



Bid Number/बोली क्रमांक (बिड संख्या):

GEM/2024/B/5116529

Dated/दिनांक : 15-07-2024

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	12-08-2024 11:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	12-08-2024 11:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	90 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Karnataka
Department Name/विभाग का नाम	Animal Husbandry And Fisheries Department Karnataka
Organisation Name/संगठन का नाम	Karnataka Milk Federation Ltd
Office Name/कार्यालय का नाम	Hassan Co Operative Milk Union Ltd
Total Quantity/कुल मात्रा	50
Item Category/मद केटेगरी	Bulk Milk Cooler Unit (Q4)
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	452 Lakh (s)
OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)	1809 Lakh (s)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट	No
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer

Bid Details/बिड विवरण	
Past Performance/विगत प्रदर्शन	80 %
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	Yes
RA Qualification Rule	H1-Highest Priced Bid Elimination
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	5 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	904500

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
ePBG Percentage(%) / ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months) / ईपीबीजी की अपेक्षित अवधि (महीने).	39

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी :

Manager
HASSAN CO OPERATIVE MILK UNION LTD, Animal Husbandry and Fisheries Department Karnataka, KARNATAKA MILK FEDERATION LTD,
(Manasa Patel D S)

Splitting/विभाजन

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	No
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MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	No
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1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

3. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

4. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 80% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

5. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- i. If number of technically qualified bidders are only 2 or 3.
- ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

Bulk Milk Cooler Unit (50 pieces)

Technical Specifications/तकनीकी विशिष्टियाँ

[* As per GeM Category Specification/जेम केटेगरी विशिष्टि के अनुसार](#)

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
Bulk Milk Cooler Tank	CIP Piping	For Closed type tank facilities for cleaning in place shall be provided which include CIP spray balls & SS piping from balance tank through milk pump to BMC and back to balance tank
	Number of Agitators	1
	Thickness of Inner shell of tank	2.0 (millimeter)
	Certificaton	As Per ISO 5708 Type 2A II (Latest Version) Stndard
	Thickness of Outer shell of tank	1.6 (millimeter)
	Bulk Milk Cooler Tank Rated Capacity	3000, 4000, 5000, 10000 Or higher (liter)
	Number of SS 304 Hooks for Hose Pipe	4
	Tank Type	Closed Type
	CIP Facility	CIP Cleaning by spray balls using pump and balance tank for closed type tanks
	Milk Inlet System	Pump Feed System
	Bulk Milk Cooler Tank Gross Capacity	3300, 4400, 5500, 11000 Or higher (liter)
	Auto CIP System for Bulk Milk Cooling Tank	Pre-Programed Automatic CIP system for claening of Milk Cooling Tank
	Top cover opening limit switch for open type tank	NA
Milk Tank Control Panel	Display Type	LED
Main Contol Panel with Servo Voltage Stabilizer	Phase	Three Phase
	Voltage range	300 to 500 V
Refrigeration Unit	Type of Refrigerant	R22 or CFC free refrigerant
	Number of Compressor	2
Milk Pump	Pump inlet/outlet	38 x 38mm with SMS unions
	Head in mwc	10 MWC
	Flow Rate	10000 LPH
Food grade tanker loading/unloading hose pipe	Size	38.0 (millimeter)
Water Handling System for Bulk Milk Cooler	Piping Material (ISI Marked)	UPVC
	Capacity	0.5 HP, 10 mwc
Hot Water Generator - Heat Recovery Unit	Quantity	1, 2 Or higher

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
Fire Extinguisher	ABC stored pressure type fire extinguisher 1kg each	3
Diesel Generator (DG) Set	DG Set Capacity, kVA	20
	No of Phase	Three Phase
	Alternator IP Rating	IP 23
	IP Rating of Control Panel	IP 53
Data Logging System	UPS	7AH Battery with 8 Hours Backup
	GRID Sensor	LDR based and isolated to protect the reverse current flow.
	Volume Sensor	Pressure Based, EHEDG compliant, Food Grade
	Display	7 Segment LED
	DG Sensor	LDR based
	Temperature Sensor	0-70 Degree Celcius, Housing SS 304
	Compressor Sensor	Current transmitting sensors
	Panel Board	Metal Powder Coated/Height 50CM and Width 50 CM and Inner width 12.5 CM
Installation, commissioning, trial runs and putting the BMCU in operation	Interconnecting piping for the entire plant	SS 304 piping 38 mm diameter, 1.6 mm thick

Additional Specification Parameters - Bulk Milk Cooler Unit (50 pieces)

Specification Parameter Name	Bid Requirement (Allowed Values)
Earthing shall be in the scope of Bidder	Earthing shall be in the scope of Bidder
Data logging system should not be considered	Data logging system should not be considered
AMC for 3 years for Bulk Milk Coolers is Compulsory	AMC for 3 years for Bulk Milk Coolers is Compulsory
Bulk Milk Cooler Tank Rated Capacity will be for 3000 should be considered	Bulk Milk Cooler Tank Rated Capacity will be for 3000 should be considered
Bulk Milk Cooler Tank Gross Capacity will be 3300 should be considered	Bulk Milk Cooler Tank Gross Capacity will be 3300 should be considered

* Bidders offering must also comply with the additional specification parameters mentioned above.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Delivery Schedule/डिलीवरी अनुसूची (In number of days from contract start days/अनुबंध प्रारंभ होने की तारीख से दिनों की संख्या में)		
1	Manasa Patel D S	573201,Hassan Co-operative Milk Union Ltd, B M Road, Industrial Estate, Hassan	Quantity/मात्रा	Delivery to start after/प्रारंभ होने की तारीख से डिलीवरी	Delivery to be completed by/डिलीवरी _____तक पूरी कर ली जाए
			50	60	90

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें**1. Generic**

After award of contract – Successful Bidder shall have to get Detailed Design Drawings approved from buyer before starting fabrication. Successful Bidder shall submit Detailed Design Drawings for Buyer's approval, within 5 days of award of contract. Buyer shall, either approve the drawings or will provide complete list of modification required in the drawings within 5 days. Seller shall be required to ensure supply as per approved Drawings with modifications as communicated by Buyer. If there is delay from buyer side in approval of drawing- the delivery period shall be refixed without LD for the period of delay in approval of Drawing.

2. Generic

Consortium: In case of Contracts, wherein the seller alone does not have necessary expertise, the seller can form consortium with other sellers for submission of the bid, with one of the consortium company as leader. However, each and every member of the consortium shall be equally responsible for the complete execution of the project contract. An undertaking to this effect is to be uploaded with bid.

3. Generic

Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

4. Generic

End User Certificate: Wherever Bidders are insisting for End User Certificate from the Buyer, same shall be provided in Buyer's standard format only.

5. Generic

Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.

6. **Generic**

For hazardous chemical/item, all precautionary measure as per regulation from the point of transportation/ handling/ storage/ safety/ health/ environment to be undertaken/ specified before dispatch. During dispatch, proper symbol for the hazard/ MSDS/ Batch No./ date of manufacturing/ Gross Weight/ Net Weight/ shelf Life etc are to be written/ printed/ pasted on the body of the packing.

7. **Generic**

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

8. **Generic**

IT equipment shall be IPv6 ready from day one.

9. **Generic**

Malicious Code Certificate:

The seller should upload following certificate in the bid:-

(a) This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to :-

- (i) Inhibit the desires and designed function of the equipment.
- (ii) Cause physical damage to the user or equipment during the exploitation.
- (iii) Tap information resident or transient in the equipment/network.

(b) The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.

10. **Generic**

Scope of supply includes Training: Number of employees to be trained

50
, Place for Training
Hassan
and Duration of training
3
days.

11. **Generic**

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

12. **Generic**

The Buyer has an existing set up / inventory of similar products. The offered / supplied product must be compatible with existing system. The bidder has to ensure Compatibility of the supplied items or shall have to include in the supply the necessary hardware / software to make them compatible at no extra cost to the buyer. The details of items with which compatibility is required are as under:

yes

13. **Generic**

The successful bidder has to supply all essential accessories required for the successful installation and commissioning of the goods supplied. Besides standard accessories as per normal industry practice, following accessories must be part of supply and cost should be included in bid price:

Cost to be included

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14. **Generic**

1. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
2. The Seller shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer.
3. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.

15. **Generic**

The seller is required to print logo as per buyer's requirement.

16. **Generic**

Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:

- i) The Seller fails to comply with any material term of the Contract.
- ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
- iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
- iv) The Seller becomes bankrupt or goes into liquidation.
- v) The Seller makes a general assignment for the benefit of creditors.
- vi) A receiver is appointed for any substantial property owned by the Seller.
- vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

17. **Generic**

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

18. **Generic**

WORLD BANK TERMS AND CONDITIONS: Special Terms and Conditions as defined by world bank at [click here](#) will also be applicable. APPLICABLE ONLY IN CASE OF WORLD BANK FUNDED PROJECTS.

19. **Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

20. **Generic**

Manufacturer Authorization: Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

21. **Generic**

Non return of Hard Disk: As per Buyer organization's Security Policy, Faulty Hard Disk of Servers/Desktop Computers/ Laptops etc. will not be returned back to the OEM/supplier against warranty replacement.

22. **Generic**

Products supplied shall be nontoxic and harmless to health. In the case of toxic materials, Material Safety Data Sheet may be furnished along with the material.

23. **Scope of Supply**

Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

24. **Turnover**

Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

25. **Turnover**

OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.

26. **Service & Support**

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

27. **Service & Support**

Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

28. **Service & Support**

Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

29. **Inspection**

Pre-dispatch inspection at Seller premises (Fee/Charges to be borne by the BUYER): Before dispatch, the goods will be inspected by Buyer / Consignee or their Authorized Representative or by Nominated External Inspection Agency (independently or jointly with Buyer or Consignee as decided by the Buyer) at Seller premises (or at designated place for inspection as declared / communicated by the seller) for their compliance to the contract specifications. Fee/Charges taken by the External inspection Agency and any external laboratories testing charges shall be borne by the Buyer. For in-house testing, the Sellers will provide necessary facilities free of cost. Seller shall notify the Buyer through e-mail about readiness of goods for pre-dispatch inspection and Buyer will notify the Seller about the Authorized Representative/ Nominated External Inspection Agency and the date for testing. The goods would be dispatched to consignee only after clearance in pre-dispatch inspection. Consignee's right of rejection as per GTC in respect of the goods finally received at his location shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by Buyer/ Consignee or its Nominated External Inspection Agency prior to the goods' shipment. While bidding, the sellers should take into account 7 days for inspection from the date of email offering the goods for inspection. Any delay in inspection beyond 7 days shall be on the part of the buyer and shall be regularised without Liquidated Damages.

When there is requirement of submission the advance sample, the seller shall inform the buyer promptly

through emails about the date of submission of sample to the buyer nominated Inspection agency.

30. Inspection

Testing of Sample: The testing of advance sample and bulk sample during PDI will be carried at the designated AHSP labs. When testing facilities are not available, the facilities of Govt labs/NABL/Accredited labs will be utilized. The testing charges outside the designated AHSP labs to be borne by seller's.

31. Certificates

To be eligible for award of contract, Bidder / OEM must possess following Certificates / Test Reports on the date of bid opening (to be uploaded with bid):

yes

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32. Certificates

Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer's Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.

33. Certificates

ISO 9001: The bidder or the OEM of the offered products must have ISO 9001 certification.

34. Certificates

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

35. Warranty

Bidder / OEM has to give an undertaking that after expiry of warranty period, it will provide AMC Service for next 3 years for the offered products at the rate not more than 5 % of contract price per annum. Buyer reserves the right to enter into an AMC agreement (covering preventive maintenance and servicing) with the Successful Bidder / OEM after expiry of the Warranty period at rate as mentioned above and the payment for the AMC charges would be made Quarterly after rendering of the AMC Services of the relevant AMC period. Performance Security of the successful bidder shall be forfeited if it fails to accept the AMC contract when called upon by the buyer. The original Performance Security of contract will be returned only after submission and verification of AMC Performance Security for 3% of total AMC value valid up to AMC period plus 2 months (if there is no other claim). (Undertaking of acceptance to be uploaded with bid).

36. Warranty

Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.

37. Warranty

Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 3 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

38. Past Project Experience

The Bidder / OEM {themselves or through reseller(s)}, should have executed project for supply and installation / commissioning of same or similar Category Products during preceding 3 financial years (i.e. current year and three previous financial years) as on opening of bid, as per following criteria:

- (i) Single order of at least 35% of estimated bid value; or
- (ii) Two orders of at least 20% each of estimated bid value; or
- (iii) Three orders of at least 15% each of estimated bid value.

Satisfactory Performance certificate issued by respective Buyer Organization for the above Orders should be uploaded with bid. In case of bunch bids, the Category related to primary product having highest bid value should meet this criterion

39. **Forms of EMD and PBG**

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

Managing Director
payable at
Hassan

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

40. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of

Managing Director
payable at
Hassan

. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

41. **Financial Criteria**

NET WORTH: Net Worth of the OEM should be positive as per the last audited financial statement.

42. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

Technical Specification of Bulk Milk Cooler Unit

Bulk Milk Cooler:-

1. General Description and Scope of Work:-

1.1 The result supply installation and commissioning of bulk milk cooler including all accessories and optional components etc are included in the scope of the work and is to be executed on Turnkey basis the operating condition in villages are hot, humid, dusty and with fluctuating voltages of 130 to 300 volt for single phase and it 300 to 500 volt for a three phase.

1.2 The BMC shall be complete unit with a refrigeration system agitator, lockable inlet and outlet valve and union also included are supply of SS piping and milk hose 10 M long of Food grade quality unions and milk transfer pump, erection materials, pipe supports, floor plates, Pipe Clamps. The Scope includes electrical and control panel and interconnecting cables, cable Conduits, earth pit pipes with removable cover and earthing chambers as required by local electrical regulation and BMC data logger covering all the parameters required by the milk union.

- 1.3 The indicative distance between BMC outlet to milk pump inlet is 3 m, BMC to mains power point and DG set 20 m can be considered for a calculating cable and SS piping requirements, supports etc. However, the exact distance shall be as per site condition. complete piping and cabling actually necessary for installation shall be supplied.
- 1.4 The Bidder's starts from balance tank/ milk pumps and SS piping to inlet of the BMC for receiving the milk (as the case maybe forest specific site). from BMC, the milk Shelby transfer to Road milk tanker (RMT) through SS piping and Food grade quality flexible hose of minimum 10 meter length and milk pump installed at a milk collection centre near BMC.
- 1.5 The suppliers shall quote the reputed make of all bought out components included in the bid, shall be approved by the purchaser before finalization of the contract.
- 1.6 The price of the optional item wherever specified in the enquiry shall be quoted.
- 1.7 The total job is on Turkey basis and includes a supply installation, testing, commissioning, training of the field personnel and providing warranty for period of 18 months from the data Commissioning.

2.0	Bulk Milk Cooler Tank	
SI No	Particulars	Technical Specification
2.1	Standard applicable and cooling time required at 48 deg.C ambient conditions	ISO 5708 Type 2 II(Latest Version) for 2 milk Collection a)Cooling 50% of First milk collection of its rated capacity in 3 hrs from 35 Deg C to 4 Deg C b) Cooling of 10% of Milk Volume after 50% of milk is added from second milk Collection(average temp 10 Deg C to 4 Deg C) in 1 hr 30 Minutes
2.2	Rated Capacity- Liters	2000L/3000L for 2 milk collection
2.3	Gross Capacity Liters	+10% of Rated Capacity-Liters(must be minimum 10% more than rated capacity)
2.4	Material of Construction	AISI 304 (refer 2.08 and 2.9 below)
2.5	Type	<ul style="list-style-type: none"> · Open type for BMC Capacity -2KL · Closed type for BMC capacity -3KL and above

2.6	Tank Evaporator	<p>The tank evaporator plate should have adequate surface area and showing that the milk is cooled in the local ambient conditions of 48 degree Celsius and in the time period as specified above.</p> <ul style="list-style-type: none"> · Laser welded with operating pressure of 30 bars and crash test pressure of 60 bar in case of a rectangular/circular type bulk milk cooler, the evaporator shall be fixed at the bottom plate of the inner tank. · for 2000 and 3000 liter tanks the total evaporative area shall be divided under separated into two sections. Each section shall have separate suction and connecting to each compressor.
2.7	Tank Orientation	<p>The preferred shape of the tank shall be circular/horizontal rectangular with an openable and Lockable top cover up 2000 l capacity.</p> <ul style="list-style-type: none"> · for 3000 Liter BMC, tanks shall be completely closed type in a cylindrical /elliptical orientation with a circular/elliptical dish ends and a manhole of size 450 mm minimum and top with lock cable cover. · the shape of the BMC Tank shall confirm to international Sanitary design.
2.8	Evaporator Plate Thickness	<p>For 2KL BMCUs - 2mm Bottom and 0.8 mm Top</p> <p>For 3KL BMCUs - 2mm Bottom and 0.8 mm Top</p>
2.9	Thickness of inner and Outer shell of Tank	<p>Open Type(2KL) both inner and Outer: 1.6mm</p> <p>Close Type(3KL) inner 2.0mm: 1.6MM</p>
2.10	Agitators	1 OR 2 / Standard /ISO 5708 Type 2 II(Latest Version) Compliance ensuring even distribution of the milk fat when milk is agitated.
SINO	Particulars	Technical Specification
2.11	Ball Feet	AISI 304 adjustable ball feet tamper proof and lockable with 50mm height adjustment. (preferred 4Nos)

2.12	Tank Fitting and Accessories .	<p>Open Type BMC (2KL)</p> <ul style="list-style-type: none"> · Milk inlet opening with SS 304 Lockable Cover · Open Type Tank with Gravity feeding system shall be provided with one AISI 304 Funnel with SS fine Wire Mesh. · All SS Fitting shall be of SMS Standard · Top Cover lifting handle, outlet valve and blank union. · Locking arrangement to be provided for top cover and outlet valve <p>Closed Type BMC (3KL)</p> <ul style="list-style-type: none"> · “No-Foam” Type inlet · Outlet valve with locking arrangements and blank union. · All SS fittings shall be of SMS standard. · Air vent in SS Construction with vermin proof design · Top manhole with locking arrangements. · SS Ladder to be provided for approaching top manhole.
2.13	Type of Insulation	Injected, CFC Free PUF 40 kg /Cu.m.
2.14	Thickness of insulation	40 Kg/Cu.m density, 50 mm (min) in the Walls and 90 mm below the evaporator to allow 1 Deg. C temperature rise at given ambient conditions in 4 hours after milk is brought to 4 Deg.C and when the BMC is not operating.
2.15	Efficiency of insulation	0.019 W-m/k
2.16	Facility to measure milk volume	1 No. Dip Stick of AISI 304 3mm thick on Wall of tank. Calibration accuracy - 0.5%. Laminated & Fanned Calibration Chart. Hooks to be Provided on Both the Sides of the open type tank.
2.17	Product contact surface	2 B Finish
2.18	Weld Surface finish	Min. 150 Grit, all joints minimum 25mm radius Curvature.

2.19	Tank Cleaning Brushes	<p>1 tank cleaning brush and one 1500 mm long pipe cleaning brush.</p> <ul style="list-style-type: none"> · 4 No SS pipe hooks to be provided for 2kl BMC · 6 No SS Pipe hooks for 3kl BMC.
2.20	CIP Facility	<ul style="list-style-type: none"> · Manual CIP cleaning by brush for 2 KL tanks. · Auto CIP with nozzle spray for 3kl tanks. · for open tank all piping circuit including hoses and tank will be cleaned by a circulation of a cleaning solution from balance tank and a back to balance tank. · for closed type tanks facilities for auto CP shall be provided with include nozzles/Spray Balls and SS piping balance tank through milk pump to BMC and a back to back to balance tank.
Sl No	Particulars	Technical Specification
2.21	Top Cover Opening Limit Switch	Required for Open type 2KL BMC
2.22	Milk Tank Control Panel	Required
.1	Wall or Tank mounted	To be specified by bidder
.2	MOC of Panel and thickness	AISI 304 / 1.6mm
.3	Temperature Display	LCD-0 to 100 Deg. C with one decimal accuracy.
.4	Cooling and agitator control	Required- Control for Management of Cooling Control and agitation, Provision for cut-off/ restart, intermittent operation of agitator, auto and manual facility.
.5	Battery backup	Required
.6	RS 232 port for Temperature Sensor	RS 232 connectivity for temperature data transfer shall be provided.
2.23	Refrigeration Control panel	Required
.1	Wall Mounted	Wall mounted

.2	MOC of Panel and Thickness	AISI 304 / 1.6mm
.3	Rating of Contactors	Standard to meet functional requirements of the Refrigeration control Panel
.4	UV/OV Trip Facility	Required
.5	Neutral Protection Unit	Required
.6	Timer On-Delay	Required
.7	Auto/manual Mode (Selector Switch)	Required
2.24	Servo Voltage Stabilizer	Required for Stabilizing the power supply to BMC from grid or DG set
.1	Voltage Range	300 to 500 for 3 Phase BMC
.2	Rating	<ul style="list-style-type: none"> · 15 KVA -3 Phase for 2KL BMC · 20 KVA -3 Phase for 3KL BMC
.3	MOC, thickness and type of structure	MS Powder Coated, 1.6 mm. and Pipe Structure
Sl No	Particulars	Technical Specification
.4	Accessories for 3 phase stabilizer	40 A MCCB for incoming, 40A phase selector, change over and bypass switch, LED lamps, server controlled correction Transformer, digital VIF indicator for input and output 63A terminal blocks, OV/UV trip with delay time single phase preventer, static type energy meter with a 10 - 60A capacity brass metal glands MCB's (TPN 40A- 02 no's, TPN 32A-1 no, TPN 16A-1 no), Metallic pump sockets, Servo Motors.
.5	Operating features	Cable Entry from top response time 5 milliseconds, should withstand 150% load on Surge duty, capacity of terminal should be 150% of rated current, Dimmer with CRGO core, separate auto/manual facility, Plug in type control cart for each Phase, correction speed 105 volt per second, efficiency 99.5%
2.25	Domestic Power Distribution Board	Required

.1	Operating Feature	It would get a single Phase cover from Grid Supply directly as well as stabilized power from a main control panel and a feed power for lighting electric geyser/solar water heating system ,testing equipment ,computer and a printer.
.2	Accessories for 2 and 3 kl BMC domestic power distribution board	MS Powder Coated 1.6mm enclosure, 32 DP Change over switch, 32 A DP MCB as incoming, 3 nos 10 MCB SP for lighting , 3 no's 20A MCB SP for geyser/ Solar water heater, AMCU etc.
.4	Accessories for 3 phase stabilizer	40 A MCCB for incoming, 40A phase selector, change over and bypass switch, LED lamps, server controlled correction Transformer, digital VIF indicator for input and output 63A terminal blocks , OV/UV trip with delay time single phase preventer, static type energy meter with a 10 - 60A capacity brass metal glands MCB's (TPN 40A- 02 no's, TPN 32A-1 no, TPN 16A-1 no), Metallic pump sockets, Servo Motors.
.5	Operating Features	Cable Entry from top response time 5 milliseconds ,should with stand 150% load on Surge duty , capacity of terminal should be 150% of rated current, Dimmer with CRGO core, separate auto/manual facility, Plug in type control cart for each Phase, correction speed 105 volt per second, efficiency 99.5%
Sl No	Particulars	Technical Specification
2.26	Domestic Power Distribution Board	Required
.1	Accessories for 2 KL BMC	MS Powder Coated 1.6mm enclosure, 40 A TPN MCB for incoming 32 A TPN MCB for feeding refrigeration panel, 20A TPN MCB for feeding starter of milk pump, 32 A DP MCB for feeding Domestic power DB, 20 A TPN MCB as spare.
.2	Accessories for 3 KL BMC	MS Powder Coated 1.6mm enclosure, 60 A TPN MCB for incoming 40 A TPN MCB for feeding refrigeration panel, 20A TPN MCB for feeding starter of milk pump, 32 A DP MCB for feeding Domestic power DB, 20 A TPN MCB as spare.

2.27	Earthing	<p>As per IS:3043-1987 (reaffirmed 2001)- “ Code of practice for earthing”. Pipe type earthing with funnel at Top-4 No’s to be provided with distance between each pit as per local statutory requirement. Suitable GI Strip (minimum 25X3 mm) to be used for connecting earth pit with nearest equipment earthing point. From this point earthing to other points can be looped by suitable GI Strip or PVC insulated copper conductor cable of green color(size minimum 1x4 Sq.mm)</p> <p>The Scope of work includes excavation for the earth pit construction of suitable chamber, filling with necessary materials (e.g. charcoal and salt) and complete with cover.</p> <p>Supplier will test and demonstrate the resistance as per local EB requirement and furnish record as required.</p>
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3.0 Refrigeration Unit		
Sl No	Description	Specification Requirement
3.1	Standard adopted for conditions of 48 Deg. C	ARI Standard 520-2004 applicable for refrigeration units operation at highest ambient temperature conditions. To facilitate for milk collection of BMC’s operating as per ISO 5708 Type 2 II Standards
Sl No	Description	Specification Requirement
3.2	Design Parameters	0 Dec. C evaporation and applicable discharge temperature at minimum 60 Deg. C condensing temperature
3.3	Type	Direct Expansion
3.4	Type of Refrigerant	Freon 22 or CFC Free refrigerant
3.5	Cooling Capacity of each Compressor	<p>Adequate Capacity to ensure milk cooling periods specified ambient conditions of 48 Deg.C mentioned below.</p> <p>Compressor selected should be compatible for multiple refrigeration including future refrigeration R 407 C</p>
3.6	Number of Compressor	For 2KL to 3KL -Two

3.7	Type of Compressor	Reciprocating hermetically sealed.
3.8	Type of Condenser	Air Cooled. Condensing temperature should not be less than 60 Deg. C
3.9	Condenser Surface area	Design provide substantially adequate condensing area to meet functional requirement of the refrigeration unit in very hot condition.
3.10	Receiver Volume	6 Ltrs minimum
3.11	Condenser Fan	With Internal thermal protection device, enclosure shall be of metal (Plastic Body is not permitted).
3.12	Pump down system	Required
3.13	Protective grill	To Provide removable wire mesh screen in front of condenser fins
3.14	Expansion Valve	Thermo static expansion valve with MOP(minimum operating pressure)
3.15	Drier, Solenoid Valve, Sight	Required for safe and efficient operation of the unit.
3.16	Accessories	<p>Isolation Valves at a suction and discharge side of the compressor all, pipes, valves, fittings and a control shall comply with the latest relevant National International code applicable, copper piping between a BMC and a condensing unit shall be supported/routed by a cable tray and a cable tray supports.</p> <p>condensing unit should be placed on the platform.</p>

4.0 Milk Pump Feeding System for accessories		
SI No	Description	Specification Requirement
4.1	Balance Tank with SS Strainer	The tank and strainer to be fabricated out of 1.6 mm SS304 sheet general arrangements drawings shall be approve by NDDB
4.2	Balance Tank Capacity	Minimum 220 L

4.3	Tank Accessories	<ul style="list-style-type: none"> · Outlet with 38 mm butterfly valve with Expandable Union and adjustable Ball feet (minimum 50 mm vertical). · SS removable cover with handles. · SS trainer made from 1.6 mm thick SS plate with perforated plate having 2mm dia. Holes(removable type). · Outlet to end in cup type for easy draining of milk and CIP solutions.
4.4	SS 304 Milk Pump	Centrifugal in SS Construction
4.5	Flow Rate	<ul style="list-style-type: none"> · 5000 LPH for 2KL BMC and · 10000 LPH for 3KL BMC
4.6	Head in mcw	10 m
4.7	Pump inlet/ outlet	<ul style="list-style-type: none"> · 38/38 mm with SMS unions for 2 KL · 38/51 mm with SMS union for 3 KL
4.8	Pump accessories	<ul style="list-style-type: none"> · Adjustable ball feet (minimum 50 mm). · on spare mechanical seal to be provided. · motor having E/F class insulation and having IP 55 protection. · pump shell have SS shroud. · DOL Starter for operation.
4.9	Food grade tanker loading/unloading hose pipe	<ul style="list-style-type: none"> · Steel wire reinforced food grade non toxic · 10 meters length and size 38mm · With SS cap, Chain and Union

5.0 Water Handling System for BMC		
SI No	Description	Specification Requirement
5.1	Water Pump with	Mono Block for filling the OH tank
5.2	Capacity	0.5 HP, 10 mcw

5.3	Waterline schematic indicating valves/fittings etc	The OH tank to supply water to BMC for Cleaning and Washing
SI No	Description	Specification Requirement
5.4	HDPE water tank 1000 L	The tank shall conform to ISI:12701/96 rational molded polyethylene (hdpe) heavy duty, hygienic construction, closed type with a man hole cleaning and the maintenance.
5.5	Tank Mounting arrangements for water tank	Sturdy structure of MS angle of size 35 X35X5 mm Duly pre treated and a dip galvanized after fabrication or tubular structure with a powder coating could be provided. the mounted tank should have a approach ladder etc., place that convenient height to gravity feed the water to BMCU for a cleaning etc.
5.6	System Interconnecting Piping	Piping for cold water should be of CPVC ISI marked. piping is required between a cold water tank outlet to solar water heater unit and other point BMC areas.

6.0	DG Set	
SI No	Description	Specification Requirement
6.1	General Operating and Design Condition	<p>The DG set shall be of capacity</p> <p>15 KVA three phase water cooled for 2 KL BMC</p> <p>20 KVA Water cooled for 3KL BMC</p> <p>That DG set should be Heavy duty design, industrial type, rated for a continuous operation for the refrigeration system, milk tank agitator and milk dispatch pump, hot water geyser(approx. 2.0 KVA), AMCU, lightings, ceiling fans.</p> <p>The Diesel engine and alternator should be mounted on a specially designed combination based plate and MS structure of a extremely rigid fabrication. the base frame should be suitable for a mounting the set on AVM pads over the foundation.</p>

6.2	Confirmation to regulatory norms for environment and approval from local authorities.	<p>DG set should carry a valid approval certificate issued as per a CPCB norms complying with the provision after Environment (protection) second amendment rules 2002, vide notification number G.S.R 371(E), dated 17th may 2002 and amended by GSR 448 (E) dated 12.07.2004.</p> <ul style="list-style-type: none"> · Also complaint with new CPCB II norms applicable from April 1, 2014 · The exhaust Pipe with exhaust muffler with insertion loss of minimum 24db(A) is connected to the exhaust manifold preferably with flexible bellows.
Sl No	Description	Specification Requirement
		<ul style="list-style-type: none"> · In case the DG set is located within the BMC building, the exhaust pipe with insulation and a cladding of minimum 05 m length Be provided extending the original pipe over the roof of the building to avoid a pollution in the around the location. · supplier should obtain the inspectrate from the electrical inspectrate department.

6.3	Diesel Engine	<ul style="list-style-type: none"> · The diesel engine should be suitable for power generation application type air or water cooled and a capable of developing a required BHP when running a 1500 RPM under NTP conditions. · The engine should be built to IS 10000/ISO 3046/BS 5514/649 and rated for continuous running of 24 hours with an overload capacity of 10% for a period not exceeding 1 hour in any 12 hours running. Diesel engine up to 20 KW should have valid BIS license and certificate clearly mentioning use for general purpose application as per IS 10001 norms. · Engine ratings should be for operation at full load conditions and should be suitable to take 100% block load. · Self starting arrangements with 12V suitable rated heavy-duty Lead Acid Accumulator type battery with solid-state battery charging arrangements and cables. · Standard set of tools. First fill of lubricating oil, first fill of coolant, lubricating oil pressure and temp Gauge. · Control panel of engine with engine safety temperature, V-belt failure low lub oil pressure, low water level in radiator auxiliary failure, air cleaner choke indicator. · Steel Diesel Storage barrel of 200 lit capacity with manual pump.
6.4	Engine Instrument Panel (Mechanical and/or electronic gauges)	Consist of ignition key, Starting push button, Lubricating oil pressure gauge, Temperature gauge for cooling water, Temperature gauge for lubricating Oil, RPM meter (analog type) Battery charging ammeter.

6.5	Alternator	The engine should be closely/ flexible coupled to suitable self excited, self regulated (through an AVR) alternator developing required KVA at 0.8 power factor, 1 Phase /3 phase, 50 cycle /second, 230 volt AC power supply Under NTP conditions when running at 1500 RPM. the alternator should be brushless type, screen protected and their fitted with end shield and ball roller bearings. The alternator shall have 'H' class of insulation. It shall conform to IS 13364(part 1) a99 2 up to 20KVA, IS 13364(part II) 1992 or IS 477 2 of 1992 above 20 KVA
6.6	Control Panel	The diesel generating set to have suitable control panel duly free wired with the following instruments:- One ammeter with a selector switch, One energy meter with a selector switch, Hour meter, one suitable capacity MCCB with a overload and short circuit protection to disconnect a power supply in case load of generating set increases beyond permitted limits. The rupturing capacity of MCCB should not be less than 25KV. One set of indicating lamps and control fuses.

7.0	Installation, Commissioning, Trial runs and putting the BMC in Operation on as turnkey Project:	
Sl No	Description	Specification Requirement

7.1	Installation of BMCU and supporting accessories	<p>The installation work should be carried in the best workman like manner in conformity to the relevant code of practices of BIS standards applicable for a mechanical and electrical installation.</p> <ul style="list-style-type: none"> · Installation of all equipments under interconnecting piping ,including Minor civil work such as a earthing pit and chamber, providing stainless steel pipe supports, SS base plates, clamps, Valves, Union etc. required to secure the equipment and piping to walls and a floors is to be provided. · Supply, laying, connecting, terminating all necessary electrical and the control cable through the cable trays, GI pipes/conduits, cable gland sockets at ends, isolators, junction boxes etc., are included in the scope of the work. · Cable trays and supporting steel members such as galvanized angles/channel/flats shall be used and fixed/Installed at appropriate places to ensure safe installation. · The laying of cables on the floor or under the floor is not permitted except for milk pump. · Copper piping between BMC tank and condensing unit shall be supported / routed by cable tray and cable tray supports.
7.2	Interconnecting Piping for the entire plant	<p>SS 304 piping 38mm dia, 1.6 mm thick</p> <ul style="list-style-type: none"> · Provide and install extended pipe for connecting milk hose for milk tanker loading-unloading.

7.3	Cables and Electrical	<p>Cable between DG set and main panel shall be steel armored. For all electrical cables, suitable water tight cable gland and lugs should be used at ends. Specification for PVC insulated cables (for voltage up to 1100V) part 1 with copper conductor (revised).</p> <p>Flexible electrical connections shall be made only to items normally movable in service, Such flexible shall be PVC insulated copper conductor cable not less than 24/0.20 mm in size (see IS 694 Part1-1964) and earth continuity conductors of PVC insulated copper conductor shall be provided.</p>
7.4	Tool box with required tools	A standard tool box of GI sheet with necessary tools for normal maintenance. It should include Electric Tester, Screw Driver Set, Allen key 3mm and 6mm, pipe Wrench 12" long, Screw Spanner 6", Fix Spanner set 6-27, Gasket for SS unions/Valves-3 sets and extra mechanical seal for pump.
7.5	Operation manuals	2 Sets i.e. one in local language and one in English.
7.6	P and I Drawing for the Complete	Drawing to be provided.
7.7	Commissioning	Supplier shall arrange commissioning and performance trial runs of the bulk milk cooling system ensuring that BMC meets all performance parameters. The supplier shall supply all the consumables except diesel for DG set required during commissioning of the plant. Diesel for commissioning of DG set shall be provided by purchaser. In case of unavailability of Milk, Supplier has to take trial on Water.
7.8	Training	Supplier shall arrange for training of the operating team of DCS for efficient operation and maintenance of the complete system for 3 days.
7.9	Warranty	All equipment(including bought out item) supplied and installed by the contractor shall have a comprehensive warranty of 36 months from date of commissioning.

7.10	After Sales Services for 18 months and placement of Service	Obligation of BMC package supplier for providing After sales Services/Warranty claims for the bought out components supplied with BMC package. Services engineers to be posted by the supplier for effective and timely service after sales.
SINO	Description	Specification Requirement
7.11	Inspection	Client reserves right to inspect all the components of the bulk milk cooling system during fabrication/manufacturing stage, finished stage before dispatch of the equipments. The milk cooling tank shall be checked with dye penetration test for the welding defect, Surface roughness check, water tightness test/ hydraulic test.
7.12	Fire Extinguisher	Supply and install one no, A B C Stored pressure type fire extinguisher of capacity 1kg with each. <ul style="list-style-type: none"> · 2 KL BMC – 2 No's · 3 KL BMC – 3 No's
7.13	Logo	NPDD emblem/engraving provide on the longer side of the BMC facing milk pourers and visitors <ul style="list-style-type: none"> ·

Note:

1. The EIAs shall identify the optimal components from the list given below for efficient and effective operation of BMCU

SINO	Description	Specification Requirement
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8.1	Hot water generation Unit-Heat recovery unit with necessary piping	<p>This system shall be for heating water using heat of the discharge gas of condensing unit of BMC. It shall consist of evaporator type heat recovery Unit. Tank shall be of 200 liter capacity in SS 304, 1.6 mm constructions with suitable insulation and outlet with 25 mm ball valve.</p> <ul style="list-style-type: none"> · Estimated length of the pipe is 10 meter, however to be supplied as per actual requirement. · All controls shall be manual. · Anode Rod should be provided. · The hot water should be available at around 70 Deg. C · For 2 KL tanks HRU is connected with 2 condensing units and for 3 KL tanks HRU is connected with one condensing unit.
8.7	Milk Weigh Bowl Cap:100 Ltr required for 2 and 3 KL BMC	<p>Bowl to be fabricated from 2 mm thick SS 304 sheet with holding capacity of 100 liter with SMS 63 mm BFV at outlet. Bowl to have sufficient slope towards outlet where a special liver operated SS valve complete with gasket and other accessories is fixed. Complete SS bowl to be made using standard procedures for SS fabrication of vessels for handling milk.</p> <p>General Arrangements Drawing- Shall be approved by Milk union</p>
8.8	<p>Weighing Machine</p> <p>Required for 2 and 3 KL BMC</p>	<p>Weighing Mechanism -It should be fully electronic with load cells. The complete mechanism shall be housed in a dust / water proof enclosure and fitted with damping facilities and all other adjustments. An electric heater should be provided to prevent condensation inside the enclosure. Load cell to take care of the impact loading when milk is poured into milk weigh bowl. Considering this, there should be at least two load cells of capacity 1000 kg each.</p>

- Display unit: Weight of milk to be indicated by bright 7 segments LED of 25 mm height, having display resolution of 1/6000 on a table top SS display unit. Accuracy-100 gm. Display unit to have features of tare(up to 50% of machine capacity), weight addition up to 6 digits and cumulative weight through a 8 keys key board. Unit to have calibration facility through software system to be suitable for operation with 230 V, 50 Hz, operating temperature of 0-48 deg. C , operating humidity of maximum 85% RH(non condensing). Unit to have in built battery backup for 20 hours. Unit to have facility for interfacing with a PC for entry/recording of weigh date.
 - Supporting Structure: Hangers should be provided for suspending weigh bowl. The complete weighing machine shall be supported on a rigid bridge type steel structure. The two main legs for supporting structure to be of mild steel with spray painted with a coat of epoxy primer followed by two coats of epoxy paint, all other structure to be of SS 304.
 - Complete weighing system to meet the requirement and approval of Indian weight and measure Department and after installation at site , the supplier to obtain the stamping.
 - Supporting Structure: Hangers should be provided for suspending weigh bowl. The complete weighing machine shall be supported on a rigid bridge type steel structure. The two main legs for supporting structure to be of mild steel with spray painted with a coat of epoxy primer followed by two coats of epoxy paint, all other structure to be of SS 304.
 - Complete weighing system to meet the requirement and approval of Indian weight and measure Department.
- After installation at site, the supplier should obtain the stamping certificate from local weights and measure departments inspector of state government.

Important: Bidders are required to offer reputed make of the components f

or BMCU for approval by the EIAs.

Important Note:

1. All the materials has to get enter dairy stores and then deliver to respective DCS's at supplier cost and risk.
2. Demonstration is required, the supplier will be intimated after technical evaluation and if the bidder fails then this will be considered for evaluation and rejection of technical bid.
3. EMD is compulsion to all the supplier.
4. Payments will be done in a staggered basis according to the staggered supply.
5. Release of payments takes nearly 45 days from the date of each consignment.

HAMUL reserves the right to recover the direct losses and consequential losses if any, arising out of usages of material supplied by the contractor. The recovery of loss could be from both the present pending/future bills of the contractor OR from the EPBG submitted by the contractor.

6. HAMUL reserves the right for premature termination of all or any of the rate contractor and call for fresh tender without thereby incurring any liability to the affected contractor of any obligation to inform the affected contractor on the grounds of HAMUL action.

7. Payment Terms:

(a) 60% of the contract price of the goods (against detailed break up cost to be furnished by the Supplier in advance and accepted by the Purchaser) on receipt of goods at site and after inspection and approval of the Purchaser and after confirmation obtained regarding Payment of GST.

(b) 30% of the contract price of the goods on successful commissioning of the equipment.

(c) The balance shall be paid against bank guarantee issued by any Nationalised bank in India for the same amount for a period of 12 months plus 3 months claim period (total 15 months). OR on continuous satisfactory running of the complete plant for 12 months, on completion

of other contracted services and accepted by the purchaser's representative. OR shall adopt any mutually agreeable payment terms.

8. Forfeiture of Performance security/Security Deposit:

The Performance Security/Security Deposit shall be liable for forfeiture in case of;

The Contractor's failure to Perform Contract as specified;

The termination of contractor by HAMUL for non Performance of Contractor;

Towards recovery of liquidated damages assessed against the contractor;

After award of contract, during inspection, if the contractor is proved not having the infrastructure as declared in technical tender part-1 to produce and supply the quality packing material/consumable /equipments the same shall be treated as breach of contract by the contractor. The contractor shall be liable for cancellation with penalty not less than performance security/security Deposit specified for particular material.

9. Guarantee on Quality of Goods:

9.1 The supplier shall have to guarantee the quality of goods supplied, Strictly as per specification of contract/purchase orders.

9.2 If the Material supplied is found not as per contract/purchase order specification, the material shall be liable for rejection . on intimation from HAMUL, the contractor shall have to arrange replacement material as per specification. If the supplier delays/fails to make arrangement on this alternative arrangement shall be debited to the account of supplier under contractor.

9.3 If supplier fail to make good this loss, the same shall be recoverable from the pending bills or security deposit.

9.4 The Contractor shall not indulge in supplying the rejected/returned materials. If the contractor is found indulging such practice the rate contract shall be liable for cancellation, forfeiture of security deposit and bank listing of firm.

1 **Import License:** No import License will be arranged by HAMUL for any items.

11. **Packing:** The Materials dispatched shall be packed with securely standard, Moisture proof packing, free from casual agents of infections and Parasites etc.

12. **Transportation/Delivery:** The Materials Supplied in full loads shall be delivered on "DOOR DELIVER" basis including Unloading Charges

13. **Inspection & Tests:**

1. Union shall have the right to test the goods to confirm their conformity to the prescribed specifications & also as per your samples.

2. Due to dispute between HAMUL & the Supplier, wherever the goods are referred for testing to third party laboratory, the testing charges shall have to be borne by supplier.

14. **Insurance:**

The goods dispatched under the contract on FOR DESTINATION BASIS shall be fully insured against loss or damage in transit.

The Supplier shall arrange insurance and pay for insurance naming the Hassan Co-Operative Milk Union Ltd., Hassan as the beneficiary.

The Supplier shall provide a copy of insurance policy along with invoice to Hassan Co-Operative Milk Union Ltd., Hassan.

The Supplier shall (a) initiate & pursue the claim till settlement % (b) Promptly make arrangement, irrespective of settlements of claim, by under writes.

15. **Dispute:** The Hassan Co-Operative Milk Union Ltd., Hassan & the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them

under or in the connection with the contract. However the decision of M.D., HAMUL shall be final & binding on Supplier.

- 16. Indemnity:** 16.1 The Contractor shall have to indemnify and also keep indemnified the HAMUL against any or all damages or losses etc., caused to HAMUL/UNITS, arising from any omission or Commission defaults of contractor/supplier. For which HAMUL shall not be responsible in any manner whatsoever.

NOTE:-

- 1. Earthing shall be in the scope of Bidder.**
- 2. Data logging system should not be considered.**
- 3. AMC for 3 years for Bulk Milk Coolers.**
- 4. Bulk milk cooler tank rated capacity will be for 3000 should be considered.**
- 5. Bulk milk cooler tank gross capacity will be for 3300 should be considered.**

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for

[attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)

9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---