TENDER DOCUMENT

FOR SUPPLY, INSTALLATION & COMMISSIONING OF DAIRY EQUIPMENTS

Name of Item: ETP PLANT CAP. 1 LLPD

RAJASTHAN CO-OPERATIVE DAIRY FEDERATION LIMITED
“SARAS SANKUL”, J.L.N. MARG, JAIPUR – 302 017.
Phone No.2702501-508/2710209; Telefax : 2710209/2702537
Website: sarasmilkfed.rajasthan.gov.in; E-mail: rcdfpurchase@yahoo.com
E-mail: pur-rcdf-rj@nic.in
Notice Inviting Tenders

E-tenders are invited from bonafide manufacturers or their authorized suppliers for the supply/S/I/C of following equipments at website http://eproc.rajasthan.gov.in as per details given in the tender documents available therein. The tenders can be submitted up to 5.00 PM on the day preceding the scheduled date of opening of the concerned tender and shall be opened at 11.30 AM on the scheduled date of opening of the concerned tender indicated along side. Requisite tender fee as well as EMD in the form of DD/Pay Order favouring RCDF Ltd., Jaipur and tender processing fees in the form of DD/Pay Order favouring Managing Director, RISL, Jaipur must physically reach this office before 5.00 PM on the day preceding the scheduled date of opening of the concerned tender, failing which the tenders shall not be considered. Tender forms can also be viewed/downloaded from our website www.sarasmilkfed.rajasthan.gov.in and www.sppp.rajasthan.gov.in i.e. SPP Portal. Each item shall be considered as separate and independent and decided accordingly. M.D., RCDF reserves the right to accept or reject any or all tenders in part or full without assigning any reason thereof.

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<th>Total Qty. (In nos.)</th>
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(Signed & sealed by the tenderer in token of acceptance of above)

(RCDF)

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<td>30.06.16</td>
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Note: RC stands for Rate Contract for a period of one year.

General Manager (Purchase)
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**A check list of documents required to be submitted**

(Each Tenderer is required to upload the required documents failing which the tender will become liable for no further consideration/evaluation)

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| 1.      | Whether manufacturer if yes please attach scanned copy of manufacturing licence.  
If no, manufacturer’s authorization form be uploaded as per Section I. | Cover-A |
| 2.      | Submit experience of past performance in works of **similar nature** within the past five years as per Schedule I of Section II. (Attach copies of Purchase Orders & performance certificates). | Cover-A |
| 3.      | Submit details of current works in hand and other contractual commitments, if any, as per Schedule II of Section II. (Attach copies of Purchase Orders). | Cover-A |
| 4.      | Submit Technical Deviation statement form as per Section III. (Where there is no deviation, the statement should be uploaded duly signed with an endorsement indicating “No Deviations”). | Cover-A |
| 5.      | Enclose Manufacturing Trading Account and Balance sheet for last two years. (Summary only) | Cover-A |
| 6.      | Submit copy of IT returns submitted for the previous one year. | Cover-A |
| 7.      | Submit copy of Registration certificate of VAT | Cover-A |
| 8.      | Submit acceptance of tender document and specifications in the enclosed format. | Cover-A |
| 9.      | Submit scanned copy of duly filled Annexure-I (A) in the enclosed format on the firm’s letter head. | Cover-A |
| 10.     | Submit the rate statement in the prescribed format (BOQ) given in the tender. | Cover-B |
| 11.     | Submit a list of recommended spare parts along with their individual prices valid for one year, as per clause 3.2, in PDF format in part two of the bid. | Cover-B |

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF) Jaipur
Eligibility & Qualifications Criterion

1. The bidder shall furnish, as Part-I of its bid, documents establishing the bidder’s eligibility to bid and its qualifications to perform the contract if its bid is accepted. The bidder should also give information in the formats attached to the bid document.

2. The documentary evidence of the bidder’s qualification to perform the contract if its bid is accepted shall establish to the purchaser’s satisfaction:

(a) that in the case of a bidder offering to supply goods under the contract which the bidder did not manufacture or otherwise produce the bidder has been duly authorised by the goods manufacturer or producer to supply the goods. The bid shall include Manufacturers Authorization Form given under Section-I ANNEXURE – I. Offers from other agents, brokers & middlemen shall not be accepted.

(b) that the bidder has the financial, technical and production capability necessary to perform the contract. To this end, all bids submitted shall include the following information under Section – II:

(i) Copies of original documents defining the constitution or legal status, place of registration and principal place of business of the company or firm or partnership etc., may be sought additionally, if required.

(ii) Power of Attorney or a true copy thereof duly attested by a Gazetted Officer in case an authorised representative has signed the bid, may be sought additionally, if required.

(iii) Details of experience and past performance of the bidder (or each party to a joint venture) on works of similar nature within the past five years, and details of current works in hand and other contractual commitments shall be submitted as per Schedule-I ANNEXURE – III and Schedule-II ANNEXURE – IV given in Section-II respectively of this bidding document.

(iv) Reports on financial standing of the bidder such as Manufacturing Trading A/c, balance sheets of the past two years (summary only) and a copy of the income tax return for the previous one year.

(v) Information regarding any current litigation, past debarment / blacklisting in which the bidder is involved is required to be furnished in Annexure-1(A).
(vi) The bidder shall be considered eligible only if the bidder’s annual financial turnover in the same name and style during the last two years shall not be less than the estimated value of the contract quoted value.

(vii) The bidder should be in business of the one of the jobs tendered for a minimum period of two years at the time of bid opening in the same name and style.

3. For the purpose of further establishing the bidders ability to execute this particular contract if required, bidders shall submitted following document, upon being asked:

(a) The bidder in the same name and style shall have completed the one project of similar nature and value not less than 60% of the estimated quoted unit value of the contract, for which the NIT is issued, during the last three years.

4. Bid submitted by a joint venture of two or more firms as partners shall comply with the following requirements:

(a) the bid and in case of a successful bid, the form of agreement shall be signed so as to be legally binding on all the partners;

(b) one of the partners shall be nominated as being incharge and this authorisation shall be evidenced by submitting a power of attorney signed by legally authorised signatories of all the partners, at the time of agreement.

(c) the partner incharge shall be authorised to incur liabilities and received instructions for an on behalf of any and all the partners of the joint venture and the entire execution of the contract including payment shall be done exclusively with the partner incharge;

(d) all the partners of the joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms and a relevant statement to this effect shall be included in the authorisation mentioned (b) above as well as in the form of agreement (in case of the successful bid) and;

(e) a copy of the agreement entered into by the joint venture partners shall be submitted with the agreement;

(f) Experience, resources, men and machinery of each party to the joint venture will be taken into account only to the extent of their participation for performing tasks under the joint venture agreement.

5.1 The bidder shall furnish as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the bidder proposes to supply under the contract.

5.2 The documentary evidence of the goods and services eligibility shall consist of a statement in the price schedule on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.

5.3 The documentary evidence of the goods and services conformity to the bidding documents may be in the form of literature, drawing and data and shall furnish:
   (a) a detailed description of the goods essential technical and performance characteristics;
   (b) a list giving full particulars, including available sources and current prices of all spare parts, special tools etc. necessary for the proper and continuing functioning of the goods for a period of two years, following commencement of the goods use by the purchaser; and
   (c) a statement of deviations and exceptions to the provisions of the technical specifications demonstrating the goods and services substantial responsiveness to those specifications in the form provided under Section-III ANNEXURE – V.

5.4 The bidder should clearly confirm that all the facilities exist for inspection and shall be made available to the inspecting authority.

5.5 Pursuant to Clause-5.3(c) above, the bidder shall note that standards for workmanship, material and equipment, and references to brand names of catalogue numbers designated by the purchaser in its technical specifications are intended to be descriptive only and not restrictive. The bidder may substitute alternative standards, brand names and/or catalogue numbers in its bid, provided that it demonstrates to the purchaser’s satisfaction that the substitutions are substantially equivalent or superior to those designated in the technical specifications.

5.6 The bidder may also be asked to furnish Photo copy of PAN card, if required.

5.7 The bidder may also be asked to furnish Photo copy of VAT registration, if required.

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF)
Jaipur
GENERAL TERMS AND CONDITIONS

1.0. PREFACE

Note:- This tender is an e-tender. Consequently offline submission of tender documents other than Demand Drafts is not allowed. All the terms & conditions may be read and interpreted in this light. Only offline submission of DD’s towards tender fee, tender processing fee & EMD is required. These are required to be sent by post so as to reach the office of General Manager (Purchase), Rajasthan Co-operative Dairy Federation Ltd. “SARAS SANKUL” Jawahar Lal Nehru Marg, Jaipur-302017 by the stipulated date & time.

1.1 The Rajasthan Co-operative Dairy Federation Ltd. invites competitive bids from the bonafide manufacturers, associates of such manufactures and their accredited representatives for the following in adherence to the detailed specifications stipulated in the Schedule of this tender.

1.2 The Managing Director, Rajasthan Co-operative Dairy Federation reserves the right to reject any or all the tenders in full or part thereof, which in his opinion justifies such action without further explanation to the tenderers.

2.0 TENDERING PROCEDURE

IMPORTANT NOTES

1. ALONG WITH THE SAME ALL IN THE DESIRED FORMAT DOCUMENTS THAT ARE REQUIRED TO BE SUBMITTED AS PER ELIGIBILITY & QUALIFICATION CRITERION SHOULD ALSO BE SELF ATTESTED ALONG WITH SEAL OF TENDERER & SHOULD BE SCANNED AND UPLOADED / SUBMITTED IN THE FIRST COVER OF THE TENDER.

2. ON THE BASIS OF THE ABOVE DOCUMENTS THE TENDER SHALL BE TECHNICALLY EXAMINED & ONLY IF FOUND TO BE QUALIFIED TECHNICALLY THEN THE FINANCIAL BIDS OF THE TECHNICALLY QUALIFIED TENDERS WOULD BE OPENED.

3. THE FINANCIAL BIDS ARE REQUIRED TO BE SUBMITTED ONLY IN THE PRESCRIBED PERFORMA IN THE XLS SHEET (BOQ) PROVIDED FOR THE SAME. ANY TAMPERING IN THE SAID BOQ WOULD MAKE THE TENDER LIABLE FOR REJECTION.

4. ALL THINGS REMAINING SAME, THE MANUFACTURER OF EQUIPMENT WOULD BE GIVEN PREFERENCE OVER THE SUPPLIER.

5. DUE FAVOURABLE CONSIDERATION AND PREFERENCE WOULD BE GIVEN TO A MANUFACTURER WHO HAS MANUFACTURED AND SUPPLIED EQUIPMENT OF CAPACITY TENDERED OR OF HIGHER CAPACITY PREFERABLY TO A DAIRY COOPERATIVE OF

(Signed & sealed by the tenderer (RCDF) in token of acceptance of above) Jaipur
REPUTE OPERATING MODERN COMPOSITE MILK PLANT AND SUCH EQUIPMENT SHOULD HAVE SATISFACCTORILY PERFORMED. FOR CRITICAL EQUIPMENTS LIKE MILK PASTEURIZERS, CREAM SEPERATOR, BUTTER CHURN, HOMOGENISER MILK SILOS OF 40KL AND ABOVE CAPACITY ETC. AND AS MAY BE DECIDED BY RCDF, FIRMS WHICH HAVE BEEN SUPPLYING SUCH EQUIPMENTS FOR LAST FIVE YEARS AND WHOSE EQUIPMENTS HAVE SATISFACCTORILY PERFORMED OVER THE AFORESAID PERIODS WILL BE CONSIDERED FOR EVALUATION AND PLACEMENT OF ORDER.

6. EACH ITEM TENDERED IS A SEPARATE TENDER AND SHOULD BE QUOTED ACCORDINGLY.

2.1 The tender form is not required to be submitted at the time of e-bidding. In lieu of the same a acceptance letter accepting the tender in its entirety in the prescribed format enclosed at Annexure-I is required to be submitted on the Company letter head. In addition self attested photocopies of all the documents required for fulfilling the eligibility & qualifications criterion are also required to be scanned and submitted with the e-bid.

2.2 No telegraphic/telephonic/telex/Fax tenders shall be considered. Further the tenderer may please note that the successful tenderer would be required to submit a duly sealed & signed hard copy of the tender form along with the security deposit, agreement etc. upon award of rate contract.

2.3 LEGAL COMPETENCY OF SIGNING THE TENDER
Individual signing the tender or other documents connected with this tender must specify whether he signs as:

a) “Sole Proprietor” of the firm or constituted attorney of such proprietor.

b) The partner of the firm, if it is a partnership firm in which case, he must have authority to refer to arbitration disputes pertaining to business of the partnership either by virtue of the partnership deed or by holding the power of attorney.

c) Constituted attorney of the firm, if it is a Company.

NOTE:

1) In case of (b) above, a copy of the partnership deed or general power of attorney duly attested by a notary public should be furnished or any affidavit on stamp paper of all the partners admitting execution of the partnership deed or the general power of attorney should be furnished.

2) In case of partnership firms, where no authority to refer disputes concerning to the business of the partnership has been conferred on any partner, the tender and all other related documents must be signed by every partner of the firm.

3) A person, signing the tender form or any documents constituting an integral part of the contract, on behalf of another shall be deemed to warranty that he has authority to bind such other and if, on enquiry it appears that the person so signing has no authority to do so, the buyer...
may without prejudice to other civil remedies, terminate the contract and hold the signatory liable for all costs and damages.

2.4 **EARNEST MONEY DEPOSIT**

2.4.1 (a) Earnest money of Rs. 50,000/- must accompany the tender. The earnest money shall be required to be paid by a crossed demand draft in favour of Managing Director, Rajasthan Co-operative Dairy Federation Ltd., drawn on any scheduled or nationalized bank in India, payable at Jaipur. The tenders accompanied by cheques instead of demand draft towards earnest money will not be considered. Earnest money shall have to be paid according to the items offered by tenderer covering the total quantity required for all the projects. Alternatively **EMD can also be furnished in the form of Bank Guarantee of a scheduled bank valid for a minimum period of six months from the date of opening of tender.**

2.4.1 (b) In addition tender processing fees of Rs. 500/- payable by demand draft in favour of Managing Director, RISL (payable at Jaipur and non-refundable) and tender fees of Rs.400/- for each item separately, payable by demand draft in favour of RCDF Ltd., Jaipur (payable at Jaipur and non-refundable) are also required to be submitted along with the tender failing which the tender will be summarily rejected.

2.4.2 Any tender whose tender fee, tender processing fee & EMD as stated above does not reach this office by the stipulated date & time is liable to be summarily rejected. Earnest money of unsuccessful tenderer will be returned within 120 clear / working days from the date of opening of the tender.

2.4.3 No interest shall be paid for the earnest money deposit for the period during which it (the earnest money) lies in deposit with the Rajasthan Co-operative Dairy Federation Ltd.

2.5 The tenderers should state herein the complete address to which the orders, notices and further correspondence pertaining to the tender and agreements are to be sent. Any correspondence made by the RCDF/milk union at the address given herein shall be deemed to have been delivered to the party notwithstanding that such correspondence may not in fact have been delivered. Any change in the address thereafter must be notified to the Managing Director, Rajasthan Co-operative Dairy Federation Ltd., Jaipur and the concerned milk unions and a copy in confirmation of RCDF/milk union having recorded change in address be obtained in writing from RCDF/milk union. In absence of such confirmation the correspondence made on the address given herein shall be valid once the confirmation is issued by RCDF/milk union subsequent correspondence shall be sent to the new notified address.

Address_______________________ Telegraphic Address_______________________________________

Phone No./ ______________________ Mobile no.______________

Fax No._____________________ E-mail _______________

Name of contact Person: _______________________.

2.6 The tenders received shall be opened on the date and time given in the N.I.T. at the Office of the Managing Director, Rajasthan Co-operative Dairy Federation Ltd., Jaipur. The tenderers or their accredited agents will be allowed to be present at the time of opening of the tender.
2.7 Negligence on the part of tenderer in preparing the tender confers no right to withdraw the tender after it has been opened.

2.8 The specifications, conditions, schedules drawing of the tender constitute an integral part of the tender.

2.9 All tenders in which any of the prescribed conditions are not fulfilled or which have been vitiated by errors in calculations totalling, or other discrepancies or which contain overwriting in figures or words or corrections not initialled and dated will be rejected.

2.10 In the place of substantial non-conformity with the specifications or if it contains any inadmissible reservations seen or otherwise, in contravention to the spirit and latter of the tender documents, such tenders shall be summarily rejected.

2.11 The tenderer whose tender is accepted (hereinafter called the supplier/contractor) will be required to furnish security for the due fulfilment of his contract in the form of a bank Demand Draft of 5% of the contracted value (F.O.R. site). This bank Demand Draft of Nationalised / Scheduled Bank drawn in favour of Managing Director, RCDF, Jaipur is to be submitted within a period of 10 to 15 days from the date of placement of Purchase Order. The EMD amount shall be adjusted in the aforesaid security.

The security will be refunded if otherwise found to be qualifying for refund within six months from the date of expiry of contract. No interest will be paid by the RCDF on such security amount. In case of breach of any terms and conditions of the contract or on unsatisfactory performance of the contract the RCDF shall have an absolute right of being compensated through liquidated damages or penalties and the amount of security deposit shall also, in such an event, be liable to forfeiture in full or part for being appropriate towards aforesaid liquidated damages and the decision of MD RCDF shall be final in this regard. If the tenderer fails to deposit the security or to execute the agreement within the period specified, such a failure will be treated as a breach of the terms and conditions of the tender and shall result in the forfeiture of the Earnest Money besides any other action for the default. The expenses of completing & stamping the agreement shall be paid by the tenderer who shall furnish to the RCDF one executed stamped counter part of the agreement free of charge.

In case the contractor/supplier completes it contractual obligations, except for performance of equipment for which 10% amount is deducted/retained while processing payments against supply and / or erection, the security deposit can be refunded at such point of time as may be decided by the Purchase Section at its sole discretion.

All compensation or other sums of money payable by the contractor to Rajasthan Co-operative Dairy Federation Ltd. under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from any sums which may be due or may become due to the contractor by the Rajasthan Co-operative Dairy Federation Ltd. on any account

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in token of acceptance of above) Jaipur
whatever, and in the event of his security deposit being reduced by reason of any such deduction or sale as aforesaid, the contractor shall within ten days thereafter make good in cash endorsed as aforesaid any sum or sums which may have been deducted from or raised by sale of his security deposit or any part thereof.

2.12 No refund of tender fee is claimable for tenders not accepted or Forms returned or tenders not submitted.

2.13 SPECIAL NOTES TO TENDERER

2.14 PRE BID CONFERENCE:
Pre bid conference dates for the equipments are given in the NIT. The tenderers can seek any clarifications in the Pre-bid conference on the tenders they intend to participate in, and so the tenderers are advised to depute their authorised representative to attend the same, without fail.

2.15 After scrutiny of the technical bids, the clarifications, if any, will be obtained from the bidders during the technical discussions. The tenderers are advised to depute their authorised representative for the technical discussions on the date and time as informed by the RCDF. The bids of the tenderers, who fail to depute their representative as above shall be liable for rejection. In case it is necessary to obtain revised prices from the bidders the same shall be done by asking all the concerned bidders to submit the revised price bids in sealed covers, and the earlier price bids will become invalid. In case all the tenderers submit the price bids on the same day after freezing of technical requirements the bids shall be opened on the same day. In case one or more of the eligible tenderers, consequent to technical discussions and technical details frozen, desire to revise their price bid, they can do so on the same day or at the most the next working day of the technical discussions and the bids in such event shall be opened on the next day in the presence of such representative of the tenderers who wish to be present. Normally one representative of participating bidder will be allowed.

3.0 SCOPE OF TENDER.

3.1 Supply:
The suppliers shall supply the material/articles in accordance with specifications stipulated for the article in the tender at ANNEXURE –X.

3.1.1 Erection, Testing & Commissioning:
The tenders shall erect/install the equipment in accordance with the terms and conditions/specifications stipulated in Schedules of the tender.

3.2 Spare Parts:
The tenders shall submit a recommended list of spare parts alongwith the price valid for one year for each items of the equipment which would be reasonable to anticipate as necessary, to enable the equipment to be operated and maintained in a satisfactory manner for a period of 24 calendar month from the date of commissioning.

3.2.1 The cost of spare parts will not be considered in evaluating the tenders.

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF)
Jaipur
3.2.2 The prices thus quoted for the spares should be valid for 12 calendar months from the date of opening of the tender.

4.0 **Price:**

4.0.1 The price should be quoted on the basis of F.O.R. site inclusive all. However, Packing & Forwarding charges, Excise Duty, Sales Tax, Transportation, Insurance, Installation charges, if any may also be explicitly depicted separately. In case this is not followed by the tenderers the Federation will be at liberty to reject the tender or add to the quoted value such amount as it may deem fit to cover packing, forwarding, transit insurance freight etc. as the case may be for evaluation purposes. In the event of acceptance of tender F.O.R. site price payable to the supplier will be the one chosen by Federation for evaluation purposes. The tenderers are therefore advised in their own interest to indicate F.O.R. site price in the tender form given at Annexure-I. The prevailing rates of Sales Tax, general or special duty and other such levies must also be mentioned. The price comparison of bids will be on the basis of landed prices i.e. FOR site price plus Sales Tax, Excise etc. except Octroi.

4.0.2 While quoting, the tenderer are requested to show the following items separately:

(1) The cost of equipment including packing, forwarding charges up to forwarding station.

(2) The freight by road from their warehouse/works to the point of destination/site.

(3) Charges to cover all transit risk as detailed under the Clause No.6 of the tender.

4.0.3 The prices thus quoted by firm, free from all escalations and valid for a period of 120 clear / working days from the closing date of the tender.

4.0.4 **Discount:**

Quantities required of various item are indicated against each head in the list given under NIT of the tender. The prices should be quoted on unit/item basis. The tenderer should also indicate discount quantity on discount offered, if any.

4.0.5 All the tenderers should quote for supply of equipment in fully fabricated and assembled condition.

4.0.6 **Sales Tax/ Entry Tax:**

The Sales Tax, Entry Tax, Surcharge and any other type of taxes prevailing up to date of submission of the rates must be included in the net rate. This however should be shown separately, so that in the event of any subsequent change in these charges by the Government (State or Central), the same will be considered for increase/decrease over the net rates. Wherever possible C/D forms shall be issued to avail concessional rates of the Central/State Tax. The Entry Tax, if applicable, should be included where the supplier belongs to outside Rajasthan and Purchase Order/RAL placed on outside

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in token of acceptance of above)

(RCDF)

Jaipur
Rajasthan. The tenderer must also indicate the details of Sales Tax Registration and the number allotted to them by Sales Tax authorities.

4.0.7 **Octroi:**
Octroi duty, if applicable at the destination shall be paid extra on all dispatches made from the suppliers works/warehouses to the point of destination.

4.0.8 **Excise Duty:**
Excise duty or surcharge prevailing upto the date of submission of the rates must be included in the net rate. This however should be shown separately, so that in the event of any subsequent change in these charges by the Government (State or Central), the same will be considered for increase/decrease over the net rates. However, the increased excise duty due to change in slab on higher turnover shall be payable by the tenderer.

4.0.9 **Service Tax:**
The Service Tax and Surcharge prevailing upto date of submission of the rates must be included in the net rate. This however should be shown separately, so that in the event of any subsequent change in these charges by the Government (State or Central), the same will be considered for increase/decrease over the net rates.

4.0.10 **Unloading charges at site** – For supply order the price should exclude unloading charges. However for installation contract the price must include these charges.

4.0.11 If the price for reasons of change in statutory taxes and duties by Government taking place during the period of bid finalisation or during the normal delivery period envisaged in the Purchase Order/Contract.

5. (a) The material/equipment/machinery offered must be securely packed at the cost of the suppliers to withstand tough handling enroute by road/rail/air. Packing should be provided with protective lining to avoid damage to the surface of the packing and the items packed inside.

(b) **Marking :**
Each package delivered under this tender shall be marked by the suppliers at their own expenses. Such markings shall be distinct and should bear the following:

(i) Name of the supplier.
(ii) Details of the items in the package.
(iii) Weight gross, net and tare.
(iv) Name and address of the consignees as mentioned in the Purchase Order.

Marking shall be carried out with such a material as may be considered necessary as regards quickness of drying, fastness and indelibility.

6.0 **Insurance:-**
The supplier shall arrange insurance coverage, according to the dispatch instructions issued by Rajasthan Co-operative Dairy Federation Ltd., Jaipur and the supplier should cover all dispatches. However, to avoid any complications that may arise at the time of settlement of claims by the underwriters for the transit losses it is proposed that the insurance coverage shall be arranged by the supplier as under:

(Signed & sealed by the tenderer (RCDF)
in token of acceptance of above) Jaipur
(a) The insurance coverage shall have to be arranged commencing from their warehouse/works to the warehouse of the buyer (All Transit risks).
(b) Suppliers are requested to take insurance with any Nationalised Insurance Company.
(c) The cover provided by the insurance shall be in such amount so as to allow complete replacement for any item lost or damaged.

7.0 Guarantee :-
The supply of equipment as well as installation, if entrusted shall have to be carried out by the supplier to the entire satisfaction of the buyer. The supplier shall also guarantee to repair/replace without any extra cost, the items or parts thereof if found defective due to defective design, workmanship or substandard material brought to the attention within 12 calendar months from the date of satisfactory commissioning or within 24 months from the date of receipt of material at site, whichever is earlier. If it is necessary to send the defective equipment or parts thereof for repair/replacement the cost of loading, unloading, repacking and transportation from the site to works and back to site shall have to be borne by the supplier. The guarantee however does not cover any damage resulting from normal wear and tear or improper attendance or mishandling of the equipment by the buyer/his authorised representatives.

The contractor shall have to guarantee the complete installation for satisfactory performance for a minimum period of one year from the date of commissioning of the plant. Any defect arising out of faulty erection/installation or use of substandard material or workmanship shall have to be rectified by the contractor at his own cost.

7.1 Warranty:
All the suppliers shall provide a warranty for a minimum period of 12 calendar months from the date of commissioning of the equipment for the satisfactory performance of the equipment supplied to the designed/rated/installed capacity or any other norms fixed by the buyer. Also, they should provide a warranty for the period as stated above to the effect that supplier shall alone be responsible for all the litigations/disputes/claims and other legal complications that may arise in connection with the patent rights design rights and the rights of ownership of the materials.

7.2 Right to operate & use unsatisfactory material or equipment :-
If after delivery, acceptance and installations and within the guarantee period, the operation of use of materials or equipment proves to be unsatisfactory to the buyer, he shall have the right to continue to operate or use such materials or equipment until rectifications of defect, errors or omissions by repair or by partial replacement can be made without interfering with the buyer’s operation.
8.0 **Technical information required with tenders :-**

8.1 The tenderers have to mention clearly that the specification of the materials tendered are strictly in adherence to the technical specifications stipulated in Schedule. In case of any deviation, the tenderers shall have to mention the same in details.

8.2 Maximum outputs of machines are to be specified for information only.

8.3 Schematic drawings and technical literature of equipment tendered shall have to be furnished.

8.4 Overall dimensions of the various equipment shall have to be mentioned in detail.

8.5 The total weights (in dry and working) of the various equipment/item shall have to be stated clearly.

8.6 The safety interlocks/devices in the equipment shall have to be highlighted.

8.7 The consumptions and services requirements of various equipment shall have to be detailed.

9.0 **Commercial information required with tender :-**

9.1 **Brand Names:**
If the supplier is quoting for spare parts, which is not manufactured by him, but he has obtained the same from another manufacturer then he should state the name of the manufacturer with address, brand name and catalogue number etc. and the spare parts offered should conform to the same performance capability as that of the main item for which it is meant.

9.2 **Terms of Payment :**
Following terms of payment would be applicable to this order subject to supplier/ contractor having furnished security deposit for 5% of the F.O.R. order value for the due fulfilment of this contract in form of cash/DD in accordance with the Clause No.2.11 of the tender document. In case the contractor/supplier completes its contractual obligations before 12 months the cash/DD deposit can be refunded before 12 months at the sole discretion of RCDF before aforesaid period of 12 months.

9.2.1 **For supply of equipment :-**
30% of the ex-works order value (basic cost) shall be paid on acceptance of the order subject to the supplier furnishing a Bank Guarantee valid for 12 calendar months from the date of guarantee for an equivalent amount from a scheduled or Nationalised Bank in the enclosed performa given at Annexure-VIII. The Bank Guarantee can be released by RCDF once the advance is fully recovered /
adjusted. The execution of agreement in the format at Annexure-VII is also a precondition for clearing advance. 
60% (90% in case of the supplier/contractor who has not taken advance) on safe receipt of the equipment ordered at site but not later than 45 days from the date of receipt of the equipment at site.

The 10% of the FOR site value shall be paid within 12 calendar months from the date of commissioning or 24 months from the date of receipt of the same at site, whichever is earlier. However the balance 10% will also be released, if so desired by the supplier, provided the supplier furnishes a Bank Guarantee from a Scheduled or Nationalised Bank for the 10% value valid for a period of 12 calendar months from the date of issue of Bank Guarantee in the Performa enclosed given at ANNEXURE – IX.

9.2.2 For Erection :-
90% on submission of progressive bills duly certified by the authorised representatives/Site Engineer of RCDF and balance 10% within 12 months from satisfactory commissioning of the equipment. However, the balance 10% will also be released, if so desired by the supplier, provided the supplier furnishes a Bank Guarantee from a Scheduled or Nationalised Bank for the 10% value valid for a period of 12 calendar months from the date of issue of Bank Guarantee in the Performa enclosed.

10.0 Delivery :-
(a) The supplier shall deliver the equipment as per delivery schedule mentioned in the Purchase Order. In case of installation & commissioning jobs the work is to be completely finished to the satisfaction of RCDF as per terms and conditions of purchase order.
(b) The delivery time given in the contract is to be adhered to strictly. For this purpose the supplier has to inform RCDF the progress made towards fabrication of the items ordered from time to time during the delivery period. The supplier has to maintain good progress of work during the delivery period so as to deliver the items ordered in time. It is desired that RCDF/ Milk Union is informed of the quantified progress made by the supplier once after 1/3rd of delivery time elapses and again after 2/3rd of delivery time elapses. In case RCDF is not satisfied with regard to the proportionate progress of work as per above, it may presume that the work has not been taken up by the supplier in the right earnest and that RCDF in such a situation will be at liberty to withdraw the work order and forfeit the earnest money as well as security deposit simultaneously, if it so deems fit, after giving fifteen days notice to the party. The tenderer is therefore advised to take note of this important condition. The successful tenderer should therefore take immediate action for execution of agreement and submission of bank guarantee of advance, if desired, within 10 to 15 days of placement of purchase order. It normally takes 30 days to release the advance, subject to submission of B.G. as per our format.

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(RCDF)

in token of acceptance of above)

Jaipur
(c) In case of failure by supplier in making deliveries within the time specified, the Rajasthan Co-operative Dairy Federation Ltd. may procure the materials supplies and services from any other sources and hold the suppliers responsible for any losses occurred thereby. Further the Rajasthan Co-operative Dairy Federation Ltd. reserves the right to terminate the services of such suppliers in such case without assigning any reasons thereof.

(d) In case supplier fails to supply machinery/equipment in delivery period, interest at the rate of 12% per annum will be charged on the advance amount from the date by which delivery fails due to the actual date of supply unless an extension in delivery period is mutually agreed to by the supplier and RCDF.

11.0 Compensation for delay:

Clause 1:
The time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall be reckoned from the 15th day after the date of written order to commence the work as given to the contractor. The work shall throughout the stipulated period of the contract be proceeded with all due diligence, time being deemed to be the essence of the contract on the part of the contractor and the contractor shall pay as compensation an amount equal to two and half percent or such smaller amount as the Managing Director, RCDF Ltd. (whose decision shall be final) may decide on the tendered amount for every 1/4th of the prescribed delivery period that the work remains unfinished after the proper date subject to a maximum of 10% of the net value of each item of the accepted order which remains undelivered or partially delivered e.g.

<table>
<thead>
<tr>
<th>Delay of</th>
<th>Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 day to 1/4th of delivery period</td>
<td>2.5%</td>
</tr>
<tr>
<td>&gt;1/4th but &lt;1/2 of delivery period</td>
<td>5%</td>
</tr>
<tr>
<td>&gt;1/2 but &lt;3/4th of delivery period</td>
<td>7.5%</td>
</tr>
<tr>
<td>&gt;3/4th of delivery period but upto = delivery period</td>
<td>10%</td>
</tr>
<tr>
<td>Maximum deduction on account of delay</td>
<td>10%</td>
</tr>
</tbody>
</table>

If the delivery has not been made the order can be cancelled even after expiry of the delivery period after giving a 15 days notice in writing by RCDF, if it so deems fit without prejudice to any of its rights/ remedies for the breach of contract by the party.

And further to ensure good progress during the execution of work, the contractor shall be bound in all cases in which the time allowed for any work exceeds one month (save door special jobs) to complete 1/8th of the whole of the work before ¼ th of the whole time allowed under the contract has elapsed. The contractor shall further be bound to carry out the work in accordance with the dates and quantities as may be given by RCDF from time to time.

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In case the party is not able to execute the work in time because of any justified reason/ reason beyond his control then the party should give a request in writing before the expiry of stipulated delivery period stating the same along with the justifications and RCDF/Milk Union may grant an extension in the delivery period with/ without penalty, if it so deems fit.

Further in case the delay in the execution of the work is due to non completion of some related work by milk union/ another contractor or due to non supply of road permits in time etc. then that period of delay shall not be counted on account of the party and party shall not be penalized for the same.

Clause 2 :-

The Managing Director, RCDF Ltd. may without prejudice to his right against the contractor in respect of any delay or inferior workmanship or otherwise or any claims for damage in respect of any breaches of the contract and without prejudice to any rights or remedies under any provisions of this contract or otherwise and whether the date for completion has or has not elapsed by notice in writing absolutely determine the contract in any of the following cases :-

(i) If the contractor having been given by the Officer-in-charge or authorised representative, a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or unworkman like manner shall omit to comply with the requirements of such notice for a period of seven days thereafter or if the contractor shall delay or suspend the execution of the work so that either in the judgment of the Officer-in-charge or authorised Engineer (which shall be final and binding) he will be unable to secure completion or he has already failed to complete the work by that date.

(ii) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstance shall arise which entitle the court or creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.

(iii) If the contractor commits breach of any of the terms and conditions of the contract.

(iv) If the contractor commits any acts mentioned in clause 19 hereof.

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When the contractor has made himself liable for action under any of the cases aforesaid, the Managing Director, Rajasthan Co-operative Dairy Federation Ltd. shall have powers :-

(a) to determine or rescind the contract as aforesaid (of which termination or rescission notice in writing to the contractor under the hand of the Managing Director, RCDF Ltd. shall be conclusive evidence). Upon such determination or rescission the full security deposit of the contractor calculated on the tendered amount shall be liable to be forfeited and shall absolutely be at the disposal of Rajasthan Co-operative Dairy Federation Ltd.

(b) to employ labour paid by the Federation and to supply materials to carry out the work or any part of the work debiting the contractor with the cost of the labour and the price of the materials (of the amount of which cost and price certified by the Officer-in-charge shall be final and conclusive) and crediting him with the value of the work done in all respects in the same manner and at the same rates as if it has been carried out by the contractor under the terms of his contract. The certificate of the Officer-in-charge as to the value of work done shall be final and conclusive against the contractor provided always that action under the sub-clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the Federation are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.

(c) after giving notice to the contractors on measure up the work of the contractor and to take such part thereof as shall be unexecuted out of his hands and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor if the whole work had been executed by him (of the amount of which excess, the certificate in writing of the Officer-in-charge shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by Rajasthan Co-operative Dairy Federation Ltd. under this contract or on any other account whatsoever or from his security deposit or the proceeds of sales thereof or a sufficient part thereof as the case may be.

In the event of any one or more of the above courses as may be deemed best suited to the interest of the Federation being adopted by the Managing Director, Rajasthan Co-operative Dairy Federation Ltd., the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured by him by reason of his having purchased or procured any materials or entered into any engagements, or made any advances on account of or with a view to execution of the work or the performance of the contract. And in case action is taken under any of the provisions aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work therefor

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actually performed under this contract unless and until the Officer-in-
charge has certified in writing the performance of such work and the
value payable in respect thereof and he shall only be entitled to be paid
the value as certified.

Contractor remains liable to pay compensation if action not taken under
Clause 3.

**Clause 3 :-**
In any case in which any of the powers conferred by Clause 3 hereof shall have
become exercisable and the same shall have not been exercised, the non-
exercise thereof shall not constitute waiver of any of the conditions hereof, and
such power shall notwithstanding be exercisable in the event of any future case
of default the contractor for which by any clause or clauses hereof he is
declared the contractor for which by any clause or clauses hereof he is declared
liable to pay compensation amounting to the whole of his security deposit and
the liability of the contractor for past and future compensation shall remain
unaffected.

12.0 **Force Majeure Clause :-**

The terms and conditions mutually agreed shall be subject to the Force Majeure
Clause. Neither the supplier nor the buyer shall be considered in default in
performance of its obligations hereunder, if such performance is prevented or
delayed because of war, hostilities, revolutions, civil commotion, strike,
epidemic, accident, fire, wind, flood, earthquake or because of any law, order,
proclamation, regulation, or ordinance of any Government or any act of God or
any other cause whether of similar or dissimilar nature, beyond the reasonable
control of the party affected should one or both of the parties be prevented
from fulfilling his/their contractual obligations by a state of Force Majeure
lasting continuously for a period of six months, the two parties should consult
with each other regarding the future implementation of the agreement/purchase
order.

13.0 **Settlement of disputes :**

In the event of any dispute in the interpretation of the terms of this
agreement/ Purchase Order or difference of opinion between the parties on
any point in the Purchase Order arising out of, or in connection with the
agreement/accepted purchase order or with regard to performance of any
obligations hereunder by the either party, the parties hereto shall use their
best efforts to settle such disputes or difference of opinion amicable by
mutual negotiations.

In case, no agreement is reached between the two parties in respect of or
concerning any of the provisions herein contained or arising out of this
supply order/ tender/ agreement as to the rights, liabilities or duties of the

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said parties hereunder or as to the recovery of any amount, the same shall be referred to the Sole Arbitrator M.D., RCDF who in turn may refer the dispute to any officer of RCDF for adjudication. The arbitration shall be in accordance to the law of Arbitration & Conciliation Act, 1996. The decision of the Sole Arbitrator shall be final and binding on both the parties.

All the disputes pertaining to the said contract / supply order / tender / agreement shall vest to the jurisdiction of Courts at Jaipur.

14.0 **Right of Acceptance :**
The Rajasthan Co-operative Dairy Federation Ltd. does not pledge itself to accept the lowest or any tender and reserves to itself the right to accept the whole or any part of the tender or portion of the quantity offered. The tenderer is at liberty to tender for whole or any portion or to state in the tender that the rates quoted shall apply only if the entire quantity is taken from them.

15.0 **Subletting & Subrogation :**
The contractor shall not except with the prior consent in writing of the buyer, sublet, transfer or assign the contract or part of the contract thereof or interest therein or benefit or advantage thereof in any manner whatsoever, to others.

16.0 **Demurrage :**
The supplier shall bear and reimburse to the buyer demurrage charges if any paid by a reason of delay on the part of the supplier in forwarding the above documents.

17.0 **Inspection & Acceptance :**
17.1 The buyer shall have the right to make inspection of any of the items under contract during the fabrications, at the factory of the supplier including access to drawings and test result, to assure that all machinery and equipment to be supplied shall conform to the details of the specifications.

17.2 Notwithstanding whether factory inspection is made or omitted upon arrival at delivery point and prior to the acceptance of the equipment and machinery delivered, the buyer shall have right to inspect them giving representative of the supplier an opportunity to be present. Upon acceptance an appropriate certificate will be issued.

18.0 **Rejection :**
18.1 Further, the buyer reserves the right to reject the stores either in full or in part if at the time of delivery it is noticed that the items/stores supplied do not conform to the description and quality stipulated in the technical specification for the item in the tender.

18.2 **Consequences of Rejection :**
If on rejection of the stores by the buyer or consignee at destination the supplier fails to make satisfactory supplies within the stipulated period of delivery, the buyer shall be at liberty to :-

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a) Allow the supplier to resubmit the stores, in replacement of those rejected within a specified time, the supplier bearing the cost of insurance, if any, on such replacement without being entitled to any extra payment on that account.

b) Purchase of authorise the purchase of quantity of the stores rejected or others of a similar description (when stores do not exactly comply with particulars, in the opinion of the buyer, which shall be final) without notice to the supplier’s liability as regards the supply of any further instalment due under the contract.

c) Cancel the contract and purchase or authorise the purchase of the items or others of a similar description (when stores do not exactly comply with the particulars in the opinion of the buyer, which shall be final) at the risk and cost of the supplier.

18.3 Removal of Rejected Stock:
Any stores rejected shall under the all circumstances, lie at the risk of the supplier from the amount of such rejection till their removal and if such stores are not removed by the supplier within such reasonable period as may be decided by the buyer, the buyer may dispose of such stores at the supplier’s risk and account and retain such portion of proceeds as may be necessary to cover any expenses incurred in connection with such disposal. The buyer shall also be entitled to recover handling and storage charges for the period during which the rejected stores are not removed. This will include the cost of disposal when necessary.

19.0 Indemnity:
The supplier shall at all times, indemnify the buyer against all claims which may be made in respect of the stores or infringement of any right protected by patent, registration of design or trade mark, provided always that in the event of any claim in respect of alleged breach of letters, patents, registered design of trade mark being made against mark the purchaser, the buyer shall notify the supplier of the same and the supplier at his own expense, either settle any dispute or conduct any litigation that may arise therefrom.

20.0 Corrupt practices:

20.1 The supplier shall not offer or agree to give any person in the employment of the buyer any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to obtaining or execution of the contract or any other contract with the buyer or for show for bearing to show favour or disfavour to any person in relation to the contract by the buyer. Any breach of the aforesaid condition by the supplier or any one employed by him or acting on his behalf (whether with or without the knowledge of supplier) of the commitment of any offence by the supplier or by any one employed by him or acting on his behalf under Chapter-IX of the Indian Penal Code 1860 or the prevention of corruption Act, 1947 or any other Act enacted for the prevention of corruption by public servants, shall be entitled to the buyer to cancel the contract and all or any other contract with
the supplier and to recover from the supplier the amount of any loss arising from such cancellation.

20.2 Any dispute or difference in respect of either in the interpretation effect or application of the above conditions or of the amount recoverable thereunder by the buyer from the supplier shall be decided by the buyer or his nominee whose decisions may be subject to the arbitration.

21.0 Insolvency & Breach of Contract:

The buyer may at any time, by notice in writing, summarily terminate the contract without compensation to the contractor in any of the following events viz :

(i) If the supplier, a firm or any partner thereof, shall be at that time adjusted involvent or shall have a receiving order or order for administration of his estate made against his or shall take any proceedings for composition under any insolvency Act for the time being in force to make any conveyance or assignment of his assets or enter into any arrangement or composition with his creditors or suspend of payment if the firm is dissolved under the partnership Act, or ;

(ii) If the supplier being a company is wound up voluntarily by the order of a court or a receiver, liquidator or Manager or on behalf of the Debenture holder is appointed or circumstances shall have arisen which entitled the Court of Debenture holders to appoint a receiver, liquidator or Manager or;

(iii) If the supplier commits any breach of the contract/here not in a specifically provided for, provided always that such determination shall not prejudice any right of action of remedy which shall have accrued or shall accrue thereafter and provided also the suppliers be liable to pay the buyer for any extra expenditure be liable to pay the buyer for any extra expenditure he is thereby put to and the supplier shall under no circumstances be entitled to any gain in repurchase.

22.0 Recovery of sums due:

Whenever any claim for the payment of a sum of money arises out or under the contract against the supplier, the buyer shall be entitled to claim it from the Bank concerned against the guarantee amount provided by the supplier. In the event of the guarantee amount being insufficient, the balance entire sum recoverable shall be recovered by appropriating any sum them due or which at any time thereafter may become due to the supplier under the contract or any other contract with the buyer and if such a sum be insufficient to cover the full amounts recoverable, the supplier shall on demand pay to the buyer the balance remaining dues.

23.0 This tender is not transferable.

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24.0 **Secrecy of Documents:**
All the documents and drawing supplied by the buyer must be treated as ‘CONFIDENTIAL’ must neither be copied, reproduced, transmitted, or discussed otherwise in whole or part, nor duplicated, modified, divulged, or discussed to any third party nor used in any other way without the consent of buyer in writing.

25.0 **Submission of Drawings & Manuals:**
The supplier shall be required to submit the following drawings:

a) Two sets of detailed fabrication drawings with bills of the material indicating material and size of different component for approval of buyer.

b) Three sets of the final approved drawings for the complete equipment should be submitted after the equipment is fabricated and inspected.

c) Three sets of installation/operation/maintenance manuals for all equipment/ machinery will be required to be given by the supplier.

26.0 **Form of Tender Rate Quotation:**
The form of tender rate quotation is given at Annexure-VI enclosed with Schedule – I.

27.0 It may be noted that the tenderers are at liberty to quote for full or any part. In other words the tenderers are free to quote even for single item.

28.0 **TIMELY DELIVERY, OF SPECIFIED QUALITY OF MATERIAL, PLANT & MACHINERY SATISFYING ALL DESIGN AND FUNCTIONAL REQUIREMENTS ORDERED, IS THE ESSENCE OF THE CONTRACT. THEREFORE, FAILURE TO DELIVER IN TIME OR NOT CONFORMING TO PRESCRIBED SPECIFICATIONS & QUALITY WILL MAKE THE SUPPLIER LIABLE FOR BLACKLISTING THE FIRM AND THEREBY DEBARRING THE SUPPLIER FROM PARTICIPATION IN FUTURE TENDERS BY RCDF, MILK UNIONS & OTHER AFFILIATED UNITS. AS FOR THE PRESENT CONTRACT PENALTIES, COMPENSATION AND OTHER PROVISIONS AS GIVEN IN THE TENDER DOCUMENT SHALL BE INVOKED ON FAILURE OF THE PARTY.

28.1.1 RCDF and milk unions shall have the fullest liberty to notify the defaulting firm to Business/Trade Associations/Public Sector undertakings/autonomous bodies and the like about the default and breach of contract committed by a firm giving out names of the partners of the firm. A register is intended to be maintained for such defaulting firms and their partners.

28.1.2 RCDF will not consider the tender of such firms who has earlier been debarred/censured/black listed or even those firms who have on their role key employees/ key executives/ proprietors/ partners of other already debarred/censured / black listed firms in one or the other capacity.

(Signed & sealed by the tenderer (RCDF) in token of acceptance of above) Jaipur
28.1 All the tenderers without fail should furnish full technical details about their items tendered.

28.2 All tenderers without fail should furnish performance certificate obtained from their earlier buyers. This information is a MUST and without this the tenders may not be considered for analysis and they may also remain rejected summarily at the discretion of the buyer. However final decision rests with the buyer in this regard.

28.3 Spare parts list as stated at Clause No.3.2 above must be furnished alongwith quotation in PDF format in cover-B along with financial bid.

29.0 The quantities mentioned in the tender are tentative and the actual quantities to be procured may vary upward or downward suitng to the actual requirements.

30.0 Supplier will execute agreement on non-judicial stamp paper of prescribed value before 30% advance can be released to him. Format of the agreement is given at Annexure-VIII.

31.0 If the Managing Director shall at any time, and for any reasons whatever, think any portion of the work should not be executed or should be withdrawn from the contractor he may, by notice in writing to that effect, require the contractor not to execute the portion of the work specified in the notice or may withdraw from the contractor the portion of the work so specified and the contractor shall not be entitled to any compensation by reason of such portion of the work having been executed by him, and the value (i.e. cost at tendered rates) of the portion of work so omitted or withdrawn shall in cases where the contractor has for any reason already received payment for it or in the cases of lump-sum contracts be deducted from any sum them due or thereafter to become due under the contract or otherwise against or from the security deposit or the proceeds of sale thereof.

32.0 No term or condition in addition to those mentioned above will be agreed to.

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Additional General Terms and Conditions which shall form an integral part of Purchase Order

1. **INSPECTION:**
The equipment under the purview of your supply should be inspected by your own technical experts at your works and such inspection report should be forwarded to us in triplicate along with despatch documents. However, the RCDF reserves its right of inspection at any stage of fabrication manufacture of the equipment/material. The final inspection if any case will be carried out at RCDF project site.

You should forward to us the test certificate, wherever applicable, obtained from the concerned authorities/principal manufacturers either regarding quality or any other details of the items utilised in the process of manufacture/fabrication.

2. **DESPATCH INSTRUCTIONS:**
The material are to be despatched to the project site by the mode of transport specified in the order under intimation to us. Depending on the type of material, you shall have to carry out proper packing/creating to avoid breakage in transit. Other details of despatch such as marking, consignee particulars etc. are given under clause No.4 of this purchase order. For using any mode of transport other than the specified one prior concurrence from us in writing should be obtained. All consignments should be despatched on freight paid basis irrespective of price basis. In the event of freight paid basis irrespective of price basis. In the event of freight payable by us, you shall have to obtain our prior approval and produce necessary documentary evidence in support of your claims. Unless otherwise stated, the original RR/LR should be sent by registered post directly to the consignee along with a copy of invoice and two copies of delivery challan/packing list.

3. **INSURANCE:**
You shall have to arrange all transit risk insurance on warehouse basis for the items to be supplied by you. In the cases, where orders are placed on ex-works basis, the premium shall be paid by us at actuals to you against production of documentary evidence. In the event of any damage to/loss of consignment in transit, it will be your responsibility to lodge necessary claims with the carriers/underwriters and pursue them till settlement. Since insurance policy will be taken in our name, if required, we shall give you necessary authorisation letter, authorising you to lodge and pursue claims on your behalf with the carriers/underwriters. Also you shall have to make good the losses/damages occurred in transit by making replacement/payment to us in the first instance and if claims are settled by the underwriters and any amounts are released by us, the amount thus realised in settlement of claims shall be reimbursed to you.

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In other words, the prime facie responsibility rests on you for getting compensation of the damages/losses incurred if any, due to all transit hazards.

In the case, when order is placed on ‘free delivery at site’ basis, no insurance premium will be paid by us. However, in such case also, all transit risk insurance policy must be taken to safeguard your own interest and to protect the material against transit hazards.

4. **DELIVERY CLAUSE:**
The stipulated delivery time given in the order is the essence of this contract. You must, therefore, strictly adhere to the delivery schedule mentioned in the order.

5. **DEMURRAGE:**
You shall bear and reimburse to useful demurrage charges, if any paid by reason of delay on your part in forwarding the original despatch documents to destination given in the purchase order.

6. **REJECTION:**
We reserve the right to reject the goods either in part or full if at the time of delivery, it is noticed that the goods supplied do not conform to the specifications/description given in the order. The rejection, if any, will intimated to you in writing within a reasonable time. You will be liable to repair/replace the rejected goods within the stipulated time. Till the repair/replacement is done, the rejected goods shall be lying at your risk, cost and responsibility. If you do not arrange to repair/replace the rejected goods within a period stipulated by us, we may dispose of such goods at your risk and in the manner which we think fit. We shall be entitled to retain the incurred on storage, handling and disposal of the rejected goods. We shall also be entitled to recover the expenses made by us on storage land handling of such rejected goods till the goods are removed from our premises/stores.

7. **COMPENSATION FOR DELAY:**
The accepted delivery schedule of supply and/or installation shall be governed by the compensation for delay clause as given in the tender. Under the clause, if the delivery or installation of the equipment is not made by the stipulated date, you shall have to pay a penalty @ two and half percent of the value of each item for every delay of 1/4th of the prescribed delivery period subject to a maximum of ten percent of the net value of the unexecuted part of the accepted order. Alternatively in the event of non delivery of the materials or non completion of installation within the stipulated time, we reserve the right to cancel the order and procure the material/get installed from any other source, at the risk and cost of the party.
8.0 GUARANTEE:
The supply of equipment as well as installation, if entrusted, shall have to be carried out by you to the entire satisfaction of RCDF.
You shall also guarantee to repair/replace without any extra cost, the items or parts thereof, if found defective due to bad designing, workmanship or substandard material, within 12 months from the date of commissioning or 24 months from the date of receipt of material at site whichever is earlier. If it is necessary to send the defective equipment or parts thereof to your works for repair/replacement, without forming any precedence the cost of repacking, loading, unloading, transportation from the site to your works and back to site shall have to be borne by you. The guarantee however, does not cover any damage resulting from normal wear and tear or improper attendance or mishandling of the equipment during repair by personnel other than the supplier or their authorised agents.

9. WARRANTY:
You must provide a warranty for a minimum period of one year from the date of commissioning of the equipment for satisfactory performance of the supplied equipment according to the designed/rated/installed capacity or any other norms fixed by RCDF.

10. DRAWINGS, SPECIFICATIONS & MANUALS:
10.1 Prior to commencement of fabrication, you shall have to submit for our approval, two sets of drawings of all the items ordered for supply showing overall dimensions with typical sections, details of service connection and their requirement, details of drive units etc. The drawing should also show a complete bill of material, wherever applicable.
10.2 Three copies of each operation and maintenance manuals and service instructions along with the drawings showing details of part list, against each item of your supply should be sent to us. You should also furnish us service requirements like water (hot water, chilled water and main’s water), electricity, lubricant air etc. for each equipment, wherever applicable.
10.3 You shall provide a list of spare parts, which will be required for the plants and equipments supplied by you for atleast two years of normal operation with the names and the addresses of the manufacturers from whom they can be procured. The list should contain the code numbers of the parts, which are required to be procured in addition to the machine number and model etc.
10.4 In case, any documents, drawings are supplied to you by RCDF the same must be treated as confidential, must not be copies, reproduced, transmitted or disclosed otherwise in whole or part, not duplicated, modified, divulged or discussed to any third party nor misused in any other way without the consent of the RCDF in writing. All such documents, and drawings shall be the property of RCDF and they must be returned to RCDF after done with.

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(RCDF) Jaipur
11. **SUBMISSION OF BILLS:**
Bills in triplicate under registered post, stating therein our purchase order reference along with necessary inspection certificates from your inspector in respect of the material supplied and copies of despatch documents should be sent to our Head Office at Jaipur. Unless otherwise stated, the payment shall be made to you by Crossed Account Payee Cheque by post according to the terms of payment mentioned in the Purchase Order.

12. **CANCELLATION OF CONTRACT AND REFUND OF ADVANCES:**
We shall be free to cancel our order in part or full, in the case of non-delivery of material/non-completion of installation within the stipulated delivery period or breach of any one of the clauses mentioned herein. Consequential losses, if any, on account of our getting installation done or obtaining supplies from alternative sources besides payment of higher price shall be recovered from you. In the event of cancellation of the order, you will be liable to refund the advance amount, if any, to the RCDF in full. Suppliers will have no right to forfeit the advance amount received by them.

13. **SUB-CONTRACT:**
In the event of awarding sub-contract to any of the parties by you for the manufacture/supply/erection of any parts/spares/components that will be used in the ordered equipment, you must furnish us details about your sub-contractors, their experience, specification etc. The sub-contract can be awarded by you only after obtaining written approval from us. In the event of sub-contract also the prime facie responsibility rests on you regarding quality, quantity, guarantee/warranty of the materials supplied by the sub-contractors.

14. **FORCE MAJEURE CLAUSE:**
The terms and conditions mutually agreed upon shall be subject to For Majeure Clause. Neither the supplier nor the purchaser shall be considered in default in performance of its obligations hereunder, if such performance is prevented or delayed because of war hostilities, revolution, civil commotion, strike, epidemic, order, proclamation, regulation, or ordinance of any Government or of any act of God or of any other cause whether of similar or dissimilar nature, beyond the reasonable control of the party affected. Should one or both the parties be prevented from fulfilling his/their contractual obligations by a state of Force Majeure lasting continuously for a period of six months, the two parties should consult each other regarding the future implementation of the contract.

15. **ARBITRATION CLAUSE:**
For settlement of any dispute arising out of this order, Jaipur shall be the jurisdiction irrespective of any jurisdiction clause mentioned in your correspondence. The arbitration proceedings shall be governed by the provisions of the Indian Arbitration & Conciliation Act, 1996 and the rules made thereunder or any enactment or statutory modifications thereof for the time being in force subject to condition No.13 of General Terms & Conditions Schedule – I of the tender document.

(Signed & sealed by the tenderer)

(RCDF)

in token of acceptance of above)

Jaipur
GENERAL TERMS AND CONDITIONS FOR ERECTION CONTRACT
WHEREEVER APPLICABLE

1.0 **Material drawings etc.**
1.1 All goods or materials shall be erected/supplied under the scope of erection with the specifications stated herein, and those covered under scope of work.

1.2 All goods or materials supplied or used shall be unused, new and of first quality. Where foreign or partly foreign goods or material are to be used, this must be specifically stated and brought to the notice of RCDF.

1.3 Wherever necessary or required by RCDF, the erector shall furnish the necessary test and/or inspection certificate etc. from the appropriate authorities as per IBR, IER and other statutory regulations at no extra cost.

1.4 All remarks, suggestions and modifications as suggested by the authorities mentioned in 1.3 above, shall be carried out by the erector to the entire satisfaction of the referred authorities and no extra cost shall be payable in this regard to the erector by the RCDF.

1.5 The supplier shall furnish necessary drawings as under for each equipment under the purview of his supply:

   a) Standard Items - 6 Sets
   b) Fabricated Items - 3 Sets for approval and 6 Sets of approved drawings.

1.6 The supplier shall furnish the necessary foundation drawings with all pertinent details for each of the equipment under the purview of the supply alongwith the sets of drawings for approval.

2.0 **Assigning & Subletting:**
Assigning or subletting the contract shall not be done by the party unless written permission is obtained from RCDF. Written permission if given shall not relieve erector from his obligations under the contract and he shall take full responsibility for all the works carried out by the Sub-vendor.

3.0 **Purchaser’s comments:**
Erector shall not be relieved of his obligations under the order including but not limited to his warranty obligations stated herein merely by incorporating the purchaser’s design and fabrication comments on the goods hereunder.

4.0 **Secrecy Clause:**
The technical information, drawings, specifications and other related documents forming part of purchase order are the property of Purchaser and (Signed & sealed by the tenderer (RCDF)
in token of acceptance of above) Jaipur
shall not be used for any other purpose, except for the execution of the order. All rights, including rights in the event of grant of a patent and registration of designs are reserved. The technical information, drawings, specifications, records and other documents shall not be copied, transcribed, traced or reproduced in any other form or otherwise, in whole or part and/or duplicated, modified, divulged and/or disclosed to a third party nor misused in any other form whatsoever without Owner’s or his collaborators previous consent in writing, except to the extent required for the execution of this order. This technical information, drawings, specifications and other related documents shall be returned to owner with all approved copies and duplicate, if any, immediately after they have been used for the agreed purpose.

4.2 In the event of any breach of this provision, erector shall indemnify the owner from any loss, cost or damage or any other claim whatsoever from his collaborator and or any other parties claiming from or through them or from any other party in respect of such a breach.

5.0 Scope of Contract for Erection:

The erection would comprise of positioning and installing all the dairy, miscellaneous and service equipments under the purview of his supply and those mentioned herein as per the approved machinery layout drawings. The scope of mechanical erection involves access preparation for moving of the plant and equipment including their fittings, from the work site godown(s) or from the place within the site where they have been unloaded, to the place of erection, decorating, placing on foundation wherever specified or required; erection of SS pipes and connections of necessary services to the main or ancillary branch of the service lines, but all within the battery limits, specified starting up and successful commissioning to get the specified rated output for each equipment. The installation should be carried out as per the drawing(s) submitted by the erector and approved by RCDF. Necessary SS Pipes fittings and valves etc. for interconnecting the equipment would be installed by the erector and it would generally be done according to the SS piping layout to be prepared by the erector and approved by RCDF.

All the serviced pipes, fittings and valves etc. shall be supplied and installed by the erector and this should be carried out as per service piping drawings prepared by the erector and approved by RCDF. All necessary foundation bolts and their grouting on floor, walls, etc. as per the requirement, are included in the scope of erection & installation. All the supply covered in this part shall be governed by the same general terms and conditions given in the tender document against which the offer was made. Further the specifications of the contract are intended to describe and provide for a finished piece of work. They are intended to be complementary and what is required by either shall be as if required by all. It is to be understood and agreed by erector that the work described shall be complete in every details even though every item necessarily involved is not particularly mentioned herein. Erector shall be required to

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provide all Labour materials and equipments necessary for the entire completion of the work describe and shall not avail himself of any manifesting or unintentional error, omission or inconsistency that may exist. Erector shall carry out and complete the work in every respect in accordance with the contract and accordance with the directions and to the entire satisfaction of RCDF and the manufacture’s representatives.

6.0 **Engineer’s Instructions :**
RCDF may in his absolute discretion, from time to time issue further drawings and/or written instructions, details directions and explanations which are collectively referred to as ‘Engineer’s instructions’ in regard to :

6.1 Any additional drawings and explanations to exhibit or illustrate details.

6.2 The variation or modifications of the design, quality or quantity of work or the additional or omissions or substitutions of any works.]

6.3 Any discrepancy in the drawings or between the schedule of quantities and/or specifications.

6.4 The removal from the site of any material brought thereon by erector and the substitution of any other material thereof.

6.5 The removal and/or re-execution of any work executed by the erector.

6.6 The dismissal from the work of any persons employed thereupon.

6.7 The opening up for inspection of any work covered up.

6.8 The amending and making good of any defects.

7.0 **Right of RCDF :**
7.1 The various parts of the contract are intended to be complementary to each other but should any discrepancy appear or any misunderstandings arises as to the interpretations of anything contained therein, the explanation of RCDF shall be final and binding.

7.2 **Right to direct work :**

7.2.1 RCDF shall have the right to direct the manner in which all work under this contract shall be conducted in so far as it may be necessary to secure the safe and proper progress and specified quality of the work, all work shall be done and all materials shall be furnished to the satisfaction and approval of RCDF.

7.2.2 Whenever, in the opinion of the RCDF, erector has made marked departures from the schedule of the completion laid down in the agreement or when untoward circumstances force a such departure from the said schedule, RCDF in order to assure the compliance with the schedule and the provisions of the

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agreement, shall direct the order, pace and method of conducting the work, which shall be adhered to by the erector.

7.2.3 If, in the judgement of RCDF, it become necessary at any time to accelerate the over all pace of the plant erection work erector when, ordered and directed by RCDF shall cease work at any particular point and transfer his men to such other point or points and execute such portion of his work, as may be required, to enable RCDF to hasten and properly engage and carry on their work, all directed by the RCDF.

7.2.4 Night work will be permitted only with prior approval of RCDF, RCDF may also direct erector to operate extra shifts over and above normal day shift to ensure completion of contract as scheduled or due to exigent circumstances, if in his opinion, such work is required.

7.3 **Right to order Modifications of Methods & Equipment:**

If at any time the erectors methods, materials or equipment appear to RCDF to be unsafe, inefficient or inadequate for securing the safety of workmen or the public, the quality of work or the rate of progress required, he may order erector to ensure their safety, and increase their efficiency and adequacy and the erector shall promptly comply with such orders. If at any time erectors working force and equipment are in the opinion of RCDF is inadequate for securing the necessary progress as herein stipulated erector shall if so directed increase the working force and equipment to such an extent as to give reasonable assurance of compliance with the schedule of completion. The absence of such demands from RCDF shall not relieve erector of his obligations to secure the quality, the safe conducting of the work and the rate of progress required by the contract the erector alone shall be and remain liable and responsible for the safety, efficiency and adequacy of his methods, materials, working force and equipment, irrespective of whether or not he makes any changes as a result or any order or orders received from RCDF.

8 **Changes in the work :**

8.1 If it becomes necessary or desirable to modify the contract and the specifications therein contained and the drawings, in a manner not materially affecting the substance thereof, or to make changes by altering, adding to or deducting from the work, or to add correlated work not now covered by the contract to the work to be done under his contract RCDF may, without invalidating the contract, direct such changes increase the cost of work and payment therefore is not covered by the prices bid for the various items, erector shall be reimbursed for such changes under a supplementary contract. In case such changes shall diminish the cost of the work, appropriate deductions towards such reduction in cost shall be made from the contract price.

8.2 Erector when requested in writing by RCDF shall perform extra work and furnish extra material not covered by the specifications but forming an

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inseparable part of the work contracted for and shall be paid extra for all such work at rates and terms mutually agreed upon.

8.3 Extra items, if any, shall be paid on the basis of vouchers of cost of materials and labour procured by erector. Erector shall be paid 15% of the cost of material and labour towards his profit, supervision and overhead charges.

8.4 Items not covered by the schedule of quantities but similar in nature to the items already covered shall be paid for, the rates being worked out on the basis of rates quoted for similar items.

9 Erector’s functions:
9.1 Erector shall provide everything necessary for the proper execution of the works, according to the patent and meaning of the drawings, schedule of quantities and specifications taken together whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred therefrom and if the erector finds any discrepancy therein, he shall immediately and in writing refer the same to RCDF where decision shall be final and binding on all the parties.

9.2 It is not expected that the work under contract will be subcontracted. However, in case erector desires to subcontract a part of the work in the interest of the project, he shall request in writing to RCDF for approval for the same giving full and complete details regarding the proposed subcontractor, his experience and the terms of subcontract. Approval from RCDF for subcontracting part of the work shall not relieve the erector from any of his obligations and responsibilities under this contract.

9.3 Erector shall proceed with the work to be performed under this contract and each and every part and details thereof, in the best and most workmanlike manner by engaging qualified, careful and efficient workers, and do the several parts thereof at such time and in such order as RCDF may direct and finish such work in strict conformance with the plans, drawing and/or specifications, and any changes, modifications thereof made by RCDF.

9.4 Any work is to be done at place other than the site of the works erector shall obtain the written permission of RCDF for doing so.

10 Unloading, Inspection & Storing:
10.1 Erector shall promptly unload from the carriers all the materials/equipment covered under this contract. It is the erectors sole responsibility to keep in touch with the RCDF and others to inform himself on the expected date and time or arrival of carriers at site and ensure that his men aids are available in time to unload the material/equipment and promptly release the carriers. Any demurrage charges incurred due to the delay in unloading the materials/equipment and releasing the carriers shall be changed to the erector’s

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account. Erector shall plan in advance his requirements of jacks, cranes, sleepers etc. including those not specified here in but required to unload the material/equipment promptly and efficiently.

10.2 Unless excluded in the specifications, erector shall safety transport the material/equipment to the storage area and store the same in systematic manner with tags for easy identification and retrieval. He shall also maintain all required stores records and furnish all required reports. If in the opinion of RCDF the erector is not taking any action to unload and transport the material to site. RCDF reserves the right to arrange for the same through alternative agencies, entirely at the cost of the erector. It is further clarified that even in the event RCDF arranges for the unloading, transportation storage space etc. under the circumstances described above, the liability and responsibility will rest with the erector.

10.3 All materials and equipment received at site, before erector arrives at site, shall be unloaded and stored by RCDF at the risk responsibility and cost of the erector. These materials shall be handed over to the erector and there upon the erector shall inspect the same and furnish the receipt to the RCDF. The protection safety and security of the material so taken over shall be the responsibility of the erector until it is handed over to the RCDF after erection and/or commissioning. Any and all the material/equipment covered under the scope of this contract, received at site after erector arrives at a site shall be unpacked, inspected and checked and against invoices by the erector. He shall furnish shortage and damages reports to RCDF within a week of the receipt of material/equipment covered under the circumstances described above, the liability and responsibility will rest with the erector.

10.4 Erector shall also inform RCDF in right time regarding the repairs/replacement required towards the items damages/lost in order to enable the RCDF to arrange for repairs/replacement well in time and avoid delays due to non availability of equipment and part at the time of their actual need.

10.5 Erector shall arrange for periodical inspection of material equipment in his custody until taken over by the RCDF and shall carry out all protective and preservative measures thereupon.

10.6 Erector shall also keep a check on the deliveries of the equipment/material covered in his scope of erection and shall advise RCDF well in advance regarding possible hods ups in his work due to expected delays in delivery of equipment, to enable RCDF to expedite the deliveries and take other remedial action.

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11 **Other Contractors/Erector’s Work:**
If any part of Erector’s work depends, for proper execution, upon the work of any other erector, the erector shall inspect and promptly report to RCDF any defect in such work of other contractors that render it unsuitable for use. Failure to do so shall be deemed as an acceptance of the other erector’s work as fit and proper for the erection of his work except as to defects which may develop in the work of other contractors after the proper execution of the work. To ensure proper execution of his subsequent work, erector shall measure work already in place and shall at once report to RCDF and discrepancy between the executed work and the drawings.

12 **Supply of Tools, Tackles & Materials:**
12.1 For full completion of the work, erector shall at his own expense furnish all necessary erection tools, machine tools, power tools, tackles, hoists, cranes, derricks, cables, slings, skids scaffolding work benches, tools for rigging, cribbing and blocking, welding machines and all other associated protective equipment, instruments, appliances, materials and supplies required for unloading, transporting, storing, erecting, testing and commissioning all the equipment of the plant that may be required to accomplish the work under the contract unless otherwise provided for. Adequacy of such tools will be subject to final determination by RCDF.

12.2 Erector shall also furnish all necessary expandable device like anchors, grinding and abrasive wheels, raw plugs hacksaw blades, tape, dyes, drills, reamers, chisels, files carborundum stones, oil stones, wire brushes, necessary bamboo scaffolding, ladders wooden planks timers, sleeper and consumable material like oxygen, acetylene, argon, lubricating, oils, greases, cleaning fluids, welding rods cylinder oils, graphite powder and flakes fasteners, gaskets temporary supports stainless steel shims of various thickness as required, cotton waste, cheese cloth and all other miscellaneous supplies of every kind not necessarily listed above but required for carrying out the work under contract.

12.3 Erector shall provide all reasonable facilities including tools personnel etc. and ensure coordination with RCDF and erection supervisors of other equipment suppliers to enable them to carry out all supervision measurements checks etc. in a satisfactory manner.

12.4 Erector shall not dispose off transport or withdraw any tools, tackles, equipments and material provided by him for the execution of the work without taking prior written approval from RCDF at all times shall have right to refuse permission for disposal, transport or withdraw all of tools, tackles, equipment and material which in the opinion of RCDF will adversely affect the efficient and expeditious completion of the project.

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12.5 **Machinery Foundation:**

All the civil foundations as per the drawings furnished by the manufactures/suppliers shall be arranged by RCDF. The erector shall place the equipment on the foundations and carry out final adjustment of the foundations alignment dressing of foundation surface, providing and grouting of anchor bolts pockets etc. and set the equipment properly as per approved layout drawing and manufacture instructions.

12.6 **Structural Platform:**

Supply of all necessary materials and installation of structural platforms, structural supports and access arrangement required for the various equipment is included within the scope of mechanical installation and should be so carried out that all operation can be easily manoeuvred.

The details and drawings in regard of the platforms shall be worked out/prepared by the erector and submitted to the RCDF for approval. The items should be executed as per the approval details drawing. The payment will be made on the basis of cost per unit weight as offered by erector and accepted by RCDF.

13 **For Erection & Commissioning:**

The erector will be required to take a ‘storage-cum-erection’ insurance for the items to be erected and commissioned by him. For this insurance premium shall however be reimbursed to him by the buyer. In case, the erector is not able to arrange insurance at reasonable rates acceptable to the buyer, the buyer shall arrange the same on behalf of the erector. However, in the event of any loss/damage to the equipment during storage or erection and commissioning, the erector alone shall have to lodge the claims with underwriters and pursue the same till settlement irrespective of the fact whether the insurance policy is taken by the erector or arranged by the buyer on his behalf. Further, it shall be sole responsibility of the erector to make good the losses/damages expeditiously without any extra cost to the buyer.

14. All the equipment/machineries including motors, pumps, starters, junction boxes, isolators, and boxes, tanks supporting structures, pipe supports and brackets of MS, GI, Pipes which are not insulated and all exposed and visible cost Iron parts shall be given a double coat of anticorrosive primers. MS and GI parts (within the building) should be given a final coat of paint of approved shade. However, if so instructed by RCDF in respect of certain particular items/equipments, the erect should touch up breaches in the paintings. All surfaces must be properly cleaned and all scale, dirt and grease should be removed prior to painting. Spray painting must preferably be used on all the equipment, machineries and wherever else practicable. Suitable and necessary cleaning/wiping of slight/dial glasses, other non-metallic parts, flooring, walls

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and other surfaces which have been spoiled by paint during painting must also be carried out by the erector. Lettering and other markings, including capacity and flow direction markings, shall also be carried out by the tenderer on the tanks, pipe lines, starters, motors, isolators and wherever else necessary as directed and as per the standard practice of installation. The scope of painting includes a double steel primer under coat and a top coat of paint of approved shade and quality, wherever possible ISI colour codes and colour charts must be adhered to. However, the final colour code shall have to be got approved from RCDF and any changes suggested thereby should be carried out.

15.0 **Cleaning Chemicals & Lubricants**:

The necessary quantities of cleaning chemicals, make-up lubricants, etc. required for the installation, commissioning, testing and start-up all the equipments are to be supplied by the erector free of cost.

16.0 **Access preparation**:

In case access preparation is required to be made for shifting the equipment the erector shall bring to the notice of RCDF, the quantity of work involved for making such a preparation. Consequently RCDF would review the matter in consultation with the erector and decide the course of action.

17.0 **Setting put works, lines & Grades**:

17.1 Building, foundation and other civil works shall be provided by RCDF unless indicated otherwise. Erector shall carry out all adjustments of foundations, levels, dressing of foundation surfaces, bedding and grouting of anchor bolts and bed plate etc. as may be required for seating of the equipment in proper position. Erector shall be responsible for obtaining correct reference lines for purposes of fixing the alignment of various equipments from master bench marks furnished by RCDF. Any minor alternation required in rectifying the anchor bolts pockets, anchor bolts, etc. shall be carried out by erector at no extra cost. The erector shall supply all the necessary foundation and anchor bolts, bed plates etc. without any extra cost.

17.2 Erector shall supply, fix and maintain at his cost during the execution of any work, all the necessary centring, scaffolding, staging, planking, timbering, strutting, shorting pumping, fencing boarding guarding and lighting by night as well as by day, required not only for the proper execution and protection of the said work, but also for the protection of the pumping station and of the safety of any adjacent roads, streets, cellars, vaults ovens, walls, houses, buildings and all other erections, matters or things. Erector shall take out and remove any or all such centring, scaffolding, staging, planking timbering, strutting, shorting etc. as occasion shall require or when ordered to do so and shall fully reinstalled and make good all matters and things disturbed during execution of the work, to the satisfaction of RCDF. Erector shall be paid no additional amount for the above.

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18.0 **Erection & Inspection:**

18.1 Erector shall prepare a detailed and comprehensive erection schedule for review and approval of RCDF’s site Engineer and supplier’s erection supervisors. This ‘Approved’ erection schedule shall form the basis for evaluating the pace of all the erection works to be performed by erector.

18.2 The schedule shall show approximately the date on which each part of divisions of the work is expected to begin based on his knowledge of the works of the other contractors and the date when the work is schedules to be finished. Upon the request of RCDF erector should be prepared to discuss his schedule in relation to the master schedule and shall co-ordinate his work with that of the other erectors/contractors as determined by RCDF.

18.3 The work so far as it is carried out on RCDF’s promised shall be carried out at such time as RCDF may approve consistent with the construction schedule and so as not to interfere unnecessarily with the conduct of RCDF’s business and RCDF will give erector all reasonable assistance for carrying out the work.

18.4 Erector shall revise and up date his erection schedule periodically (atleast once every calendar month) to indicate actual progress of works, in relation to scheduled progress. Erector shall also submit monthly progress reports indicating progress work giving scheduled and actual percentage completions, causes for delay etc. as well as such other reasonable reports RCDF may request from time to time.

18.5 Adherence to the instructions of supervisory engineers of manufacturers, where provided by RCDF is compulsory. Erector shall work as per the procedure suggested by manufacturer and shall complete erection of equipment in such a way so as not to interfere with or prevent equipment from functioning as intended, as well as to the entire satisfaction of the manufacturer’s supervisor/RCDF. Erector shall also permit and provide all facilities for manufacturer’s erection super visors to carry out all checks that they may wish to and approve any erection procedure and/or final setting and alignment of components, in order to satisfy themselves that erection has been carried out as intended by them. This shall, however, in no way relieve erector of his responsibility for providing adequate and competent supervision and quality workmanship. In case of any dispute, the decision of the RCDF/Manufacturer’s erection supervisor shall be final and binding on the erector.

18.6 Erector shall haul materials and equipment furnished at RCDF’s storage or unloading areas to the points where they are to be used, in the construction work, install the materials and equipment in their final location and classify and store all surplus and auxiliary parts in a systematic manner in the warehouse, where they can be readily identified and located when needed at a later date.

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(RCDF)  
Jaipur
18.7 In the execution of the work no person other than erector or his duly appointed representatives, his subcontractors and their workman shall be allowed to do work at the site except by the special permission, in writing of RCDF or their representatives, but access to everywhere in the site at all times shall be accorded to RCDF and their representatives and other authorized officials and statutory public authorities. Nevertheless, erector shall not object to the execution of the work by other erector/contractor or tradesman whose names shall have been previously communicated in every facility for the execution of their several functions simultaneously with his own.

18.8 Erector shall carry out the required ‘minor modification work’ at site as required to efficiently complete the work covered in this contract at no extra cost over his contracted sum. However ‘minor modifications’ shall not involve more than 24 man hours per each item of such work. However, in case of ‘major modifications’ which are required to be done on the equipment, for no fault of erector he shall be compensated on the basis of man day rates. It is the responsibility of the erector to get the prior approval for such ‘major modifications work’ from RCDF before such works are taken up. Erector shall also get the estimates and the actual time sheets certified by RCDF and these certified time sheets will be the basis for processing his bills for the ‘Major modifications’.

18.9 If the work or any portion thereof shall be damaged in any way excepting by the acts of RCDF, or if defects not readily detected on prior inspection and which shall develop before the final completion and acceptance of the whole work, erector shall forthwith make good, without compensation, such damage or defects in a manner satisfactory to RCDF. In no case shall defective or imperfect work will be retained.

18.10 Erector at all times shall work in co-ordination with RCDF’s engineering staff and after them all reasonable facilities to become familiar with the erection, operation and maintenance of the equipments.

18.11 In respect of observation of local rules, administrative orders, working staff and the like, erector and his personnel shall co-operate with the RCDF.

18.12 Erector shall not sell, assign, mortgage, hypothecate or remove equipment or materials which have been installed or which may be necessary for the completion of the contract without the consent of RCDF in writing.

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18.13 **Inspection of work:**
RCDF of any person appointed by them shall have access and right to inspect the work, or any part thereof at all times and places during the progress of the work. The inspection and supervision is for the purpose of assuring RCDF that the plans and specifications are being properly executed and while RCDF and their representatives will extend to the erector all desired assistance in interpreting the plan and specifications, such assistance shall not relieve erector of any responsibility for the work. Any work which proves faulty shall be corrected by erector without delay. The fact that RCDF or their representatives have not pointed out faulty work or work which is not in accordance with plans and specifications shall not relieve the erector from correcting such work as directed by RCDF without additional compensation. RCDF their representatives and the employees shall at all reasonable times have free access to the works and/or to the workshop factories or other places where materials are being prepared or constructed or fabricated for the contract and also to any place where the materials are lying or from where they are being obtained and erector shall give every facility to RCDF and his representative for inspection examination and test of the materials and workmanship even to the extent of discontinuing portion of the work temporarily or of uncovering or taking down portion of finished work.

19.0 **Protection to Plant:**
19.1 Except in case where RCDF’s express permission, is applied for and received in writing no use of RCDF’s plant facilities such as cranes, passenger elevator, toilets showers or machine shop etc. shall be made by erector or his employees.

19.2 RCDF shall not be responsible or held liable for any damage to person or properly consequent upon the use, misuse or failure of any construction tools and equipment used by erector of any of his subcontractors, even though such constructions tools and equipment may be furnished rented or loaned to erector or any of this contractors. The acceptance and/or use of any such constructions tools and equipment by erector or his subcontractor shall be constructed to mean that erector accepts all responsibility for and agrees to indemnify and save harmless RCDF from any and all claims for said damages resulting from said use, misuse or failure of such construction tools and equipments.

19.3 Erector and his subcontractors shall be responsible during work for protection of the work which has been completed by other contractors/suppliers. Necessary care shall be taken to see that no damage to the same is caused by his own men during the course of execution of their work.

19.4 All other work completed or in progress as well as machinery and equipment that are liable to be damaged by erector’s work shall be protected by erector and such protection shall remain and be maintained until its removal is directed by RCDF.

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19.5 Erector shall effectively protect all the works from action of weather and from damages or defacement and shall cover finished parts wherever required for their through protection. Face work shall be perfectly clean and free from defects.

19.6 The work shall be carried out to completion without damage to any work and properly adjacent to the area of his work to whom so ever it may belong, without interference with the operation of their existing machines or equipment.

19.7 Adequate lighting at and near all the shortage, handling, fabrication, preassembly and erection sites for properly carrying out the work and for safety and security shall be provided by erector. Erector should adequately light the work area during night time also. Erector should also engage adequate electricians/wireman, helpers etc. to carry out and maintain these lighting facilities. RCDF may provide such facilities as he may deem necessary and charge the cost thereof to the erector. In any case, erector shall be liable for all damages and consequences arising out of his neglect in this regard.

20.0 **Clean up of work site**

20.1 All soils, filth or other matter of an offensive nature taken out of any trench, sewer, drain, cesspool or other place shall not be deposited on the surface, but shall at once be carted away by the erector from the site of work for suitable and proper disposal.

20.2 Erector shall not store or place the equipment, materials or erection tools on the drive ways and streets and shall take care that his work in no way restricts or impedes traffic or passage of men and material. During erection, erector shall, without any additional payment, at all times, keep the working and storage area used by him free from accumulation of dust or combustible material, waste materials or rubbish, to avoid fire hazards and hindrance to other works, of RCDF.

20.3 If erector fails to comply with these requirements inspite of written instructions from RCDF, RCDF will proceed to clear these areas and the expenses incurred by the RCDF in this regard shall be payable by erector. Erector shall remove or dispose off in a satisfactory manner all scaffoldings, temporary structures, waste and debris and leave the premises in a conditions satisfactory to RCDF. Any packing materials received with the equipment shall remain as the property of RCDF and may be used by erector on payment of standard charges to RCDF and with prior approval of RCDF. At the completion of his work and before final payment, erector shall remove and shall restore the site to a neat workman like conditions, at his cost.

21.0 **Erector’s Personnel :**

Erector shall function as on erection organisation and furnish adequate courteous and competent labour (unskilled, semiskilled and skilled, watchman, etc.)

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supervisors, and engineers of all classes for the duration of the work to maintain the rate of erection in accordance with the requirement of the schedule of completion, and shall be in the work included in the contract at such times as will ensure its completion as specified and shall complete the same force of all lines and charged, at or before the time specified for completion. Erector shall make available qualified engineers for placing the equipment in operation and carrying out the necessary tests and trials. Conducts required of erector’s men are specified below:

21.1 It is important that erector shall employ men known to be reliable and competent for the work in general and it shall be requirement of the contract that men used on special works shall be competent, well trained and trusted employees.

21.2 Erector shall furnish details of the qualifications and experience of his senior supervisors and engineers assigned to the work including their experience in supervising erection and commissioning of plant and equipment of comparable capacity.

21.3 Erector shall be personally present or employ at least one competent representative (whose name shall have previously been communicated in writing to RCDF to supervise the erection of the equipment and carrying out the work under the contract. This representative shall have full technical capability and complete administrative and financial powers to expeditiously and efficiently execute the work under the contract. Erector or his representative or if more than one be employed, one of the representative shall be present at the site at all times when work is in progress, and any written orders or instructions which RCDF may give to the said representative of erector shall deemed to have been given to the erector. He shall maintain an office near/or adjacent to the site of the work, and shall at all times keep in office a complete set of specifications and drawings. RCDF shall normally communicate directly with the said representative at site.

21.4 Erector’s representative at the site shall be posted and be available at site within a reasonable time after RCDF shall inform erector in writing to the effect. The service of erector’s representatives shall be made available during the progress of the work for such periods during the working days as RCDF may require.

21.5 When erector or his representative is not present on any part of the work where it may be desired to give directions in the event of emergencies, orders may be given by RCDF and shall be received and obeyed by the supervisors or foreman who may have charge of the particular part of the work in reference to which order given. If requested to do so, RCDF shall confirm such orders in writing. Any such instruction, direction or notices given by RCDF shall be held to have been given to the erector.

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21.6 Erector shall furnish RCDF a fortnightly labour force report showing by classifications the number of employees engaged in the work. Erector’s employment records shall include any reasonable information as may be required by RCDF. The erector should also display necessary information as may be required by statutory regulations.

21.7 None of the erector’s superintendents, supervisors, engineers, or labour may be withdrawn from the work without the notice given to RCDF and further no such withdrawals shall be made if in the opinion of RCDF, it will jeopardise the required pace of progress and/or the successful completion of the work.

21.8 RCDF shall be at liberty to object to any representatives or person or skilled, semiskilled or unskilled worker employed by the erector in the execution, or otherwise, of the worker who shall misconduct himself, or be incompetent, or negligent or unsuitable and erector shall remove the person so objected to upon receipt of notice in writing from RCDF requiring him to do so and shall provide in his place a competent representative at his own expense within reasonable time.

22.0 Construction, Electric Power & Water:
Electric power and water will be made available for use by RCDF free of cost. These supplies will be made, where available at one central point in the site convenient to RCDF and all piping for service water to work area shall be furnished, installed and maintained by erector at his own expense. He shall also furnish, install and maintain at his cost the power lines, junction boxes and any other electrical receptacles, apparatus or equipment from the central point of his work area.

23.0 Drawings:
23.1 Within three weeks from the date of receipt of the order, erector shall submit list of necessary drawings as mentioned in 1.5, that he proposes to submit for approval, identifying each by a serial number and descriptive, title and giving the expected date of submission. This list shall be revised and extended, as necessary during the progress of work.

23.2 Erector shall also submit copies of design calculations, material specification and detailed drawings as called for in the equipment specifications for RCDF review. Erector must satisfy RCDF as to the validity of his design with reference to the requirement of statutory Code Authorities.
23.3 Drawings submitted for approval shall be signed by responsible representatives of erector and shall be to any one of the following sizes in accordance with

**Indian Standards:**

A0, A1, A2, A3, or A4

23.4 All drawings shall show the following particulars in the lower right hand corner in addition to Vendor’s name:

- a) Name of RCDF
- b) Project Title
- c) Title of Drawing
- d) Scale
- e) Date of drawing
- f) Drawing number
- g) Space for RCDF drawing number.

23.5 In addition to the information provided on drawings, each drawing shall carry a revision number, date of revision and brief of revision carried out. Whenever any revision is carried out, correspondingly revision must be updated.

23.6 All dimensions on drawings shall be in metric units, unless otherwise specified.

23.7 Drawings submitted by erector for approval will be checked and reviewed by RCDF and comments, if any, on the same will be conveyed to erector. It is the responsibility of the erector to incorporate correctly all the comments conveyed by RCDF on erector’s drawings. The drawings which are approved with comments are to be resubmitted to RCDF for purpose of records. Such drawings will not be checked/reviewed by RCDF to verify whether all the comments have been incorporated by the erector. If erector is unable to incorporate certain comments in his drawings, he shall clearly state in his forwarding letter such non-compliance along with the valid reasons.

23.8 Upon completion of the installation, erector shall make in a neat and accurate manner, a complete record of all changes and revision to the original design, as installed in the complete work. Six copies of these drawings shall be submitted to RCDF for records and these becomes the property of RCDF.

23.9 Drawings prepared by erector and approved by RCDF shall be considered as a part of the specifications. However, the examination and approval of the drawings by RCDF shall not relieve erector of his responsibility for engineering, design, workmanship and material under the contract.

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(RCDF)

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23.10 If, at any time before the completion of the work, changes are made necessitating revision of approved drawings, erector shall make such revision and proceed in the same routine as for the original approval.

24.0 **Inspection Right & Privileges:**

24.1 RCDF reserves the right to inspect any machinery or material or equipment furnished or used by erector under the contract, and to project any, which is found defective in workmanship or otherwise unsuitable for the use and purpose intended, or which is not in accordance with the intent of the contract.

24.2 Should RCDF waive the right to inspect any equipment, such waiver shall not relieve erector in anyway of his obligation under the contract.

24.3 RCDF representatives shall be permitted free access to erector’s or his subcontractor’s shop at all working hours for the purpose of inspecting work at all stages of progress.

24.4 RCDF representatives shall be given full assistance in the form of necessary tools, instruments, equipment and qualified operations to facilitate inspection.

24.5 RCDF reserves the right to call for certificate of origin and test certificates for all raw material and equipment at any stage of manufacture.

24.6 In the event of RCDF inspection reveals poor quality of goods RCDF shall be at liberty to specify additional inspection procedures, if required, to ascertain Vendor’s compliance with the equipment specifications.

24.7 Even though inspection is carried out by RCDF or his representatives, such inspection shall not however, relieve Vendor of all responsibility for furnishing equipment conforming to the requirements of the contract, nor prejudice any claim right or privilege which RCDF may have because of the use of defective or unsatisfactory equipment.

24.8 A set of latest prints of the approved drawings shall be kept available by the controller, in the shop floor for reference of RCDF representative during inspection.

25.0 **Storage of equipment:**

25.1 In general, erector is responsible for the proper storage and maintenance of all materials/equipments entrusted to him. He shall take all required steps to carry out frequent inspection of equipment/materials/stores as well as erected equipments until the same is taken over by the RCDF. The following procedure shall apply for the same.
25.2 Erector’s inspector shall check stored and installed equipments/materials to observe signs of corrosion, damage to protective coating, to parts, open ends in pipes, vessels and equipment, insulation resistance of electrical equipment etc. In case open ends are noticed, he shall immediately get them capped. In case signs of wear damage to protective coating are noticed, he shall immediately arrange a coat of protective painting. A clean record of all observations made on equipments, defects noticed shall be promptly communicated to RCDF and his advise taken regarding the repairs/rectification erector shall thereupon carryout such repairs rectifications at his own cost. In case erector is not competent to carry out such repairs/rectification, RCDF reserves the right to get this done by other competent agencies at the erectors responsibility and risk and the entire cost for the same shall be recovered from erectors bill.

25.3 Erector’s inspectors shall also inspect and provide lubrication to the assembled pumps etc. The shafts of such equipment shall be periodically rotated to prevent rusting in certain zones as well as to check freeness of the same.

25.4 Inspectors shall check for any sign of ingress or moisture of rusting in any equipment.

25.5 If the commissioning of the equipment is delayed after installation of the equipment, erector shall carry out all protective measures suggested by the Manufacturer RCDF during such period.

25.6 Adequate security measures shall be taken by erector to prevent theft and loss of material entrusted to him by RCDF shall carry out periodical inventory of the material received stored and installed by him and any loss noticed shall be immediately reported to RCDF. A proper record of these inventories shall be maintained by the erector.

25.7 A suitable grease recommended for protection of surface against rusting (refined from petroleum oil with lanolin mincu, 70 C and water in traces) shall be applied over all equipment every six months.

25.8 These equipments shall be stored inside a closed shed or in the open depending upon whether they are of indoor or outdoors design. However, in case of equipment stored in the open, suitable protective measures including covering with tarpaulin must be carried out by the erector. The space heaters, where provided in the electrical equipment shall be kept connected with power supply irrespective of their type of storage. Where space heaters are not provided adequate heating with bulb is recommended. In LT. motors a low voltage current flow through the windings is recommended. Frequent checks on insulation resistance is essential for all electrical equipments. A records of the inspection reports and megger readings shall be maintained equipment wise. Such records shall be presented to RCDF whenever demanded.

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25.9 All the necessary items/goods required for the protection as described above shall be arranged by the erector and no extra cost is payable in this regard by RCDF.

26.0 **Deployment of erection team to site and Co-ordination meetings:**

The erector shall depute a qualified and experienced engineers together with a adequate skilled and unskilled labourers for carrying out the installation and commissioning. All necessary staff shall be at the site till the completion of all works, commissioning / start-up, trial runs and handling over of the plant. No member of the staff deputed to site shall be withdrawn unless agreed to by RCDF. The erector shall depute senior personnel to attend the site co-ordination meeting that would generally be held at the site every month. The erector shall take necessary action to implement the decision arrived at such meetings and shall also update the schedule. In case of lag in the progress the erector shall act suitably to make up for the lag. RCDF shall be at liberty to object to any representative or person or skilled, semiskilled or unskilled worker employed by the erector in the execution or otherwise of the work, who shall misconduct himself or be incompetent, or negligent or unsuitable and the erector shall remove the persons so objected to, upon receipt of notice in writing from RCDF requiring him to do so and shall provide in his place a competent representative at his own expense within reasonable time.

27.0 **Programme of Installation & Commissioning:**

The successful erector should submit a scheduled programme for carrying out the work. The erection schedule should describe the estimated time of installation of each of each item against each section of the project and should also clarify when each of the items to be supplied by RCDF should be made available to the erector in order to adhere to the schedule.

The schedule should be so prepared that the erection, commissioning, testing and start-up is completed in all respect, within the time schedule specified in the specifications and subsequently reiterated in the RAL / PO from the date of placement of order.

RCDF shall have the right to direct the manner in which all work covered under the scope of this contract shall be conducted by the erector in so far as it may be necessary to secure the safe and proper progress and the specified quality of the work and all work shall be carried out and all material shall be furnished to the satisfaction and approval of RCDF whenever, in the opinion of RCDF, the erector has made departures from the schedule of completion of work submitted by him and approved by RCDF or when untoward circumstances force a departure from the said schedule or if in the judgment of RCDF, if becomes necessary at any time to accelerate pace of erection work, then RCDF shall direct the order pace and method of conducting the work and erector shall fully comply with all such directions.

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If erector doesn’t comply with the direction as described above or complete the erection and commissioning by the end of 4th week after programmed completion, RCDF will operate the penalty clause and shall also have the option to deploy their own staff/other agencies to complete the job at the erectors risk, responsibility and cost.

It is however, clarified that the above or any such directions from RCDF or abstinence of RCDF in deploying their own staff/other agencies as described above shall not relieve the erector of his obligations to secure the quality, the safe conduction of work, rate of progress required and adherence to scheduled programme.

IF THE ERECTOR FAILS TO COMPLETE ERECTION IN ALL ASPECTS WITHIN THE STIPULATED PERIOD & TIME, THE ERECTOR SHALL HAVE TO PAY RUPEES @ 2½% FOR DELAY OF EVERY 1/4TH OF THE PRESCRIBED DELIVERY PERIOD AS PENALTY FOR THE PERIOD FOR WHICH THE WORK REMAINS INCOMPLETE, SUBJECT TO A MAXIMUM AMOUNT OF 10% OF THE UNEXECUTED ORDER VALUE.

28.0 Approvals :

The erector shall obtain the necessary approval of the factory Inspector, Boiler Inspector, Electrical Inspector weights & Measures Inspector, Explosives Inspector, and any other state and local authorities as may be required. All the necessary details, drawings, submission of application and proformas will be furnished by the Erector to RCDF for rectification/signature.

The necessary application duly filled in, together with the prescribed fees shall be submitted to the authorities by the erector on behalf of the RCDF. However all the actual prescribed fees paid by the erector shall be reimbursed by RCDF upon production of the receipt/vouchers of the above said authorities.

RCDF shall, however, extend all possible assistance to the erector for obtaining the necessary approvals. Nevertheless the ultimate responsibility for obtaining the necessary approvals lies with the erector.

29.0 Final Drawings & Manuals :
The erector shall, upon completion of the job, submit six complete sets of final drawings towards the equipment layout different pipe lines, cables, conduits, layout drawings and other necessary drawings. All the drawings must conform to actual executing carried out.

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30.0 **Progress of Work:**  
If the erector does not commence/complete the entire job or sections of the job within four weeks from programme schedule of commencement/completion, the RCDF shall be free to deploy their own staff/agencies to commence/complete the job entirely at the risk, responsibility and cost of the erector.

30.1 **Start-up of manufacturer’s representatives during commissioning/trial runs.**

30.2 In the following cases the RCDF reserves the right to invite the representative(s) of the original manufacturer and/or supplier at the cost of the erector for start by help, assistance and guidance during commissioning and start-up.

   a) The erector has no previous experience of commissioning and start-up of the similar equipment.
   b) The RCDF is of the opinion that the erector is incompetent to commission and start-up of certain specific equipment.

31.0 **Commissioning:**  
The erector shall operate, maintain and give satisfactory trial run of the plant satisfactory for a period of continuous one month at the rated output. All rectifications of damages/defects and routine troubles shooting should be carried out by the erector to achieve aforesaid satisfactory running of the plant. The erector shall incorporate/execute necessary minor modification during the trial period for maximising operational efficiency. The erector should also execute minor modification as may be suggested by RCDF. The erector shall suggest recommended log sheet proformas for recording necessary operating data and pass it on to RCDF in proof of satisfactory rated output and performance of the equipment/plant.

The commissioning shall also include the following for each equipment:

   a) Field disassembly and assembly.
   b) Cleaning of lubrication system including chemicals cleaning and passivation wherever required.
   c) Circulation of lubricant to check flow.
   d) Cleaning and checking of all the service lines.
   e) Checking and commissioning of instruments, equipment and plants, filtering of transformer, and other oils so that if deteriorated, they shall attain the required properties/standard, specified tests in this regard must be carried out by approved authorities and their satisfactory reports submitted to RCDF before start-up.

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f) Recharging or make-up filling of lubricant oil up to the desired level in the lubrication system of individual machine.

g) Operation in empty condition to check general operation details wherever required, and wherever possible.

h) Closed loop dynamic testing with water wherever required.

i) Operation under load and gradual load increase to attain maximum rated output.

j) Trouble shooting during the trial period.

k) Guarantee of installation.

32.0 Guarantee:
The supply of equipment as well as installation shall have to be carried out by the erector to the entire satisfaction of the RCDF. The erector shall also guarantee to repair/replace, without any extra cost, the items or parts thereof, if found defective due to bad design, workmanship or substandard material within 12 months from the date of commissioning or 24 months from the date of receipt of material at site whichever is earlier. If it is necessary to send the defective equipment or parts thereof for repair/replacement, cost of transportation including package, insurance etc. from the site to works and back to site shall have to be borne by the erector. The guarantee does not cover any damage resulting from normal wear and tear or improper attendance or mishandling of the equipment by the RCDF.

33.0 Training of personnel:
Necessary staff as may be deputed by RCDF shall be trained by the erector for operating the plant. The personnel will be associated for the training during the installation, testing, commissioning and start-up period and training tenure shall be minimum for a period of one month from the date of commissioning and start-up.

34.0 Outline of the scope of duties of the Contractor vis-à-vis RCDF:
34.1 The equipment and items as specified in purchase order shall be supplied by RCDF for erection, installation, commissioning by the erector.

34.2 Besides the utilities/services as specified in battery limits the following shall also be provided to the erector by RCDF for carrying out the installation/erection.

a) Suitable lockable space for storage of tools, tackles and erection materials (No accommodation for erectors personnel will be provided under any
circumstances) the security of these materials will be the responsibility of the erector.

b) Plant building ready for installation/erection of all the equipment/items (flooring will generally be carried out after positioning of main equipment and laying of necessary conduits).

c) Necessary temporary power for carrying out the installation (the power shall be supplied at only one point within the dairy site). All necessary tapping from this point onwards shall be erector’s responsibility.

d) Temporary water at one point within the site for the water required for testing etc. The erector shall arrange on his own to tap and transfer the water to the points required.

34.3 **Prior Information:**

a) The details of temporary water and power requirements shall be furnished one month in advance by the erector to enable RCDF to make timely arrangement.

b) Detailed drawings of the required main cut-outs must be supplied by the erector in advance to RCDF to provide the same at the time of civil construction. The cutting in the walls, floors etc. which are not informed earlier and required for erection work will be done by the erector and to repair the same will also be the responsibility of the erector.

c) Detailed drawings and other specifications of foundation and any other special structure must be submitted by the erector within one month after award of contract to RCDF.

35.0 **Damage:**

If the work or any portion thereof shall be damaged in any way excepting by the acts of RCDF or if defects not readily detected by prior inspection shall develop before the final completion and acceptance of the whole work. Erector shall forthwith make good, without compensation, such damage or defects in a manner satisfactory to the RCDF. In no case shall defective or imperfect work be retained.

36.0 **Observation of local rules etc.**

In respect of observation of local rules, administrative orders, working hours, labour compensation act, applicable labour laws and the like erector and his personnel shall strictly abide by the same.
37.0 **Stand by manufacturer’s representative**:

In the following cases the RCDF reserves the right to invite the representative(s) of the original manufacturer and/or supplier at the cost of erector for stand by them, assistance and guidance during the commissioning and start-up.

a) The erector has no previous experience of commissioning and start-up of the similar equipments.

b) The RCDF is of the opinion that the erector is not competent to commission and start-up of certain specific equipment, the opinion of RCDF shall be final and binding.

38.0 **Inspection & test reports**:

The equipment and items supplied under the purview of erector shall be inspected by the inspector at works and copies of inspection test reports shall be forwarded to RCDF.

39.0 **Terms of payment for erection work**:

90% on submission of progressive bills duly certified by the authorized representatives/ Site Engineer of RCDF and balance 10% within 12 months from satisfactory commissioning of the equipment. However, the balance 10% will also be released, if so desired by the supplier, provided the supplier furnishes a Bank Guarantee from a Scheduled or Nationalized Bank for the 10% value valid for a period of 12 calendar months from the date of issue of Bank Guarantee in the Performa enclosed.

40.0 **Battery Limits**:

The services/utilities will be made available at battery limits specified in the job description and it will be the erectors responsibility to transmit them to the various points required in the project. All the necessary fittings tappings, that would be required to tap the utility at battery limits for onward transmission shall be supplied and installed by the erector.

41.0 **GENERAL GUIDELINES FOR ELECTRICAL INSTALLATION**:

41.1 a) The specifications detail the broad guide lines for erection, testing and commissioning of electrical equipment. The work shall however, at all times be carried out strictly as per the instructions of RCDF and in accordance with latest IER.

b) The installation would also comprise for the supply laying and inter connecting, cables form the battery limits of the power supply to the various switchboards controls and electrical equipments.
c) The cable of electric power should be of PVC armoured type approved from ISI unless otherwise specified and with sufficient cross section depending on the feeder.

d) The cable for control and flexible connection should be unarmoured type with copper conductors. Wherever required, multicore copper cable should be used.

e) Wherever necessary drip proof junction boxes and isolators, cable carrying trays, necessary clamps etc. shall be provided.

f) Necessary isolators of appropriate sizes are to be provided near the motors as per IER. All the involved supply included within the scope of electrical installation and erection should be approved type and make and conform to ISI standard.

g) Detailed electrical diagrams and cable layout should be prepared by the erector according to the specifications and the same should be approved by RCDF before the execution.

41.2 Electrical installation work shall comply with all currently applicable statues, regulations and safety codes in the locality where the equipment will be installed. Nothing in this specifications shall be construed to relieve erector of his responsibility.

41.3 Unless otherwise specified installation work shall comply with the requirements of latest additions of applicable Indian standards.

41.4 In accordance with the specific installation instructions, as shown on manufacturer’s drawings or as directed by Site Engineer of RCDF, the erector shall unload, erect, install wire test and put into commercial use all the electrical equipment included in the contract. Equipment shall be installed in neat workman like manner so that if is in level and plumb, properly aligned and oriented. Tolerance shall be established in manufacturer’s drawings or as stipulated by an Engineer. No equipment shall be permanently bolted down to foundation or structure until the alignment has been checked.

41.5 Erector shall furnish all supervision, labour, tools, equipment, ribbing, materials and incidental materials such as holts, wedges, anchors, concrete, inserts etc. required to completely install test and adjust the equipment.

41.6 Where assemblies are supplied is more than one section erector shall make all necessary mechanical and electrical connections between sections including the connection between buses. Erector shall also do necessary adjustment/alignments necessary for proper operations of circuit breakers isolators, and their operating mechanism. All insulators and bushings chipped,
cracked or damaged due to negligence or carelessness of erector shall be replaced by him at his own expense.

41.7 Switchgear and control panels/desks shall be installed in accordance with Indian Standard Code of Practice IS:3072 and manufacturer’s instructions. The switch gears panels shall be installed on finished surfaces or concrete or steel sills. Erector shall be required to install align any channel sills which from part of the foundations. In joining shipping suction of the switch gears/panels/control centres together, adjacent housing or panel section or flanged throat sections provided shall be bolted together after alignment has been completed. Power bus, enclosures, ground and control splices of conventional nature shall be cleaned and bolted together, being drawn up with torque wrench of proper size or by other approved means. Tapes or compounds shall be applied where called for as per manufacturer’s drawings. Base of outdoor type units shall be sealed in an approved manner to prevent ingress of moisture.

41.8 All switch gear, control panels, desks etc. shall be made absolutely vermin proof.

41.9 Induction motors shall be installed and commissioned as per IS Code of Practice ISS 900 and manufacturer’s instructions.

41.10 After installation of all power and control wiring, erector shall perform operating test on all switch gear and panels to verify proper operation of switch gear/panels and correctness of the interconnections between the various items or equipment. This shall be done by applying normal AC or DC voltage to the circuit and operating the equipment. Megger tests for insulations, polarity checks on the instruments transformers, operation tests shall be carried out by erector, who shall also make all necessary adjustments as specified by the manufacturer for the proper functioning of equipment.

41.11 Installation and testing of battery and battery charges shall be in strict compliance with the manufacturer’s instructions. Each cell shall be inspected for breakage and conditions of the cover seals as soon as received at site. Each cell shall be filled with electrolyte in accordance with the manufacturer’s instructions. Battery shall be set up on racks as soon as possible after receipt, utilizing lifting devices supplied by manufacturer. The cells shall not be lifted by terminals. Contact surfaces of battery terminals and intercell connections shall be cleaned, coated with protective grease and assembled. Each connection shall be properly tightened. Each cell shall be tested with by hydrometer and thermometer and result logged. Freshening charge, if required, shall be provided. When turned over to RCDF the battery shall be fully charged and electrolyte shall be at full level and of specified specific gravity.

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42.0 **Cable Installation:**

42.1 Erector shall install, test and commission the suitable cables. Cables shall be laid directly buried in earth on cable racks, in built up trenches, on cable trays and supports, in conduits, and ducts or bare on walls, ceiling etc. as follows:

a) **Outside the building premises:**

The scope of installation of underground cables includes digging necessary trenches, laying of the cables in the trench, covering them with sand and bricks and then refilling the trenches. Necessary cable markers at appropriate points to indicate the path of under ground cable should also be supplied and installed by the erector.

b) **With in the building:**

Under ground cables will be laid in GI light duty class pipes of not less than 37 mm. dia.

c) **Cables above ground:**

Cables above the ground shall be fixed either on wall or in cable trays of slotted angle with necessary clamps, bolts etc. as directed by RCDF.

d) The main cables inside the building should be laid in hume pipes wherever provided by RCDF. At the places where hume pipes have not provided the main cables shall be laid as per 40.1 (c).

42.2 Installation and testing of proper insulated cables shall be in accordance with Indian Standard Code of Practice IS:1255.

42.3 Inspection on receipt unloading, storage and handling of cables shall be in accordance with IS:1255 and other Indian Standards Code of Practice.

42.4 Sharp bending and kinking of cables shall be avoided. The bending radius for various types of cables shall not be less than those specified below unless specifically approved by the Site Engineer of RCDF.

<table>
<thead>
<tr>
<th>Type of Cable</th>
<th>Minimum bending radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage grade</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Single Core</td>
</tr>
<tr>
<td>Paper insulated upto 11 kv</td>
<td>25 D*</td>
</tr>
<tr>
<td>Paper insulated upto 22 kv</td>
<td>32 D</td>
</tr>
<tr>
<td>Paper insulated upto 33 kv</td>
<td>38 D</td>
</tr>
</tbody>
</table>

(Signed & sealed by the tenderer in token of acceptance of above)

(RCDF) Jaipur
PVC insulated 650/1100 V 10 D 10 D 10 D
Rubber insulated 600 V - 8 D 15 D
Mineral insulated 300 V - - 8 D

* (D – OVER ALL DIAMETER OF THE CABLE)

If shorter radius appears necessary, no bend shall be made until clearance and instructions have been received from Engineer.

42.5 Where cables cross roads and water, oil, gas or sewage pipes, the cables shall be laid in reinforced upon concrete or steel pipes to be supplied and laid by the erector. For road crossing, the pipes for the cables shall be buried at not less than one meter depth. Cables laid below railway tracks should be at a depth not less than 180 mm. unless otherwise approved by the Engineer.

42.6 In each cables run some extra length shall be kept at a suitable point to enable one or two straight through joints to be made should be the cable develop fault at a later date.

42.7 Control cable terminations shall be made in accordance with wiring diagrams, using colour codes established by Engineer for the various control circuits, by code marked wiring diagrams furnished to the erector for this purpose or other approved means of identification. It is the intent that erector shall terminate the cables which he installs. Additional work of testing and reconnecting and connected, but where on further testing reversal or other rearrangement of load turns out to be necessary. Additional work of testing and reconnecting shall be performed by erector at no extra cost of RCDF.

42.8 Special tools, clips and saddles, glands, seals, PVC sealing compound, locknut etc. required for the connection and termination of insulated cables shall be supplied by erector. During installation, connection and termination of insulated cables, care shall be exercised to ensure that aluminium sheet is not damaged. Groups of mineral insulated cables shall be bent neatly around the corners by using inner most cables as a form around, which to bend the next cable. Cables shall not be fastened or clamped close to the point of entry of the equipment which may vibrate severely. Special instructions furnished by the manufacturer shall be strictly followed.

42.9 After installation and alignment of motors, erector shall complete the conduit installation, including a section of flexible conduit between the motor terminal box and cable trench/tray. Erector shall install and connect the power, control and heater supply cables. Erector shall be responsible for correct phasing of the motor power connections and shall interchange connections at the motor terminals box if necessary, after each motor is test run.

(Signed & sealed by the tenderer
in token of acceptance of above)

(RCDF)
Jaipur
42.10 Connections shall be made to small electrically operated device on equipment installed as accessories to or assembled with other equipment and requiring two wire or three wire connection. Connections to recording instruments, float switches, limit switches, pressure switches, thermocouples, thermostats and other miscellaneous equipment shall be done as per Manufacturer’s drawing and instructions.

42.11 Metal sheets and armour of the cable shall be bonded to the earthing system.

42.12 All new cables shall be megger tested before jointing. After jointing is completed all LT. cables shall be megger tested and HT. Cables (3.3 KV to 11 KV) pressure tested before commissioning. The test voltage for pressure testing shall be as per Appendix-F of IS:1255. 1100/650 Volt grade cable shall be tested by 1000 Volt Megger.

Cables cores shall be tested for:

a) Continuity  
b) Absence of cross phasing  
c) Insulation resistance to earth  
d) Insulating resistance between conductors.

Erector shall furnish all testing kit and instruments required for field testing.

43.0 **Cable Trays, Accessories and Tray Supports**:

43.1 Cable trays shall either be run in concrete trenches or run overhead supported from building steel, floor slab etc.

43.2 Cables shall be clamped to the cable trays in the horizontal runs and vertical runs.

43.3 All cable trays including perforated sheet trays and vertical raceways shall be hot dip galvanized or primed with red lead and oil primer followed by a finish coat of grey lacquer paint or aluminium paint as specified.

44.0 **Conduits, Pipes & Ducts**:

44.1 Erector shall supply and install G.I. light duty conduits, pipes and ducts. All accessories/fittings required for making installation complete, including but not limited to ordinary and inspection tees and elbows, check nuts, male and female reducers and enlargers, wooden plugs, caps square headed male plugs, nipples, gland sealing fittings, pull boxes, conduits, outlet boxes, splice boxes terminal boxes, glands gaskets and box covers, saddles and all steel supporting work shall be supplied by Erector. Conduit fittings shall be of same material as conduits.

(Signed & sealed by the tenderer  
in token of acceptance of above)  
(RCDF)  
Jaipur
44.2 Conduits or pipes shall run along walls, floors and ceilings, on steel supports, embedded in soil, floor, wall or foundation, in accordance with relevant layout drawings, under ground portions of conduit installation to be embedded in the foundation or structural concrete shall be installed in close co-ordination with collateral work. Exposed conduit shall be neatly run and evenly spaced, with conduits parallel when in racks or in banks. Conduits embedded in foundation or structural concrete shall be run as directly as possible among with generally indicated route between two points with a minimum length and with a minimum of crossing bending and cutting but without creating interferences with other installations.

44.3 When two lengths of conduits are joined together through a coupling, running threads equal to twice the length of coupling shall be provided on any one length to facilitate easy dismantling of the two conduits whenever required.

44.4 When one or more cables are drawing through a conduit, cross sectional area of the cables shall be 40% of the internal cross sectional area of the conduit.

44.5 Conduits and accessories shall be adequately protected against mechanical damage as well as corrosion.

45.0 **Earthing**:

45.1 The scope of supply and installation should also include absolutely independent double earthing of individual electric motors, control gears and switchboards, complete with necessary copper/GI wire, copper strip, earthing plate, top funnel, salt, cola etc. The earthing process include digging of earthing pit, filling the same with alternative layers of coal and salt, refilling the pit and providing perforated GI pipe making housing pit and cover as per IER & ISI code of practice No. ISI:3034-1966.

45.2 Erector shall install bare/insulated aluminium/GI Cables and strips, etc. required for system and individual equipment earthing. All work such as cutting, bending, supporting soldering, coating drilling, brazing, clamping, bolting and connecting into structures, pipes, equipment frames, terminals, rails or other devices shall be in Erector’s scope of work. Unless otherwise specified, the excavation and trenching shall be done by Erector. Erector shall also backfill and reinstate the trenches after installation of earthing conductors.

45.3 Earthing shall conform to the Indian Standard Code of practice IS:3043 and Indian Electricity Rules, 1956. All materials and fittings used in the earthing installation shall conform to the relevant Indian Standards or approved by RCDF’s Engineer. Any change in routing, size of conductors etc. shall be subject to the prior approval of RCDF Engineers.

45.4 Metallic frame of all electrical equipment shall be earthed by two separate and district connections with earthing system.

(Signed & sealed by the tenderer (RCDF)
in token of acceptance of above) Jaipur
45.5 All underground connections for the earthing system shall be brazed/welded. Connections to equipment and devices shall be normally of the bolted type.

45.6 On completion of the installation, continuity of all conductors and efficiency of all bends and joints shall be tested. The earth resistance shall be tested in the presence of RCDF Engineer’s/representative. All equipment necessary for the test shall be furnished by Erector.

46.0 **Supply, Fabrication, Erection and Testing of Piping:**

46.1 **Codes and standards:**

All piping system including sub-contracted materials shall comply with the latest editions of the following wherever applicable:

- a) Indian Boiler Regulation
- b) Regulation of Inspector of Explosives
- c) All applicable Indian Standards
- d) All applicable State Laws.

46.2 **Scope of Supply:**

Erector shall supply all piping materials like pipes, fittings, flanges and other items as shown in his scope in the flow diagrams/specifications.

46.3 Scope of erection to be performed by Erector is outlined below:

- a) The scope of erection for piping includes all system covered under his scope of work in the flow diagram/specification.
- b) Erector shall also install small accessory, piping an any specialities furnished with or for equipment such as relief valves, built is bypass, and other items of this type.
- c) Erector’s work terminates at the final tube or pipe connection at pumps, including the final connection.
- d) Erector shall install primary elements for flow measurement, control valves, and on line metering equipment.
- e) Erector shall perform necessary internal machining of pipe for installing crevices, flow nozzles, straightening vances, control valves.
- f) Erector shall install all valves and specialities being procured from others.

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Jaipur
g) Erector shall hydrostatically test all piping systems including valves and specialities & instrument impulse line at suitable pressures.

h) All piping shall be internally cleaned and flushed by Erector before and after erection in a manner suited to the service as directed by RCDF.

i) For hydrostatic testing and water flushing, erector shall furnish necessary pumps, equipment and instruments, piping etc. Purchase will provide water at available points of supply to which Erector’s temporary piping will be connected.

46.4 Colour code shall be used to identify pipe material. Erector shall be able to identify on request all random piping prior to any field fabrication.

46.5 All steam piping shall be fabricated in complete accordance with Indian Boiler Code and all approval required shall be obtained by Erector from the inspecting authority.

46.6 Erector shall be responsible for the quality of welding done by his organisation and shall conduct tests to determine the suitability of the welding procedure used by him.

46.7 Erector shall employ welded construction for all black steel piping. All black steel pipes 50 mm. and below shall have socket welded joints unless otherwise specified.

46.8 All piping supports, guides, anchors, rod hangers, spring hangers, rollers with incidental structural sub framing shall be furnished and erected by Erector.

46.9 All piping shall be suspended, guided and anchored with due regard to general requirements and to avoid interference with other pipes, hangers, electrical conduits and their supports, structural members and equipment and to accommodate insulation to conform to purchaser’s loading limitation. It is the responsibility of the piping Erector to avoid all interferences while locating hangers and supports.

46.10 Anchors and/or guides for pipe lines or for other purpose shall be furnished when specified for holding the pipe line in position or alignment. Hangers shall be designed fabricated and assembled in such a manner that they cannot become disengaged by any movement of the support pipe.

46.11 All piping shall be wire brushed and purged with air blast to remove all dust, mill scale from inner surface. The method of cleaning shall be such that no material is left on the inner or outer surfaces which will affect the serviceability of the pipe.

46.12 Effective precaution such as capping and sealing shall be taken to protect all pipes ends against ingress of dirt and damage during transit or storage. The
outside of the carbon steel pipe (black) shall receive two coats of red lead
paint.

47.0 **Testing for**:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HP Steam</td>
</tr>
<tr>
<td>2</td>
<td>LP Steam</td>
</tr>
<tr>
<td>3</td>
<td>Glycol</td>
</tr>
<tr>
<td>4</td>
<td>Soft and Raw Water</td>
</tr>
<tr>
<td>5</td>
<td>Air</td>
</tr>
<tr>
<td>6</td>
<td>SS Piping</td>
</tr>
<tr>
<td>7</td>
<td>Insulation</td>
</tr>
<tr>
<td>8</td>
<td>Electricals</td>
</tr>
<tr>
<td>9</td>
<td>Motors</td>
</tr>
<tr>
<td>10</td>
<td>Equipments</td>
</tr>
</tbody>
</table>

Should conform to the latest ISI standards.

48.0 **Service piping Installation guide lines**:

48.1 **Chilled water & Glycol piping (if mentioned in purchase order)**

The scope of erection and installation if mentioned, comprises a set of GI ‘B’
class pipes and fittings for chilled water and glycol including supports,
isoulation and non-return valves etc. for providing chilled water or glycol to all
the equipment which would require chilled water or glycol. All the necessary
headers for interconnecting all the chilled water and glycol pumps and
auxiliary materials like adapters, reducers, flanges, union, valves/cock(s) / (of
gun-metal/brass for valves upto 100 mm. dia), strainers, gaskets, packing etc.
required for the pipe should also be supplied and installed by the erector. The
pipeline should be insulated as per the specification detailed.

48.2 **Steam & Hot Water and molasses Piping (if mentioned in purchase order)**

The scope of supply and installation of mentioned, comprises the following set
of steam pipes and fittings for providing steam connections from the indicated
battery point to all the equipments requiring steam in accordance with IBR, MS
Class ‘C’ pipes, fittings and auxiliary items. The scope of supply and
installation includes the necessary pipes supports, isolation supports, isolation
valves, nonreturn valves, safety valves, check valves, pressure reducing valves
steam traps, strainers, expanders, bends, gaskets, packing, sight glasses,
pressure gauges etc. The manufacturer’s certificates that the material conforms
to IBR duly attested by concerned authority should be furnished for all items as
per requirements. The necessary check valves(s) and other fittings required at
the sources of tapping at the battery point should also be supplied and installed
by the erector.

Set of condensate pipes and fittings of MS Class ‘C’ to interconnect the
condensate return line. The supply is inclusive of necessary pipe supports
isolation valves, check valves, bends, gaskets, packing etc.

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Jaipur
48.3 **Soft well water piping (if mentioned in purchase order)**

The scope of installation comprises (if mentioned) a set of well water pipes and fittings including supports, isolation and non-return valves etc. Pipes of GI Class ‘B’ for providing well water to sterilizer would be required. All the necessary headers for inter-connecting the water pumps and auxiliary material like adopters reducers, flanges, union valves/checks (of gun metal/brass for valve upto 100 mm dia), bends, strainers, gaskets, packing etc. required for the pipe should also be supplied and installed by the erector.

48.4 **Water distribution (if mentioned in purchase order)**

The scope of supply and installation if mentioned comprises of the following:

Set of water pipes and fittings of GI Class ‘B’ for providing water connection to the various equipment/items and points requiring water (raw and soft water) from battery limits. The scope is also inclusive of the necessary pipes and fittings, GI Class ‘B’ for the soft water from the softening plant to soft water overhead tank if specifically mentioned and further to all the equipments requiring soft water and interconnections with suitable valves etc. from all the compartments of the overhead tank. The supply and installation is inclusive of necessary pipe supports, isolated valves, strainers, bends gaskets, packing, polythene/copper tubes and all other necessary auxiliary items.

48.5 **Air requirement (if mentioned in purchase order)**

The scope of supply and installation if mentioned comprise of the following:

Set of air pipes and fittings in accordance with MS ‘C’ Class for providing air to the various equipments/items and controls and points requiring the same. The scope of supply and installation is inclusive of necessary pipe supports, valves, filters, bends, gaskets, packing, polythene, copper tubes and all other necessary auxiliary items.

48.6 All the above referred piping should generally be of welded execution and must be removed of mill scales and properly cleaned before installation.

49.0 **Important Note:**

49.1 All the necessary materials, of a quality and make approved by RCDF required for carrying out the installation mentioned in 46.2 shall be supplied by the Erector.
49.2 **Piping (SS) (if mentioned in Purchase Order)**

The scope includes the installation and interconnection of a set of SS Pipes and fittings, including cocks, valves, Tees, flanges, unions, bends, reducers, liners and other necessary fittings SMS/IDF standards, for interconnecting all the equipment listed. Necessary pipe supports shall be also installed by the Erector.

49.3 **Pipe fittings at connection points**

All the required fittings that would be needed in the piping at all the tapping, termination, connection and intermediate points must be installed by the Erector.

49.4 The erector shall prepare and submit the piping layout drawing, details of supports, details of tapping, termination interconnection etc. for approval. All the piping work shall be carried out strictly in accordance with the approved drawings/details. The respective milk flow diagram to which the piping layout correspondence must also be furnished by the erector.

50.0 **Insulation (if mentioned in Purchase Order)**

50.1 **Insulation of chilled water, Glycol pipelines & ammonia suction line:**

All the chilled water pipelines shall be insulated as specified with 50 mm/75 mm thick expanded polystyrene (50 mm for pipe 100 mm dia or less size) and all the Glycol pipeline should be installed with 75 mm thick expanded polystyrene in suitable pipe sections. The insulation shall be carried out in the following manner.

1) The surface of the pipe to be insulated should be properly cleaned.

2) Hot bitumen should be applied uniformly @ 1.5 kg. per sq. mm. on the surface of the pipe.

3) A similar layer of bitumen should be applied on the inner surface and on the edges of the insulation section.

4) The sections should then be stuck to the coated pipe with joints staggered. Adjacent sections should be tightly pressed together.

5) All joints should be properly sealed with bitumen.

6) A thick vapour seal of hot bitumen @ 2.5 kg per sq. mm. should be applied uniformly on the outer surface of the pipe sections and allowed to dry.

(Signed & sealed by the tenderer (RCDF)
in token of acceptance of above) Jaipur
7) The chilled water and Glycol lines, after insulation must then be covered with 22 gauge aluminium sheet with proper grooves and overlaps and secured in position with 12 mm. self tapping Parker screws.

8) In case the insulation sweats or the specified/required insulation properties are not attained, the entire insulation in such region shall be redone with fresh material, entirely by the erector at his own cost.

50.2 **Insulation of Steam condensate & Hot water pipe lines**:

All the steam and hot water pipes shall be insulated with 50 mm. thick mineral wool or equivalent. The insulation shall be carried out in the following manner:

1) Cleaning of surface to be insulated. Applying a coat of red oxide primer and fixing glass wool/mineral wool of suitable thickness tightly to the pipe, butting all joints to be tied with lacking wire.

2) The insulation should be covered with GI wire netting.

3) The steam and hot water lines, after insulation must be covered with 22 gauge aluminium sheet with proper grooves and overlaps and secured in position with 12 mm. self tapping Parker screws.

4) In case the insulation does not have the desired insulation properties, the entire insulation will have to be redone at the erector’s cost to give the desired results.

5) In case of condensate return piping, all the steps mentioned above shall be executed except that the thickness of insulation shall be 30 mm.

50.3 **Insulation of chilled water tank (if specified in the Purchase Order)**:

a) The surface is cleaned with the help of brushes to remove any loose particles.

b) A cost of bitumen at 1.0 kg/m is applied over the flooring and alkathena sheet is press-laid in act as a vapour barrier.

c) Bitumen is then applied on the alkathena sheet and one side and edges of the insulation slabs to ensure a total rate of 2.0 kg/m between contacting surfaces. The slabs are then fixed in position, making sure there are no joints between slabs.

d) If double layer insulation is required then bitumen is again applied on all contacting surfaces to ensured a total rate of 1.5 kg/m between contacting surfaces.

e) A coat of bitumen at 1.5 kg/m is applied over the insulation surfaces.

51.0 All the necessary materials of quality and make approved by RCDF required for carrying out the insulation mentioned in 50.1, 50.2 and 50.3 shall be supplied by the erector.
TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

To,
Managing Director,
Rajasthan Co-operative Dairy Federation Ltd.,
Saras Sankul, JLN Marg, Jaipur -302017

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No.__________________________
Tender ID No. ________________________________
Name of Tender/ Work / Item ________________________________________________

Dear Sir,

1. I / We have downloaded / obtained the tender documents(s) for the above mentioned “Tender / Work / Item” from the web site(s) namely:
   ________________________________________________________________
   ________________________________________________________________
as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I/We have read and understood the entire terms and conditions of the tender documents (including all documents like Special Notes, annexure(s), Schedules(s), Specifications of the item(s), etc.) which form part of the contract agreement and I / We shall abide hereby the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organization too has also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally agree & accept the tender conditions of above mentioned tender document(s) corrigendum(s) in its totality / entirety.

5. In case any provisions of this tender are found violated or breached then your department / organization shall without prejudice to any other legal right or remedy be at liberty to reject this tender / bid including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, With Official Seal)

(Signed & sealed by the tenderer
in token of acceptance of above) (RCDF)
Jaipur
ANNEXURE-1(A)

PORFORMA TO BE SUBMITTED ON THE FIRM’S LETTER HEAD

The following information is very essential and must be filled in very carefully, legibly and complete to all the points:

1. **Name of Contact Person with designation & his mobile numbers**

2. **Complete correspondence address of Firm**

3. **Telephone No.**

4. **Fax No.**

5. **E-mail address**

6. **Capacity in which tender has been submitted**

7. **Details of RTGS:**
   - **Bank Name**
   - **Branch Name**
   - **RTGS / IFSC Code**
   - **Account Number**

8. **Information regarding current litigation / past debarment / black listing, if any.**

9. **Detail of Demand Draft’s**
   - **Particular**
   - **Name of Bank and Branch**
   - **DD No.**
   - **DD Date**
   - **Amount**
   - **Processing Fees**
   - **Tender Fees**
   - **EMD**

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF) Jaipur
SECTION-I

MANUFACTURERS’ AUTHORISATION FORM

(Please see Clause 2(a) of Eligibility Criterion)

No.__________________________________ Dated__________________________________

To,

RAJASTHAN CO-OPERATIVE DAIRY FEDERATION
“SARAS SANKUL”, J.L.N. MARG,
JAIPUR – 302 017.

Sub : - Tender reference No._______________________________________.

Dear Sir,

We________________________________________ an established and
reputable manufacturers of ______________ ____________________________
having factories at ______________ and _______________________ do hereby
authorise M/s._____________________________________________ (Name and
address of Agents) to bid, negotiate and conclude the contract with you against tender
reference No.__________________________________ for the above said goods
manufactured by us.

No company or firm or individual other than
M/s._________________________________________________________ are
authorise to bid, negotiate and conclude the contract in regard to this business against
this specific tender.

We hereby extend our full guarantee and warranty for the goods offered for
supply against your tender.

Yours faithfully,

(NAME)
for and on behalf of M/s. (Name of Manufacturers)

Note : This letter of authority should be on the Letter Head of the manufacturing
concern and should be signed by a person competent and having the power of
attorney to bind the manufacturer.

(Signed & sealed by the tenderer (RCDF)
in token of acceptance of above) Jaipur
**ANNEXURE-III**

**SECTION-II – SCHEDULE-I**

(Refer clause No.2(b) of Eligibility Criterion)

Major works successfully completed during the past five years

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Work</th>
<th>Place</th>
<th>Contract Reference</th>
<th>Name of client</th>
<th>Value of Work</th>
<th>Time of Completion</th>
<th>Date of Completion</th>
</tr>
</thead>
</table>

**Note:** Indicate plant capacity and major parameters handled.

Completion Certificate from Clients should be enclosed with the bid.

(Signed & sealed by the tenderer in token of acceptance of above)  

(RCDF)  

Jaipur
## SECTION-II – SCHEDULE-II

(Refer clause No.2(b) (iii) of Eligibility Criterion)

**WORKS IN HAND DURING THE CURRENT FINANCIAL YEAR**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Work</th>
<th>Work order reference</th>
<th>Name of client</th>
<th>Place of work order</th>
<th>Value of Work order</th>
<th>Completion period Date</th>
</tr>
</thead>
</table>

Note: Indicate plant capacity and major parameters handled.

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF) Jaipur
SECTION – III

TECHNICAL DEVIATION STATEMENT FORM

(Refer Clause 5 of Eligibility Criterion)

The following are the particulars of deviations from the requirements of the tender specifications:

<table>
<thead>
<tr>
<th>CLAUSE</th>
<th>DEVIATION</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(Including justification)</td>
</tr>
</tbody>
</table>

Dated

Signature and seal of the Manufacturer/Bidder

NOTE:

(1) Where there is no deviation, the statement should be returned duly signed with an endorsement indicating “No Deviations”.

(2) The technical specifications furnished in the bidding document shall prevail over those of any other document forming a part of our bid, except only to the extent of deviation furnished in the statement.

(Signed & sealed by the tenderer
in token of acceptance of above)  (RCDF)
Jaipur
ANNEXURE-VI
RATE QUOTATION FORM FOR SUPPLY / SUPPLY, INSTALLATION & COMMISSIONING OF EQUIPMENT
(TO BE UPLOADED IN FINANCIAL BID COVER-2)

Time & Date of opening of Tender:

Description of goods:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Particulars</th>
<th>Amount (Rs.)</th>
<th>Remarks, if any.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ex-works unit price</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Packing &amp; forwarding charges</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Excise Duty @______</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Sales Tax (RST/CST/VAT) @______ (see note no.1given below)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Entry Tax if any @________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Transportation including Insurance charges</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Any other charges (if any)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Total FOR site price (1 to 7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Installation &amp; Commissioning Charges</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Service Tax @_____</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Total FOR Unit Price (9 to 10)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Total Net FOR Unit Price for supply, installation &amp; commissioning (8+11) (in figures and in words)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The FOR rates indicated at sr.no. 8, 11 & 12 includes all duties & taxes even if not explicitly mentioned here but in vogue/applicable at the time furnishing rates.

Note:
(i) Tenderer should indicate clearly whether the sales tax mentioned above is against any concessional form. In case the concessional form is not provided, the rate of tax should be mentioned.
(ii) Price negotiations shall be discouraged bidders should therefore quote their most competitive rates (with conformity to the specifications and commercial stipulations given in the tender) in the very instance least they run the risk of losing out in absence of negotiations.
(iii) The rate must be written both in words & figures. There should be erasures and or over writing, corrections, if any, should be made earlier and intimated with date. In case if there is variation observed in the rates in between words & figures, the lowest rate shall be considered.
(iv) The conditional offer which affect the rate of quoted items shall be liable for rejection even the quoted rate is lowest.

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF) Jaipur
ANNEXURE – VII

AGREEMENT
(On non judicial stamped paper of value Rs.500/-, 1000/- & 5000/-)

1. An agreement made this ___________ day of ___________ between M/s.____________________ hereinafter called “approved supplier” which expression shall where the context so admits, be deemed to include his heirs, successors, executors and administrators of the one part and the Rajasthan Cooperative Dairy Federation Ltd. (hereinafter called “the Federation” which expression shall, where the context so admits, be deemed to include his successors in office and assigns) of the other part.

2. Whereas the approved supplier has agreed with the Federation for supply, installation, testing and commissioning of & all those articles set forth in the supply order/work order issued vide No._________ and in the manner set forth in the aforesaid order.

3(a) And whereas the approved supplier has deposited a sum of Rs._______ in form of Demand Draft as security for the due performance of the agreement.

3(b) And whereas the approved tenderer/supplier has agreed:

(i) to keep the security deposit with the Federation in form of demand draft for an initial period of 12 months or such extended period so as to cover the period of performance of contract i.e. supply/erection/commissioning as per purchase order. In case the contractor/supplier completes its contractual obligations before 12 months the deposit can be refunded before 12 months at the sole discretion of RCDF before aforesaid period of 12 months.

(ii) that no interest shall be paid by the Federation on the security deposit.

(iii) that in case of breach of any terms & conditions of the aforesaid supply order of this agreement by the contractor/supplier the amount of security deposit shall be liable to forfeiture in full or part by the Federation.

NOW THESE PRESENT WITNESS

1. In consideration of the payment to be made by the Federation at the rates setforth in the aforesaid supply order/work order, the approved supplier will duly supply the articles setforth/execute the work in the aforesaid supply order/work order and in the manner setforth and within the period stipulated in the conditions of the tender and order.

2. The conditions of the tender as given in the tender document for the work, conditions of the aforesaid supply order/work order and also any subsequent amendment as may be issued by the Federation will be deemed to be taken as part of this agreement and are binding on the parties executing this agreement.

(Signed & sealed by the tenderer (RCDF)
in token of acceptance of above) Jaipur
3(a) The Federation do hereby agree that if the approved supplier shall duly supply the said articles/execute the work in the time and manner aforesaid, observe and keep the said terms & conditions, the Federation shall pay or cause to be paid to the approved supplier, at the time and in manner set forth in the said conditions, the amount payable for each and every consignment/work executed on supplier’s raising bills.

3(b) The mode of payment will be as specified in the supply order/work order.

4. Delivery shall be effected and completed in the manner and time specified in the supply order.

5. In case the approved supplier fails to deliver the goods/execute the work within the time specified in the aforesaid supply order/work order, the conditions of liquidated damages clause and penalty those for late deliveries as stipulated in the aforesaid tender/supply order/contract shall be enforced.

6. In case of any doubt or question arising on the interpretation pertaining to the supply order/tender the terms of the contract shall be binding, override and final over the supply order/tender.

7. If any dispute or difference shall at any time arise between the two parties in respect of or concerning any of this herein contained or arising out of this supply order/tender/agreement as to the rights, liabilities or duties of the said parties hereunder or as to the recovery of any amount, the same shall be referred to the sole arbitrator M.D., RCDF who in turn may refer the dispute to any officer of RCDF for adjudication. The arbitration shall be in accordance to the law of Arbitration and Conciliation Act, 1996. The decision of the Sole Arbitrator shall be final and binding on both the parties.

8. All the disputes pertaining to the said contract shall vest to the jurisdiction of Courts at Jaipur.

In witness whereof the parties hereto have set their hands on the ______________ day ______________________.

SIGNATURE OF THE APPROVED SUPPLIER: SIGNATURE FOR AND ON BEHALF OF the Federation:

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF) Jaipur
<table>
<thead>
<tr>
<th>Witness No.1</th>
<th>Witness No.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature</td>
<td>Signature</td>
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<td>Name</td>
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</table>

<table>
<thead>
<tr>
<th>Witness No.2</th>
<th>Witness No.2</th>
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<tbody>
<tr>
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</tbody>
</table>

(Signed & sealed by the tenderer in token of acceptance of above)  
(RCDF)  
Jaipur
ANNEXURE-VIII

(Form of Bank Guarantee against 30% advance sought from the Dugdh Sanghs for supply/erection contracts)

1. In consideration of the ______________ ZILA DUGDH UTPADAK SAHAKARI SANGH LTD.,_______________ (hereinafter called “The SANGH”) having agreed to grant an advance of Rs.___________(Rupees____________________________ only) to M/s.________________________ (hereinafter called the said supplier(s) under the terms and conditions of an agreement /Purchase Order No._______________ dated _____________ made between the Rajasthan Co-operative Dairy Federation Ltd., Jaipur and / or SANGH and M/s._____________________ for supply/erection and commissioning (hereinafter called the said agreement/purchase order) on production of a Bank Guarantee for Rs.________________ (Rupees ___________________________ only), We ______________________(hereinafter called “The Bank”) do hereby undertake to pay the SANGH an amount not exceeding Rs.______________(Rupees____________________ only) against any loss/damage caused to or suffered or would be caused to or suffered by the SANGH by reasons of any breach by the said supplier(s) or any of the terms and conditions mentioned in the said agreement/Purchase Order.

2. We _________________ (Name of the Bank) do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the SANGH stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the SANGH by reasons of any breach by the said supplier(s) or any of the terms and conditions contained in the said agreement/Purchase Order, or by reason of the supplier(s) failure to perform the said agreement/purchase order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However our liability under this guarantee shall be restricted to an amount not exceeding Rs.___________ (Rupees ____________ only).

3. We ________________ (Name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement/purchase order and that it shall continue to be enforceable till all the dues of the SANGH, under or by virtue of the said agreement/purchase order have been fully paid and its claims satisfied or discharged or till the SANGH certifies that the terms and conditions of the said agreement/purchase order have been fully and properly carried out by the said supplier(s) and accordingly discharge the guarantee unless a demand of claim under this guarantee made on us in writing on or before _______________. We shall be discharged from all liabilities under this guarantee thereafter.

4. We ________________ (Name of the Bank) further agree with the SANGH that the SANGH shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement/purchase order to extend the time of performance by the said supplier(s) from time to time or to postpone for any time or from the time to time any of the power exercisable by the SANGH against the said supplier(s) and to forbear or endorse any of the terms and conditions relating to the said agreement/purchase order.

(Signed & sealed by the tenderer  
(RCDF)  
in token of acceptance of above)  
Jaipur
and we shall not be relieved from our liability by reason of any such variation of extension or for any forbearance, act or omission on the part of the SANGH or any indulgence by the SANGH to the said supplier(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

5. We ________________ (Name of the Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the SANGH in writing.

6. Notwithstanding anything stated above our liability under this guarantee is restricted to Rs.________________(Rupees __________________________ only). Our guarantee shall remain in force until unless a suit or an action to enforce a claim under this guarantee is filed against us before that date, i.e. on or before ____________ all your rights under the said guarantee shall be forfeited and we shall be released and discharged from all liability thereunder.

The Bank agrees that the amount hereby guaranteed shall be due and payable to the SANGH on SANGH’s serving a notice requiring the payment of the amount and such notice shall be served on the Bank either by actual delivery thereof to the Bank or by despatch thereof to the Bank by registered post at the address of the said Bank. Any notice sent to the Bank at its address by Registered Post shall be deemed to have been duly served on the Bank notwithstanding that the notice may not in fact have been delivered.

NOTWITHSTANDING – anything contained herein:
1) Our liability under this Bank Guarantee shall not exceed Rs.________________(Rupees __________________________ only).
2) This Bank Guarantee shall be valid upto __________________ and,
3) We are liable to pay the guaranteed amount under this Bank Guarantee only and only if you serve upon us a written claim or demand in the manner specified above on or before ____________.

7. Notwithstanding anything stated above the Bank Guarantee shall be discharged by the SANGH once the advance amount released against the Bank Guarantee along with interest or penalty if any payable on such advance has been fully recovered/adjusted.

Place:
Date:

Signature & Seal

(Signed & sealed by the tenderer)

in token of acceptance of above)
ANNEXURE-IX

(Performa of Bank Guarantee for releasing 10% balance payment)
(On Non-judicial stamp paper)

This deed of Guarantee made on this __________ day of ___________ 20   (Two thousand___________________) by _____________ (Name and address of the Bank) (hereinafter referred to as “The Bank”) which expression shall where the context or meaning so requires, includes the successors and assignees of the Bank and furnished to the _____________ ZILA DUGDH UTPADAK SAHKARI SAHG LH LTD., _____________ (hereinafter referred to as “The SANGH” which expression shall unless repugnant to the context or the meaning there of include its legal representatives, successors and assignees.

WHEREAS the Rajasthan Co-operative Dairy Federation Ltd., Jaipur and / or SANGH has placed its purchase order bearing No._________ dated ________ (Name and address of the party) (Hereinafter called “The supplier”) for supply /and erection of _____________ and WHEREAS the SANGH has agreed to pay to the supplier final 10% of the value of the equipment on submission of a Bank Guarantee of equal amount, which will be kept valid up to ________ from the date of supply or 12 months from date of commissioning of material at site.

In consideration of the SANGH having agreed to pay to the supplier Rs.___________(Rupees_______________only) being the last 10% of the value of the equipment, we_________(Name of the Bank) hereby undertake and guarantee to make repayment to the SANGH of the said 10% amount or any part thereof which does not become payable to the supplier by the SANGH in accordance with the terms and conditions of the said purchase order. The Bank further undertakes not to revoke this guarantee during its currency except with the previous consent of The SANGH in writing and this guarantee shall be a continuous and irrevocable guarantee upto a sum of Rs.______ (Rupees___________only). The Bank shall not be discharged or released from this guarantee by any arrangement between the supplier and the SANGH with or without the consent of the Bank or any alterations in the obligations of the parties or by any indulgence, forbearance shown by the SANGH to the supplier and that the same shall not prejudice or restrict remedies against the Bank nor shall the same in any event be a ground of defence by the Bank against the SANGH. We_________ (Name of the Bank) do hereby undertake to pay an amount due and payable under this guarantee without any demur, merely or demand from the SANGH stating that the amount claimed is due to the SANGH. In case the SANGH puts forth a demand in writing on the Bank for the payment of the amount in full or in part against this guarantee, the Bank shall consider that such demand by itself is a conclusive evidence and proof that the supplier has failed in complying with the terms and conditions stipulated by the Rajasthan Co-operative Dairy Federation Ltd., Jaipur and / or SANGH without raising any dispute regarding the reasons for any such lapse/failure on the part or the supplier.

This guarantee shall be in addition to and without prejudice to any other securities or remedies which the SANGH may have or hereafter possess against the supplier/tenderer and the SANGH shall be under no obligation to marshal in favour of the Bank any such securities or fund or assets that the SANGH may be entitled to receiving or have a claim upon and the SANGH at its absolute discretion may vary, exchange, renew, modify or refuse to complete or enforce or assign any security or instrument.

(Signed & sealed by the tenderer (RCDF) in token of acceptance of above)    Jaipur
The Bank agrees that the amount hereby guaranteed shall be due and payable to the SANGH on SANGH’s serving a notice requiring the payment of the amount and such notice shall be served on the Bank either by actual delivery thereof to the Bank or by despatch thereof to the Bank by registered post at the address of the said Bank. Any notice sent to the Bank at its address by Registered Post shall be deemed to have been duly served on the Bank notwithstanding that the notice may not in fact have been delivered to the Bank.

In order to give full effect to the provisions of this guarantee the Bank hereby waives all rights inconsistent with the above provisions and which the Bank might otherwise as a guarantor be entitled to claim and enforce.

Notwithstanding anything contained here in before, our liability under this guarantee is restricted to Rs.__________(Rupees_______________________only) and it shall remain in force until __________, unless a suit or action is filed against us to enforce such claims, within three months from the aforesaid date, all the SANGH’s rights under this guarantee shall be forfeited and we shall be relieved and discharged from all liabilities thereunder.

Place :
Date :

(SIGNATURE)
Seal

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF)
Jaipur
ANNEXURE -X

DETAILED TECHNICAL SPECIFICATIONS AND SCOPE OF WORK FOR
EFFLUENT TREATMENT PALNT AT SARDARSAHAR (CHURU)
(S/I/T & C period 8 months)

1. The scope of work includes complete designing, supply, installation, testing
and commissioning of effluent treatment plant, along with civil work suitable
to treat effluent load of 100 Mtr Cub per day.

This should be followed by clearance / approval and Certification by
Rajasthan Pollution Control Board, Jaipur.

The total job is to be taken up on Turnkey basis.

2. Design Data:

The UASB process (Upflow anaerobic sludge blanket), aerobic process is to
be designed on the basis of the following characteristics of raw dairy
effluent as indicated below in Table 1.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow, m³/day</td>
<td>100</td>
</tr>
<tr>
<td>Ph</td>
<td>5 – 11</td>
</tr>
<tr>
<td>BOD, mg/l</td>
<td>2500 – 3000</td>
</tr>
<tr>
<td>COD, mg/l</td>
<td>5000 – 6000</td>
</tr>
<tr>
<td>TSS, mg/l</td>
<td>1000</td>
</tr>
<tr>
<td>TDS, mg/l</td>
<td>1500</td>
</tr>
<tr>
<td>Temperature, deg C</td>
<td>30 – 40</td>
</tr>
<tr>
<td>Oil &amp; Grease, mg/l</td>
<td>100-700</td>
</tr>
</tbody>
</table>

Treated Effluent Characteristics:

The treated effluent parameters after UASB process followed by Aerobic
Process shall be as indicated below in Table 2

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>6.5 – 8.5</td>
</tr>
<tr>
<td>BOD, mg/l</td>
<td>&lt; 30</td>
</tr>
<tr>
<td>COD, mg/l</td>
<td>&lt; 250</td>
</tr>
<tr>
<td>TSS, mg/l</td>
<td>&lt; 50</td>
</tr>
<tr>
<td>TDS, mg/l</td>
<td>&lt; 2100</td>
</tr>
<tr>
<td>O &amp; G, mg/l</td>
<td>&lt; 10</td>
</tr>
</tbody>
</table>

The design selected for ETP is based on UASB process followed by aerobic process
for which following minimum sizes / specifications would have to be taken into
consideration.
**PROCESS DESIGN CONSIDERATIONS**

Effluent Treatment plant is designed for the dairy plant effluent and will consist of preliminary system, primary anaerobic system followed by aerobic system.

The preliminary system includes screening, equalisation, surge and oil & grease removal. The primary anaerobic system includes buffering (acidification), neutralisation, UASB Process and biogas handling system. The aerobic system includes aeration, secondary clarification and sludge dewatering system which includes Sludge drying beds.

As pH of the raw effluent varies between 5.0 – 11.0, either alkali or acid will have to be used for neutralization during process stabilization and commissioning and the consumption of the same can be reduced gradually. The dosing tanks for dosing of alkali or acid by gravity to the buffer tank.

The treated effluent parameters Ex – Aerobic System will be guaranteed for the raw effluent parameters mentioned above in the Table 1.

**PROCESS DESCRIPTION**

The following section provides a brief description of the process flow diagram and the unit operations involved in the proposed treatment:

The raw effluent from the dairy plant will enter into Inlet channel, which is provided with baffles and screen to remove free floating fat and coarse material in the effluent manually. The effluent from inlet channel will enter into Equalisation Tank where any hydraulic as well as organic variations will be dampened.

The equalised effluent will be then pumped Oil & Grease Trap for removal of free oil and grease. The floated free oil & grease will be removed by oil skimmer and will be disposed off.

The effluent will be bypassed to Surge Tank in case of a surge. The outlet will again collected into equalisation tank for further treatment.

The effluent from oil & grease trap will enter into Buffer Tank where caustic/Lime or acid will be dosed by gravity from dosing tanks if required.

The effluent from buffer tank will then be pumped to the proposed UASB Reactor through a series of distribution pipes. The multiple distribution ensures a uniform flow of liquid throughout the sludge blanket making maximum use of available high bacterial population. The liquid rises to the top of UASB reactor alongwith the biogas generated and also some sludge particles.

A unique three phase separator, separates out the biogas, liquid and the sludge particles. The biogas is allowed to leave through collecting domes and is carried through a gas header, sediment trap and flame arrestor to gas burner for ultimate flaring to atmosphere. The liquid overflows through the gutters and the suspended (Signed & sealed by the tenderer (RCDF)
in token of acceptance of above) Jaipur
solids then separated are allowed to settle down in the sludge blanket thereby retaining valuable bacterial population (attached to the suspended solids).

The anaerobically treated effluent from UASB Reactor shall then enter by gravity into Aeration Tank. The aeration is achieved by means of submersible aerator which also help in the complete mixing of the contents of the aeration tank. The activated sludge generated from the A.T will be settled in the Settling Tank. A part of the settled activated sludge is recycled back to the aeration tank for maintaining a desired MLSS concentration, while the excess sludge is pumped on to the Sludge Drying Beds for necessary dewatering.

The treated effluent from settling tank can be collected in the Treated Effluent Tank where bleaching powder / hypochlorite can be added for desired disinfection. The treated effluent can be discharged for final disposal or for the gardening purpose from the treated water tank.
**LIST OF CIVIL UNITS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Length, m</th>
<th>Width, m</th>
<th>SWD, m</th>
<th>Free Board, m</th>
<th>MOC</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Inlet Channel &amp; Bar Screen Chamber</td>
<td>7.0</td>
<td>1.0</td>
<td>0.3</td>
<td>0.5</td>
<td>RCC M30</td>
<td>1 No.</td>
</tr>
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<tr>
<td>2.</td>
<td>Equalisation cum Buffer Tank</td>
<td>4.0</td>
<td>4.0</td>
<td>1.5</td>
<td>0.3</td>
<td>RCC M30 with partition wall and pipe railing</td>
<td>1 No.</td>
</tr>
<tr>
<td></td>
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<tr>
<td>3.</td>
<td>Oil &amp; Grease Trap (Fat Removal Unit)</td>
<td>6.0</td>
<td>2.0</td>
<td>1.5</td>
<td>0.15</td>
<td>RCC M30 with Baffles &amp; Oil Collection Trough</td>
<td>1 No.</td>
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<tr>
<td>4.</td>
<td>Buffer Tank</td>
<td>4.0</td>
<td>2.0</td>
<td>1.5</td>
<td>0.3</td>
<td>RCC M30</td>
<td>1 No.</td>
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<tr>
<td>5.</td>
<td>UASB Reactor / digester foundation</td>
<td>4.5</td>
<td>7.0</td>
<td>0.3</td>
<td></td>
<td>Foundation in RCC M 30 and Drain Channel around the reactor &amp; connecting gutter to buffer tank</td>
<td>1 No.</td>
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<tr>
<td>6.</td>
<td>Aeration cum Settling Tank</td>
<td>5.0</td>
<td>5.0</td>
<td>4.0</td>
<td>0.50</td>
<td>RCC M30 with partition wall</td>
<td>1 No.</td>
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<td></td>
<td>Item Description</td>
<td>Details</td>
<td>Quantity</td>
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<tr>
<td>7.</td>
<td>Secondary Clarifier</td>
<td>Side, dia: 3.5, Width: 2.5, SWD: 0.3, Free Board: 3.0, MOC: RCC M30</td>
<td>1 No.</td>
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<tr>
<td>8.</td>
<td>V Notch Chamber</td>
<td>Length: 2.0, Width: 1.0, SWD: 0.3, Free Board: 3.0, MOC: RCC M30</td>
<td>1 No.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>10.</td>
<td>Treated Effluent Tank</td>
<td>Length: 4.0, Width: 3.0, SWD: 2.0, Free Board: 0.3, MOC: RCC M30</td>
<td>1 No.</td>
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<tr>
<td>11.</td>
<td>Sludge Drying Beds (Filter Feed Sump)</td>
<td>Side: 3.0, Total Height: 3.0, SWD: 0.5, Free Board: 0.6, MOC: Brickwork In C.M (1:5) with Sand &amp; Gravel Filling</td>
<td>4 Nos.</td>
<td></td>
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<tr>
<td>12.</td>
<td>Other Machine Foundations For</td>
<td>a. As per design, b. Biogas Burner, c. Filtrate Pit, V Notch Chamber, d. Dosing Tanks, e. Inserts required in civil structures, f. Cable trenches, pipe supports</td>
<td>1 Lot</td>
<td></td>
<td></td>
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<tr>
<td>13.</td>
<td>MCC / Lab Room and chemical storage room &amp; Toilet Block</td>
<td>Length: 4.0, Width: 3.0, Height: 3.0</td>
<td>1 No.</td>
<td></td>
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</tbody>
</table>
CIVIL CONSTRUCTION SPECIFICATIONS

The scope of civil engineering works will be carried out as per proposed drawings submitted by erector & approved by Salient features are however mentioned below:-

Provisions for excavation & back filling for construction of ETP is to be made by contractor and surplus excavated material shall be disposed in consultation

CONCRETE MIXES:
The following mixes/grades of concrete shall be used in places specified:-
M-300 Grade Concrete: In reinforced concrete members in direct contact with liquid using 20mm and nominal size stone aggregates and having cement content not less than the minimum specified in IS:3370:1965.
M-150 Grade concrete: In reinforced concrete members not in direct contact with liquid using 20mm and nominal size stone aggregated.
1:4:8 Concrete: In 100mm thick under various footings / foundations and RCC base slabs of structures using 40mm and down size stone aggregate.
1:3:6 Concrete: (i) In 150mm thick foundations for various masonry structures using 40mm down size stone aggregate. (ii) In 100mm thick base slabs of oxidation ditches and aerated lagoon if proposed by the erector using 40mm and down size stone aggregate.
Crusher broken stone aggregate used.

NOTES ON CONCRETE CONSTRUCTIONS
All concrete will be volume batched. All reinforced will be mechanically mixed and vibrated.
All RCC structure will be lift straight from shutters with reasonable rendering of shuttering joint marks only. RCC structure will be suitably plastered wherever necessary.
Construction joints in RCC members shall be formed in accordance with the provision of IS:3378.
Reinforcement shuttering work
For shuttering ply woods / steel plate shuttering as consider suitable for particular place will be provided.
Design should be based on Tor Steel reinforcement basis conforming to IS:1768/1139

MASONARY WORK
Stone / Brick masonary work for all walls partitions etc. shall be constructed with best quality of brick/RR stone / sand etc. in cement sand mortar mix 1:4 as per the drawings to be supplied by erector and approved by the Milk Union.

FINISHING
Exposed faces of R.C. walls shall be given two or more coat to give an even shade of cement paint of approved shade.
20mm thick and 12mm thick cement plasters in 1:4 cement sand mortar shall be provided at the rough faces of the brick panel walls of the pump house / blower room. However the ceiling of the roof shall be provided with / average 6mm thick cement plaster in cement sand mortar and 100mm thick water proofing be done in Brick Ballast and CM (1:3) as per specifications.

DESIGN OF STRUCTURES
(Signed & sealed by the tenderer
in token of acceptance of above)
The design of structures will be based on the following IS codes of practice unless specified by us:
(i) IS-456-1964 : For plain and reinforced concrete work.
(ii) IS-3370 : For structural members in part I, II, IV direct contact with liquid.
(iii) Other relevant IS codes.
Covers to main reinforcements shall be as per IS 56 3370 whichever is applicable.
The thickness of wall foundation of machinery etc. should be structurally safe and sound and the same will have to be got approved before execution.

Equipment-wise specification for civil work
1. **INLET CHANNEL** : 1 NO.
This will be constructed with RCC M-300 and plaster on both sides. The side of screen chamber would be 7.0m x 1.0m x 0.3m, free board 0.3 mtr.

2. **EQUILISATION CUM BUFFER TANK** : 1 NO.
The construction will be RCC M-300 with partition wall with internal plaster with water proof compound. The size of tank would be 4.0m x 4.00m x 1.50m, free board 0.3 mtr with pipe railing.

3. **FAT REMOVAL UNIT** : 1 NO.
The construction will be RCC M-300 with internal plaster with water proof compound. The size of tank would be 6.0m x 2.0m x 1.5m, free board 0.15 mtr with baffles and oil collection trough.

4. **BUFFER TANK** : 1 NO.
The construction will be RCC M-300 with internal plaster with water proof compound. The size of tank would be 4.0m x 2.0m x 1.5m, free board 0.15 mtr with baffles and oil collection trough.

5. **UASB REACTOR FOUNDATION** : 1 NO.
The construction will be RCC M-300 with internal plaster with water proof compound. The size of tank would be 4.5m x 7.0m, free board 0.3 mtr with baffles and oil collection trough.

6. **AERATION TANK** : 1 NO.
The construction will be RCC M-300 with partition wall with internal plaster with water proof compound. The size of tank would be L 5.0m x W 5.0m x D 4.00m, free board 0.5 mtr.

7. **SECONDARY CLARIFIER** : 1 NO.
The construction will be RCC M-300 with partition wall with internal plaster with water proof compound. The size of tank would be L 3.5m x W 2.5m x D 0.3m, free board 0.3 mtr.

8. **V NOTCH CHAMBER** : 1 NO.
The construction will be RCC M-300 with partition wall with internal plaster with water proof compound. The size of tank would be L 2.0m x W 1.0m x D 0.3m, free board 0.3 mtr.

9. **FILTER FEED SUMP** : 1 NO.
The construction will be RCC M-300 with partition wall with internal plaster with water proof compound. The size of tank would be L 2.5m x W 2.5m x D 2.5m, free board 0.3 mtr.

10. **TREATED EFFLUENT TANK** : 1 NO.

(Signed & sealed by the tenderer (RCDF)
in token of acceptance of above) Jaipur
The construction will be RCC M-200 with internal plaster with water proof compound. The size of tank would be L 4.0m x W 3.0 m x D 2.0m, free board 0.3 mtr with pipe railing.

11 SLUDGE DRYING BEDS : 4 NOS.
The construction will be Brick work in C.M. (1:5) with sand and gravel filling with internal plaster with water proof compound. The size of tank would be L 3.0m x W 3.0m x Total Height 0.5m + 0.6.

12 OTHER FOUNDATIONS : 1 LOT
a. Feed Pumps b. Biogas Burner c. Filtrate Pit, V Notch Chamber d. Dosing Tanks e. Inserts required in civil structures f. Cable trenches, pipe supports

14 MCC / LAB ROOM : 1 NOS.
As per standard.

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF) Jaipur
LIST OF MECHANICAL, BOUGHT OUT, ELECTRICAL & INSTRUMENTATION ITEMS FOR ETP
A. UASB System, Biogas Handling System:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Unit</th>
<th>Specifications</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>UASB System comprising of: UASB Reactor along with ladder</td>
<td>In MS with internal epoxy painting (Dia 3.25 m x 6.0 m SWD)</td>
<td>1 Lot</td>
</tr>
<tr>
<td></td>
<td>a. Influent Header</td>
<td>In M.S of suitable size</td>
<td></td>
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<tr>
<td></td>
<td>b. Bottom Distribution System</td>
<td>MSEP</td>
<td></td>
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<tr>
<td></td>
<td>c. Three Phase Settler</td>
<td>As per Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d. Distribution Line Valves</td>
<td>In MS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>e. Baffles</td>
<td>Suitable size</td>
<td></td>
</tr>
<tr>
<td></td>
<td>f. Sampling Ports</td>
<td>1 Lot.</td>
<td></td>
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<tr>
<td></td>
<td>g. Inspection Manhole</td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
<td>Biogas Handling System comprising of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a. Sediment Trap</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. Flame Arrestor</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>c. Gas Burner</td>
<td></td>
<td></td>
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</tbody>
</table>

B. Mechanical, Bought Outs & Instrumentation:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Unit</th>
<th>Specifications</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Bar Screen in SS-304</td>
<td>SS-304, 12 mm plate spacing suitable for 100 m3 per hr. Load.</td>
<td>1 No.</td>
</tr>
<tr>
<td>2.</td>
<td>Raw Effluent Transfer Pump</td>
<td>10 Cum/hr. @ 12 MWC</td>
<td>2 Nos.</td>
</tr>
<tr>
<td>3.</td>
<td>Twin Lobe air blower</td>
<td>200 Cum/hr. @ 0.5 Kg. / cm²</td>
<td>2 Nos.</td>
</tr>
<tr>
<td>4.</td>
<td>Machanized Travelling bridge fat removal unit</td>
<td>Trolley Type</td>
<td>1 No.</td>
</tr>
<tr>
<td>5.</td>
<td>Chemical dosing pump for Alkali and acid for pH correction in buffer tank for manual pH correction</td>
<td>With chemical solution Alkali &amp; Acid HDPE tank – 250 ltrs. Cap.</td>
<td>1 Lot</td>
</tr>
<tr>
<td>6.</td>
<td>USB Feed Pump</td>
<td>10 Cum/hr. @ 12 MWC</td>
<td>2 Nos.</td>
</tr>
<tr>
<td>7.</td>
<td>UASB Systems with Influent Header, Bottom effluent Distribution grid in HDPE/SS-304, Distribution Line valves and nozzles, GLSS settler, launders, weirs, Sampling port and Inspection manhole</td>
<td>Suitable size as per design</td>
<td>1 Lot</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Specification/Size</td>
<td>Quantity</td>
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<tr>
<td>8</td>
<td>Biogas handling system complete with Flare stack in MS pipe in pipe arrangement of 40 mm dia &amp; 3.0 mts. height with sediment trap, moisture trap &amp; flame arrester.</td>
<td>Suitable size as per design</td>
<td>1 Lot</td>
</tr>
<tr>
<td>9</td>
<td>Fine pore diffusers with air piping from air blowers to bottom of aeration tank, valves, controls etc.as per specifications and design requirements</td>
<td>(retractable, silicon, 62 mm dia) along with HDPE/SS-304 air distribution piping</td>
<td>1 Lot</td>
</tr>
<tr>
<td>10</td>
<td>VFD Coupled with online DO sensor, analyzer, transmitter for automated DO control</td>
<td>suitable for 100 m3/day effluent</td>
<td>1 Lot</td>
</tr>
<tr>
<td>11</td>
<td>Secondary clarifier mechanism – central driven mechanism in MSEP</td>
<td>suitable for 3.50 mts. dia clarifier tank</td>
<td>1 Lot</td>
</tr>
<tr>
<td>12</td>
<td>Sludge re-circulation pumps</td>
<td>Suitable capacity with 10 WMC</td>
<td>1 Lot</td>
</tr>
<tr>
<td>13</td>
<td>V-Notch plate in SS-304</td>
<td>As per required design</td>
<td>1 Lot</td>
</tr>
<tr>
<td>14</td>
<td>Filter Feed Pump</td>
<td>15 m3/hr @ 30 MWC</td>
<td>1 Lot</td>
</tr>
<tr>
<td>15</td>
<td>Active Carbon Filter</td>
<td>As per required design</td>
<td>1 Lot</td>
</tr>
<tr>
<td>16</td>
<td>Dual Media filter</td>
<td>As per required design</td>
<td>1 Lot</td>
</tr>
<tr>
<td>17</td>
<td>On-line Electromagnetic flow meters of suitable capacity as per tech. specifications.</td>
<td>As per required design</td>
<td>1 Lot</td>
</tr>
<tr>
<td>18</td>
<td>Supply, installation and Commissioning of HDPE/SS-304 Piping, Valve, Fittings and other Mandatory fixtures like welding, jointing,, clamping etc of approved make as suitable as per design approved. (within battery limit)</td>
<td>As per required design</td>
<td>1 Lot</td>
</tr>
<tr>
<td>19</td>
<td>Supply, Installation, Testing &amp; commissioning of electrical panel (MCC) as per approved drawing &amp; detail technical specification), complete with cable trays, wall mounted MS channel, necessary arrangement for Earthing</td>
<td>As per required design</td>
<td>1 Lot</td>
</tr>
</tbody>
</table>
SPECIAL CONDITIONS FOR EFFLUENT TREATMENT PLANT

1. The make of items here in covered should be well reputed.
2. The ETP is to be treated as a turnkey project as per the lay out to be submitted by suppliers and final drawing to be approved by Concerned Milk Union/RCDF.
3. All necessary mechanical, electrical equipments controls machinery and other items, which may be required for the erection of the entire plant falls in the scope of supply though specifically mentioned. The plant also is guaranteed for the performance parameters.
4. All the taxes and duties are included and rates are FOR site.
5. The price is inclusive of unloading charges at site of the equipments and your representative will unload the same safety at site.
6. Complete erection, testing and commissioning of the plant comprise of the following:
   Shifting and placing of the equipments on the respective foundations.
   Electrical wiring of the complete plant including power and control, lubrications, testing, commissioning and handing over of the plant in satisfactory working condition after satisfactory trial runs for 15 days including capacity test.
7. The services/utilities to be made available to the erector shall be arranged upto the battery limits and it will be the erectors responsibility to tap these service / utilities from the battery point to the different places of requirement. All necessary fittings, mountings and all other items required for tapings and transmitting the services shall be supplied and installed by the erector.
8. The necessary quantities of cleaning chemicals, make up lubricants etc. required for the installation, commissioning, testing and start up of all the equipments are to be supplied by erector free of cost.
9. Initially the plant will be on commissioning and will be commissioned on the flow of effluent available at point of time subject to delivery mentioned in the order. However, supplier will be required to demonstrate satisfactory performance of the plant during full flow conditions to be made available during peak season.
10. The performance guarantee period will start from the date of successful commissioning of plant.
11. The tenderer has to stabilize the plant to required parameter and will inform Milk Union/RCDF for 15 days on load trial. During trial period required chemical and lubricants to be arrange by tenderer.
12. The supply system should be under one year performance guarantee period after successful installation and commissioning.
13. The one year performance guarantee period includes deputation of one technical person for supervision of plant operation during general shift. The (Signed & sealed by the tenderer (RCDF))
in token of acceptance of above) Jaipur
14. It will be the sole responsibility of the suppliers to ensure performance of the plant to give desire results of treated water as specified by the water pollution board of Rajasthan and as given in the tender. In case any changes, modifications, alterations etc. are required at the time of commissioning by Board, the same will have to be carried out by the supplier free of cost.

15. ZDUSS will reimburse any statutory fee payable for the plant on submission of receipt / vouchers etc.

16. Approval from various Agencies like RPCB/Electrical Inspectorate etc. which are connected with the ETP plants supply, installation, testing and commissioning will be obtained by the suppliers.

17. The oil and grease trap, equilisation tank, Aeration tank etc. will be RCC M-300 construction. The detailed civil drawings will be got approved by supplier prior to construction.

18. All interconnecting pipe lines will be of MS as mentioned.

19. ZDUSS will lay cables up to ETP which is to be connected therein by contractor.

20. The plant layout will be such as to facilitate expansion in future. The expansion possibilities and directions should be down dotted in the layout.

21. Tenderer should have execute three ETP projects of similar or above capacity in India.

22. Tenderer should furnish the details of the chemicals / power consumption per ltrs of effluent treatment at rated capacity.

23. Tenderers should visit the site for complete analysis of work involved in the project.

24. Tenderers are requested to participate in pre-bid meeting on scheduled date and time.
## MAKES OF EQUIPMENTS:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>ITEM</th>
<th>MAKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Centrifugal pumps</td>
<td>Jyoti/Johnson / KSB / Kirloskar</td>
</tr>
<tr>
<td>2.</td>
<td>Motors</td>
<td>Bharat Bijlee / Kirloskar / ABB / Siemens Crompton</td>
</tr>
<tr>
<td>3.</td>
<td>Air blowers</td>
<td>Kay / Usha / Everest / Eq.</td>
</tr>
<tr>
<td>5.</td>
<td>Level Probes / switches</td>
<td>Pune Techtrol / SBEM / E&amp;H / P&amp;F / Waree</td>
</tr>
<tr>
<td>6.</td>
<td>Electrical switchgear</td>
<td>L&amp;T / Siemens</td>
</tr>
<tr>
<td>7.</td>
<td>Cables</td>
<td>Gloster / CCI / Nicco / Finolex / Havells</td>
</tr>
<tr>
<td>8.</td>
<td>Pressure gauges</td>
<td>Fiebig / Forbes / H Guru / Waree / Wika</td>
</tr>
<tr>
<td>9.</td>
<td>Structural steel</td>
<td>SAIL / TISCO / Jindal</td>
</tr>
<tr>
<td>10.</td>
<td>MS / GI pipes</td>
<td>Tata / Jindal</td>
</tr>
<tr>
<td>11.</td>
<td>HDPE Pipes</td>
<td>Finolex / Godavari / Supreme / Dutron</td>
</tr>
<tr>
<td>12.</td>
<td>DAF</td>
<td>Krota / DAFTECH / Dew / Ionex</td>
</tr>
<tr>
<td>13.</td>
<td>Decanter Centrifuge</td>
<td>Humboldt Wedag / Alfa Laval / Eq.</td>
</tr>
<tr>
<td>14.</td>
<td>PSF / ACF</td>
<td>Thermax / Water Treatment / Ionex</td>
</tr>
<tr>
<td>15.</td>
<td>PVRV</td>
<td>Fainger / Eq.</td>
</tr>
<tr>
<td>16.</td>
<td>Limit Switch</td>
<td>Jayashree / Sirnens / Honeywell / L&amp;T</td>
</tr>
<tr>
<td>17.</td>
<td>Aerator, Clarifier, Agitator - Gear Box</td>
<td>Redicon / Elecon / Greeves</td>
</tr>
<tr>
<td>18.</td>
<td>Dosing Pumps</td>
<td>Milton Roy / ProMinent / Eq.</td>
</tr>
<tr>
<td>19.</td>
<td>PH Meter</td>
<td>E&amp;H / Emerson / HACH</td>
</tr>
<tr>
<td>20.</td>
<td>Diffuser</td>
<td>Rehau / Eq.</td>
</tr>
</tbody>
</table>

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF) Jaipur
Bank Guarantee for Bid Security

Guarantee No. :

Date:

Rajasthan Co-operative Dairy Federation Ltd.
Saras Sankul J.L.N. Marg,
Jaipur-302017

This Deed of Guarantee made this __ day of ___________ by ______________, a scheduled bank incorporated under the ________________, having its registered office at ______________ and acting through its branch at ______________ (hereinafter referred to as “the Bank” which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and permitted assignees) and the Rajasthan Co-operative Dairy Federation Ltd. Saras Sankul J.L.N. Marg, Jaipur-302017 (hereinafter referred to as the ‘RCDF’) which expression shall unless repugnant to the context and meaning thereof include its legal representatives, successors and permitted assignees.

Whereas the ‘RCDF’ has invited Bids for the supply of ______ by the Invitation to Tender Ref No. ______________ Dated ______.

AND WHEREAS ______________, having its registered office at ______________ who having submitted their bids (hereinafter referred to as the “Bidder/Supplier”) and have agreed to deposit to ‘RCDF’ an amount of Rs. _____ (Rupees ________ Only) indicated in the Invitation to bid as per terms and conditions of the Bidding Documents. AND WHEREAS the ‘RCDF’ is also willing to accept a Bank guarantee in lieu of payment by demand draft of an amount equivalent to the amount of Bid security required to be deposited by the Bidder/Supplier to the ‘RCDF’ and the guarantee shall be kept valid upto ____________.

In consideration of the “RCDF” having agreed to consider the Bid proposals having submitted by the Bidder/Supplier without depositing the amount of Rs. __________ (Rupees __________ Only) of Bid security and against this Bank guarantee, we, the bank, hereby undertake and guarantee to make payment to the ‘RCDF’ the amount of Bid security or any part thereof not deposited by the Bidder/Supplier to the ‘RCDF’ at any time (time being the essence of the Contract) when the ‘RCDF’ asks for the same as per the terms and the conditions of the Bidding Document on or before ____________.

(Signed & sealed by the tenderer in token of acceptance of above)

(RCDF)

Jaipur
Guarantee No.:
Date:

The Bank further undertakes not to revoke this guarantee during this currency except with the previous consent of the ‘RCDF’ in writing and the guarantee shall be continuous and irrevocable guarantee up to a sum of Rs. __________(Rupees __________ Only) provided always that any indulgence of forbearance on the part of the ‘RCDF’ the said Bidder/Supplier, with or without the consent of the Bank shall not prejudice or restrict remedies against the bank nor shall the same in any event be a ground of defence by the Bank against the ‘RCDF’.

In case the ‘RCDF’ puts forth a demand in writing on the Bank the payment of amount full or in part against this bank guarantee, the Bank will consider without demur that such demand by itself is a conclusive evidence and proof that the Bidder/Supplier has failed in complying with the terms and conditions stipulated by the ‘RCDF’ without raising any disputes regarding the reasons for such failure on the part of the Bidder/Supplier.

The Bank shall not be discharged or released from its liabilities under this guarantee by any arrangement between the Bidder/Supplier and the ‘RCDF’ with or without the consent of the bank or any alterations in the obligations of the parties or by an indulgence, forbearance shown by the ‘RCDF’ to the Bidder/Supplier.

This guarantee shall be in addition to and without prejudice to any other securities or remedies which the ‘RCDF’ may have or hereafter possess against the Bidder/Supplier and the ‘RCDF’ shall be under no obligations to marshal in favour of the Bank any such securities or fund or asset that the ‘RCDF’ at its absolute discretion may vary, exchange, renew, modify or refuse to complete or enforce or assign any such security or instrument.

The Bank agrees that the amount hereby guaranteed shall be due and payable to the ‘RCDF’ on serving us with a notice before expiry of Bank Guarantee requiring the payment of the amount and such notice shall be deemed to have been served on the Bank either by actual delivery thereof the Bank or by dispatch thereof to the Bank by Registered Post at the address of the Bank, provided the same is received by the bank on or before ___________.

The guarantee shall remain in force until __________ and the bank may renew the Bank Guarantee, at our sole discretion, provided the Bidder/Supplier before the expiry of Bank Guarantee makes the request.

(Signed & sealed by the tenderer in token of acceptance of above) (RCDF) Jaipur
Guarantee No.:
Date:

Not with standing anything stated herein before: (i) Our liability under this guarantee is restricted to Rs. __________ (Rupees _______ Only) (ii) The Bank Guarantee shall remain in force till __________ and (iii) The Bank is liable to pay the guarantee amount or any part thereof under this Bank Guarantee only if the ‘RCDF’ serves upon the bank a written claim or demand on or before __________.

The Beneficiary in his own interest may obtain confirmation of this Bank Guarantee from the bank.

For the

Authorised Signatory

Authorised Signatory

Witness:

1).................................C/o _____________
2).................................C/o _____________