

## **CHECK LIST**

Kindly ensure compliance of the under-mentioned requirements, as per  
Tender Terms & Conditions.

1	Whether the prescribed EMD is submitted as per e-procurement rule.	Yes : No.
2	Whether details of tenders' Biodata / Plant and Machineries / Leading buyers details are furnished	Yes : No.
3	Whether the detail technical specification literature uploaded ?	Yes : No
4	Whether latest Income tax and Sales tax & Service tax clearance certificates attached.	Yes : No.
5	Whether PAN CARD uploaded ?	Yes : No.
6	Whether Price Quote tender duly filled up in figures and words ?	Yes : No.
7	Whether all the pages in the Technical Tender formats - and Price Quote have been duly Signed by authorized signatory as per e-portal rule ?	Yes : No.
8	Whether Tenderer is a Authorized Original Equipment Manufacturer (OEM) / Authorized Dealer, If yes valid Authorization Certificate should be uploaded along with bid ?	Yes : No.
9	Whether Client list uploaded ?	Yes : No.
10	Whether tenderer should have supplied and commissioned satisfactorily 50% of tendered quantity to any other reputed Dairy Industries during last three financial year, If Yes documentary evidence for the same to be uploaded along with the bid ?	Yes : No.

**SIGNATURE OF THE TENDERER**

## **TENDER APPLICATION**

From:-

**TO:-**

**M/s.**

**The Managing Director,  
Dharwad Milk Union Ltd.,  
Lakkammanahalli Indl.Area,  
DHARWAD – 580 004.**

Sir,

**Sub: Tender for .....**

.....

\* \* \* \* \*

Having examined the tender documents thoroughly and taking into consideration all instructions, terms & conditions detailed in Tender document, I / We hereby submit all the necessary documents and relevant information for above mentioned tender.

I / We understand that the ‘ Managing Director ’ reserves the right to accept or reject any tender / offer.

**SIGNATURE OF THE TENDERER**

## **PRICE QUOTE**

To:  
The Managing Director,  
Dharwad Co-Op Milk Union Ltd,  
Dharwad  
Sir,

**SUB: “Supply, erection, commissioning and testing of various types of refrigeration equipments in integrated project on turn key basis including necessary Civil works at product dairy Dharwad.**

With reference to the above subject, I / We herewith submitting my / our tender for “**Supply, erection, commissioning and testing of various types of refrigeration equipments in integrated project on turn key basis** including necessary Civil works at product dairy Dharwad on F.O.R DESTINATION basis.

Sl No	PARTICULARS	Unit	Rate/ Unit	Total Amount
1	<b><u>Supply, erection, commissioning and testing of various types of refrigeration equipments in integrated project on turn key basis</u></b> including necessary Civil works at product dairy Dharwad	<b>01 Unit</b>		
	<b>Excise Duty @</b>			
	<b>CST / VAT @</b>			
	<b>Service Tax @</b>			
	<b>Transit Insurance</b>			
	<b>Transportation</b>			
	<b>Sub Total</b>			
	<b>Total Rs.</b>			

**In words (Rs.) .....**

**(The Above Price is Inclusive of All Taxes)**

I / We hereby once again confirm that, I / We have thoroughly studied the tender document and understood the Terms & Conditions, Tender Specifications, Details of Goods Required etc. I / We fully understand the nature of the item I / We have quoted for, the quantity & specifications of the same also. My / Our offer to supply the stocks is strictly in accordance with these requirement. I / We hereby agree that, the decision of Managing Director, Dharwad Co-Op Milk Union Ltd. Dharwad shall be final in any dispute regarding the supply, Terms & Conditions of this tender.

**SIGNATURE OF THE TENDERER**

## Tenderer BIO-DATA

1.	Name and Address of the Firm.  Telephone No.  Cell No:  Fax No.  E-Mail.	
2.	Name and Designation of Principal Officer / Person to be contacted.	
3.	Status (Whether an Individual / Partnership / Firm / Public / Private Limited Company)	
4.	In case Partnership Firm  a) Whether it has been registered.  b) If registered, provide certified, extract from the Registrar of Firm.  c) Name of all Partners.  d) Details of Partnership deed. (Please upload the copy of the same)	
5.	Year of Establishment of Firm.	
6.	Whether Service Tax Certificate is enclosed	
7.	Whether SSI Registration Certificate enclosed	

8.	TIN No.		
9.	1. Income Tax PAN Certificate No. & Date (Please upload the copy) 2. Any other information you like to furnish		
10.	Whether VAT Certificate is enclosed		
11.	Last three years Turnover	Year	Turnover / Rs. In Lakhs

12. List of leading customers and with value of business of each:

Sl. No.	Names of Customer	Value of Business / Lakhs Rs.
1.		
2.		
3.		
4.		
5.		

### DECLARATION

The above information is true in all respects and we undertake to inform you if any change in the above particulars regarding our business from time to time.

Place:

**Signature of Authorized Representative of the  
Firm under proper seal.**

Date:

**DHARWAD,HAVERI, GADAG & UTTARAKANNADA DIST. CO-OPERATIVE MILK PRODUCERS'**  
**SOCIETIES UNION LIMITED.,**

Lakkammanahalli, Industrial Area, P.B.ROAD, **DHARWAD** – 580004, [Karnataka]  
Ph. No. 0836–247603/2468380, Fax No. 0836- 2468268, E-Mail-dharwarnin@gmail.com

No.KMF/2015-16/IND2684

Date:- 11-11-2015

**E-TENDER NOTIFICATION**

The Dharwad, Haveri, Gadag & Uttarakannada Dist. Co-Op Milk Union Limited, Dharwad (DAMUL) invites Tender from the eligible Manufacturer / suppliers for ***Supply, erection, commissioning and testing of various types of refrigeration equipments in integrated project on Turnkey basis at Dharwad product Dairy*** including necessary Civil works as per our specification mentioned in tender documents. The tenderer can visit & examine the sites of his own cost before participating in the tender.

The tender processing charges (non-refundable) & EMD of Rs.**2,50,000-00** may be paid to e-portal in any one of the forms as specified in the tender documents. For further details, can be log on to <https://eproc.karnataka.gov.in> or call e-procurement helpdesk on 080-25501216 / 25501227. The DAMUL will not be held responsible for the website problems if any, last date submission or non-receipt of the same.

1	Last Date & Time for receipt of tenders	10.12.2015, up to 04.00 PM
2	Date & Time for Opening of Technical Bid	11.12.2015, 04.30 PM onwards
3	Date & Time for Opening of Financial Bid	15.12.2015, 11.00 AM onwards

Managing Director

**Specifications for Supply, erection, commissioning and testing of various types of refrigeration equipments in integrated project**

**SCOPE OF SUPPLY**

Sr. No.	Qty	Items Description
01]	1No	<p>Design, fabrication, supply, erection and commissioning of 50 KL capacity Ice Bank Tank made up of inner galavenized MS plate 6 mm thick, with Proper Stiffening Support by T Angle galavenized MS plate bottom thickness of Tank Plate is 8 mm &amp; Side Plate 6 mm. All supports &amp; stiffeners of Tank must be galavenized MS plate . and necessary Connections as per Required with Interconnecting Existing System,</p> <p>100 mm insulation of PUF Panel, PUF density: 40 Kg/ cu mtr.</p> <p>PCGI cladding 0.5 mm on One side of PUF along with required valves, protection, temperature indicator &amp; top must be covered with PUF panels. Density: 40 Kg/ cu mtr.</p> <p>PCGI cladding 0.5 mm on Both side of PUF with handles</p> <p>Tank Bottom insulation should be 100 mm of Bare PUF to be Installed with Bitumen , Tar felt ,and ,Alkhatheen Sheets , 100 MM concert should be apply on Insulation to avoid damage of Insulation</p> <p>The set of Ice Accumulating coil is required to be supplied and installed. The Ice Accumulating coil is required to be fabricated out of AISI SS 304 class ERW pipe oil purging arrangements etc. The Ice accumulating coils should be designed to ensure accumulation of minimum of 50 mm thick ice. Necessary horizontal and vertical stiffeners/supports to be clamped with coils to keep them in position. At the bottom the coils shall have to be supported on S.S. channel</p> <p>For the IBTs necessary upper headers and lower headers of galavenized MS plate make pipe and of suitable dia shall have to be provided.</p> <p>IBT Coil Made Out of heavy duty galavenized MS class-C Pipe 31.75 mm OD X 1.2 mm Thk With 50.80 OD X 1.6 mm Thk Header Total minimum 1000 RMT or as per actual, as suitable for ammonia system as the pressure may cross 25 Kg/cm<sup>2</sup>).</p> <p>Oil purging connections and valves shall have to be provided and installed. One Number, Ice Accumulating limit switch to be provided for automatic stoppage of ammonia compressors when desired thickness of ice is achieved on coils, for each set.</p> <p>Suitable accumulator shall have to be provided and placed on the IBT, with due connections and fittings and accessories properly/placed. The accumulator shall have to be suitable insulated with PUF insulation and aluminum cladded .</p> <p>Suitable electronic float alongwith solenoid valve interconnecting ammonia line and valve (bye pass line, expansion valve, strainer etc.) as required shall have to be provided for proper flow of refrigerant in ice accumulating coils.</p>

		Providing and fixing suitable capacity new agitators with accessories along with motors, Agitation system should be Provide with IBT to agitate IBT water properly.
02]	01 no.	Kirloskar Make KC 3 Ammonia Ref. Compressor, with TEFC Sq. cage induction Motor of 60 HP Heavy duty, operating at -10 deg. C evaporation Temp. & + 40 deg. C Condensing Temp. Compressors comprising of following accessories:- Suction & Discharge Valve ,Pressure Gauges with safety cutouts, & suitable Oil separator, and interconnecting with the existing system.
03]	1 no.	Alfa Laval / GEA / Equivalent make PHE type Water Chiller having capacity 200 TR in semi welded construction with Stainless Steel plates complete with inlet, outlet nozzles & mounting frame. BPRV , Level Controller , Solenoid valve, Flow switch ,Safety Valve Purge Valve , pressure gauges, temperature indicators etc.
04]	2 Nos.	PHE Type condenser /Evaporative Condenser having capacity of 150 TR in semi welded construction with Stainless Steel Plates complete with inlet / outlet connections , Safety Valve, pressure gauges, temperature indicators etc.
05]	2 Nos	<b>Advance / Equivalent make FRP Induced Draft Power Saver cooling tower of 200 TR Capacity considering de-rating due to fouling in long run .The bidder should consider the cost of construction of civil structure(viz. water tank for storage of water required for cooling tower)</b>
06]	1 Nos.	Alfa Laval / GEA Make PHE Type De-super heater having suitable capacity of generating having capacity of generating 2500 Liter/hr Hot Water in semi welded construction with Stainless Steel Plates complete with inlet / outlet connections , Safety Valve pressure gauges, temperature indicators etc.
07]	1 nos.	Suitable Ammonia Surge Drum / Liquid Separator Liquid Separator made out of MS Plate confirming to IS 2062 Gr. A complete with necessary Connections
08]	2 Nos.	Suitable capacity i.e.10kl 2 nos of water storage M.S tanks one tank mean to supply soft water to PHE evaporator, Desuperheater & compressor further one 10kl capacity glass wool insulated tank to store hot water generated from PHE evaporator, Desuperheater & compressor. Further the bidder responsibility is also to provide required pipe line connections from soft water tank to PHE evaporator, Desuperheater & compressor & required pipe line connection from hot water insulated storage tank to boiler feed water tank. The bidder may visit site to assess requirement of pipe lines, motors,



		valves, temperature indicators, level indicators etc in this regard. Structural support along with gurders & frame to install 10kl MS water tanks, pumps & motors
09]	1 lot	Ammonia Piping for interconnecting existing Compressors, PHE evaporator, PHE Condensers, & various equipment's in a compact layout. All piping shall be Seamless SA 106 Grade B and valves & NRV shall be of Danfoss / SUPERFREEZE make.
10]	1 lot	Cooling Water piping for interconnecting Condenser, CW Pumps & soft water tank in a compact layout. All piping shall be GI B Class & valves shall be Inter valve make. (Distance considered between soft water tank & condensers as per site requirement
11]	1 lot	Thermal Insulation material consisting of PUF Sheets & PUF Pipe Sections for Ammonia suction lines to be covered with 22 gauge Al. cladding.
12]	6 No	New gate valves for 3 no's of pasteurizers for inlet and outlet of chilled water viz 6No's
13]	1 No	Danfoss / ABB/Siemens make Variable Frequency Drive with isolator to drive 160 KW Electric Motor
14]	1 No	<b>Danfoss / ABB/Siemens make Variable Frequency Drive with isolator to drive 45 KW Electric Motor</b>
15]	1 No.	MCC cum Control Panel for refrigeration section having following provisions. SFU/ MCCB with Voltmeter, Ammeter for incoming supply. Star Delta Starter for compressor motors 160 KW - 2 Nos Safety Trips & Interlocks of refrigeration system - 2 Set Remote start/stop button.
16]	1 Lot	Power / Control Cabling for Refrigeration system within plant room.
17]	1 No	Suitable capacity APFC Panel to achieve the power factor near to unity.
18]	1 Lot	Chilled Water Piping GI 'B' Class for interconnecting IBT Pumps, IBT Tank, Chiller & Process area. The length of the pipes is as per site conditions.
19)	1 Lot	Thermal insulation material for above chilled water piping comprising of PUF Pipe sections of suitable thickness & finally finished with 22 Gauge Al. cladding.
20)		<b>Necessary civil foundation / structural flat form for equipments viz PHE evaporator PHE condenser de-superhearter motors Etc in the scope of contractor.</b>
21)		<b>The auto controls used in the system viz valves, indicators gauges should be from reputed company. make Maniks /Danfoss/Superfreeze</b>
22)		<b>The tenders' job is to supply above said equipments and providing interconnections to suitable equipments through proper ammonia, chilled water &amp; water circulation lines to required equipments and commissioning the system.</b>
23)		<b>The successful bidder should run the plant for a trial</b>

		<b>purpose to the period of 10 days further training for a period of 20 days to be given to the staff of DMU employees.</b>
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## **SECTION VII : QUALIFICATION CRITERIA**

### **1. Supply, erection, commissioning and testing of various types of refrigeration equipments in integrated project**

1. (a) The tenderer should be a erection of Refrigeration Compressors who must have supplied & commissioned the similar type of machines specified in the 'Schedule of Requirements' up to minimum 02 units per annum successfully in previous three financial years
- (b) Tenders of tenderers quoting as authorized representative of a manufacturer meeting with the above requirement in full, can also be considered provided: The manufacturer/Distributor furnishes authorization in the prescribed format assuring full guarantee and warranty obligations as per GCC and SCC.
- (c) The tenderer shall furnish details regarding the service support and availability of spare parts at their service center. The tenderer shall provide documentary evidence for having established service center since 5 years, in the vicinity of 500 kms from DHARWAD
2. The tenderer should furnish the information on all past supplies and satisfactory performance for both (a) and (b) above, in Performa
- 3 Satisfactorily completed as prime supplier/contractor, at least one similar work each year,(for the past three years) such as, Supply of similar Plant equipments on turnkey basis
4. Each tenderer should furnish the proof of documents for the above along with the IT clearance certificate, solvency certificate Etc.
- 5) The successful contractor should run the plant for at least 10days by considering all the above said work, and should provide training to DAMUL refrigeration staff for operation and maintenance

### **06) MATERIAL OF CONSTRUCTION FOR PIPING AND EQUIPMENT VESSEL**

**6.1) Requirement:** Supply and install all required piping such as refrigerant, oil drain, defrost water, cooling water lines for condensers, chilled water, make up water, overflow, drain lines, etc within the battery limit and necessary for the operation of total refrigeration system are included in the scope of Refrigeration Contractor. Required valves and NRV's, bends, support materials, etc. as needed, are included in the scope of the contractor and also to be supplied and installed by the Supplier within the contract value.

**Wherever, the operating valves are located above normal operating height suitable approach & platform should be incorporated.**

Determination of pipe sizes is the responsibility of the Supplier and duly approved by the Purchaser as per norms/guidelines given below. **Suction and delivery main headers of Main Compressors should be sized for simultaneous operation of all the main compressors specified in the specification plus one more compressor of similar capacity proposed to be installed at site in future. Also, the condenser piping, oil cooler piping, chilled water piping, etc shall be designed suitable for all proposed pumps plus one future pump. These headers shall be provided with necessary tappings and isolating valves duly dummied and suitable to receive connection from the future compressors, condensers, ammonia pumps, chilled water pumps, etc.** Drawings showing installation details including but not limited to pipe sizes and routes and locations of valves and anchors shall be approved. **Pipe velocities shall be such as to not cause unreasonable pressure loss or noise, and in refrigerant lines shall ensure effective liquid and oil entrapment.**

**WHILE SELECTING THE PIPE SIZE FOR VARIOUS APPLICATIONS, THE VELOCITY OF THE FLUIDS MUST BE CONSIDERED AS UNDER:**

a) Suction gas line (NH3)	15.0 m/sec
b) Discharge line (NH3)	18.0 m/sec
c) Liquid line (NH3) condenser to receiver	0.5 - 0.6 m/sec
d) Liquid line (NH3) receiver to system	1.0 m/sec
e) Wet return line (NH3)	10 m/sec
f) Suction line (H2O)	1.0 to 1.2 m/sec
g) discharge line (H2O)	2.0-2.5m/sec

**Design:**

The detailed design and material of construction of the piping for various applications shall be the responsibility of the Contractor. The alternate material as proposed by the Refrigeration Contractor shall be approved by the Purchaser during the detailed engineering stage subject to **Contractor provides certificate from the supplier/Manufacturer that all material selected are satisfactory for the duty requirement/relevant codes.**

**Materials:** Piping for the respective services as required by the Purchaser shall be:

Service	Material	Specification
PIPING:		
Refrigerant, including oil, Purger, vent, line (above -10 Deg.C )	Steel pipe (Seamless)	SA106 Gr. B quality Scheduled pipe, heavy duty
Refrigerant piping (for minus 20 Deg C and below)	Steel pipe (seamless)	ASTM A 333 Grade seamless Need to Remove
Evaporative condenser tube	Steel pipe (ERW)	ASTM A-249 WLD -SS 304
Water circulating pipelines cooling water / Chilled water lines (up to 150 NB )	Galvanized steel (ERW) medium duty class B	IS 1239 ( ERW – GI class "B")
Water circulating pipelines Hot water Piping	Steel pipe (ERW)	IS 1239 ( ERW – GI class "C")
Make up water supply, bleeds, drains, defrosting water, etc	Galvanised steel (ERW) medium duty classB	IS 1239 / 3589, Medium duty /GI class B

**NOTE: ALL REFRIGERANT, OIL PIPING, THE CONTRACTOR MUST USE "SEAMLESS HEAVY DUTY CLASS SCHEDULED 80/40 PIPES" AS PER INTERNATIONAL STANDARD DEPENDING ON SIZE OF PIPE, OF SA106 GRADE AS APPLICABLE**

**Valves:** Manually operated isolating valves and check valves shall be of types :

Service	Material	Specification
Refrigerant	Ferrous, globe, lift check.	IS:11132 or relevant ASME/DIN/IIAR standards
Cooling water: Over 75 mm 50mm & Below	CI, butterfly CS ball valve	IS :778, 1703
Water supply, bleeds, and drain	Cast steel ball valve	IS:778
Chilled water –supply and return lines	Butterfly Valve Swing check	IS :778
Defrost water –supply and return	Cast steel ball valve	IS :778

### **Particular Requirements:**

#### **1. Refrigerant suction**

The wet return line shall be laid to fall to the respective "liquid accumulators" (pump separator) wherever a rise in the direction of flow is necessary, it shall be achieved with a "lifting trap" at the low point. Any rise of over 3m shall "include a lifting trap/leg at each 2m interval" branches entering the suction main shall do so only at the top.

The size of the main headers such as suction, wet return and discharge line of high stage and suction and discharge line of low stage shall be selected for operation of all the compressors mentioned in the specification including standby compressor as well as one more compressor of similar capacity proposed to be installed in future in the high/low stage.

#### **2. Refrigerant hot gas**

Shall grade from a high point in the compressor branch down to the condensers. ALL BRANCHES SHALL HAVE TOP ENTRY TO THE MAIN.

#### **3. Liquid drain**

The refrigerant liquid drain system from the condensers to the liquid receiver shall grade down to the liquid receiver. Relative height at which the condenser installation to achieve gravity flow is to be determined by the Supplier.

#### **4. Refrigerant valves**

UNLESS OTHERWISE DIRECTED OR APPROVED, ALL VALVES SHALL BE INSTALLED WITH SPINDLES HORIZONTAL. **Oil drain / purging valves shall be spring loaded, self closing type.**

#### **5. Water supply**

Mains water will be supplied by Purchaser at one point in the Refrigeration Plant room and as described in the Battery Limit. Distribution from this point is the responsibility of the Supplier.

#### **6. Cooling water and chilled water drains**

Drain lines will be installed from the locations to the nearest drain. Connections shall be made to this to receive:

Overflow, Drains including pump wells. Bleed as appropriate, from the cooling and chilled water systems.

#### **7. Flow switches**

In each of the condenser cooling water supply pipelines, provide and install a "flow switch". The make and type of these switches shall be subject to approval.

#### **8. Pressure Transmitter**

On the Low Pressure Accumulator Vessel provide and install a modulating pressure transmitter of the type specified and rated for the operating pressure.

#### **9. Compressor head water-cooling**

For each low stage reciprocating compressors, provide and install suitable head cooling water circulation arrangement with pumps, controls, etc as required.

**10. Outdoor piping:** Piping comprising: Refrigerant lines to condensers/ receiver, piping to outdoor IBT, etc

ALL OUTDOOR PIPING SHALL BE MOUNTED AND SUPPORTED ON HOT DIP GALVANISED STRUCTURAL STEEL MEMBERS. DRAWINGS SHALL BE APPROVED.

**11. Insulation**

Pipelines operating below ambient temperature shall be insulated by PUF / Thermocol / Glass wool as Temperature Requirement and aluminum cladded:

**12. Vents**

All refrigerant safety valve vents shall be piped outdoors to a place of safe discharge, and the vent outlet shall be of vermin proof (protected from obstruction).

**13. Galvanization of MS Surfaces**

In case of hot dip galvanization wherever specified in the tender specification, the minimum zinc coating required is 75 to 80 microns uniform thickness all around the surfaces.

In case of spray galvanization wherever specified in the tender specification, the minimum zinc coating required is 120 to 125 microns uniform thickness all around in surfaces.

**14. Welding of refrigerant lines**

For all refrigerant lines, the Supplier must follow the welding procedure based on International Code of Practice. IT IS EXPECTED TO FOLLOW THE PROCEDURE THAT THE FIRST ROUTE RUN TIG WELDING SHALL BE CARRIED OUT BY ARGON ARC WELDING BY FILLING ARGON/NITROGEN GAS INSIDE THE PIPE AND SUBSEQUENT RUNS MAY BE CARRIED OUT BY ARC WELDING PROCESS.

**15. Welding of Vessel**

All the refrigeration vessel in the system such as oil separator, Accumulator , surge Drum must be considered as class I vessel according to IS 2825 or equivalent British or American code and all weld joints must be tested for 100% radiography.

## **SUPPLY OF TOOLS, TACKLES AND MATERIALS**

The Supplier shall, at his own expense, provide all the necessary equipment, tools and tackles, haulage power, consumables necessary for effective execution and completion of the works during erection and commissioning.

## **PROTECTION OF PLANT**

- 1 The Purchaser shall not be responsible or held liable for any damage to person or property consequent upon the use, misuse or failure of any erection tools and equipment used by the Supplier or any of Supplier's sub-suppliers even though such tools and equipment may be furnished, rented or loaned to the Supplier or any of Supplier's sub-suppliers. The acceptance and/or use of any such tools and equipment by the Supplier or Supplier's sub-supplier shall be construed to mean that the Supplier accepts all responsibility for and agrees to indemnify and save the Purchaser from any and all claims for said damages resulting from the said use, misuse or failure of such tools and equipment.

- 2 The Supplier and Supplier's sub-supplier shall be responsible, during the works, for protection of work which has been completed by other Suppliers. Necessary care must be taken to see that no damage to the same is caused by the Supplier's men during the course of execution of the work.
- 3 All other works completed or in progress as well as machinery and equipment that are liable to be damaged by the Supplier's work shall be protected by the Supplier and protection shall remain and be maintained until its removal is directed by the Purchaser.
- 4 The Supplier shall effectively protect from the effects of weather and from damages or defacement and shall cover appropriately, wherever required, all the works for their complete protection.
- 5 The work shall be carried out by the Supplier without damage to any work and property adjacent to the area of Supplier's work to whomsoever it may belong and without interference with the operation of existing machines or equipment.

#### **UNLOADING, TRANSPORTATION AND INSPECTION**

- 1 The Supplier shall be required to unload all the Goods from the carriers, received at site after Supplier's team arrives at site. The Supplier shall plan in advance, based on the information received from the Purchaser, Supplier's requirement of various tools, tackles, jacks, cranes, sleepers etc. required to unload the material/equipment promptly and efficiently. The Supplier shall ensure that adequate and all measures necessary to avoid any damage whatsoever to the equipment at the time of unloading are taken. Any demurrage/detention charges incurred due to the delay in unloading the material/equipment and releasing the carriers shall be charged to the Supplier's account.  
  
The Supplier shall be responsible for receipt at site of all Goods and Supplier's equipment delivered for the purposes of the Contract.
- 2 The Supplier shall safely transport/shift the unloaded Goods and equipment to the area to be installed.
- 3 All the Goods received by the Purchaser prior to arrival of the Supplier at site shall be handed over to the Supplier and there upon the Supplier shall inspect the same and

furnish a receipt to the Purchaser. The manner in which the inspection shall be carried out is enumerated below:

- 3.1 The materials/equipment would be carefully unpacked by opening the wooden cases/other modes of packing as the case may be.
- 3.2 Detailed inventory of various items would be prepared clearly listing out the shortages, breakages/damages after checking the contents with respect to the supplier's packing list, the Purchaser's Contract. The Supplier shall also check every equipment for any shortage/shortcoming that may eventually create difficulty at the time of installation or commissioning.
- 3.3 All the information and observations by the Supplier shall be furnished in the form of 'INSPECTION REPORT' to the Purchaser with specific mention / suggestions which in the opinion of the Supplier should be given due consideration and immediate necessary actions, to enable the Purchaser to arrange repair or replacement well in time and avoid delays due to non-availability of equipment and parts at the time of their actual need.
- 4 The protection, safety and security of the Goods so taken over from the Purchaser shall be the responsibility of the Supplier, until they are handed over to the Purchaser after erection, commissioning and testing as per the terms of the Contract.

Mr. D.T. Kalsad  
Deputy Manager

Mr. Sangmesh Mundas  
Manager Engg.

## **TERMS & CONDITIONS OF CONTRACT**

- 1) The Earnest Money Deposit & tender fee should be paid through any of the following online modes of e-payment as mentioned in e-procurement portal.
  - i) Credit Card.
  - ii) Direct Debit (ICICI Bank Account holder)
  - iii) National Electronic Fund Transfer(NEFT)/Real Time Gross Settlement (RTGS).
  - iv) Over-The\_counter (OTC) remittance at *ICICI* Bank designated Branches.

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The Supplier shall, at his own expense, provide all the necessary equipment, tools and tackles, haulage power, consumables necessary for effective execution and completion of the works during erection and commissioning.

## **PROTECTION OF PLANT**

- 1 The Purchaser shall not be responsible or held liable for any damage to person or property consequent upon the use, misuse or failure of any erection tools and equipment used by the Supplier or any of Supplier's sub-suppliers even though such tools and equipment may be furnished, rented or loaned to the Supplier or any of Supplier's sub-suppliers. The acceptance and/or use of any such tools and equipment by the Supplier or Supplier's sub-supplier shall be construed to mean that the Supplier accepts all responsibility for and agrees to indemnify and save the Purchaser from any and all claims for said damages resulting from the said use, misuse or failure of such tools and equipment.
- 2 The Supplier and Supplier's sub-supplier shall be responsible, during the works, for protection of work which has been completed by other Suppliers. Necessary care must be taken to see that no damage to the same is caused by the Supplier's men during the course of execution of the work.
- 3 All other works completed or in progress as well as machinery and equipment that are liable to be damaged by the Supplier's work shall be protected by the Supplier and protection shall remain and be maintained until its removal is directed by the Purchaser.



- 4 The Supplier shall effectively protect from the effects of weather and from damages or defacement and shall cover appropriately, wherever required, all the works for their complete protection.
- 5 The work shall be carried out by the Supplier without damage to any work and property adjacent to the area of Supplier's work to whomsoever it may belong and without interference with the operation of existing machines or equipment.

## **UNLOADING, TRANSPORTATION AND INSPECTION**

- 1 The Supplier shall be required to unload all the Goods from the carriers, received at site after Supplier's team arrives at site. The Supplier shall plan in advance, based on the information received from the Purchaser, Supplier's requirement of various tools, tackles, jacks, cranes, sleepers etc. required to unload the material/equipment promptly and efficiently. The Supplier shall ensure that adequate and all measures necessary to avoid any damage whatsoever to the equipment at the time of unloading are taken. Any demurrage/detention charges incurred due to the delay in unloading the material/equipment and releasing the carriers shall be charged to the Supplier's account.  
The Supplier shall be responsible for receipt at site of all Goods and Supplier's equipment delivered for the purposes of the Contract.
- 2 The Supplier shall safely transport/shift the unloaded Goods and equipment to the area to be installed.
- 3 All the Goods received by the Purchaser prior to arrival of the Supplier at site shall be handed over to the Supplier and there upon the Supplier shall inspect the same and furnish a receipt to the Purchaser. The manner in which the inspection shall be carried out is enumerated below:
  - 3.1 The materials/equipment would be carefully unpacked by opening the wooden cases/other modes of packing as the case may be.
  - 3.2 Detailed inventory of various items would be prepared clearly listing out the shortages, breakages/damages after checking the contents with respect to the supplier's packing list, the Purchaser's Contract. The Supplier shall also check every equipment for any shortage/shortcoming that may eventually create difficulty at the time of installation or commissioning.

- 3.3 All the information and observations by the Supplier shall be furnished in the form of 'INSPECTION REPORT' to the Purchaser with specific mention / suggestions which in the opinion of the Supplier should be given due consideration and immediate necessary actions, to enable the Purchaser to arrange repair or replacement well in time and avoid delays due to non-availability of equipment and parts at the time of their actual need.
- 4 The protection, safety and security of the Goods so taken over from the Purchaser shall be the responsibility of the Supplier, until they are handed over to the Purchaser after erection, commissioning and testing as per the terms of the Contract.
- 5) The successful bidder should supply supporting arrangement required for installation of equipment.
- 6) The successful bidder should arrange for commissioning of equipment with all tools tackles, welding machine, welding rod & consumable gases etc., required for connecting new equipment to the system.
- 7) The equipment shall be run for the period of 30 days after commissioning by the contractor to assess the satisfactory performance.
- 8) The successful bidder should take proper care in installing the equipment, in case of any damages occur to the system, the same would be recovered in bill.
- 9) All necessary controlling devices are supplied and installed by the supplier.
- 10) Whole work supply, erection and successful installation and trial run on turn Key basis only.
- 11) The Erection and successful installation Work and trial run on turn Key basis should be carried out within 60 days from the date of issue of work order.
- 12) **Payment Terms:-**
- a) 50% advance against submission of Bank Guarantee.
  - b) 20% after receipt of the material on site.
  - c) 20% after successful installation and commissioning with trial run for 30 days.
  - d) 10% as security deposit or will be released against performance Bank Guarantee for equal amount for a period of 1 year from the satisfactory trial run.

- 13) Bidder E.M.D. amount will be released after satisfactory completion of work immediately.
- 14) There should be ONE **YEAR Guarantee** from the date of satisfactory Installation and commissioning with trial Run.
- 15) D.M.U. has right to cancel the order if the supplier found poor in progression of work & slow in supply schedules
- 16) The supplier shall pay compensation to workman working under him for any injury cause during the execution of work as **Workmanship Compensation Act** inforce; failing which the amount will be deducted from his bill & paid to the injured workmen.
- 17) As per rules statutory deductions will be made from the supplier bill.
- 18) The **Managing Director Dharwad, Haveri, Gadag & Uttarkannada Dist. Co-Op Milk Union Ltd., Dharwad** reserves the right to cancel the order without assigning any reason.
- 19) All disputes arising out of this work is subject to jurisdiction Law of Court at Dharwad city only.

**Managing Director**