

TENDER DOCUMENT

FOR

**DESIGN, ENGINEERING, SUPPLY, INCLUDING LABOR FOR INSTALLATION &
COMMISSIONING OF PNEUMATIC CONVEYING SYSTEM FOR DICED CHEESE
CONVEYING**

At

Sabar Dairy, Sub Post : Boria

Himmatnagar - 383 006

Gujarat

BID REFERENCE No. : SABAR/Himmatnagar/cheese/2025-26

Sabarkantha District Co Operative Milk Producers Union Ltd.

Sabar Dairy, Sub Post : Boria

Himmatnagar - 383 006

Gujarat

**Sabarkantha District Co-operative Milk Producers' Union Limited Sub Post : Boria,
Himmatnagar – 383006 (Gujarat) Phone No. : 02772-226051-60, Fax : 02772-226130**

Invitation For Bid (IFB)			
Bid Reference	SABAR/CHEESE/PNEUMATIC CONVEYINGSYSTEM/2025-26	Name of Project	pneumatic conveying system for diced cheese conveying
Description	DESIGN, ENGINEERING, SUPPLY, INCLUDING LABOR FOR INSTALLATION & COMMISSIONING OF PNEUMATIC CONVEYING SYSTEM FOR DICED CHEESE CONVEYING with all allied accessories at cheese Plant, himmatnagar of Sabar Dairy on turnkey basis.		
Estimated Cost		In Rs.	INR - 35,000,00.00 Lakh
EMD		In Rs.	INR - 35,000.00
Tender Fee		INR 5000.00	
Duration (months)		3 Months from the date of LOI	
Bidding Document	Start	24.01.2026 at 11:00 Hrs	
Sale			
Last Date & Time of Receipt of Bid	Close	10.02.2026 at 14:00 Hrs	
Place of Technical meeting / Pre-bid & Opening the bid		Purchase I/C shree, Sabarkantha District Co-operative Milk Producers' Union Ltd, Sub Post : Boria, Himmatnagar, Gujarat - 383006	

Eligibility Criteria

- I. The Bidder/Supplier shall have turnover of Rs. 2.0 times of tender estimated value in each of the last three years and must have completed, in the last three years at least,
 - a) A one contract of of value not less than tender estimated cost of similar nature.
OR
 - b) Two contracts of value not less than 75 % of tender estimated cost of similar nature.
OR
 - c) Three contracts of value not less than 50% of tender estimated cost of similar nature.

- II. The bidder's Technical and Financial Capability & Turnover shall be in the same name and style. Any type of joint venture is not accepted.

- III. The bidder/Supplier should have sufficient infrastructure, In house engineering team, Experience of erection & commissioning of similar kind of project are only requested to submit the complete bid.

BID PRICES

The Bidder shall indicate the appropriate Price Schedule for proposed Supply and work for requirement, attached to this document the total bid prices of the goods it proposes to supply, install and commission under the contract. Bidders must submit a bid for the complete requirement of goods and services specified, failing which, such bids will not be taken into account for evaluation and comparison and will not be considered for award.

Prices in the Price Schedule (To be prepared and submitted by Bidder) shall be entered separately in the following manner:

The price of the goods, quoted ex-factory, ex-showroom, ex-warehouse or off-the-shelf, as applicable, including excise duty, sales & other taxes already paid or payable.

Any excise duty applicable and payable on the goods, if this contract is awarded.

Any sales and other taxes applicable what will be payable on the goods if this contract is awarded.

Charges for packing and forwarding, inland transportation, insurance and other local costs incidental to delivery of the goods to their final destination.

The cost of installation and commissioning as described in the technical specifications and in accordance with Special conditions of Contract with regard to erection, testing and putting the equipment into satisfactory operations, including successful completion of performance and guarantee tests to be performed at the destination by the Bidder.

FIXED PRICE

Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account. A bid submitted with an adjustable price quotation for such goods and services will be treated as non-responsive and rejected.

EARNEST MONEY DEPOSIT

35,000.00/- Rs. (thirty five Thousand only)

The bidder should deposit the earnest money in the form of an Account Payee Bank Draft in favour of Sabarkantha District Co-Operative Milk Producers' Union Ltd., payable at Himatnagar.

PERIOD OF VALIDITY OF BIDS

Bids shall remain valid for 90 days after the last date of submission of the bids prescribed by the Purchaser. A bid valid for a shorter period may be rejected by the Purchaser as non-responsive.

OPENING OF BIDS BY PURCHASER

The Purchaser will open only COVER – I, TECHNICAL BIDS in presence of Bidder's representative who choose to attend, at the time and date indicated in the IFB at the office of the AM (PUR), SABAR Dairy, Himmatnagar, Gujarat. The Bidder's representatives who are present shall sign a sheet / register evidencing their attendance.

After evaluating the TECHNICAL BID and confirming the requirements / specifications & scope of works, the bidder's shall be given the option of revising their PRICE BID (to be submitted in a separate sealed cover marked as " PRICE BID – 2 "). The date of opening of PRICE BID shall be communicated to eligible bidders. At the time of opening PRICE BIDS, names, Discount and such

other details as the Purchaser , at its description, may consider appropriate will be announced during the opening.

CLARIFICATION OF BIDS

To assist in the examination, evaluation and comparison of bids the Purchaser may, at its discretion, ask the Bidders for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

PRE-BID clarification to be will be issued in writing.

PRELIMINARY EXAMINATION

The Purchaser will examine the bids to determine whether they are complete and inline of technical requirement specified in the technical specifications, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the Bidder does not accept the correction of the errors, its bid will be rejected. If there is a discrepancy between words & figures, the amount in words will prevail.

Prior to the detailed evaluation, the Purchaser will determine the substantial responsiveness of each bid to the Bidding Document. For purposes of these clauses, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bidding Document without material deviations. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

Since the bid is invited for the complete job of supply, installation and commissioning of the equipment/plant, the incomplete or part bids submitted by any bidder may not be considered for evaluation and may be liable for rejection.

A bid determined as not substantially responsive will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

The Purchaser may waive any minor informality or non-conformity or irregularity in a bid, which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of the Bidder.

EVALUATION AND COMPARISON OF BIDS

The Purchaser will evaluate and compare the bids previously determined to be substantially responsive. No bid will be considered if the complete requirement covered under the bid technical specifications is not included in the bid. However, the discounts offered by the bidders, if any, will be taken into account in the evaluation of bids so as to determine the bid offering the lowest evaluated cost for the Purchaser in deciding award of contracts.

The purchaser's evaluation of a bid will exclude and not take into account, in the case of goods manufactured in India or goods of foreign origin already located in India, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder.

However, applicable excise duty payable by the Purchaser will be added to the bid price for evaluation.

The comparison shall be of ex-site price of the goods offered from within India, such price to include all costs as well as duties and taxes paid or payable on components & raw material incorporated in the goods as well as excise duties payable on finished goods and the installation and commissioning costs as per the provisions in the technical specification.

Purchaser's Right to Accept Any Bid and to Reject Any or All Bids.

The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

Bidder may give alternative offer for equipment and system under purchase through this bid and Purchaser may consider it for technical evaluation and for further consideration if technology found equal or better than the equipment for which technical specifications are given in this document.

Amendment of Bidding Document

At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder/Supplier, modify the Bidding Document by amendment.

The amendment will be notified in writing or by e - mail to all prospective Bidder/Suppliers, which have received the Bidding Documents and will be binding on them. The amendment will be attached to the bidding document sold subsequently.

In order to afford prospective Bidder/Suppliers reasonable time, in which to take the amendment into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids.

NOTIFICATION OF AWARD

Prior to expiration of the period of bid validity, the Purchaser may notify the successful Bidder in writing by registered letter or by FAX or telex to be confirmed in writing by registered letter, that its bid has been accepted.

SIGNING OF CONTRACT

At the same time as the Purchaser notifies the successful Bidder that its bid has been accepted, the Purchaser will send the Bidder the Contract/Purchase Order incorporating terms and conditions, Technical specification, price break-up if any etc.

Within 15 days of receipt of the Contract/PO, the successful Bidder shall sign and seal the duplicate copy of the Contract/PO and return it to the Purchaser.

TIME SCHEDULE

A competent execution team shall be deputed at site and shall be headed by a Project execution shall be scheduled to mutually agreed time bound programme, which should **not exceed 3 months** from the date of signing of contract along with advance payment to commencement of product trials and service load trials. The Project Manager of bidder will provide the Project

Manager of the Purchaser with monthly expediting and progress reports, which clearly indicate the actual vs., planned progress and the new likely completion dates of supply, erection, and commissioning and product trials.

The project-staffing pattern shall be submitted before commencement of work and should include sufficient personnel to meet the execution time schedule.

Details of documentation to be submitted shall be according to the overall project programme.

TURN-KEY CONTRACT

All the bidders should quote for the supply, installation, testing and commissioning of complete Dice cheese pneumatic conveying system as detailed in this bidding document on turn-key basis.

BREAK-UP PRICES

All the bidders shall furnish the cost separately for the supply and installation/commissioning along with detailed cost break-up (item-wise) which will be applicable for progressive payments, Items and works for which no break-up price is furnished by the bidder will not be paid for by the Purchaser when supplied/executed and shall be deemed covered by other break-up prices.

PACKING AND MARKING

The supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to temperature, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

INSURANCE

The goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage, delivery, installation & commissioning.

The Supplier shall Initiate and pursue claim till settlement, and Promptly make arrangements for repair and/or replacement of any damaged item/s irrespective of settlement of claim by the underwriters.

TRANSPORTATION

The Supplier is required under the Contract to deliver the Goods FOR destination, specified in the Schedule of Requirement, Transport of the Goods, up to the destination shall be arranged and paid for by the Supplier and the cost thereof shall be included in the Contract Price.

WARRANTY/GUARANTEE

The Supplier warrants that the Goods and equipment supplied, installed and commissioned under the Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that the Goods supplied under this contract shall have no defect arising from design, materials or workmanship from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions obtaining in our country. The Supplier also guarantees that the Goods supplied shall perform satisfactorily as per the designed/rated/installed capacity as provided for in the Contract. The warranty will not cover normal wear and tear of consumables and minor spares.

This warranty/guarantee shall remain valid for 12 months after the Goods, or any portion thereof as the case may be, have been commissioned at the final destination indicated in the Contract.

Upon receipt of purchaser's notice, the Supplier shall, with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Purchaser other than, where applicable, the cost of inland delivery of the repaired or replaced Goods.

If the Supplier having been notified, fails to remedy the defect(s) within a reasonable period, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights, which the Purchaser may have against the Supplier under the Contract.

The Supplier shall guarantee the complete installation for satisfactory performance for a minimum period of twelve months from the date of commissioning. Any defect arising out of faulty installation or use of substandard material or workmanship shall be rectified by the Supplier at his own cost.

Pressure parts guarantee shall be for five years. All guarantees from equipment suppliers will be vested in the client.

PRICES

Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid.

For imported items prices will be given considering 1 EURO= Rs. 83.29, 1 USD = Rs. 76.19, 1SEK = Rs. 7.62, Swiss Franck = Rs. 78.82 & British Pound = Rs. 94.23 and any variation on account of change in exchange rate will be receivable/payable.

PAYMENT CONDITIONS

15% advance of total contract value (Supply Materials) against nationalized bank guarantees on Signing of Contract Agreement.

65 % against safe receipt of materials at site within 30 days.

20 % after 30 days of successful installation & commissioning of the equipment against one year valid PBG of 10 % of total order value. PBG shall be for one year from date of Work Completion Certificate.

The Bank Guarantees should be obtained from Nationalized Banks of India.

Notes:

Payment shall be made on complete supply of an item/ group of items specified in the Contract as per the Price Break up. No payment shall be made if supply of an item/ group of items is incomplete.

Bank Guarantees for advance payment shall be released not later than 30 days after the date of delivery of all the Goods at their final destination.

NEGOTIATION

Purchaser may decide negotiation process after opening of commercial bid and bidder will be bound to accept negotiation process as decided by the Purchaser.

Either L1 or L1 & L2 bidders whose bids are evaluated as substantially responsive bid will be called for negotiation.

The Purchaser will award the contract to the successful Bidder/Supplier whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid after negotiation provided further that the Bidder/Supplier is determined to be qualified to perform the contract satisfactorily.

LIQUIDATED DAMAGES

Subject to Clause, if the Supplier fails to deliver any or all of the Goods or perform the Services within the time period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to:

0.5% (Half Percent) of the total value of order for each week of delay in the supplies/commissioning. The total amount so deducted shall not exceed 10% of the Contract value. Once the maximum is reached, the Purchaser may consider termination of the Contract.

Any incremental taxes and levies on account of delay in performance of the Contract by the Supplier, shall be to the Supplier's account.

FORCE MAJEURE

Notwithstanding the provisions of Clauses the Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purpose of this clause, "Force Majeure" mean an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Purchaser either in its sovereign of contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

APPLICABLE LAW

The Contract shall be interpreted in accordance with the laws of the Union of India.

TAXES AND DUTIES

The Supplier shall be entirely responsible for all taxes, duties, license fees etc., incurred until delivery of the contracted Goods to and taking over of the works by the Purchaser.

INCOME TAX AND OTHER TAXES

The Supplier shall be liable to pay all Corporate taxes, income tax and other taxes that shall be levied according to the laws and regulations applicable from time to time and the price bid by the Supplier shall include all such taxes. Wherever the laws and regulations require deduction of such taxes at the source of payment, the Purchaser shall effect such deductions from the payment due to the Supplier. The remittance of amounts so deducted and issuance of certificate for such deductions shall be made by the Purchaser as per the laws and regulations in force. Nothing in the Contract, shall relieve the Supplier from his responsibility to pay any tax that may be levied on income and profits made by the Supplier in respect of the Contract.

JURISDICTION

Settlement of any dispute out of the purchase order/contract against this bid shall be subject to the courts at Himatnagar (Gujarat) only.

PROTECTION OF PLANT

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

The Suppliers and Supplier's Sub-Supplier shall be responsible, during the works, for protection of work, which has been completed by other Suppliers. Necessary care must be taken to see that no damage to the same is caused by the Supplier's men during the course of execution of the work.

All other works completed or in progress as well as machinery and equipment that are liable to be damaged by the Supplier's work shall be protected by the Supplier and protection shall remain and be maintained until its removal is directed by the Purchaser.

The work shall be carried out by the Supplier without damage to any work and property adjacent to the area of Supplier's work to whomsoever it may belong and without interference with the operation of existing machines or equipment.

Adequate lighting, guarding and watching at and near all the storage handling, fabrication, pre-assembly and erection sites for properly carrying out the work and for safety and security shall be provided by the Supplier at Supplier's cost. The Supplier should adequately, light the work area during nighttime also. The supplier should also engage adequate electricians/wiremen, helpers etc., to carry out and maintain these lighting facilities. If the Supplier fails in this regard, the Purchaser may provide lighting facilities, as he may deem necessary and charge the cost thereof to the Supplier.

The supplier shall take full responsibility for the care of the works or any section or portions thereof until the date stated in the taking over certificate issued in respect thereof and in case any damage or loss shall happen to any portion of the works not taken over as aforesaid, from any cause whatsoever, the same shall be made good by and at the sole cost of the Supplier and to the satisfaction of the Purchaser. The Supplier shall also be liable for any loss of or damage to the works occasioned by the Supplier or the Supplier's Sub-supplier in the course of any operations carried out by the Supplier or by the Supplier's Sub-Supplier's for the purpose of completing any outstanding work or complying with the Supplier's obligations.

UNLOADING, TRANSPORTATION AND INSPECTION

The Bidder/Supplier shall be required to unload all the materials/equipment from the carriers. In any case purchaser will not be responsible for unloading of materials/equipments supplied by the bidder/supplier. Bidder/Supplier shall be paid extra for unloading of the equipment being supplied by the purchaser whereas no extra payment for unloading of the equipments/machines/piping shall be paid to Bidder/Supplier for the equipment being supplied by the Bidder/Supplier. The Bidder/Supplier shall plan in advance, based on the information received from the Purchaser, Bidder/Supplier's requirement of various tools, tackles, jacks, cranes, sleepers etc. required to unload the material/equipment promptly and efficiently. The Bidder/Supplier shall ensure that adequate and all measures necessary to avoid any damage whatsoever to the equipment at the time of unloading are taken.

Any demurrage/detention charges incurred due to the delay in unloading the material/equipment and releasing the carriers shall be charged to the Bidder/Supplier's account.

The Bidder/Supplier shall be responsible for the reception on site of all plant and Bidder/Supplier's equipment delivered for the purposes of the contract.

The Bidder/Supplier shall safely transport/shift the unloaded materials/equipment by the Bidder/Supplier to the storage area.

STORAGE OF EQUIPMENT

The Supplier shall be responsible for the proper storage and maintenance of all materials/equipment under supplier's custody. Supplier shall take all required steps to carry out frequent inspection of equipment/materials stored as well as erected equipment until the same are taken over by the Purchaser.

If the commissioning of equipment is delayed after installation of the equipment, the Supplier shall carry out all protective measures suggested by the Purchaser during such period.

Adequate security measures shall be taken by the Supplier to prevent theft and loss of materials handed over to the Supplier by the Purchaser. The Supplier shall carry out periodical inventory checks of the materials received, stored and installed by the Supplier and any loss noticed shall be immediately reported to the Purchaser. A proper record of these inventories shall be

maintained by the Supplier. The Supplier should not sell, assign, mortgage, hypothecate or remove equipment or materials which has been installed or which may be necessary for completion of the work without the written consent of the Purchaser.

All equipment shall be stored inside a closed shed or in the open depending upon whether they are of indoor or outdoor design. Frequent checks on insulation resistance is essential for all electrical equipment and record of the inspection reports and megger readings shall be maintained equipment wise. Such records shall be presented to the Purchaser whenever demanded.

All the necessary items/goods required for protection as described above shall be arranged by the Supplier.

REVIEW AND CO-ORDINATION OF ERECTION WORK

The Supplier, shall depute senior and competent personnel to attend the site co-ordination meetings that would generally be held at the site every month. The Supplier shall take necessary action to implement the decisions arrived at such meetings and shall also update the erection schedule.

EXTENSION OF TIME FOR COMPLETION

Should the amount of extra or additional work of any kind or any cause of delay referred to in these conditions, or exceptional adverse climatic conditions, or other special circumstances of any kind whatsoever which may occur, other than through a default of the supplier, be such as fairly to entitle the Supplier to an extension of time for the completion of the works, the Purchaser shall determine the amount of such extension and shall notify the Supplier accordingly. Provided that the Purchaser is not bound to take into account any extra or additional work or other special circumstances unless the Supplier has within twenty eight days after such work has been commenced, or such circumstances have arisen, or as soon thereafter as is practicable, submitted to the Purchaser full and detailed particulars of any extension of time to which he may consider himself entitled in order that such submission may be investigated at the time.

PERFORMANCE GUARANTEE:

Union will take performance guarantee on basis of full and part performance efficiency guaranteed by the supplier. Any deviation in the guaranteed performance at full/part load will be recovered from the performance bank guarantee or balance payment and for the performance period of two years.

Performance Guarantee shall be 10% of total order value of one year validity. PBG shall be for one year from successful commissioning/testing of the machine/equipment.

DOCUMENTS:

Bidder should furnish the experience/performance certificate for similar technology Plant in operation for one year or more. Performance certificate shall be signed and authenticated by client.

POWER AND WATER :

Water for installation: Shall be provided at one point within the site, free of charge.

Electricity for installation: Shall be provided at one point within the site, free of charge.

TRAINING OF PERSONNEL

Necessary staff as may be deputed by the union shall be trained by the supplier for operating the Dice cheese pneumatic conveying system/machine and other accessories. The personnel will be associated for the training during the installation, testing, commissioning and start-up period and the training tenure shall be extended for a minimum period of 2 -3 days from the date of commissioning and start-up.

DOCUMENTATION

The following drawings & documents were enclosed by the bidder with the offer.

Drawings:

Preliminary Machine GA drawing & allied services based on the tentative layout enclosed with the tender document

Service utilities diagrams - electrical, controls, instrument, automation etc.

-Instruction Manuals

-Safety Instructions

-Spare parts catalogue

- P&ID
- Dimensional drawing
- Equipment Layout

Brouchers:

Literature covering general and technical information for equipment covered within the scope of tender

Technical details of any other equipment /item which is not mentioned but is considered to be required as per the description in the text

Special Condition

Bidder may give alternative offer for equipment under purchase through this bid and Purchaser may consider it for technical evaluation and for further consideration if technology found equal or better than the equipment for which technical specifications are given in this document.

SPECIAL CONDITION OF CONTRACT

MECHANICAL INSTALLATION

SCOPE

The mechanical installation work would comprise of :

- a. General installation i.e. positioning and installing all the processing, miscellaneous and service equipment as per approved layout drawings and as per the contract.
- b. Supply and installation of structural platforms and tables.
- c. Supply and installation of all service and product piping including ancillary items.
- d. Insulation & cladding of piping, equipment and electrical tracing wherever required, including supply of materials etc as specified.
- e. Interconnections of services & electricals with equipment.
- f. Guide line for expansion work.
- g. Clean up of work site.
- h. Supply of all cleaning chemicals and lubricants.
- i. Testing, commissioning and start-up.
- j. Painting including supply of paints as approved by the owners.

Detailed specifications are given in the subsequent clauses.

GENERAL INSTALLATION

Positioning of Equipment

The work involves preparation of access for moving of the plant and equipment including their fittings from the work site godown or from the place within the site

where they have been unloaded, to the place of erection, de-crating and placing on the foundation wherever required. All the civil foundations as per the manufacturer/supplier's drawings shall be arranged by the Owner. The Supplier shall place the equipment and carry out final adjustment of the foundations including alignment and dressing of foundation surface, embedding and grouting of anchor bolts and bed plates. The Supplier shall be responsible for obtaining correct reference lines for purpose of fixing the alignment of various equipment from master bench marks provided by the Owner. Tolerances shall be as specified in equipment manufacturers drawings or as stipulated by the Owner's Engineer. No equipment shall be permanently bolted down to foundation or structure until the alignment has been checked by the Supplier and witnessed by the Purchaser. The Supplier shall carry out minor alternations in the anchor bolts, pockets, etc., at no extra cost and set the equipment properly as per approved layout, drawings and manufacturer's instructions. The Supplier shall supply all the necessary foundation/anchor bolts and bed plates if required without extra cost if these have not been provided with main equipment.

Structural Platforms and Tables:-

Structural platforms shall be required to provide access for various equipment. Tables shall be required for handling products. These platforms and tables shall be fabricated keeping stability and other functional as well as aesthetic **requirements into consideration as approved by the Owner.**

SERVICE PIPING INSTALLATION

General Guidelines

All piping systems shall comply with the latest editions of the following regulations wherever applicable.

Indian Boiler Regulations.

All applicable Indian Standards.

All applicable State Government/Central Government laws/acts.

Scope of Supply

The Supplier shall supply all piping materials like pipes, fittings, flanges, measuring instruments and all other items as shown in the P&I diagram/specifications and schedule of quantities. All the pipes & fittings and insulation material etc. should be of class and make as approved by the Owner. Prior approval of the Owner must be obtained by the Supplier for the class and make of all materials.

Scope of Piping Erection

This to be performed by contractor as outlined below :

The scope of erection for piping, includes all system covered in the flow diagrams and specifications.

The Supplier's work commences/terminates at the pipe connections with valves or flanges as specified in flow diagrams/battery limits.

The supplier shall also install necessary piping and any specialties furnished with or for equipment such as relief valves, built-in-pass and other items of this type.

The supplier shall perform necessary internal machining of pipes for installing orifices, slow nozzles, control valves etc.

The supplier shall install all pipes, valves and specialties being procured from other sources.

CLEAN UP OF WORKS SITE

All soils, filth or other matters of an offensive nature taken out of any trench, drain or other places shall not be deposited on the surfaces, but shall at once be carted away by the Supplier from the site of work for proper disposal.

The Supplier shall not store or place the equipment, materials or erection tools on the drive ways and passages and shall take care that his work in no way restricts or impedes traffic or passage of men and materials during erection, the Supplier shall without any additional payment, at all time keep the working and storage area used by him free from accumulation of dust or combustible materials, waste materials rubbish packing, wooden planks to avoid fire hazards and hindrance to other works.

If the Supplier fails to comply with these requirements in spite of written instructions from the Owner, the Owner will proceed to clean these areas and the expense incurred by the Owner in this regard shall be payable by the Supplier. Before completion of the work, the Supplier shall remove or dispose off in a satisfactory manner all scaffolding, temporary structures, waste and debris and leave the premises in a condition satisfactory to the Owner. Any packing materials received with the equipment shall remain as the property of the owner and may be used by the Supplier on payment standard charges to the Owner and

with prior approval of the Owner. At the completion of his work and before final payment, the supplier shall remove and shall restore the site to neat workman like conditions at his cost.

CLEANING CHEMICALS AND LUBRICANTS

The necessary quantities of cleaning chemicals, lubricants etc., required for the installation, commissioning, testing and start-up of all the equipment till handing over are to be supplied the Supplier and nothing extra would be paid for these.

TESTING, COMMISSIONING AND START-UP

The Supplier shall operate, maintain and give satisfactory trial run of the equipment / plant satisfactorily for a maximum period of one week of the plant at the rated output. All rectification of damages/ defects and routine trouble shooting should be carried out by the Supplier.

During this period, Supplier shall incorporate/execute necessary minor modifications during the trial period for maximising operational efficiency. The Supplier should also execute minor modifications as may be suggested by the manufacturer/Owner. The Supplier shall suggest recommended log sheet proformas for recording necessary operating date and pass it on to the Owner in proof of satisfactory rated output and performance of the equipment/plant.

The commissioning shall also include the following for each equipment :

Check out and commissioning of instruments, equipment and plants, filtering of transformer and other oils so that if deteriorated, they shall attain the required properties/standards, specified tests in this regard must be carried out by approved authorities and their satisfactory reports submitted to the Owner before start-up.

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

Operation in No-Load condition to check general operation details wherever required and wherever possible.

Operation under load and gradual load increase to attain rated output.

Trouble shooting during the trial period

The Supplier shall demonstrate proper working of all mechanical and electrical controls, safety and protective device, in presence of the Owner's engineer and the same should be duly recorded.

After conducting testing, in case a particular equipment is not working properly or not giving rated output the Supplier will furnish a detailed report to the Owner stating therein the detailed account on the performance of the equipment with possible reasons for improper

or not working of the same.

Further, before the commencement of testing or commissioning the Owner reserves the right to invite the Original manufacturer's representative at the cost of the Supplier for start-up help, assist and guide the supplier during commissioning in the following cases :

- a. The Supplier has no previous experience of commissioning and start-up of the similar equipment.
- b. The Owner is of the opinion that the Supplier is not capable to commission and start-up of certain specific equipment.

However, in either of the cases the manufacturer's representatives would be called with prior information to the Supplier and the Supplier will have to extend all co-operation to such representatives in good spirit and in the interest of the work.

After satisfactory commissioning and start-up the Supplier shall keep his representatives under whose supervision the Owner's staff shall be operating and maintaining the plant and equipment for a period of one week. The Supplier's representatives should be present at all times during the running and operation of plant and equipment. During this period the Supplier shall guide the Owner's staff to ensure proper working of complete plant.

PAINTING

All the equipment/ machineries like motors, pumps, HT/LT panel, switch boards, starters, junction boxes, isolators, supporting structures, pipe supports and MS/GI pipes and all exposed and visible iron parts, which are received and installed in painted condition, included in the scope of erection/commissioning shall be given a final coat of paint. All surfaces wherever required must be properly cleaned from scale, dirt and grease prior to painting. Spray painting should preferably be used on all the equipment/machineries and wherever practicable. Suitable and necessary cleaning/wiping of sight/ dial glasses, other non-metallic parts, flooring walls and other surfaces, which have been spoiled by paint during painting must also be carried out by the Supplier.

Lettering and other markings, including capacity and flow direction marking, shall also be carried out by the Supplier on the tanks, pipe lines, starters, motors, isolators and wherever else necessary, as directed and as per the standard practice of installation.

Supply of all paints and all other materials required is included in the scope of supply of the Supplier under this contract/order.

TECHNICAL SPECIFICATION & SCOPE OF WORK

Diced Cheese Pneumatic Conveying System

1. Scope of Work

The scope of work shall include design, detailed engineering, manufacture, supply, installation, testing, commissioning, and performance trials of a pneumatic conveying system for shredded/diced cheese (temperature of -18° To - 25° Deg C) from the IQF outlet to a single-line Multi-Head Weigher, complete in all respects.

The system shall be suitable for continuous dairy operation, fully compliant with food safety, CE, and FDA requirements, and capable of handling IQF diced cheese without product degradation, blockage, or contamination.

1. Design, engineering, manufacture, supply, erection, testing, commissioning, and performance validation of a pneumatic conveying system for diced/shredded cheese from IQF discharge to Multi-Head Weigher.
2. Collection of diced cheese through a Vibro Shifter Hopper installed at the outlet of the IQF machine.
3. Installation of a Vibrating Screen Separator (Vibro Shifter) at the IQF outlet:
 - Oversized diced cheese shall be collected into the hopper.
 - Undersized pieces shall be collected separately in a bag or designated container.
4. Supply and installation of a Pickup Hopper with integrated vibrating screen for segregation of undersized and oversized diced cheese.
5. Connection of the pickup hopper to the loading unit, complete with required air transport line, product conveying line, and suction unit.
6. Conveyed product shall be discharged into the existing packing unit hopper, complete with level sensing arrangement.
7. All product-contact parts shall be food-grade, smooth, non-sticky, free-flowing, corrosion-resistant, and easily cleanable. Valid food-grade certificates shall be submitted.
8. The bidder shall visit the site prior to bid submission to understand the actual scope, layout, and constraints. Layout drawing and P&ID shall be submitted with the bid.
9. The system shall have automatic start/stop interlocking with upstream and downstream equipment.
10. All internal metallic piping required for the system shall be in the bidder's scope of supply.

2. Product / Diced Cheese Details

Description	Details
Product	Diced Cheese (Mozzarella or Cheddar or Combination of both)
Product Temperature	-18° To - 25° Deg C
Granulometry	3 × 3 × 3 mm cube (Approx.) Bidder may visit the site to get actual dimensions of the product before submission of the bid.
Capacity	2,000 kg/hr
Product Pickup Point	Hopper positioned below Vibro Shifter at outlet of IQF
Product Discharge Point	Multi-Head Weigher of existing machine
Product Transport Line	As per site layout and design
Air Transport Line	As per site layout and design

3. Pickup Hopper with Vibrating Screen (Oversize & Undersize)

Diced cheese discharged from the IQF machine shall pass through a Vibrating Screen Separator (Vibro Shifter) to segregate oversize and undersize particles. The acceptable diced cheese shall be conveyed pneumatically through a pickup hopper and loading unit, transported via air and product conveying lines, and discharged into the existing packing unit hopper / Multi-Head Weigher, complete with level sensing and interlocks.

The system shall be fully automatic with start/stop interlocking with upstream and downstream equipment.

3.1 Vibrating Screen Separator (Vibro Shifter)

- Installed at IQF outlet.
- Over sized diced cheese collected in hopper.
- Undersized diced cheese collected separately in bag.
- MOC (Contact & Non-Contact Parts): SS 304

- Screen Mesh Size: 15 × 15 × 15 mm

3.2 Pickup Hopper

- Truncated conical hopper, Ø 420 mm.
- Side wall inclination: 65°–70° for free flow.
- Material: AISI 304 Stainless Steel
- Internal surface: Polished
- External surface: Satin finish
- Support frame with:
 - Anti-vibration mounts
 - Height-adjustable feet
- Provision for pneumatic turbine vibrator (optional).
- Bottom outlet with clamp connection to manifold with:
 - 90° bend
 - Manual ball valve
 - Airflow regulation filter

4. Air Fluidification Regulator & Line Emptying Kit

4.1 Air Fluidification Regulator

- AISI 304 SS Y-shaped collector
- Clamp end connections
- Fluidification airflow regulated by manual ball valve (nickel-plated body)

4.2 Line Emptying Kit

- Pneumatic product shut-off valve
- Contact parts: SS 304
- Butterfly valve for line fluidization and emptying
- Pneumatic actuator with aluminum body
- Filter sock, filtration class 1 micron
- The line emptying valve shall open before completion of loading cycle while the second valve remains closed to ensure complete emptying of product line and prevent choking or blockage.

5. Pneumatic Conveying System – Other Technical Details

5.1 Loading Unit

- Modular construction
- Material: **AISI 304 Stainless Steel**
- Internal and external surfaces polished
- SS 304 junction box mounted on loading unit for electrical and pneumatic connections

5.2 Suction Inlet

- Tangential type
- Clamp connection

5.3 Filter System

- Type: Cartridge filter
- Material: **AISI 316 Stainless Steel**
- Filtration rating: **200 micron, FDA compliant**
- Automatic dynamic filter cleaning at each conveying cycle

5.4 Product Discharge Unit

- AISI 304 stainless steel clapet valve
- Diameter: **250 mm**
- Full-bore discharge
- Pneumatic actuator in anodized aluminum

5.5 Level Sensor

- Vibrating tuning-fork level switches
- Installed on conveyor loading unit
- Interface with control system
- Control panel distance ≤ 3 meters (or as per final design)

5.6 Support Base

- SS receiving system complete with:
 - Gas elbow pipe
 - Filter
 - Terminal flange
 - FDA-approved flat silicone gasket

6. Electrical Control Unit

- Wall-mounted control panel

- Enclosure: AISI 304 Stainless Steel
- Power Supply:
400 VAC \pm 1%, 50 Hz, 3-Phase + Neutral + Earth
- Industrial plug supplied
- Control cables and pneumatic tubing included for all field devices
- Separate junction boxes for:
 - Pneumatic conveyor system
 - Electrical blower power panel (as per site requirement)

7. Suction Unit

- Lateral channel blower/exhauster
- Equipped with:
 - Silencers
 - By-pass valves
 - Mechanical safety valve
 - Secondary safety filter (Class M)
- Prevents blower damage due to accidental powder ingress
- Electrical power box with industrial plug:
400 VAC – 50 Hz – 16 A – 4 Pole

8. SS 304 Support Structure & Metallic Piping

- SS 304 support frame for PTS loading unit installation over packing machine
- Metallic ducting and piping:
 - Designed by supplier
 - Detailed layout & BOM to be submitted post-order

9. Conveyor & Utility Requirements

- System shall be CE and FDA compliant
- Suitable for continuous heavy-duty operation
- Dry compressed air (non-lubricated):
 - 6–7 bar for pneumatic valves
 - 5.5–6 bar for filter cleaning

- Electrical Supply: 400 VAC, 50 Hz
- Potential-free contact for interlocking with downstream equipment

10. System Technical Specifications

Parameter	Specification
Operating Temperature	0 – 60 °C
Protection Class	IP54
Air Pressure	5.5 – 6 bar
Minimum Granulometry	> 1 micron
Noise Level	Not significant
Construction Material	SS 304 (Product Contact)

11. General Machine Requirements

- Robust construction for industrial dairy environment
- Minimal maintenance design
- All bearings sealed for life
- Food contact parts in SS 304 or FDA-approved materials
- Safety guards with interlocks
- PLC-based control with user-friendly HMI
- Fault diagnostics, hour meter, packet counter
- Automatic shutdown on fault or unsafe condition
- PID-based control systems where applicable

12. Documentation, Installation & Performance

- Detailed GA drawings, layouts & P&ID to be submitted with bid
- Transportation to Sabar Dairy site in supplier's scope
- Installation, testing & commissioning in supplier's scope
- Operator & maintenance training included
- Utility requirement details to be submitted with bid

Annexure - 1

EQUIPMENT PERFORMANCE CRITERIA

If the machine or any part thereof does not give the agreed process performance during the warranty period due to reasons attributable to the supplier, below the action shall be as detailed therein.

EQUIPMENT PERFORMANCE

The satisfactory performance of the machine/equipment will be considered achieved if the machine operates above 98% of the rated capacity declared by supplier in the offer.

If the machine/equipment performance is between 95-98% of the rated capacity, penalty will be calculated at 2% of the rupee value of the machine/equipment (contract) , per 1% of shortfall.

If the machine/equipment performance is below 95%, the contractor will be required to upgrade the machine/equipment or replace the machine/equipment to comply with the above performance criteria. Otherwise the machine/equipment will be deemed unacceptable.

ANNEXURE: 2

RECOMMENDED MAKES

LIST OF SUGGESTED MAKES	
Description	Makes
Dice cheese pneumatic conveying process/System	
SS Milk & CIP Supply & Hot water Pump	SPX / ALFA LAVAL / GEA / IDMC
Milk & CIP Hoses	SAINT GOBAIN / MTG /TRELLEBORG
SS CIP Return Pump (self-priming)	IDMC/ SPX / ALFA LAVAL / GEA
INSTRUMENTATION, CONTROLS & AUTOMATION	
VFD	SIEMENS / ALLEN BRADLEY / DANFOSS /SCHNEIDER
Level Transmitter & indicator	E&H / EMERSON / ANDERSON NEGELE / JUMO
Temperature / Pressure Transmitter	E&H / EMERSON / ANDERSON NEGELE / BAUMER/JUMO
Conductivity & pH Transmitter	E&H / EMERSON / ANDERSON NEGELE/ BAUMER / JUMO
Density transmitter	E&H / EMERSON / YOKOGAWA
RTD for Tanks	E&H / EMERSON / ANDERSON NEGELE / RADIX
RTD for Lines	E&H / EMERSON / ANDERSON NEGELE / RADIX / GIC / JUMO / RADIX
Flow Switch	E&H / ANDERSON NEGELE / BAUMER/IFM
Proximity switch	SICK / P&F /IFM
Level Switch	E&H/EMERSON/ANDERSON-NEGELE//BAUMER.

Control Valve	DANFOSS / SAMSON / TOSHBRO / FORBES MARSHALL-ARCA / AVCON / FISHER XOMOX/DEMPLA / BURKERT
PID Module	YOKOGAWA/HONEYWELL
Pressure switch / temp switch	DANFOSS / ALCO / HANSEN / PARKER / E&H/ EMERSON / ANDERSON NEGELE / IMF
Pressure & Temperature Gauge	FIEBIG / H GURU / WAAREE / WIKA / PRICOL
Temperature digital indicator / controller	E&H / EMERSON / ANDERSON NEGELE / IFM/ RADIX / SICK /YOKOGAWA/HONEYWELL
Load Manager / Power / Energy Monitor	ROCKWELL/ SIEMENS / ABB / L&T / SCHNEIDER
PC (Personal Computer)	HP / DELL
Automation System	SIEMENS / ROCKWELL / SCHNEIDER.
Network Switches	CISCO / ROCKWELL / D-LINK.
Paper less Recorders	YOKOGAWA/ HONEYWELL.
ELECTRICALS FOR LMP & PRODUCTS	
Electric Motors	SIEMENS / BHARAT BIJLEE / ABB / LEROY SOMER / CROMPTON GREAVES / KIRLOSKAR/L&T.
Air Circuit Breaker	L&T / SIEMENS / SCHNEIDER/ ABB
MCCB	L&T / SIEMENS / ABB/ SCHNEIDER /C&S /LEGRAND
MPCB	L&T / SIEMENS / SCHNEIDER / ABB
Contactors	L&T / SIEMENS / SCHNEIDER / ABB
Starter Overload Relays	L&T / SIEMENS / SCHNEIDER / ABB
Intelligent Motor Protection Relays	L&T / SIEMENS / ROCKWELL / ABB/ SCHNEIDER
Timers Electronic	L&T / SIEMENS / SCHNEIDER / ABB / GE / SELEC.
Switch Fuse Units	L&T / SIEMENS / SCHNEIDER / ABB / LEGRAND.
MCBs	LEGRAND / SCHNEIDER / SIEMENS / HAGER/ABB/ L&T.
Push Buttons	SIEMENS / L&T / SCHNEIDER / ABB / GE /

	TEKNIC.
Indicating Lamps (LED)	L&T / SIEMENS / SCHNEIDER / ABB /TEKNIC
Digital Ammeter & Voltmeter	SIEMENS / L&T / SCHNEIDER / RISHABH
Analog Ammeter & Voltmeter	SIEMENS / L&T / SCHNEIDER / RISHABH / MECO / AE
Multi Function Meter	ABB/ SIEMENS / L&T / SCHNEIDER /HPL / SOCOMEC / RISHABH.
PVC Conduit & accessories	PRECISION / CLIPSAL / POLYCAB/ P – PLAST/ FINOLEX.
Digital Power Factor Meter	ABB / SIEMENS / L&T / SCHNEIDER / RISHABH / TDK (TIPL)
Current Transformer, PotentialTransformer	KAPPA / BHARTI / L&T / NEWTEK / PRECISE / AE / ELMEX.
LT armoured Power Cables	KEC (RPG) / FINOLEX / RR KABEL / APAR POLYCAB/ SBEE / GLOSTER / LAPP / KEI /THERMOCABLE.
LT armoured Control Cables	KEC (RPG) / FINOLEX / RR KABEL / APAR POLYCAB/ SBEE / GLOSTER / LAPP / KEI /THERMOCABLE.
LT steel braided power & control cables	LAPP / SBEE / RR
Signal & Instrument cable	LAPP / FINOLEX / POLYCAB / RR / THERMOCABLE/SBEE.
Power Capacitors	ABB/ SIEMENS /TDK (TIPL) / SCHNEIDER / NEPTUNE DUCATI / L&T / KHATAU JANKAR.
APFC Relay	ABB / SCHNEIDER / NEPTUNE DUCATI / BELUKE / TDK (TIPL) / L&T / SIEMENS
Cable Tray	INDIANA / MEK / PILCO / ELCON / METALICA PRESSINGS / POWER CONTROLS /SWASTIK/ DHAMIA.
Isolating Switches	SIEMENS / L&T / SCHNEIDER / ABB
HRC fuses	L&T / SIEMENS / EE / GE POWER / C&S
Plug & Socket	LEGRAND / CLIPSAL / BCH /HENSEL / ANCHOR / MENNEKES / SCHNEIDER
Motor isolator/junction box	HENSEL / RITTAL / R STAHL/HANSU / FIBOX

Rotary Selector Switch	L&T / SIEMENS / SALZER / KAYCEE
Cable Glands	LAPP KABEL / DOWELS / COMET / BRACKO
Cable Lugs	LAPP KABEL / DOWELS / COMET / BRACKO
Electronic Soft Starter	DANFOSS / ROCKWELL / SIEMENS / SCHNEIDER / L&T / ABB
Servo Voltage Stabilizer	AES / APLAB / NEEL / KRYCARD
AIR COMPRESSORS & AIR LINE FITTINGS	
Refrigerated Air Dryer	ATLAS COPCO / INGERSOLL RAND / SMC / CHICAGO PNEUMATIC / ELGI / BRY AIR / PURIFLAIR
Air lines accessories	SHAVO NORGEN / FESTO / SMC / AIRMATIC / LEGRIS / JANATICS
Auto Drain Valve	INGERSOLL RAND / ULTRA FILTER / ZANDER / JORC / PURIFLAIR / SMC
WATER TREATMENT PLANT	
Multi Grade Filter	ION EXCHANGE / THERMAX / WIPRO / DOSHION
VALVES & PIPES (MS & GI)	
Water Valves (Butterfly / Ball)	L&T / GEMU / INTERVALVE / CRESCENT / LEADER
Water Valves (Diaphragm)	SAUNDERS / BDK / GEMU/BURKERT
Non-return Valve for water	L&T/ INTERVALVE / LEADER / KIRLOSKAR / EXPERT
Water Foot Valve	KIRLOSKAR / GG / LEADER
GI Pipes for water	TATA / JINDAL / MST / ZENITH / KALYANI
MS Pipes for air, steam, condensate	TATA / JINDAL / MST / ZENITH / KALYANI
NRV for Air / Oil Line	INTERVALVE / L&T / LEADER / EXPERT
Angle Seat Valve for water lines	DANFOSS / AVCON / BURKERT
Water Flow Meter (analogue)	DASHMESH / ANAND ASAHI / KENT
HP / LP Steam Valves Piston type	FORBES MARSHALL / SPIRAX / ARMSTRONG, USA / UKL

SS PIPES & VALVES	
SS Pipes	RATNAMANI / BHANDARI FOILS & TUBES / NEEKA TUBES / APEX TUBES/JINDAL QUALITY TUBULAR / RENSA/SHUBLAXMI / MAXIM TUBES.
Single Seat SS Pneumatic Valves	GEA TUCHENHAGEN / SPX / ALFA LAVAL / IDMC
Mix Proof SS Pneumatic Valves	GEA TUCHENHAGEN / SPX / ALFA LAVAL / IDMC
Pneumatic SS Butterfly / Ball type valves	GEA TUCHENHAGEN / SPX / ALFA LAVAL IDMC
SS Manual Valves & Fittings	IDMC / ALFA LAVAL / GEA / CIPRIANI HARRISON.
MISCELLANEOUS ITEMS	
Geared Motor / Gear Box	BONFIGLIOLI / IC BAUER / SEW / EURO DRIVES/ PBL
& 5 star rating Split type)	
Structural Steel	SAIL / TISCO / RINL / ESSAR / ARCELOR/JINDAL

Important Note:

1. The makes of all bought-out components shall be submitted by the supplier for approval in a single instance. Only the makes approved by the buyer shall be supplied.
2. From the list of recommended makes, the buyer reserves the right to select any specific make in consultation with the supplier. The supplier shall be bound to supply the make so selected.
3. For items whose makes are not included in the recommended make list, the supplier shall obtain prior approval of the proposed make from the buyer before dispatch to site. Any material supplied without such prior approval shall be liable for rejection, and the supplier shall replace the same with materials of approved make at no extra cost to the buyer.

ANNEXURE 3

Schedule of Quantity (SOQ)

Sr. No.	Description	Unit	Qty
1	Diced Cheese Pneumatic Conveying System	Set	1
2	Vibro Shifter	Set	1
3	Hopper	Set	1
4	Air Fluidification & Line Emptying Kit	Set	1
5	Product Transport Line	Set	1
6	Air Transport Line	Set	1
7	Suction Unit	Set	1
8	Loading Unit with Accessories	Set	1
9	Electrical Control Unit	EA	1
10	SS 304 Support Structure & Piping	Set	1
11	One-year service support after commissioning	Job	1
12	Installation, Testing & Commissioning	Job	1

ANNEXURE 4

Price Schedule

Sr. No.	Description	Unit	Qty	Basic	P&F	GST	Total Amount (INR)
1	Diced Cheese Pneumatic Conveying System	Set	1				
2	Vibro Shifter	Set	1				
3	Hopper	Set	1				

Sr. No.	Description	Unit	Qty	Basic	P&F	GST	Total Amount (INR)
4	Air Fluidification & Line Emptying Kit	Set	1				
5	Product Transport Line	Set	1				
6	Air Transport Line	Set	1				
7	Suction Unit	Set	1				
8	Loading Unit with Accessories	Set	1				
9	Electrical Control Unit	EA	1				
10	SS 304 Support Structure & Piping	Set	1				
11	One-year service support after commissioning	Job	1				
12	Installation, Testing & Commissioning	Job	1				