast Freezer room	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	10	RMT		
7	Blast Freezer room	Supply of Refrigerant R-404 A For Refrigerated Equipment.	30	KGS		
8	Blast Freezer room	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room	1	Nos		
9	Blast Freezer room	Installation,Testing & Commissioning of Blast Freezing Unit with 20.2Y Bitzer Compressor Equivalent capacity of Indoor unit along with Expansion Valve	1	Nos		
10	All rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	1	Nos		
B5)	BOQ - INSTALLATION OF DUCTABLE AC - Pack House					
1	Pack House	Supply of Liquid & Suction piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site	60	RMT		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
		installation conditions with necessary supports / brackets , fittings & Clamps.				
2	Pack House	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	80	RMT		
3	Pack House	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	60	RMT		
4	Pack House	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	2	Nos		
5	Pack House	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per Specifications.	30	RMT		
6	Pack House	Supply of Refrigerant R-22 / 410 A For Refrigerated Equipment.	20	KGS		
7	Pack House	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	0	Nos		
8	Pack House	Installation Testing & Commissioning of 8.5TR Ductable	2	Nos		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
		AC				
9	Ripening Rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	0	Nos		
B6)	BOQ - INSTALLATION OF DUCTABLE AC - Processing Unit					
1	Pack House	Supply of Liquid & Suction piping with Suction Line Rubber Nitrile Insulation connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	75	RMT		
2	Pack House	Supply of Electrical Cabling connecting Indoor unit to Outdoor Unit For HVAC Application (Ductable AC Units) from 8.5TR to 11.5 TR Capacity; One to One stand alone Split System as per Specifications suitable for site installation conditions with necessary supports / brackets , fittings & Clamps.	120	RMT		
3	Pack House	Supply of PVC drain piping of 25 mm with Rubber Nitrile Insulation & wrapped with electrical heater for avoiding water freezing inside pipe as per Specifications for Cold Rooms.	50	RMT		
4	Pack House	Supply of Epoxy Coated M S Base Frame with Working Platform & railing for Refrigerated Equipment Outdoor Condensing Unit of 1 HP Capacity to 6 HP Capacity for All Make ; Having Installation Height above 1.8 M from Ground Level.	5	Nos		
5	Pack House	Supply of Solid Cable Tray of 18 Gauge , Painted with RAL-9010 white, 400 mm Wide x 50 mm Collar Height with all necessary supports for Supporting & routing Refrigerated Copper Piping & Cables neatly as per	45	RMT		

NO.		Brief Description Of the Good& Specifications	Qty	Unit	Unit Rate without GST in Rs.	Total Amount without GST in Rs.
		Specifications.				
6	Pack House	Supply of Refrigerant R-22 / 410 A For Refrigerated Equipment.	55	KGS		
7	Pack House	Supply of Vapour proof Bucket type Lighting fitting,Protection IP-65,Model Magnum1 - 2x18W FTL,Havell Make,with Polycarbonate Diffuser for Positive Temperature Chiller Room with Wiring	0	Nos		
8	Pack House	Installation Testing & Commissioning of 11.5TR Ductable AC	5	Nos		
9	Ripening Rooms	Installation of 4nos hooters with Casing caps 2 inches width & wiring	0	Nos		
	Total Amount without GST in Rs.					
	Add GST in Rs.					
	Total Amount with GST in Rs.					

We agree to supply the above goods in accordance with the technical specifications and other terms and conditions mentioned in the tender document for a total contract price of Rs.(amount in figures) (Rs. amount in words) .

We also confirm that the normal commercial warrantee/guarantee of months shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery or collusive agreements with competitors.

Name of Bidder:

Signature of Bidder:

Date:

Bidder's office stamp

Letter of Acceptance

[letterhead paper of the Purchaser]

[date]

To: *[name and address of the Supplier]*

Subject: **Notification of award Contract No.**

This is to notify you that your Bid dated ***[insert date]*** for execution of the
[insert name of the contract and identification number, as given in the SCC]. for the
Accepted Contract Amount of ***[insert amount in numbers and words and name of
currency]***, as corrected and modified in accordance with the Instructions to Bidders is hereby
accepted by our Agency.

You are requested to furnish (i) the Performance Security within 15 days in accordance with the
Conditions of Contract, using for that purpose one of the Performance Security Forms

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Contract Agreement

Contract Agreement

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS AGREEMENT made

the *[insert: **number**]* day of *[insert: **month**]*, *[insert: **year**]*.

BETWEEN

- (1) *[insert complete name of Purchaser]*, a *[insert description of type of legal entity, for example, an agency of the Ministry of of the Government of {insert name of Country of Purchaser}, or corporation incorporated under the laws of {insert name of Country of Purchaser}]* and having its principal place of business at *[insert address of Purchaser]* (hereinafter called "the Purchaser"), of the one part, and
- (2) *[insert name of Supplier]*, a corporation incorporated under the laws of *[insert: country of Supplier]* and having its principal place of business at *[insert: address of Supplier]* (hereinafter called "the Supplier"), of the other part:

WHEREAS the Purchaser invited quotation for certain Goods and ancillary services, viz., *[insert brief description of Goods and Services]* and has accepted quotation /bid by the Supplier for the supply of those Goods and Services

The Purchaser and the Supplier agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other contract documents.
 - (a) the Letter of Acceptance
 - (b) the RFQ document
 - (c) the Addenda Nos.____ (if any)
 - (d) the Specification (including Schedule of Requirements and Technical Specifications)
 - (e) the completed Schedules (including Price Schedules)
3. In consideration of the payments to be made by the Purchaser to the Supplier as specified in this request for bid document, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[insert the name of the Contract governing law country]* on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[insert signature]*
in the capacity of *[insert title or other appropriate designation]*
In the presence of *[insert identification of official witness]*

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*