

West Bengal Cooperative Milk Producers' Federation Limited

LB-2, Sector-III, Salt Lake City, Kolkata-700 106.

Phone No: (033)23352844/60 **FAX:** (033) 23352896
e-mail: mail@benmilk.com Website: www.benmilk.com

SET OF TENDER DOCUMENTS (ON LINE)

Each set contains:

- 1. NOTICE INVITING e-TENDER**
- 2. CHECK LIST IN PRESCRIBED FORMAT**
- 3. TERMS & CONDITIONS FOR SUBMISSION OF TENDER.**
- 4. APPLICATION FORMAT (Annexure - I)**
- 5. Specification of the item [Homogenizer (2000 LPH) with accessories]**
- 6. AFFIDAVIT [To be furnished in a Twenty Rupees Non-Judicial Stamp Paper duly Certified by Notary Public, (Annexure-II)]**

LAST DATE FOR SUBMISSION OF TENDER(ON LINE): 15.05.2017

Managing Director
West Bengal Co-operative Milk
Producers' Federation Ltd.

The basic rate must be inclusive of transportation up to specified site including safe unloading at site (location of site would be around 200 KM from Kolkata), Packing & Forwarding, Excise (if any), service tax and Installation with commissioning & Trial run of the whole supplied unit at site. VAT/Tax would be mentioned separately (C' form will not be provided).

West Bengal Cooperative Milk Producers' Federation Ltd.
LB-2, Sector-III, Salt Lake City, Kolkata-700 106

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NIT NO.:- WBARD/WBMF/Homogenizer/NIT-01e/10/10(QA)/17-18

Date: 29.04.2017

NOTICE INVITING e-TENDER

For Supply, Installation & Commissioning of Homogenizer having capacity 2000 LPH along with accessories

(Submission of Bid through NIC e- tender portal --- <http://wbtenders.gov.in>)

The Managing Director of West Bengal Co-operative Milk Producers' Federation Ltd., LB-2, Sector-III, Salt Lake City, Kolkata-700106 is going for e-tender for supply, Installation & Commissioning of Homogenizer having capacity 2000 LPH under Dist Milk Union in West Bengal (within 200 KM from Kolkata on an average). E-tenders are invited (on line) from the Homogenizer manufacturers namely *IDMC/APV/TetraPak/GEA/GOMA/MicroTech/Harvest/Smart or Dealer/Agent having direct authorization from the stated manufacturers only.* The manufacturers should have authorized service centre in West Bengal for prompt after-sales service. *Description, Specification and Scope of supply of the equipment is as follows;-*

Technical Specification and scope of supply for Homogenizer having capacity of 2000 LPH

Make: Any of the following Company:-

IDMC/Tetra Pak/APV/GEA/GOMA/MicroTech/Harvest/Smart

Execution	Sanitary Version
Product	Milk
Viscosity	Upto 5 CP at Homogenization temperature
Capacity	2000 Litre per Hour
Homogenizing Pressure	Up to 230 bar peak pressure
Homogenizing Stages	Two stages, 1 st . stage: Max 230 bar, 2 nd . stage Max 50 bar
Machine Model	To be specified by the Bidder
Installed Motor Rating	To be specified by the Bidder
Speed	< 200 RPM (slow speed)
Bore	30 mm (or to be specified by the Bidder)
Stroke	45 mm (or to be specified by the Bidder)
Basic configuration	3 Nos. piston pumps system with pulsation dampers on suction & discharge sides
Lubrication system	Splash lubrication system
CIP	Suitable for CIP Caustic(2%) at 85 Deg C and Nitric acid(2%) at 72 Deg C, Hot water at 95 Deg C

Utility Requirements	Electric Power: Bidder to specify Earthing: Suitable Process quality water: 200 LPH Compressed air: At 5 Bar Inlet product pressure: 2 Bar (Min)
Inlet connection	Union SMS suitable size
Outlet connection	Union SMS suitable size
All O rings and Packing materials	Nitrile or Neoprene

Summary of tech specification of milk Homogenizer:

- Alloy Cast Iron Crankcase for proper surface hardness, strength, grain structure and graphitization to dampen and absorb noise and vibration.
- Plasma Nitride Crank shaft for highest possible surface hardness with tough core.
- Monoblock forged 316L Liquid block design is adopted for easy maintenance & operation.
- Full Stellite Suction and Discharge valves and valve seat ensure constant throughput over operational life of the equipment.
- Homogenizing valves are made of Tungsten carbide material to sustain high abrasion and cavitations.
- Forced lubrication system with oil pressure switch ensures proper lubrication at exact location.
- External oil cooling system provided to avoid any possible contamination and emulsification of oil by water in the crank case.
- Electronic water flow sensor is provided to assure proper flow of cooling water and ensures air supply.
- Starter panel shall be provided near the machine along with all the electrical switchgears and relays. The power and Earthing connections to the main panel are to be made by the supplier. Inter-connecting power & control cables are to be carried out by the supplier. The panel shall have hour meter to record total running hours. It shall have digital ammeter on the front panel.
- Heavy duty structural & sturdy feet to minimize vibration of machine.
- Blower is to be provided to remove hot air inside the cabinet.

Instruments: The following controls, indication and instruments shall be provided on the machine:

- Indication of homogenization pressure with sanitary design diaphragm type pressure gauge of 4 inch dial.
- Sanitary diaphragm type pressure gauge on the product inlet with electrical disconnection for low pressure.
- Indication of air pressure for hydro-pneumatic system for 1st. & 2nd. stage homogenization with pressure gauge.
- Electronic solid stage pressure switch for lubrication oil pressure.

- Lubrication oil pressure gauge.

Operator panel and Instruments: The operator panel is to be provided on front side of the Homogenizer at eye level. The following controls, indication and instruments shall be provided on the machine:

- Indication lamp for product pressure failure.
- Indication lamp for water/air failure.
- Indication lamp for lubricating oil pressure failure.
- Indication lamp for electrical tripping and faults.
- Start, Stop & Reset push buttons with indicating lamp.
- Emergency Stop push button.
- 1st. & 2nd. stage homogenization switches with indicating lamp.
- 1st. & 2nd. stage homogenization pressure regulating knob.

DETAILED SPECIFICATIONS:

Liquid Block: Liquid block is formed from a heat treated single AISI 316L forged block that is checked with ultra sound. This mono-block unit houses suction & discharge valves, pistons, and gaskets in a convenient easy to maintain design layout.

Interchangeable suction & discharge non-return valves are made from full Stellite material having good wear resistance properties for long trouble free operation. Full Stellite lapped valves hold the product efficiently without any leakage thus yielding full designed capacity constantly that does not drop with machine running life.

Pumping pistons in stainless steel AISI 316L are hard chrome coated for long piston & piston gasket life.

Power Block: Power Block is manufactured from alloy cast iron that houses Crankshaft, Connecting rods and Crossheads. The Crankshaft is made from alloy steel that undergoes multi-stage heat treatment and stress relieving. The crankshaft is plasma treated to obtain highest possible surface hardness for a crankshaft that generally finds application in marine & small aircraft engines. Heavy design Connecting rods are used with big-end journal bearing and small-end bushes. The Crosshead shaft is hard chrome plated and ground for better surface finish, longer seal & wiper life.

Homogenization Block: Homogenization blocks are made from forged AISI 316L steel. Homogenization is carried out in two stages. Homogenization pressure is set with turn of a knob from operator panel with the help of hydro-pneumatic pressure booster system.

Homogenizing Head: Homogenizing valve, valve seat and impact rings are made from Tungsten carbide material. Impact ring is of reversible design.

Lubrication system: Forced lubrication system is provided for connecting rod big end journal bearings. The system delivered filtered lubricating oil with pressure at exact locations. This dampens the cyclic force on crank shaft, eliminates vibrations and ensures long trouble and maintenance free life of critical components.

Lubrication pressure is monitored and the machine is stopped with an indication if oil pressure falls below preset value with oil pressure safety switch.

A remote oil level indicator is provided on the front cover for easy visibility.

Lubricating oil is extremely cooled outside the crank case to avoid contamination and emulsification of oil with any possible water leakage that can lead to a major failure. A plate heat exchanger is used for oil cooling where oil pressure is set at a higher value than that of water pressure to avoid any possible contamination. Oil is filtered just before the point of use.

Pulsation Dampeners: SS pulsation dampeners shall be provided on the inlet and outlet of the machine to smoothen the pulsating effect of the homogenization pumps.

Inlet and Outlet Connections: Standard SMS unions shall be provided at the inlet/outlet connections. Inlet and outlet are on the front left side of the machine.

Main Motor : Three phase four pole squirrel cage induction motor in TEFC enclosure. IP 55 Protection, Class "F" insulation of ABB make shall be provided.

Operator Panel: An operator panel is mounted on the machine for operation for operation of the machine. The panel has Start, Stop buttons, push buttons for both 1st and 2nd stage pressure On/Off with homogenization pressure control knobs. Any tripping of machine because of electrical, water/air, oil or product failure is indicated by lamps.

Drive System: Imported unicast gear box is used along with a single long life Multi-Pull Poly-V belt for flap free zero slippage silent and efficient power transmission.

Structural: Machine is supported on heavy design structure.. The machine is covered with AISI 304 covers with the original hairline mill finish. Heavy duty stainless steel articulated feet with anti-vibration pad are used for leveling and vibration dampening. A study centrifugal silent blower is used to remove hot air inside the cabinet. The machine has small foot print and operator panel is located at a convenient level.

Electrical Panel: Powder coated duly wired electrical panel having starters, controls and incoming switch is supplied with the machine. The panel is to be installed near the Homogenizer and interconnecting wiring are to be carried out. Three phase power supply 415 V (+/- 10%) 50 Hz (+/- 5%) with Earthing is to be provided to the panel.

Tools & Spares: 1 set of special tools and spares for commissioning are to be provided with the machine.

Machine Manual: 2 numbers of operation and maintenance manual is to be provided at the time of machine supply.

1. Earnest Money Deposit (EMD): NOT REQUIRED

2. After publication of e-tender in news papers, detailed Specification together with terms & conditions, BOQ (Bill of Quantities) are obtainable from website <http://wbtenders.gov.in> for free of cost. **Submission of tender by the tenderer can be made with the help of DSC (Digital Signature Certificate) in this website (<http://wbtenders.gov.in>)**. Documents regarding e-tender will be viewed in the Departmental website <http://www.benmilk.com> simultaneously.

3. Tenders should be normally be floated in two parts one Technical Bid (BID-A) and other Financial Bid (BID-B).

4. Request for Bid documents/Specification by post will not be entertained.

5. Tender of the above stated equipment must be supported by :

a) **Earnest Money Deposit: NOT REQUIRED. But the Tenderer have to submit Drawing/Layout, Tech Specification, signed NIT copy, credential certificate etc. physically along with brochure of the quoted item to the office of the undersigned at West Bengal Cooperative Milk Producers' Federation Ltd., LB-2, Sector-III, Salt Lake City, Kolkata-700106, through a forwarding letter in a sealed cover super scribing supply & I/C of Homogenizer, mentioning NIT No, on or before 15.05.2017 within 4.00 PM.**

b) VAT Registration Certificate.

c) Professional tax Clearance Certificate along with challan valid up to 31.03.2016.

d) Trade License, PAN card.

e) Documents of turnover and Homogenizer supply during last 3 years.

f) Printed Brochure/Literature of the quoted item

g) Copy of terms & conditions for submission of tender duly digitally signed.

h) Credential certificate in regard to the same equipment.

Documents at (a) to (h) must be submitted (on line) in original. Attested photo-copy will not be considered in on-line submission as valid documents. *Bidder(s) will have to sign the terms & conditions of N.I.T. before execution of agreement, if selected.*

NO TENDER WILL NOT BE ACCEPTED IF THE SAME IS NOT SUPPORTED WITH ALL THE ABOVE DOCUMENTS MENTIONED AT SL. NO. (a) TO (h) IN BID-A IN STATUTORY COVER & NON STATUTORY COVER (ON LINE).

Uniform Basic Rates should be quoted NET in figure inclusive of delivery (upto site), packing, insurance, loading & unloading charges etc for supply of item to the site (situated within 180 KM from Kolkata) at BOQ (Bill of Quantities) in financial Bid (BID-B) **THE OFFERED RATE SHOULD BE VALID FOR AT LEAST 365 DAYS.** Rates of VAT are to be indicated extra, if charged in the separate column of BOQ (Bill of Quantities) in financial cover (BID-B)

Technical proposal (BID-A) should contain statutory & non-statutory document as described above. Financial proposal (BID-B) should contain the following documents in one cover (folder) i.e. Bill of Quantities (BOQ). The bidder is to quote the rate of item on line through computer in the space marked for quoting rate in the BOQ.

Supply & Commissioning is to be completed within 45 days from the date of issue of Work order.

The intending bidders are requested to submit their tender along with prescribed application form in tender portal/online <http://wbtenders.gov.in> **on or before 15.05.2017 up to 4.00 PM.** The software shall make automatic encryption of the Technical as well as Financial Bid and no one shall be allowed to open two Bids prior to the date and time earmarked for opening by the Tendering Authority. After evaluation of Technical Bid, those who qualify their Financial Bid shall be opened. **The technical proposal (BID-A) will be opened on line on 18.05.2017 (onward).** There is no need to be present of

Bidders or authorized representatives in the office of the undersigned at the time of opening of the Technical Proposal (BID-A).

For further information, the bidders are requested to please contact the undersigned.

No Tender will be accepted across the table and no such receipt will be issued thereon.

In the event of any discrepancy between downloaded tender document and master copy of the same available in the office then the latter will be accepted & binding on the bidder. No claim will be entertained.

N.I.T. (*download properly and upload the same digitally Signed*). The rate should be quoted in the B.O.Q. Quoted rate will be encrypted in the B.O.Q. under Financial Bid. In case quoting any rate in any other place, the tender is liable to be summarily rejected. All the tender documents including N.I.T., terms & conditions for submission of tender & B.O.Q. will be the part & parcel of the bid documents.

The undersigned reserves the right to reject any/or all tenders/at any stage without assigning any reason thereof & will not bound to accept lowest tender. No Tender will be accepted across the table/tender box/by post or otherwise.

*Managing Director
West Bengal Cooperative Milk
Producers' Federation Ltd.*

West Bengal Cooperative Milk Producers' Federation Ltd.
LB-2, Sector-III, Salt Lake City, Kolkata-700 106

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Terms & Conditions for on-line submission of e-tender for supply and I/C of Homogenizer 2000 LPH with accessories. NIT No. WBARD/WBMF/Homogenizer/NIT-01e/10/10(QA)/17-18 dated: 29.05.2017.

1. GENERAL INSTRUCTION TO BIDDER

In the event of e-filing, intending bidder may download the tender documents free of cost from the Website: <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate

1. General guidance for e-Tendering: Instructions / Guidelines for electronic submission of the tenders have been annexed for assisting the bidders to participate in e-Tendering.

i) Registration of bidders: Any bidder willing to take part in the process of e-Tendering will have to be registered with the Govt. e-Procurement System, through the Website <http://wbtenders.gov.in> after obtaining DSC (Digital Signature Certificate).

ii) Digital Signature certificate (DSC): Each bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the Govt. of India on payment of requisite amount.

iii) Tender Fees : Tender documents may be downloaded free of cost.

2. ELIGIBILITY FOR QUOTING:

On line tender invited from the Manufacturers of Homogenizer namely IDMC/ APV/ Tetra Pak/ GEA/GOMA/MicroTech/Harvest/Smart or Dealer/Agent having direct authorization from the stated manufacturers only.

SUBMISSION OF BIDS:

Tender should normally be floated in two parts one technical Bid & financial Bid .Both technical bid & financial bid are to be submitted concurrently duly digitally signed in the website <http://wbtenders.gov.in>. All papers must be submitted in English Language.

Technical bid proposals are to be documented in TECHNICAL COVER. Rate is to be quoted in BOQ (Bill of Quantities) in FINANCIAL COVER. After evaluation of the Technical bid, those who qualify their financial Bid shall be opened. The decision of the 'Tender Committee' will be final and absolute in this respect.

3. EARNEST MONEY: NOT APPLICABLE.

4. TIME SCHEDULE FOR THE E-TENDER:

The time schedule for obtaining the BID documents, registration with tendering authorities, submission of bid & other documents etc .will be as per the list provided in clause no 20 as given below.

5.SUBMISSION OF THE TENDER: The tender is to be submitted in a two Bid System:-One **Technical Bid & other Financial Bid** .The documents will get encrypted (transformed into non readable formats)

A.TECHNICAL PROPOSAL: BID – A

- **STATUTORY COVER** containing the following documents:
 - **“BID–A”: PART I (SINGLE FILE MULTIPLE PAGES SCANNED):**

1	Check List in the prescribed format
2	Application in the prescribed format given in Annexure I
3	Authorization letter of signatory from Company in case of authorized agency.
4	Copy of NIT and terms & conditions duly digitally signed.

PART – 2 (NON-STATUTORY COVER)containing the following documents:

Sl. No	Category	Sub Category Description
1.	CERTIFICATES- ✓ All valid up to 31.3.2017. ✓ All certificates are to be furnished in English/Hindi Vernacular ✓ Affidavits are not valid. ✓ Scanned original copy	ii) PAN Card of the authorized signatory. ii) Prof. Tax clearance certificate with challan valid up to 31.3.2017. iii) VAT Registration certificate.
2.	COMPANY DETAILS (valid up to 31stMarch, 2017), scanned original copy	iv) Trade License v) Credential Certificates
3.	DECLARATION 1,2,3 (Scanned original copy)	Technical specification, Manual, Drawings of the quoted item

N.B.:ALL STATUTORY & NON-STATUTORY DOCUMENTS ARE REQUIRED TO BE FURNISHED IN ORIGINAL AS & WHEN ASKED FOR. Neither Photocopy nor cyclostyled literature will be accepted, in case of Brochure.

B.FINANCIAL COVER: BID - B

➤ **BOQ:**

- ❖ The folder as “Financial Bid” shall contain

a)BASIC RATE of the item as per the mentioned Specification including Excise Duty (if any) incidental charges, service tax, Delivery/Transportation Charges (F.O.R. destination including unloading), installation & Commissioning , cabling, accessories, packing, insurance, and exclusive of VAT, to be quoted in the bill of quantities (BOQ) for supply to the specific sites (within 200 KM from Kolkata).

b)Amount of excise Duty to be included in the base rate in BOQ columns

c)Rates of VAT in terms of percentage (if leviable extra) to be quoted in separate column of Bill of Quantities (BOQ).

d)‘C’ form will not be issued but ‘e-Waybill’ will be submitted for other States Firms at the time of delivery.

- ❖ Hard copies of Bid -A should be submitted physically to the Office at LB-2, Sector-III, Salt Lake City, Kolkata-700106 as per scheduled date & time more clearly described in the time

programme under sealed cover before opening of Technical Bid (BID-A) through a forwarding letter in a sealed cover superscribing *e-tender for supply & I/C of Mentioned items* on or before 15.05.2017 at 4.00 PM.

- ❖ **SUBMISSION OF HARD COPY OF FINANCIAL COVER (BID-B) IS TOTALLY PROHIBITED AND ONLY BE SUBMITTED THROUGH ON LINE E- TENDER PORTAL.**

6.EVALUATION OF TENDERS:

During the tender Evaluation Process, the **Technical proposal** (BID-A) will be opened first. Those bidders who have qualified the Technical proposals described in BID-A containing Statutory & Non-Statutory documents in Part-I & Part-II will be identified and only their Financial Cover (BID-B) shall be opened. The Financial Cover (BID-B) will not be opened and will be summarily rejected if that Bidder will fail to meet the technical requirements participating in the tender. The bidder offering the item found suitable & as being as per the tender specification will only be selected.

Technical Evaluation of the Tender will be held on two parts, i.e., **opening & evaluation of tender.**

Opening of the Technical Proposal:

- Technical proposal will be opened by the authorized officers of the undersigned, electronically from the website using their Digital Signature Certificate (DSC).
- Cover (folder) for Statutory Documents and non-statutory documents will be opened. If there is any deficiency in the Statutory Documents the tender will summarily be rejected.
- Decrypted (transformed into readable formats) documents of the Statutory & Non-Statutory Cover will be downloaded and handed over to the Tender Evaluation Committee.
- Summarily list of technically qualified tenderers will be uploaded online.
- Pursuant to scrutiny & decision of the Tender Evaluation Committee the summary list of eligible Bidders will be uploaded in the web portals.
- During evaluation the committee may summon of the Bidders and seek clarification/information or additional documents or original hard copy of any of the documents already submitted and if these are not produced within the stipulated time frame, their proposals will be liable for rejection.

The **Financial Cover (BID-B)** of those bidders passing the technical requirements will only be opened.

THE DECISION OF UNDERSIGNED/TENDER COMMITTEE WILL BE FINAL BINDING & ABSOLUTE IN THIS RESPECT.

7. TENDER PRE- REQUISITES

- a) Original Trade License, PAN card, VAT Registration Certificate, Professional tax Paid Challan Clearance certificate, Exemption Certificate (all valid up to 31.03.2017), documents of number of Homogenizer supply and turn over of company are required to be furnished along with the tender (on line)
- b) In no case, Affidavit of Trade License / VAT Registration certificate will be accepted.
- c) Authorized Agencies of the aforesaid Four Homogenizer manufacturers should furnish documentary evidence to that effect along with offer will have to be documented as mentioned in Non-Statutory cover (BID-A).
- d) Legal documents (made on non-judicial Stamp paper worth Rs. 10/-) regarding appointment of agent/Distributor/Suppliers, if manufacturer or bidder wants to supply through Agent/Distributor/Supplier are to be documented on line as mentioned in Statutory cover (BID-A).
- e) Original Trade License, Pan card, VAT Registration Certificate, Prof. Tax Paid Challan Clearance certificate, Exemption Certificate, Brochure of quoted item or any other documents are required to be documented on line and are required to be furnished when called for.
- f) Bidders, if they do not furnish VAT Registration certificate must have to furnish the same at the time of receiving payment against bill otherwise payment, will not be made.
- g) Duly certified copy of English/Hindi version of pre-requisites are to be furnished.
- h) In case the Bidder is exempted from VAT or if he enjoys the benefit of deferment, he must submit documentary evidence to that effect in Non-Statutory cover (BID-A) in place of VAT Registration certificate.
- i) Prescribed Application Form (Annexure-I) duly filled in and signed & affixed with the seal of the firm by indicating full communicating address with PIN Code No. Telephone No/ FAX/ e-mail address/ website Number, mentioning Tender Notification No. & Date and is to be documented on line.

8. RATE

- I) Rate is to be quoted in BOQ (Bill of Quantities) in FINANCIAL COVER-Bid-Bin figures. Only one rate should be quoted as per specification to be purchased.
- II) Rate should be quoted in the tender proposed to be supplied inclusive of all incidental charges such as delivery (up to Site), installation & Commissioning, accessories, loading, un-loading, cost of transportation, Insurance, etc.
- III) Rate is to be quoted for item as per the specification given.
- IV) Rate shall be valid throughout the period to be covered by the contract to be executed with successful bidders along with any extensions as may be made by the competent authority from time to time.
- V) Rate quoted which are not as per specification mentioned in the Tender documents will not be accepted.
- VI) Under no circumstances enhance of rate whatsoever will be accepted after closing of online bid submission, whatever the reasons given thereafter except for any tax imposed by the Government. Attested photocopy of Govt. Order in this respect is to be submitted while claiming such increase. If there is no Excise Duty whatsoever, after submission of tender, it will not be allowed.
- VII) Abnormally LOW RATE of the item quoted by the Tendering Firm in the offer with some malafide intention will not be accepted, if detected.
- VIII) Excise Duty when leviable should be indicated in terms of amount per unit only and Govt. of India's Notification No. with date and percentage of Excise Duty imposed should be mentioned for information & scrutiny in remarks column. Any increase in Excise Duty after submission of tender will not be accepted/ allowed unless such Excise Duty is mentioned separately.

9. VALIDITY:

- (i) Rate quoted shall hold good for 365 days, from the date of approval of rate by the Tendering Authority and/or any extended period, if situation arises and within the validity period, Bidders must be supplied at the approved rate and refusal to supply will be dealt with as per Tender Rule.
- (ii) The validity period of rate may further be extended /curtailed at the discretion of the undersigned/Tender Committee at the time of finalization of tender or after expiry of the period of validity.
- (iii) Any addendum/ corrigendum / Extension of validity period will be notified at our departmental Web-Site www.benmilk.com as it is not possible to inform any individual.

10. Inspection:

Inspection of materials may be undertaken at the supplier's premises whenever necessary by the Tendering Authority/ any officer authorized by the undersigned.

11. AFTER SALE SERVICE:

The Bidders should have local arrangement (within West Bengal) as mentioned earlier for 'prompt after sale service' of the installed unit as and when required within warranty period free of cost. The service must be attended within 48 hours from the receipt of the information.

12. WARRANTY:

Warranty period shall be either twelve months from the date of Commissioning of the installed unit or eighteen months from the date of supply of the unit with all accessories.

13. SECURITY MONEY DEPOSIT

- a) The successful bidder will have to deposit Security Money @ 2% of total work order value through Demand Draft on any Nationalized Bank in favor of West Bengal Cooperative Milk Producers' Federation Ltd. A/c. : _____ (Name of the Bidder/Firm) within 10 (Ten) working days from the date of issue of Work order failing which the order will be cancelled and no further correspondence entertained.
- b) Security money will be refunded after satisfactory completion of supply, Installation & Commissioning with trial-run of whole unit.

14. SUPPLY/INSTALLATION/COMMISSIONING:

Supply, installation & commissioning of the ordered item with all accessories must be completed within 45 (Forty five) days from the date of order. Trial – run of the whole unit will be done in presence of Federation/Union's authorized personnel. Trial run report will be submitted duly signed by the authorized personnel.

IT IS OBLIGATORY FOR THE BIDDER TO NOTE THAT FAILURE TO MAINTAIN DELIVERY & I/C SCHEDULE OF ORDERED ITEM WILL LEAD TO SEVERE DISLOCATION IN CARRYING OUT PUBLIC SERVICE FOR WHICH SUCCESSFUL BIDDER WILL BE HELD RESPONSIBLE & ACTION WILL BE TAKEN STRICTLY AS PER TENDER RULES LAID DOWN HEREIN WITHOUT ANY PREJUDICE ANY SHORT OF PLEA WILL BE CONSIDERED, SAVE & EXCEPT ANY INCIDENT OCCURRED 'BY ACT OF GOD' OR NON READINESS OF SITE BY ANY MEANS MAY BE CONSIDERED ONLY.

Training of Operation & Maintenance to the operator will have to be imparted free of cost at the time of Commissioning & Trial-run.

15. PENAL MEASURE:

- 1) The Liquidated Damages be imposed for the delayed supply /erection and commissioning at 0.5% per day.
- 2) Time being the essence of contract no variation shall be permitted in the delivery time as prescribed in the delivery schedule. If the bidder fails to supply and execute the work in full or part of the order as per the delivery schedule, the West Bengal Milk Federation (WBMF) shall reserve the right to cancel the order besides forfeiture of Security Deposit.
- 3) The variation in the statutory levies and taxes by State Government /Central Government shall be effected on the end price to the benefit of either the bidder or the WBMF as the case may be.
- 4) For violation of any of the terms and conditions of the contract, the WBMF reserves the right to terminate the contract, with or without notice as applicable.
- 5) On termination of contract, the Security Deposit is liable to be forfeited and any of the resultant loss beyond Security Deposit will be recovered from the contractor by legal means apart from forfeiture of any amount due to the contractor.
- 6) (a). If the bidder defaulted in any of the previous tenders to execute agreement or to pay Security Deposit or to supply ordered quantity either in part or full will not be eligible from participating in this tender.
(b). If the successful bidder defaulted to execute agreement or to pay Security Deposit or to supply ordered quantity either in part or full shall be debarred from participating in this subsequent tender for a period of 3 years.
- 7) In consequence of submission of false or fabricated documents or any deviation in technical specification by any firm/company, if proved later on shall liable to be Black Listed for 3 (three) years.

16) 'C' Form will not be issued by the WBMF to avail the concession in the Central Sales Tax (CST).

17. AGREEMENT

If the contractor fails to execute the contract satisfactorily at the tendered rate, the security deposit will be forfeited by the Federation.

If the Union/Society incurs any loss / additional expenditure due to the negligence of the contractor in connection with the work during the period of contract, the same shall be recovered together with all charges and expenses from the contractor.

The breakages or damages, if any, caused by the contractor to the property of the Union/Society, the cost will be recovered from the contractor.

18. PAYMENT

a) Tax Invoice against all supplies is/are to be sent in **TRIPPLICATE** and should invariably be submitted along with supply documents (Challan, e-waybill, biltyetc).

b) 30% advance Payment shall be made on receipt of Bank Guarantee of equivalent amount along with work order. 30% will be released on receipt of acknowledged copy of challan/Invoice etc. of the Whole unit in good condition at specified site. 30% payment will be released after successful Installation, Commissioning & Trial-run of the whole unit duly certified by the official of Federation/Union. Balance 10% will be released on submission of Performance Bank Guarantee of equivalent amount for one year from the date of commissioning. The payment shall be with held, in case of violation of any tender terms & conditions.

19. MISCELLANEOUS:

- i) Tender pre-requisites such as Trade License, etc., will not be accepted after scheduled date & time.
- ii) Conditional Tenders & Tenders not accompanied with the documents as mentioned in clause shall be summarily rejected without any reference made to the bidder and no correspondence will be entertained. Moreover, the bidder will have to quote all the items mentioned in the BOQ in full, no partial bidding will be entertained and summarily rejected.
- iii) If the submission and opening of tender is not possible on the scheduled date & time due to any unavoidable circumstances, the same will be done on immediate next working day at the same time prescribed in the tender. The bidder shall not be informed separately in this regard.
- iv) The offer may go to the next bidder, if the successful bidder fails to perform the contract.
- v) No negotiation/enquiry/subsequent representation regarding rate/quantity/quality or otherwise will be entertained after closing of Bid submission (on line) Tender.
- vi) No Import License, any sort of permit, etc. in respect of any item will be provided from this Office and the Tendering Firm should have relied on their own resources.
- vii) **The undersigned reserved the right to reject any or all of the tenders at any stage without assigning any reason thereof and will not be bound to accept the Lowest Tender Rate.**
- viii) Any dispute /difference arising out of this Tender will be referred to the sole arbitrator to be appointed by the undersigned and the same will be held at Kolkata. Arbitrator will have the power to pass interim order and will be guided by the Arbitration & Conciliation Act, 1996.
- ix) When a Tendering Firm submitted their tender in response to this Notification, they will be deemed to have understood fully the contents, the requirement, term & conditions of this tender. No extra payment will be made on the pretext that the Tendering Firm did not have a clear idea of any particular point. Any offer made in response to this tender when accepted by the Tendering Authority will constitute a contract between the parties.
- x) Non-compliance to any terms & conditions/specification laid herein shall constitute a breach of contract and penalty for non-compliance shall be enforced very rigidly.
- xi) **Firm quoting rates on behalf of its Principal should indicate that it is a DIVISION of the principal firm.**
- xii) All notice intended to be served on the bidder will be deemed to have been duly served, if sent under certificate of posting or Registered post to the address mentioned in the tender or by any other process permissible under civil law.
- xiii) **ALL INSTRUCTIONS GIVEN EITHER IN THE SPECIFICATION OF ITEMS, TENDER NOTICE, TENDER & ORDER FORM ARE BINDING ON THE BIDDER & ARE PART OF TERMS & CONDITIONS.**
- xiv) In the event of delay/non-availability/garbled printout/inconvenience in getting access to the Website for downloading tender documents, the authority will not be held responsible, if there is any discrepancy arises in between printing of downloaded tender documents, the master copy available at the office will be acceptable and intending bidders shall have to abide by.
- xv) Any addendum/ corrigendum / Extension of validity period will be notified at our departmental website www.benmilk.com as it is not possible to inform any individual.
- xvi) **The bidder shall provide Raw material test certificates, Manufacturer Test Certificates and arrange to provide instrument for identification of material to confirm as per technical specification during the inspection. Detailed evaluation done based on the Documents / Records / Evidences/ Certificates produced by the Applicant in the Technical Bid.**

xvii) INFORMATION REGARDING CURRENT LITIGATION / DEBARRING /EXPELLING OFAPPLICANT OR ABANDONMENT OF WORK BY THEAPPLICANT

- 1.(a) Is the Applicant currently involved in any Arbitration /litigation relating to any contract works ?
Yes/No (b) If Yes, Details thereon
2. (a) Has the Applicant or any of its constituent partners ever been Debarred/Expelled by any agency ?
(b) If yes, Details thereon
3. (a) Has the Applicant or any of its constituent Partners failed to complete, any contract work during the past ? Yes/No (b) If yes, give details thereon

20. DATES & INFORMATION:

Sl. No.	Particulars	Date, Time & Venue
1.	Date of Publishing of N.I.T. & other Documents (online)	29.04.2017 (2.00 PM)
2.	Starting Date of Downloading Documents (Online)	29.04.2017 (3.00 PM)
3.	Bid submission (Starting) date (On line)	30.04.2017 (10.00 AM onwards)
6.	Date of hosting of documents at departmental Website(www.benmilk.com)	29.04.2017
7.	Last Date, time & venue of submission of copies of signed NIT, Drawings/Layout, Tech Specification, Credentials etc(off line)along with brochure in the sealed cover.	15.05.2017 Up to 4.00PM at Milk Federation Office, LB-2, Sector-III, Salt Lake, Kol-106.
8.	Bid Submission closing (On line)	15.05.2017 at 4.00 PM
9.	Bid opening date for Technical Proposals (Online)	18.05.2017 at 11.00 AM onwards
10.	Date of uploading list for Technically Qualified Bidder(online)	Shall be declared later
12.	Date for opening of Financial Proposal (Online)	Shall be declared later
13.	Date of uploading of successful Bidder along with the approved rate	Shall be declared later

21. MANAGING DIRECTOR, MILK FEDERATION RESERVES THE RIGHT TO CHANGE THE ABOVE SCHEDULE IN CASE OF ANY EXIGENCIES AFTERPUTTING UP A NOTICE IN THE DEPARTMENTAL WEBSITE & NOTICE BOARD.
22. During the scrutiny, if it comes to the notice to tender inviting authority that the credential or any other paper found incorrect / manufactured/ fabricated , that bidder would not be allowed to participate in the tender and that application will be out rightly rejected without any prejudice.
23. The Tender Selection Committee reserves the right to cancel the N.I.T. due to unavoidable circumstances and no claim in this respect will be entertained.

Sd/-
Managing Director
West Bengal Cooperative Milk Producers, Federation Ltd.

FORMAT FOR CHECK LIST

Information about Bidders

(To be furnished with the Tender)

Serial Number	Description	Particulars		Page No.
		Please \checkmark Mark		
		Yes	No	
1.	Name of the Firm			
2.	Registered Address with PIN code, Phone No., FAX, e-mail, etc.			
3.	Name of the person authorized to enter into & execute Contract Agreement.			
	Item			
4.	Application submitted in Annexure-I			
5.	Authorization Letter of Signatory from Company			
6.	Scanned document of Authorized dealer/distributor certificate and agreement between the manufacturer and the Distributor/Bidder (if applicable)			
7.	Scanned document of PAN Card of the Authorized Signatory.			
8.	Scanned document of VAT Registration Certificate.			
9.	Scanned document of Tax Clearance Certificate /Paid Challan.			
10.	Scanned document of Trade License.			
11.	Scanned document of Terms& Conditions of the tender duly digitally signed of each page.			
12.	Scanned document of Printed Literature/ Brochure/ Booklet /Drawings, Manuals whether enclosed			
13.	Digitally signed Scanned N.I.T. (Notice inviting Tender) duly uploaded			

Signature with seal

Annexure-I

Application Format

(To be furnished in the Company's Official Letter Head Pad with full Address with contact no. Telephone No. FAX No., e-mail id., Website Address)

**To
The Managing Director
West Bengal Co-operative Milk Producers' Federation Ltd.
LB-2, Sector-III, Salt Lake City, Kolkata-700106**

Sub:NIT for Supply, Installation, Commissioning and Trial-run of Homogenizer having capacity 2000 LPH with all accessories

NIT NO. WBARD/WBMF /Homogenizer/NIT-01e/10/10(QA)/17-18 dated: 29.04.2017

Sir,

Having examined the documents published in the NIT, I/We hereby submit all the necessary information and relevant documents for evaluations:

1. That the application is made by me/us on behalf of duly authorized to submit the offer. The authorization letter from the Company is attached with the name of the person authorized to enter into execute the agreement.

2. I/We accept the terms & conditions as laid down in the NIT mentioned above and declare that we shall abide by it for throughout the tender period.

3. I/We are offering rate for the following item/items in the BOQ as per the specification framed by you along with following Technical details:

Technical Specification and scope of supply for Homogenizer having capacity of 2000 LPH

Make: Any of the following Company:-

IDMC/Tetra Pak/APV/GEA/GOMA/MicroTech/Harvest/Smart

Execution	Sanitary Version
Product	Milk
Viscosity	Upto 5 CP at Homogenization temperature
Capacity	2000 Litre per Hour
Homogenizing Pressure	Up to 230 bar peak pressure
Homogenizing Stages	Two stages, 1 st . stage: Max 230 bar, 2 nd . stage Max 50 bar
Machine Model	To be specified by the Bidder
Installed Motor Rating	To be specified by the Bidder
Speed	< 200 RPM (slow speed)
Bore	30 mm (or to be specified by the Bidder)
Stroke	45 mm (or to be specified by the Bidder)

Basic configuration	3 Nos. piston pumps system with pulsation dampers on suction & discharge sides
Lubrication system	Splash lubrication system
CIP	Suitable for CIP Caustic(2%) at 85 Deg C and Nitric acid(2%) at 72 Deg C, Hot water at 95 Deg C

Utility Requirements	Electric Power: Bidder to specify Earthing: Suitable Process quality water: 200 LPH Compressed air: At 5 Bar Inlet product pressure: 2 Bar (Min)
Inlet connection	Union SMS suitable size
Outlet connection	Union SMS suitable size
All O rings and packing materials	Nitrile or Neoprene

Summary of tech specification of milk Homogenizer:

- Alloy Cast Iron Crankcase for proper surface hardness, strength, grain structure and graphitization to dampen and absorb noise and vibration.
- Plasma Nitride Crank shaft for highest possible surface hardness with tough core.
- Mono-block forged 316L Liquid block design is adopted for easy maintenance & operation.
- Full Stellite Suction and Discharge valves and valve seat ensure constant throughput over operational life of the equipment.
- Homogenizing valves are made of Tungsten carbide material to sustain high abrasion and cavitations.
- Forced lubrication system with oil pressure switch ensures proper lubrication at exact location.
- External oil cooling system provided to avoid any possible contamination and emulsification of oil by water in the crank case.
- Electronic water flow sensor is provided to assure proper flow of cooling water and ensures air supply.
- Starter panel shall be provided near the machine along with all the electrical switchgears and relays. The power and Earthing connections to the main panel are to be made by the supplier. Inter-connecting power & control cables are to be carried out by the supplier. The panel shall have hour meter to record total running hours. It shall have digital ammeter on the front panel.
- Heavy duty structural & sturdy feet to minimize vibration of machine.

- Blower is to be provided to remove hot air inside the cabinet.

Instruments: The following controls, indication and instruments shall be provided on the machine:

- Indication of homogenization pressure with sanitary design diaphragm type pressure gauge of 4 inch dial.
- Sanitary diaphragm type pressure gauge on the product inlet with electrical disconnection for low pressure.
- Indication of air pressure for hydro-pneumatic system for 1st. & 2nd. stage homogenization with pressure gauge.
- Electronic solid stage pressure switch for lubrication oil pressure.
- Lubrication oil pressure gauge.

Operator panel and Instruments: The operator panel is to be provided on front side of the Homogenizer at eye level. The following controls, indication and instruments shall be provided on the machine:

- Indication lamp for product pressure failure.
- Indication lamp for water/air failure.
- Indication lamp for lubricating oil pressure failure.
- Indication lamp for electrical tripping and faults.
- Start, Stop & Reset push buttons with indicating lamp.
- Emergency Stop push button.
- 1st. & 2nd. stage homogenization switches with indicating lamp.
- 1st. & 2nd. stage homogenization pressure regulating knob.

DETAILED SPECIFICATIONS:

Liquid Block: Liquid block is formed from a heat treated single AISI 316L forged block that is checked with ultra sound. This mono-block unit houses suction & discharge valves, pistons, and gaskets in a convenient easy to maintain design layout.

Interchangeable suction & discharge non-return valves are made from full Stellite material having good wear resistance properties for long trouble free operation. Full Stellite lapped valves hold the product efficiently without any leakage thus yielding full designed capacity constantly that does not drop with machine running life.

Pumping pistons in stainless steel AISI 316L are hard chrome coated for long piston & piston gasket life.

Power Block: Power Block is manufactured from alloy cast iron that houses Crankshaft, Connecting rods and Crossheads. The Crankshaft is made from alloy steel that undergoes multi-stage heat treatment and stress relieving. The crankshaft is plasma treated to obtain highest possible surface hardness for a crankshaft that generally finds application in marine & small aircraft engines. Heavy design Connecting rods are used with big-end journal bearing and small-end bushes. The Crosshead shaft is hard chrome plated and ground for better surface finish, longer seal & wiper life.

Homogenization Block: Homogenization blocks are made from forged AISI 316L steel. Homogenization is carried out in two stages. Homogenization pressure is set with turn of a knob from operator panel with the help of hydro-pneumatic pressure booster system.

Homogenizing Head: Homogenizing valve, valve seat and impact rings are made from Tungsten carbide material. Impact ring is of reversible design.

Lubrication system: Forced lubrication system is provided for connecting rod big end journal bearings. The system delivered filtered lubricating oil with pressure at exact locations. This dampens the cyclic force on crank shaft, eliminates vibrations and ensures long trouble and maintenance free life of critical components.

Lubrication pressure is monitored and the machine is stopped with an indication if oil pressure falls below preset value with oil pressure safety switch.

A remote oil level indicator is provided on the front cover for easy visibility.

Lubricating oil is extremely cooled outside the crank case to avoid contamination and emulsification of oil with any possible water leakage that can lead to a major failure. A plate heat exchanger is used for oil cooling where oil pressure is set at a higher value than that of water pressure to avoid any possible contamination. Oil is filtered just before the point of use.

Pulsation Dampeners: SS pulsation dampeners shall be provided on the inlet and outlet of the machine to smoothen the pulsating effect of the homogenization pumps.

Inlet and Outlet Connections: Standard SMS unions shall be provided at the inlet/outlet connections. Inlet and outlet are on the front left side of the machine.

Main Motor : Three phase four pole squirrel cage induction motor in TEFC enclosure. IP 55 Protection, Class "F" insulation of ABB/Equivalent make shall be provided.

Operator Panel: An operator panel is mounted on the machine for operation for operation of the machine. The panel has Start, Stop buttons, push buttons for both 1st and 2nd stage pressure

On/Off with homogenization pressure control knobs. Any tripping of machine because of electrical, water/air, oil or product failure is indicated by lamps.

Drive System: Imported unicast gear box is used along with a single long life Multi-Pull Poly-V belt for flap free zero slippage silent and efficient power transmission.

Structural: Machine is supported on heavy design structure.. The machine is covered with AISI 304 covers with the original hairline mill finish. Heavy duty stainless steel articulated feet with anti-vibration pad are used for leveling and vibration dampening. A study centrifugal silent blower is used to remove hot air inside the cabinet. The machine has small foot print and operator panel is located at a convenient level.

Electrical Panel: Powder coated duly wired electrical panel having starters, controls and incoming switch is supplied with the machine. The panel is to be installed near the Homogenizer and interconnecting wiring are to be carried out. Three phase power supply 415 V (+/- 10%),(50 Hz +/- 5%) with Earthing is to be provided to the panel.

Tools & Spares: 1 set of special tools and spares for commissioning shall be provided with the machine.

Machine Manual: 2 numbers of operation and maintenance manual shall be provided at the time of machine supply.

4. We have experience in the similar work since..... years and credential certificates are annexed.

5. I/We understand that the Tender Committee/ Tendering Authority reserves the right to reject any application without assigning any reason.

6. I/We submit an AFFIDAVIT in a Twenty Rupees Non-Judicial Stamp paper duly Certified by Notary Public as per Annexure- II.

Signature & Seal(with date) of the Bidder

Annexure – II

AFFIDAVIT

(To be furnished in a Twenty Rupees Non-Judicial Stamp Paper duly Certified by Notary Public)

- 1). I/We the undersigned solemnly declare that all the statements made in the documents, records etc., attached with this application are true and correct to the best of my/our knowledge.
- 2). I/We the undersigned do hereby certify that neither my/our firm/company nor any of its constituent partners have abandoned any work/works of similar nature and magnitude in India, in the past.
- 3). I/We the undersigned do hereby certify that any of the contracts awarded to me/us has not been terminated rescinded, due to breach of contract on my/our part in the past.
- 4). I/We the undersigned authorize (s) and request any bank / person / firm / corporation / Government Departments to furnish pertinent information deemed necessary and requested by the WBMF to verify the statement made by me/us or to assess my/our competence and general reputation.
- 5). I/We the undersigned, understand(s) that further qualifying information / clarifications on the statement made by me / us may be requested by the WBMF and agree(s) to furnish such information/clarification within SEVEN Days from the date of receipt of such request from the WBMF

Dated Signature of Applicant with Seal:

To be signed by the officer authorized by the Firm/Company to sign on behalf, the Firm/Company with company's seal)

Note: In case of sole proprietary concern, affidavit should be signed only by the sole proprietor.

(Title of the Officer)

(Title of the firm/Company)

(Date)

The above named deponent has understood the contents well and solemnly and sincerely declared and affirmed by the deponent in my presence at.....and signed before me on this day of (Seal).

(Signature of the Notary Public)