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## **Tender Document**

**for**

**Design, Engineering, Manufacturing, Supply,  
Installation, Testing, Commissioning & Acceptance of**

**Individual Quick Freezer (IQF) Fluidized-Bed System  
at a minimum  
product output capacity of 4500 kg/hr Frozen French Fries**

**for**

**MDFVPL Project, Itola, Gujarat, India**

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**Individual Quick Freezer (IQF)  
Fluidized-Bed System**

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**1. Invitation for Bid**

**Enquiry Reference no.:** IDMC/ Sourcing & VD/ 2026-27/ Enquiry/ 114 dated 04.05.2026

IDMC Limited invites sealed bids from original equipment manufacturers (OEMs) for Design, Engineering, Manufacturing, Supply, Installation, Testing, Commissioning, acceptance of Individual Quick Freezer (IQF) Fluidized-Bed System for the Frozen French Fries processing line to rapidly achieve an equilibrated core product temperature at a minimum product output capacity of 4500 kg/hr for MDFVPL Project, Itola, Gujarat, India as per details given below:

Description of Tender	Design, Engineering, Manufacturing, Supply, Installation, Testing, Commissioning & Acceptance of Individual Quick Freezer (IQF) Fluidized-Bed System at a minimum product output capacity of 4500 kg/hr Frozen French Fries (mention imported & indigenous item separately)
Qty	1 Pack
Estimated Cost	INR 7 CRORE
Completion period (For the complete plant (design, manufacturing, supply, installation, testing, and commissioning))	9 months from the date of the Letter of Intent (LOI)/Purchase Order (PO) whichever is earlier
Earnest Money Deposit (EMD)	Not applicable
Mode of Tender	eProcurement at NCDFI eMarket portal, considering restricted tender of IDMC with single stage two bid envelope system (Part I- Techno-commercial Bid and Part II- Price Bid) through <a href="http://www.idmc.com">www.idmc.com</a> (click procurement) OR <a href="https://www.ncdfiemarket.com/index.php/idmc/">https://www.ncdfiemarket.com/index.php/idmc/</a> and can be downloaded and used as tender document for uploading the offer. The invited bidders are required to submit their offer electronically through NCDFI eMarket portal. No physical tender/email is acceptable.
Eligible bidders	This invitation for bids is restricted to original equipment manufacturers to the invited bidders only and written communication sent through email by purchaser/NCDFI e-Market.
Query/support related to online portal during submission of bid	Mr Sachin Chaudhary +91 99786 28169 Mr Parth Parikh +91 70435 31188
Warranty Period	12 months from the date of successful commissioning, product trial & acceptance of the



	plant
Date of uploading of enquiry on NCDFI eMarket portal	05.05.2026
Last date, time and place for receipt of bids/ offers	26.05.2026 (Up to 1700 hrs IST)
Bid submission currency	INR/ USD /EURO
Conversion Rate (USD / EURO to INR)	1 USD = 94.2 INR, 1 EURO = 112.2 INR (Reference date 04.05.2026)
EPCG (for information of bidders)	Imported items under EPCG

**1.1. The bid document can be downloaded by registration from the link:**

[www.idmc.com](http://www.idmc.com) (click procurement) OR  
<https://www.ncdfimarket.com/index.php/idmc>

**1.2. Enquiry document:**

Instructions to bidders, General conditions of contract, Special conditions of contract, Form of agreement, Acceptable forms of bank guarantees, Schedule of Requirement and technical specifications for all the items of works are indicated in this enquiry document.

**1.3. Clarification on the bids:**

The bidders may submit their queries / clarification if any through email by 13.05.2026 on email id – [tenders\\_mech@idmc.com](mailto:tenders_mech@idmc.com) for consideration of the purchaser.

**1.4. Opening of offers:**

Bids will be opened by the tender opening committee of IDMC based on the offer received on the NCDFI Portal, bidders' presence is not required.

**1.5. Offer validity:**

The bid shall remain valid for a period of 120 (One hundred twenty) days from the date of bid closing.

**1.6. Drawings:**

Bidders to submit preliminary GA /dimensional drawing along with the offer.

**1.7. Rights reserved by IDMC Limited:**



**IDMC**<sup>®</sup>  
L I M I T E D

**Individual Quick Freezer (IQF)  
Fluidized-Bed System**

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IDMC may evaluate & consider bids both technical as well as financially beneficial to the project. It reserves the right to accept and or reject any or all the bids.

**2. Instructions to bidders**

(a)	Tender/Event Ref. No.:	IDMC/ Sourcing & VD/ 2026-27/ Enquiry/ 114 dated 04.05.2026
(b)	Transaction Fee Payment of transaction fee by NEFT/ RTGS in favor of IDMC Limited	Not Applicable
(c)	Incidental charges (in land) in case documents are to be sent by courier/post	Not Applicable
(d)	Event Start Date	05.05.2026
(e)	Event Close Date & time	26.05.2026, 17.00 Hours
(f)	Last Date and time for bid submission	26.05.2026, 17.00 Hours
(g)	Time and date of opening of bids	
	Part I – Techno-commercial bid	Bids will be opened by the tender opening committee of IDMC based on the offer received on the NCDFI Portal, bidders' presence is not required.
	Part II – Price bid	May be communicated later to responsive /technically qualified bidders who have accepted all techno commercial terms and conditions
(h)	Opening of bid	ONLINE at web portal (in presence of tender opening committee of IDMC)
(i)	Address for communication	IDMC Tender committee 124-128 GIDC Estate Vithal Udyognagar- 388121 Dist.- Anand (Gujarat) Tel: +91 2692 -220521 Email: tenders_mech@idmc.com
(j)	Time of completion	09 (Nine) Months for overall completion (from the date of notification of award of Contract (LOI)/ Purchase Order) whichever earlier
(k)	Amount of EMD	Not Applicable
(l)	Date and time for receipt of EMD. The EMD in original to be submitted to communication address as stated above in clause (i)	Not Applicable
(m)	Price Basis (Incoterm)	For Imported items - CFR- Indian Port (Mundra / Nhava-sheva)



		For Indigenous - FOR MDFVPL Project, Itola, Gujarat, India
(n)	Packing & forwarding	In Bidder scope
(o)	Freight	For Imported items - CFR- Indian Port (Mundra / Nhava-sheva) For Indigenous items - FOR MDFVPL Project, Itola, Gujarat, India
(p)	Transit Insurance (Warehouse to warehouse)	For Imported items - Purchaser Scope For Indigenous items - FOR MDFVPL Project, Itola, Gujarat, India (Unloading at project site in IDMC Scope)
(q)	All applicable custom clearance, duties & Taxes in India	In IDMC scope

**2.1. Eligible bidders:**

This invitation for bids is restricted to original equipment manufacturers to the invited bidders only and written communication sent through email by purchaser/NCDFI e-Market.

**2.2. Cost of bidding:**

The Bidder shall bear all costs associated with the preparation and submission of its bid, and IDMC Limited, also hereinafter based on the context referred to as "the Purchaser", will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

**2.3. Bidders to check the contents of enquiry documents:**

The Bidder is requested to carefully examine all instructions, conditions, forms, terms, specifications, and drawings in the bidding documents. Failure to comply with the requirements of bid submission will be at the bidder's own risk. Bids which are not substantially responsive to the requirements of the bidding document will be rejected.

**2.4. Documents to be submitted along with the offer/ bid:**

The offer to be submitted by the bidder/ vendor shall comprise the following:

- a. The Form of bid duly filled and signed.
- b. Bidders: self-attested copies of documents defining the constitution, place of Registration and principal place of business.



- c. Details of experience and past performance of the bidder on the executed contracts of similar nature within the last 5 years. The bidder shall also provide details of similar machines provided in last five consecutive years to the following geographies:
- i. Globally (excluding Asia)
  - ii. Asia (excluding India)
  - iii. India
- d. List of customers and their contact details for reference.
- e. All details as specified in the section technical details as per the format provided.
- f. The complete enquiry document with filled in offer, has to be submitted duly signed & stamped by the bidder/ vendor.
- g. The bidder should furnish a brief write-up, backed with adequate data, explaining his available capability (both technical and commercial) for manufacturing and design, engineering, manufacturing, supply, installation, testing and commissioning of the required equipment within the specified time of completion, after meeting all their current commitments.
- h. Service setup of the bidder in India (if any).
- i. The bidder shall submit a detailed technical offer including the layout, GA drawings, Process Flow Diagram (showing flow, temperature, pressure, and other relevant parameters), P&ID, equipment/instrument/electrical datasheets, automation architecture, detailed electrical panel and cable specifications, and a tentative schedule/Gantt chart (L1 schedule).
- j. Additionally, the bidder shall provide a detailed list of all equipment with quantities proposed under import, the list of indigenous equipment with quantities, and a complete list of spare parts and special tools required for two years of continuous operation.

All pages of the offer documents shall be signed by person(s) duly authorized. Proof of authorization shall be in the form of a written Power of Attorney/ Authority letter which shall accompany the bid. All pages of the offer documents, where entries and amendments have been made, shall additionally be initiated by the person(s) signing the offer/ bid.

The complete offer/ bid shall be without alterations, interlineations, or erasures except those in accordance with instructions issued by IDMC Limited,



or as necessary to correct errors made by the bidder in which case such corrections shall be initiated by the person(s) signing the offer. No overwriting shall be permitted.

**2.5. Clarification of bidding documents:**

As specified above at clause no. 1.3

**2.6. Mode and manner of submission:**

2.6.1. Submission of bid shall be through NCDFI eMarket portal only. No physical/email bids shall be accepted

**2.7. Currency of offer & payment:**

The prices shall be quoted by the bidder as under:

2.7.1. Bidders shall quote in USD / Euro / INR (as applicable). All payments will be made in the currency in which the PO/contract will be awarded.

The payment will be only through an authorized bank, subject to forex and other regulations, including withholding taxes, if any, in force. The bank charges within India shall be borne by the purchaser.

**2.8. The price schedule:****Individual Quick Freezer (IQF) Fluidized-Bed System**

Sr. No	Technical Details Serial No.	Description	Quantity	UO M
1	1.1	Individual Quick Freezer (IQF) Fluidized-Bed System	1	EA
2	1.2	CIP (Cleaning in Place) System	1	EA
3	1.3	Infeed Shaker	1	EA
4	1.4	Spare for 2-year operation	1	EA
	1.5	ITC, acceptance, Training & Service Cover		
5	1.5.1	Installation, Testing, Commissioning, acceptance & Training	1	Job
6	1.5.2	Service Cover (continuous 5 working days in quarter	4	Job



		applicable for one year (4 visits per annum). The no. of skilled technical engineer deployed for the service cover shall be decided by the bidder.		
7	1.5.3	Non-Comprehensive AMC (minimum 4 Visits per annum & unlimited breakdown after warranty period) for 2 year	8	Job
8	1.5.4	Comprehensive AMC (minimum 4 Visits per annum & unlimited breakdown after warranty period) for 2 year	8	Job

2.8.1. The bidder shall quote the price in figures and words clearly specifying the currency. The said price shall be a comprehensive all-inclusive price for the design, engineering, manufacturing, supply, installation, testing, and commissioning including the obligations of any services and supplies as specified in the technical details or elsewhere in the bidding document.

2.8.2. The price will include the cost/ fee of any Technician/ Supervisor/ Expert to be deputed by the vendor at the site for Supervision of installation, testing, commissioning and handing over, or any other related activity.

2.8.3. Please mention imported & indigenous item separately.

**Note:** IDMC Limited shall provide local transportation from Hotel to the project site at Itola (Gujarat) only to facilitate officials of the successful bidder (applicable for Foreign bidders representative only) during the period of Supervision of installation, testing and commissioning.

**2.9. Offer validity & extension of validity if required:**

Bids submitted shall remain valid for acceptance for a period of 120 days from the date of bid closing.

**2.10. Submitted offer to be complete in all respect:**

The bidder shall submit an offer which complies fully with the requirements of the bidding documents, including the basic technical design as indicated in the specifications.

**2.11. Date of submission of offer/ bid:**

The offer must be received by IDMC Limited on or before the date and time of submission as stated in the Invitation for Enquiry/ Tender. IDMC Limited may, at its discretion, extend the deadline for the submission of offer/ bid by



issuing necessary instructions on email to all registered bidders, in which case, all rights and obligations of IDMC Limited and the bidders previously subject to the original deadline shall thereafter be subject to the new deadline as extended.

**2.12. Late bids:**

Any offer/ bid received by IDMC Limited later than the deadline for the submission of offers/ bids as prescribed by IDMC Limited will be subject to rejection.

**2.13. Opening of bids:**

The bids will be opened, scrutinized, and evaluated as per the qualification, scope and specification mentioned in tender and award the contract accordingly.

After the opening of offers IDMC Limited shall evaluate and process the same for finalizing the issuance of the Purchase order. The process shall be kept confidential - not disclosed to bidders/ any vendor or other persons not officially concerned with such process.

**2.14. Undue influence by the bidder:**

Any action to influence the procurement process or contract execution for undue advantage will be improper and may result in the rejection of the bidder's bid/ offer.

**2.15. Clarification on offers/ bids:**

To assist in the evaluation of offers/ bids, IDMC Limited may request the bidders/ vendors for clarification of their bids, including breakdown of unit rates. The request for clarification and the response shall generally be in writing but no change in the price or substance of the bid shall be sought, offered or permitted. The Purchaser may, depending on the nature of the query, contact the concerned bidder on the telephone number provided in the bid document only for the purpose of understanding and/ or resolving the query. For this purpose, the bidder is requested to provide the name and contact details of its designated officer.

**2.16. Correction of errors:**

2.16.1. The offers will be checked by IDMC Limited for any arithmetic errors in computation and summation. Errors will be corrected as follows:



2.16.2. “Where there is a difference between rates in figures and in words, the rates that correspond to the amounts worked out by the bidders, shall be taken as correct. However, when the amount of an item is not worked out or it does not correspond with the rates written either in figures or words, then the rates quoted by the bidder in words shall be taken as correct. When the rates quoted by the bidder in figures and words tallies but the amount is not worked out correctly, the price quoted by the bidder shall be taken as correct and not the amount.”

2.16.3. The amount stated in the form of bid will be adjusted by IDMC Limited in accordance with the above procedures for the correction of errors, and with the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the quoted rates (Price) of bid then his bid shall be rejected.

2.16.4. IDMC Limited reserves the right to accept or reject any variation, deviation, or alternative offers.

**2.17. IDMC Limited’s right to accept any offer/ bid and to reject any or all offers/ bids:**

As mentioned above in clause no. 1.7

**2.18. Notification of award and issuance of Purchase order:**

Prior to the expiry of the period of offer/ bid validity prescribed in the enquiry/ bid documents, IDMC Limited will notify the finalized bidder/ vendor here in after referred to as the “/ Successful bidder/ Bidder”, in writing on acceptance of their offer/ bid and issue a Letter of Intent/ Award, followed by a detailed Purchase order mentioning all the required terms and conditions and (hereinafter and in the Conditions of the Contract referred to as the "Contract price").

**2.19. License and permit for goods/ services:**

No license or permit shall be provided by Purchaser/ Owner/ IDMC Limited for the exports of goods and services being provided by the Successful bidder against this enquiry or work order.

**2.20. Amendment to the 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, modify the Bidding Documents by amendment. The amendment will be notified in writing by mail to all registered Bidders.



**2.21. Modification in the bid:**

2.21.1. The Bidder may modify or withdraw its bid after the bid submission, provided that written notice of the modification or withdrawal is received by the Purchaser prior to the deadline prescribed for submission of bids.

2.21.2. No bid may be modified after the deadline for submission of bids.

**2.22. Language of bid:**

The Bid prepared by the Bidder and all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the bid, the English translation shall govern.

**2.23. Personal discussion:**

If required, IDMC Limited may desire to hold personal discussions with shortlisted vendors. The discussions, if required, are likely to be held at IDMC Limited's office in Anand or through the Online Teams meeting. Date shall be intimated through e mail by designated person of IDMC.

### **3. General conditions of contract**

#### **3.1. Definitions and Interpretation:**

- 3.1.1. In the Contract, as hereinafter defined, the following words and expressions shall have the meanings hereby assigned to them, except where the context otherwise requires.
- 3.1.2. OWNER/ PURCHASER/ IDMC shall mean IDMC Limited and shall include its successors and assignees, as well as its authorized representatives.
- 3.1.3. IDMC Limited shall mean IDMC Limited.
- 3.1.4. The bidder/ Vendor shall be the firm/party/individual who submits the offer/ bid against this enquiry.
- 3.1.5. Contractor/ Successful bidder/ Bidder shall mean the successful vendor/ bidder whose Offer/ Bid has been accepted by the Owner/ IDMC Limited and on whom a work order/ PO has been placed and shall include his heirs, legal representatives, and assignees.
- 3.1.6. Contract price/rate shall mean the prices/ rates of the accepted Offer/Bid
- 3.1.7. Contract shall mean the work order or Purchase order along-with articles of agreement, the conditions, the Annexure, the schedule of quantities, and/ or specifications attached herewith.
- 3.1.8. "Notice in writing" shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received) by courier/ registered to the last known address or the registered office of the addressee and shall be deemed to have been received when in the ordinary course of post, it would have been delivered.
- 3.1.9. Site shall mean the actual place where the machine being purchased will be installed and commissioned as specified in technical specifications.
- 3.1.10. Month shall mean from the beginning of a given date of a calendar month to the end of the preceding date of the next calendar month.
- 3.1.11. Week shall mean seven consecutive days.
- 3.1.12. Day shall mean a day from midnight to midnight.



- 3.1.13. Award shall mean the written acceptance of the Offer/ Bid by IDMC Limited/owner given to the successful bidder/ Vendor/ Bidder.
- 3.1.14. Constructional Plant shall mean all appliances or things of whatsoever nature required in or about the execution and maintenance of the Works but does not include the materials or other things required/intended to form or forming part of the Works.
- 3.1.15. Specifications shall mean the specification referred to in the Enquiry Document/ Bid Document and any modification thereof or addition thereto as may from time to time be furnished or approved in writing by IDMC Limited.
- 3.1.16. Drawings shall mean drawings referred to in the specifications and any modification of such drawings approved in writing by IDMC Limited and such other drawings as may from time to time be furnished or approved in writing by IDMC Limited.
- 3.1.17. Approved/ Approval shall mean approval in writing, including subsequent written confirmation of previous verbal or written approval.
- 3.1.18. I.S.S. shall mean Indian Standard Specifications as published by Bureau of Indian Standards, India.
- 3.1.19. Government shall mean the Government of India or the Government in state of Gujarat.
- 3.1.20. Enquiry document shall mean the Bid document.
- 3.1.21. Headings and marginal note: All headings of and notes to the clauses of these Conditions of Contract or of and to the Specifications or any other bid document are solely for the purpose of giving concise indication and not a summary of the contents thereof, and they shall never be deemed to be the part of or be used in the interpretation or construction thereof or of the Contract.
- 3.1.22. Singular and plural: In this Contract document unless otherwise stated specifically the singular shall include the plural and vice-versa wherever the context so requires.
- 3.1.23. Cost: The cost shall be deemed to include all the overhead costs whether on or off the site.
- 3.1.24. Purchaser: IDMC Limited.



3.1.25. Installation: Something (such as a piece of equipment) that is put together and made ready for use.

3.1.26. Testing, commissioning and handover : It is the process of assuring that all systems and components of an industrial plant are designed, installed, tested, operated, and maintained according to the operational requirements and the Purchase Order specifications of the owner or final client.

**3.2. Application:**

These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

**3.3. Documents mutually explanatory:**

Except if and to the extent otherwise provided by the Contract, the provisions of the General Conditions and Special Conditions of the Contract shall prevail over those of any other documents forming part of the Contract. Several documents forming the Contract are to be taken as mutually explanatory.

**3.4. Program to be furnished:**

3.4.1. The successful bidder shall, after the receipt of the PO, submit to the Purchaser a program showing the schedule of various activities weekly as well as monthly in which he proposes to carry out the supply, installation, testing and commissioning within the timelines agreed for inclusion in the contract.

3.4.2. If at any time it should appear to IDMC that the actual progress of the Works does not conform to the approved program, as referred above, the successful bidder shall produce, at the request of IDMC, a revised program showing the modifications to the approved program necessary to ensure completion of the Works within the time for completion as defined in the contract.

**3.5. Standards:**

The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution.



**3.6. Use of contract documents and information:**

- 3.6.1. The Bidder shall not, without the Purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Bidder in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 3.6.2. The Bidder shall not, without the Purchaser's prior written consent, make use of any document or information enumerated in clause 3.6.1 except for purposes of performing the Contract.

**3.7. Patent rights and royalties:**

The Bidder shall indemnify IDMC Limited from and against all claims and proceedings for or on account of infringement of any patent rights, design trademark or name or other protected rights in respect of any constructional plant, machine work, or material and for in connection with the supply of the machine or any of them and from and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

**3.8. Inspection and tests:**

- 3.8.1. The Purchaser or its representative shall have the right to inspect and/or test the Goods to confirm their conformity to the Contract. The technical specifications shall specify what inspections and tests the Purchaser requires.
- 3.8.2. The inspections and tests may be conducted on the premises of the Bidder, at point of delivery and/or at the Good's final destination. Where conducted on the premises of the Bidder, all reasonable facilities and assistance including access to drawings and production data shall be furnished to the inspectors at no charge to the Purchaser. In case of any defects or deficiency notified by the Purchaser's inspection authority, the Bidder will rectify and make good the same without delay and not proceed with further processing of such item(s) of Goods without obtaining approval from the inspection authority.
- 3.8.3. Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject them and the Bidder shall either



replace the rejected Goods or make all alterations necessary to meet specification requirements free of cost to the Purchaser.

- 3.8.4. The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at the destination shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Purchaser or its representative prior to the Goods shipment from the country of origin.

**3.9. Packing and marking:**

- 3.9.1. The Bidder 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. The Bidder will be responsible for internal damage if any, even if outwardly there is no damage to the package.

- 3.9.2. The packing, marking and documents within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract and, subject to Clause 3.18 and any subsequent instructions given by the Purchaser.

- 3.9.3. Each package shall be marked to indicate:

Name of the Bidder

Purchase Order number

Details of items in the package

Gross, net, and tare weights on the item

Name of the consignee Destination

Country of origin

- 3.9.4. The cost of the individual cases aggregating to the total machine cost shall have to be submitted to IDMC prior to dispatch. The Bidder will have to replace the respective item of the individual cases at the cost declared, in case of damage/loss etc. IDMC Limited shall not permit



deviation from this clause. The Bidder finally executing the contract would be deemed to have accepted this clause.

### **3.10. Delivery and documents:**

Upon shipment/ dispatch, the Bidder shall notify to the purchaser the full details of dispatch including purchaser order no., description of the goods, quantity, mode of transport, place of loading, date of dispatch, packing details with the individual costs etc. The Bidder will mail the following documents to the purchaser with a copy to the Insurance Company:

Original and five copies of:

The Bidder's invoice showing purchase order no. description of goods, quantity, unit price, total amount;

- a. Delivery note/case-wise detailed packing list identifying contents of each package/ lorry Receipt/Bill of landing, individual case values (for replacement purposes, in case of damage) etc.
- b. Manufacturer's/Bidder's warranty certificate;
- c. Inspection Certificate issued by the nominated inspection agency, and the Bidder's Factory inspection report;
- d. Certificate of origin;
- e. Any other document evidencing payment of statutory levies;
- f. The Bidder's certificate certifying that the defects pointed out during inspection have been rectified;
- g. Certificate of no war/ war like materials is loaded in the consignment;
- h. Age of vessel (Not more than 25 years)

**Note:** The nomenclature used for the item description in the invoice/s, packing list/s and delivery note/s etc. should be identical to that used in the purchase order. The dispatch particulars including name of transporter, LR/BL no. and date should also be mentioned in the invoices.

### **3.11. Insurance**

Global bidders (Price basis shall be applicable as per Incoterm mentioned in clause no. 2 (m) - Instructions to bidders )



**3.12. Transportation:**

- 3.12.1. For Imported Goods : As per incoterms mentioned above.
- 3.12.2. For local goods (Indigenous items) : Transportation and insurance upto the site shall be in the scope of bidder.

**3.13. Incidental services:**

As specified in the Special Conditions of Contract, the Bidder will be required to provide any or all of the following services:

- a. The bidder shall provide all the details/load for safe unloading of materials at project site.
- b. Furnishing list of tools and tackles required for assembly and/or maintenance of the supplied goods; Any special tools required for assembly and installation shall be provided by the bidder
- c. Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; and manuals covering the operation and maintenance of automation software and control systems. The soft copy of manuals shall also be provided.
- d. Performance or supervision or maintenance and/or repair of the supplied Goods, for a period agreed by the parties, provided that this service shall not relieve the Bidder of any warranty obligations under this Contract; and
- e. Conduct 15 working days onsite /offsite training during installation and commissioning as per the requirement of the purchaser.

**3.14. Spare parts: - Applicable as per technical specifications**

Bidder shall also provide costing & breakup quantity of spares.

**3.15. Warranty:**

- 3.15.1. The Bidder 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 Bidder further warrants that the Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except insofar as the design or material is required by the Purchaser's



Specifications) or from any act or omission of the Bidder, that may develop under normal use of the supplied Goods in the conditions obtaining in the country of final destination. The Bidder also guarantees that the Goods supplied shall perform satisfactorily as per the signed/rated/installed capacity as provided for in the Contract.

- 3.15.2. The warranty period is 12 months after the date of successful commissioning, product trial & acceptance, and completion certificate duly signed by both parties or handover of the plant.
- 3.15.3. The Purchaser shall promptly notify the Bidder in writing of any claims arising under this warranty.
- 3.15.4. Upon receipt of such notice, the Bidder shall promptly respond and resolve the issue maximum within 7 days from the date of notice by way of repair or replace the defective Goods or parts thereof, without costs to the Purchaser.
- 3.15.5. If the Bidder, having been notified, fails to remedy the defect(s) within a reasonable period mentioned in clause no 3.15.4, the Purchaser may proceed to take such remedial action as may be necessary, at the Bidder's risk and expense and without prejudice to any other rights which the Purchaser may have against the Bidder under the Contract.

### **3.16. Payment:**

#### **Payment for supply component:**

- 3.16.1. 20% advance against submission of equivalent security in the form of Bank guarantee from a reputed bank with banker confirmation and shall valid till receipt of last consignment at purchaser site in acceptable condition.
- 3.16.2. 70% shall be payable through letter of credit (on B/L date- 90 days Interest Free Credit- usance period) on presentation of clean set of board shipping documents along with insurance details. LC to be opened 1 month prior to scheduled ex-work delivery date.
- 3.16.3. The balance 10% shall be payable through letter of credit in 30 days after final acceptance of satisfactory performance of the complete plant for uninterrupted running of 15 days continuously, on completion of other contracted services including training and acceptance by the purchaser in writing, within the scope of this contract and on submission of an equivalent amount of performance bank guarantee



(PBG) valid for a period of 12 months from the date of successful commissioning, product trial & acceptance by the purchaser.

**Payment for Installation, Start-up assistance, Testing, Commissioning, acceptance & Training:**

3.16.4. 90% of the contract price against successful installation and commissioning shall be paid in 30 days on actual completion of installation/erection and approval by the purchaser (against detailed break up cost to be furnished by the Bidder in advance and accepted by the Purchaser)

3.16.5. On final acceptance:

The balance 10% shall be paid on continuous satisfactory running of the complete plant/equipment for one month, on completion of other contracted services and accepted by the purchaser's representative, within the scope of this contract.

**Payment for Service Cover, Non-Comprehensive AMC & Comprehensive AMC:**

3.16.6. 100 % shall be paid in 15 days against submission of visit report accepted by the purchaser's representative, within the scope of this contract.

**Note:**

1) All bank charges within India to the Buyer account and outside India to the beneficiary/ Vendor account. L/ C confirmation charges (if any) to beneficiary/ Vendor account. L/ C shall be processed only after receipt of order acknowledgement and/ or Pro-forma invoice from Beneficiary/ Vendor with required details.

2) All bank guarantees should be issued by a Nationalized/ class- I Indian/ Foreign Bank in the format provided in the bid.

3.16.7. The Bidder's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by shipping documents, submitted pursuant to Clause 3.10, and fulfillment of other obligations stipulated in the Contract.

3.16.8. All payments under this contract shall be made in the currency in which the bid price was quoted.



**3.17. Change orders:**

3.17.1. The Purchaser may, at any time, by a written order given to the Bidder make changes within the general scope of the Contract in any one or more of the following:

- a. Drawings, designs, or specifications, where Goods to be furnished under the Contract is to be specifically manufactured for the Purchaser:
- b. The method of shipment or packing;
- c. The Services to be provided by the Bidder.

3.17.2. If any such change causes a substantial increase or decrease in the cost of, or the time required for, the Bidder's performance of any part of the work under the Contract, whether changed or not changed by the order, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Bidder for adjustment under this clause must be asserted within sixty (60) days from the date of the Bidder's receipt of the Purchaser's change order.

**3.18. Contract amendment:**

Subject to Clause 3.17, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

**3.19. Assignment:**

The Bidder shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

**3.20. Liquidated damages:**

If the Bidder fails to deliver any or all the goods or perform the services within the times period (s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the contract prices, as liquidated damages, a sum equivalent to:

- (1) 0.5% of the full contract value for every completed week (week comprising of 7 days including holidays and any incomplete week shall be ignored for the calculations of liquidated damages) of delay in the supplies/commissioning.



- (2) The total amount so deducted shall not exceed 5% of the Contract value. Once the maximum is reached, the Purchaser may consider termination of the contract pursuant to Force Majeure.

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

**3.21. Termination for default:**

The contract can be terminated on the following grounds:

3.21.1. Bidders default:

3.21.1.1. If the Bidder shall assign the Contract, without the consent in writing of the Purchaser first obtained, or if in the opinion of the Purchaser, the Bidder:

- a. Has abandoned the Contract, or
- b. Without reasonable excuse has failed to commence the Works or has suspended the progress of the works for twenty-eight days after receiving from the purchaser written notice to proceed, or Despite previous warnings by the Purchaser, in writing, is not executing the works in accordance with the Contract or neglecting to carry out his obligations under the contract.

3.21.1.2. Consequent to such termination of Contract, the Purchaser shall also be entitled to recover the advance paid, if any, to the Bidder along with interest @ 18% per annum compounded quarterly on the last day of March, June, September and December on the advance paid for the entire period for which the advance was retained by the Bidder.

3.21.2. Default of the Purchaser

3.21.2.1. In the event of the Purchaser:

- a. Becoming bankrupt or (being a company) going into liquidation other than for the purpose of a scheme of reconstruction or amalgamation, or
- b. Being unable to continue to meet his contractual obligations for unforeseen reasons due to economic dislocation.



3.21.2.2. Nothing in this clause contained shall prejudice the right of the Bidder to exercise, either in lieu of or in addition to the rights and remedies in this Clause specified any other rights or remedies to which the Bidder may be entitled.

**3.22. Force majeure:**

3.22.1. Notwithstanding the provisions of Clauses 3.20, 3.21 the Bidder 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.

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

3.22.3. If a Force Majeure situation arises, the Bidder shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Bidder 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.

**3.23. Inspection of goods during manufacturing at Bidder works/ operations:**

The Purchaser and any person authorized by him shall have the right to inspect the physical progress at the site of the successful bidder, after providing reasonable and not less than three days' notice.

**3.24. Time for completion shall mean the completion of performance of contract:**

As given in clause 4.3 in the special conditions of contract.

**3.25. Certification of completion of works:**

The successful bidder shall obtain a certificate of completion from IDMC Limited at the time of complete plant hand over for the commercial production after successful commissioning and performance trial of the supplied plant and machinery and fulfilment of other obligations stipulated in the contract.



**3.26. Resolution of disputes:**

3.26.1. The Purchaser and the Bidder shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Bidder have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms as specified in the special conditions of contract. These mechanisms may include but are not restricted to, conciliation mediated by a third party, adjudication in an agreed national or international forum, and/or international arbitration. The mechanism shall be specified in the Special conditions of the contract.

**Applicable law:**

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

**3.27. Notices:**

3.27.1. Any notice given by one party to the other pursuant to the Contract shall be sent in writing to the address specified for that purpose in the Special Conditions of Contract.

3.27.2. A notice shall be effective when delivered or on the notice's effective date, whichever is later.

**3.28. Right to use defective goods:**

If after delivery, acceptance and installation and within the warranty period, the operation or use of the Goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such Goods until rectifications of defects, errors, or omissions by repair or by partial or complete replacement are made without interfering with the Purchasers' operation.

**3.29. Jurisdiction:**

This invitation for bids is issued by IDMC Limited and on behalf of its head office situated at Anand (Gujarat). For the settlement of any dispute arising out of the contract against this bid, only the Courts at Anand, Gujarat, India shall have jurisdiction.



#### **4. Special conditions of contract**

##### **4.1. General:**

The following Special conditions of Contract shall supplement the General conditions of Contract, given in chapter 3. Wherever there is a conflict, the provisions herein shall prevail over those in the General conditions of Contract.

##### **4.2. Taxes:**

###### **For Global bidders**

The offer rates being as per price basis (Incoterm) mentioned in Instruction to Bidder. All the taxes and duties applicable from the port including customs duty etc. will be paid by the Purchaser. Foreign exchange rates as public customs the Reserve Bank of India on the bid closure date will be considered. All payments will be made in the currency in which the Purchase order will be placed and will be only through authorized bank, subject to forex and other regulations, including withholding taxes if any, in force and payment terms agreed.

##### **4.3. Time of completion:**

The expected total time of completion of the Design, Engineering, Manufacturing, Supply, Installation, Testing, Commissioning of Dual Multi-fruit Processing Lines designed to handle fruits at a minimum capacity of 20,000 kg/hr Each is a period of 9 (Nine) months from the issue of the purchase order to successful commissioning and handover to purchaser.

##### **4.4. Drawings/ specification:**

The bidder shall furnish a standard Plant layout drawing along with the bid.

##### **4.5. Safety regulations & compliance:**

The successful bidder has to follow all the safety requirements during the supervision of erection, testing and commissioning as per the standard safety laws, compliances and as per the guideline of IDMC.

##### **4.6. Office space at site:**

IDMC Limited shall provide office space at the site location to the personnel of the Bidder during erection and commissioning period.



**4.7. Installation, start up, commissioning and trial runs:**

As per attached technical specifications.

**4.8. Rating:**

As per attached technical specifications

**4.9. Instruction Manual:**

As per attached technical specifications

**4.10. Resolution of Disputes (Clause 3.26 of General Conditions of Contract):**

In the event of any dispute in the interpretation of the terms of the order/contract or difference of opinion between the parties on any point in the order/contract arising out of or in connection with the agreement accepted order/contract or with regard to the performance of any obligation hereunder by either party, the parties hereto shall use their best efforts to settle such disputes or difference of opinion amicably by mutual negotiations. In case no agreement is reached, either party may forthwith give to the other, a notice in writing of the existence of such question, dispute, or difference of opinion, and the same shall be referred to the adjudication of a sole arbitrator to be appointed by IDMC whose decision in the matter shall be final and binding on the parties.

The arbitration proceedings shall be governed under the provisions of the Indian Arbitration and Conciliation act, 1996, and the rules there under or any statutory modifications thereof for the time being in force. In the order/contract, the venue of such Arbitration shall be Anand, Gujarat and the Courts of Anand alone shall have jurisdiction regarding any matter arising out of the order/contract.

**4.11. Rights reserved by IDMC Limited:**

IDMC Limited at its sole discretion and without assigning any reason thereof reserves the right to accept and/ or reject any or all the bids. Further it shall be the prerogative of IDMC Limited to revise/ modify the qualifying criteria specified in the invitation to bid without assigning any reasons whatsoever.

**4.12. Limitation of Liability:**

Notwithstanding anything to the contrary herein, Bidders' s entire liability for claim, whether based on contract, warranty (except warranty of title), tort



(including negligence), strict liability, or otherwise for any loss arising out of its performance or failure to perform this contract shall:

- (A) not exceed the contract price of the equivalent supplied plant and machinery hereunder which was the cause of such claim:
- (B) in no case extend to direct, indirect special incidental, or consequential damages, of any nature or kind, including, without limitation, lost profits, lost production, lost revenues, or lost business opportunities; and
- (C) termination upon expiration of the warranty period.



**Individual Quick Freezer (IQF)  
Fluidized-Bed System**

Tender Ref. No.  
IDMC/ Sourcing &  
VD/ 2026-27/  
Enquiry/ 114

**5. Form of Bid**

Enquiry Reference No : IDMC/ Sourcing & VD/ 2026-27/ Enquiry/ 114  
dated 04.05.2026  
Name and address of Purchaser : IDMC Limited, 124-128, GIDC Estate, Vithal  
Udyognagar- 388121, Anand District, Gujarat,  
India, Tel: +91-2692-220521

Gentlemen:

Having examined the Conditions of Contract, Technical Specifications and the Drawings included in or referred to in the Bidding Documents including Addenda Nos. (Insert Numbers), the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver Goods and Services including installation and commissioning as detailed in the price bid, in conformity with technical specifications and drawings (except to the extent of deviation statement furnished in our bid) and the Conditions of Contract as mentioned in or referred to in the said Bidding Document for the sum as may be ascertained in accordance with the Bid Prices and made part of this bid and the said conditions.

Our acceptance to all the conditions of the Bidding Document in this bid form shall persist over any other terms and conditions, if any, given in our bid.

We undertake, if our bid is accepted, to commence and complete delivery of all the goods and Services including installation and commissioning as specified in the Schedule of Quantities of the Bid Document, from the date of receipt of your Purchase Order.

If our bid is accepted, we will obtain the bank guarantees as per the conditions of the Contract for the due performance of the Contract.

We agree to abide by this bid for the period of 120 days from the date fixed for bid opening as per the Instruction to Bidders and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your Purchase Order/notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2026.

\_\_\_\_\_  
Signature



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\_\_\_\_\_  
(In the Capacity of)

Duly authorized to sign bid for and on behalf of

(Name & Address of Bidder): \_\_\_\_\_  
\_\_\_\_\_

Name of Witness: \_\_\_\_\_

Signature: \_\_\_\_\_ Address: \_\_\_\_\_



**BIDDING TERMS DEVIATION STATEMENT FORM**

The following are the particulars of deviations from the requirements of the bidding conditions/ terms:

CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)
--------	-----------	-----------------------------------

The terms and conditions prescribed in the bidding document shall prevail over those of any other document forming a part of our bid, except only to the extent of deviations furnished in this statement.

Dated:  
Place:

Signature and Seal of Bidder

Note :-

Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "NO DEVIATIONS".



**TECHNICAL DEVIATION STATEMENT FORM**

The following are the particulars of deviations from the requirements of the bidding conditions/ terms:

CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)
--------	-----------	-----------------------------------

All the bidders to submit their bids as per the scope of supply mentioned in the technical specifications in totality and no any deviation shall be considered in the scope of supply.

The terms and conditions prescribed in the bidding document shall prevail over those of any other document forming a part of our bid, except only to the extent of deviations furnished in this statement.

Dated:  
Place:

Signature and Seal of Bidder

Note :-

Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "NO DEVIATIONS".



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**6. Acceptable forms of Bank Guarantees**

**Bank Guarantee to secure performance**

Currency: INR / EURO / USD / ETC..	Amount in figures	
Amount in words		
Date of execution		Date up to when in force/ Date of expiry
Date of Claim/ Demand (up to 45 days beyond the date of expiry)		
Name and address of beneficiary	IDMC Limited, Plot no. 124-128, GIDC Estate, Vithal Udyognagar, District Anand, Gujarat -388121	
Name and address of the vendor and/ or service provider (i.e. purchaser of the bank guarantee from the bank)		

THIS deed of guarantee made on this \_\_\_\_\_ day of \_\_\_\_\_, between \_\_\_\_\_ (name of the bank issuing this guarantee), herein after called 'the bank', on the first part and \_\_\_\_\_ (hereinafter referred to as 'vendor and/ or service provider in relation to IDMC Limited' and 'purchaser in relation to the bank' respectively) on the second part.

WHEREAS, the purchaser of the bank guarantee has been engaged by IDMC Limited as a vendor and/ or service provider for \_\_\_\_\_ (e.g. design, manufacture, and supply of equipment or installation/ testing/ commissioning/ job work/ preventive maintenance/ break-down maintenance/ consulting or advising services as envisaged in the purchase order(s)/ contract(s) \_\_\_\_\_ dated \_\_\_\_\_) which is required to be performed in pursuance of the said purchase order(s)/ contract(s);

WHEREAS, the vendor and/ or service provider is required to submit this bank guarantee for a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) as security for fulfilling its obligation to secure performance of the \_\_\_\_\_ (description of goods and/ or services) under the said purchase order(s)/ contract(s).

AND WHEREAS, at the request of the vendor and/ or service provider, the bank has agreed to guarantee the refund of the said amount in case the aforesaid goods and/ or services do not perform to the satisfaction of IDMC Limited as per the terms and conditions of the said purchase order(s)/ contract(s).



NOW THIS DEED OF GUARANTEE DOES WITNESSETH AS UNDER:

1. That in consideration of IDMC Limited having awarded the said purchase order(s)/ contract(s), the bank does hereby irrevocably guarantee and indemnify that if the vendor and/ or service provider has supplied and/ or provided \_\_\_\_\_ (description of goods and/ or services), which is not to the satisfaction of IDMC Limited, as per the details, terms and conditions contained in the said purchase order(s)/ contract(s), *supra*, the Bank shall, without demur, repay and indemnify IDMC Limited within seven (7) working days as the bank may be called upon to pay subject to a ceiling of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_);

2. We, \_\_\_\_\_ (name of the bank), further agree that this performance guarantee will remain in full force and effect up to \_\_\_\_\_ by which duration IDMC

Limited believes it may be reasonable to certify that the defect liability period has been successfully completed as per the details contained in the purchase order(s)/ contract(s), *supra*.

3. That the bank shall not question any of the details, terms and conditions contained in the said purchase order(s)/ contract(s), *supra*, including but not limited to the amount of consideration agreed upon between IDMC Limited and the vendor and/ or service provider for the purposes of determining its acceptance of liabilities under this bank guarantee and forthwith accept the demand of IDMC Limited to determine this bank guarantee.

4. That at the written request of either IDMC Limited or the vendor and/ or service provider, the bank shall renew this bank guarantee before it's date of expiry.

5. The Bank agrees that the amount hereby guaranteed shall be immediately due and payable to IDMC upon serving the bank with a notice before the date of expiry or date of claim/ demand, whichever is earlier. The claim can be lodged by IDMC Limited up to 45 days beyond the date of expiry or extended date of expiry.

6. This Bank Guarantee shall be subject to the law as applicable in India.

7. "In the event of invocation, the details to be sent to the branch address with branch email id \_\_\_\_\_ Marking a copy to our back-office email id \_\_\_\_\_."

8. Notwithstanding anything stated herein before:

(i) The Bank's liability under this guarantee is restricted to Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ only);



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- (ii) This guarantee shall remain in force till \_\_\_\_\_ and;
- (iii) The Bank is liable to pay the guaranteed amount or any part thereof under this bank guarantee only if IDMC Limited serves upon the Bank a written claim/ demand on or before \_\_\_\_\_ (Date of Claim/ Demand) including 45 days of grace period from the date of expiry.

IN WITNESS WHEREOF, the bank has signed on this \_\_\_\_\_ day of \_\_\_\_\_, 2026.

Signature of Bank Manager



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**Bank Guarantee for advance payment**

Currency: INR / EURO / USD / ETC..		Amount in figures	
Amount in words			
Date of execution		Date up to when in force/ Date of expiry	
Date of Claim/ Demand (up to 45 days beyond the date of expiry)			
Name and address of beneficiary		IDMC Limited, Plot no. 124-128, GIDC Estate, Vithal Udyognagar, District Anand, Gujarat -388121	
Name and address of the vendor and/ or service provider (i.e. purchaser of the bank guarantee from the bank)			

THIS deed of guarantee made on this \_\_\_\_\_ day of \_\_\_\_\_, between \_\_\_\_\_ (name of the bank issuing this guarantee), herein after called 'the bank', on the first part and \_\_\_\_\_ (hereinafter referred to as 'vendor and/ or service provider in relation to IDMC Limited' and 'purchaser in relation to the bank' respectively) on the second part.

WHEREAS, the purchaser of the bank guarantee has been engaged by IDMC Limited as a vendor and/ or service provider for \_\_\_\_\_ (e.g. design, manufacture and supply of equipment or installation/ testing/ commissioning/ job work/ preventive maintenance/ break-down maintenance/ consulting or advising services as envisaged in purchase order(s)/ contract(s)\_ dated \_\_\_\_\_) which is required to be supplied/ provided latest by \_\_\_\_\_ (dd/mm/yyyy) in pursuance of the said purchase order(s)/ contract(s)

WHEREAS, IDMC Limited is required to pay the vendor and/ or service provider a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) against submission of this bank guarantee towards part value of \_\_\_\_\_ (description of goods and/ or services) ordered to be manufactured/ supplied/ provided under the said purchase order(s)/ contract(s);

AND WHEREAS, at the request of the vendor and/ or service provider, the bank has agreed to guarantee the refund of the said amount, in case the aforesaid goods and/ or services do not deliver to the satisfaction of IDMC Limited as per the terms and



conditions of the said purchase order(s)/ contract(s).

NOW THIS DEED OF GUARANTEE DOES WITNESSETH AS UNDER:

1. That in consideration of IDMC Limited having agreed to pay an advance of Rs. \_\_\_\_ (Rupees \_\_\_\_\_) to the vendor, the bank does hereby irrevocably guarantee and indemnify that if the vendor and/ or service provider fails to supply/provide to IDMC Limited the goods and/ or services as per the details, terms, and conditions contained in the said purchase order(s)/ contract(s), *supra*, the Bank shall, without demur, repay and indemnify IDMC Limited within seven (7) working days all such advances paid by IDMC Limited to the vendor and/ or service provider as the bank may be called upon to pay subject to a ceiling of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_);
2. That the guarantee furnished herein shall be realized and discharged the moment the vendor and/ or service provider supplies/ provides the equipment to the satisfaction of IDMC Limited, as per the details, terms and conditions contained in the said purchase order(s)/ contract(s);
3. That the bank shall not question any of the details, terms and conditions contained in the said purchase order(s)/ contract(s), *supra*, including but not limited to the amount of consideration agreed upon between IDMC Limited and the vendor and/ or service provider for the purposes of determining its acceptance of liabilities under this bank guarantee and forthwith accept the demand of IDMC Limited to determine this bank guarantee.
4. That at the written request of either IDMC Limited or the vendor and/ or service provider, the bank shall renew this bank guarantee before it's date of expiry.
5. That the Bank agrees that the amount hereby guaranteed shall be immediately due and payable to IDMC on serving the bank with a notice before the date of expiry or date of claim/ demand, whichever is earlier. The claim can be lodged by IDMC limited up to 45 days beyond the date of expiry or extended date of expiry.
6. This Bank Guarantee shall be subject to the law as applicable in India.
7. "In the event of invocation, the details to be sent to the branch address with branch email id \_\_\_\_\_ Marking a copy to our back-office email id \_\_\_\_\_."
8. Notwithstanding anything stated herein before:
  - a. The Bank's liability under this guarantee is restricted to Rs. \_\_\_\_\_ /- (Rupees \_\_\_\_\_ only);



- b. This guarantee shall remain in force till \_\_\_\_\_ and;
- c. The Bank is liable to pay the guaranteed amount or any part thereof under this bank guarantee only if IDMC Limited serves upon the Bank a written claim/ demand on or before \_\_\_\_\_ (Date of Claim/ Demand) including 45 days of grace period from date of expiry.

IN WITNESS WHEREOF, the bank has signed on this \_\_\_\_\_ day of \_\_\_\_\_, 2026.

Signature of Bank Manager



## **7. Schedule Of Requirement**

**Design, Engineering, Manufacturing, Supply,  
Installation, Testing, Commissioning & Acceptance of  
Individual Quick Freezer (IQF) Fluidized-Bed System  
at a minimum  
product output capacity of 4500 kg/hr Frozen French Fries**



**Schedule of Requirement:**

<b>Pack No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Completion Period</b>
1	Design, Engineering, Manufacturing, Supply, Installation, Testing, Commissioning & Acceptance of Individual Quick Freezer (IQF) Fluidized-Bed System for the Frozen French Fries processing line, including all allied equipment, electrical systems, automation, structural works, and comprehensive services such as Project Engineering & Management, Training, and Service Cover, <b>specifically designed to rapidly achieve an equilibrated core product temperature at a minimum product output capacity of 4500 kg/hr as per the technical specifications &amp; preliminary layout enclosed</b> on single source responsibility basis at MDFVPL Project, Itola, Gujarat, India	1 Pack	<b>9 Months</b>

Note: Bidders must quote their prices for each item as mentioned in the broad schedule of quantity.

**Schedule of Quantity:**

The Individual Quick Freezer (IQF) Fluidized-Bed System shall be supplied completely with all standard mountings, accessories, and tools necessary for safe and efficient operation, fully complying with the latest applicable codes and statutory regulations. The Individual Quick Freezer (IQF) Fluidized-Bed System shall include all components specified herein.

It shall be the sole responsibility of the successful bidder to supply any components or items not explicitly mentioned in this specification or in their offer, if such components are required for compliance with statutory or regulatory provisions and process smooth operation. These additional components/items shall be deemed included within the bidder's scope of work, and no additional cost shall be entertained for the same.

The bidder shall, however, clearly identify in their offer any components or items not listed in this specification but considered necessary for safe, reliable, and efficient operation in accordance with the latest regulations. Prices for such additional components/items, if applicable, shall be furnished separately on an item-wise basis

The general technical specifications of the major components and the ancillary items described in the technical section and the equipment, its capacities and quantity proposed by the Purchaser is furnished in the design requirement and schedule of quantities are for the guidance of the supplier only. However, the Bidder has to get themselves familiarized/acquainted about the nature and the quantum of work involved and submit their offer without deviation in the basic configuration of the system.

Bidder must agree to undertake the complete work and there is no exclusion whatsoever of any PART. It shall be understood that any minor work, which may not have been explicitly detailed but is necessary for the proper functioning of individual equipment or the plant as a whole, is included in the scope of work without any additional cost.

**Individual Quick Freezer (IQF) Fluidized-Bed System**

Sr. No	Technical Details Serial No.	Description	Quantity	UOM
1	1.1	Individual Quick Freezer (IQF) Fluidized-Bed System	1	EA
2	1.2	CIP (Cleaning in Place) System	1	EA
3	1.3	Infeed Shaker	1	EA
4	1.4	Spare for 2-year operation	1	EA
	1.5	ITC, acceptance, Training & Service Cover		
5	1.5.1	Installation, Testing, Commissioning, acceptance & Training	1	Job
6	1.5.2	Service Cover (continuous 5 working days in quarter applicable for one year (4 visits per annum). The no. of skilled technical engineer deployed for the service cover shall be decided by the bidder.	4	Job
7	1.5.3	Non-Comprehensive AMC (minimum 4 Visits per annum & unlimited breakdown after warranty period) for 2 year	8	Job
8	1.5.4	Comprehensive AMC (minimum 4 Visits per annum & unlimited breakdown after warranty period) for 2 year	8	Job

Note: The above-mentioned Quantities are tentative and subject to confirmation during the detailed process review and may vary from the final scope.



## **8. Technical Specifications**

**Design, Engineering, Manufacturing, Supply,  
Installation, Testing, Commissioning & Acceptance of**

**Individual Quick Freezer (IQF) Fluidized-Bed System  
at a minimum  
product output capacity of 4500 kg/hr Frozen French Fries**



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- B. PROJECT SITE DETAILS**
- C. SCOPE OF WORK**
- D. DESIGN REQUIREMENT**
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**Individual Quick Freezer (IQF)  
Fluidized-Bed System**

Tender Ref. No.  
IDMC/ Sourcing &  
VD/ 2026-27/  
Enquiry/ 114

**A. INTRODUCTION**

IDMC Limited is setting up a “potato processing plant capable of producing both frozen French fries and potato flakes” on behalf of the MDFVPL (Mother Dairy Fruit & Vegetable Private Limited) for their Itola, Gujarat.

This potato processing plant is designed to produce frozen French fries & Potato Flakes beginning with common raw potato reception, progressing through two dedicated lines of processing, packing, storage & dispatch.

In order to cater ‘rapidly achieve an equilibrated core product temperature as required’, it is proposed to set up Individual Quick Freezer (IQF) Fluidized-Bed System with ancillary items.

**B. PROJECT SITE DETAILS**

Site Location : MDFVPL Project, Itola  
State : Gujarat, India  
Nearest Airport : Ahmedabad and Vadodara  
Operation : 24 Hrs

	<b>Summer</b>	<b>Monsoon</b>	<b>Winter</b>
Ambient Dry Bulb Temperature in Deg.C	44.2	35.8	8.1
Ambient Wet Bulb Temperature in Deg.C	29.2	28.7	5.1

**Tropicalization** - All equipment / system / sub-system / instruments/ control system should be fully tropicalized in view of the hot and humid weather conditions prevailing at this site.

**C. SCOPE OF WORK**

It shall be understood that this is a complete job on single source responsibility basis. The scope of this contract shall include, but not limited to designing, manufacturing, supply, installation, testing and commissioning the complete System and allied equipment.

Schedule of major items and components of the proposed plant are broadly described under technical specification.

Any items not explicitly mentioned in the specifications/scope of the work but required for completion of supply, proper functioning and satisfactory performance of the system is included in the scope of work and shall be provided by the bidder without any extra claim.

The scope of work specifically includes the following:

- The scope of work shall be on a turnkey basis, covering design, supply, installation, testing, and commissioning of all related equipment, piping, electrical systems, instrumentation, automation, and structural works.
- The bidder must undertake the job in its entirety without exclusions. Any minor works not explicitly detailed but necessary for the proper functioning of the Individual Quick Freezer (IQF) Fluidized-Bed System, or for achieving high-quality and efficient output, shall be deemed included at no additional cost.
- The bidder shall plan and execute the design, layout, selection of technology, and methodology of system execution with full knowledge of efficient operations.
- Process flow diagrams, time schedules, mass flow diagrams, P&IDs, operating parameters, equipment details, and layouts shall be submitted by the bidder based on the offered system.
- The bidder shall furnish the complete requirement of utilities such as raw water, RO water, chilled water, hot water, steam, refrigerant, compressed air, oil and electrical power.
- The raw product shall be provided by the purchaser.
- General specifications of major components and ancillary items are described in the technical section. Capacities and quantities provided by the purchaser are indicative for comparison.
- It shall be assumed that the bidder is fully familiar with the nature of the product and the scope of work, and therefore shall not deviate from the basic design, functional requirements, or configuration of the system
- The bidder shall be responsible for the proper positioning of the system and associated equipment on foundations, as well as all connections for piping, electrical systems, and earthing.
- Water, and power will be made available at the battery limit by the purchaser.



- The final packed product shall meet all applicable Indian food safety and quality standards.
- **All equipment shall be designed, engineered, supplied, and installed in accordance with prevailing international standards, including EHEDG or 3A sanitary Standards/USDA /FDA for smooth exporting of products and in compliance with ISO, HACCP, GMP, FSMS, and statutory Indian food and industrial safety regulations.**
- All Process equipment which have direct Food Contact shall be fabricated in stainless steel AISI 304/316 as per process & design requirement unless otherwise specified.
- The bidder shall ensure satisfactory performance and provide after-sales service and support for all bought-out items.
- The bidder shall impart comprehensive training to plant personnel on the operation and maintenance of the equipment.
- After commissioning, the bidder shall submit Access to PLC program, Detailed BOQ and consumable list, dead load, Normal Load and catastrophic load, as-built P&IDs, equipment layout drawings, SOPs for operation and maintenance, safety instructions, and Do's & Don'ts.
- The bidder shall submit a detailed preventive maintenance schedule and complete operating manuals at least two weeks before the start of commissioning.
- The bidder shall submit the "layout, GA Drawings, Process Flow Diagram (with flow, temperature and other parameters), product drawing, P & ID, Equipment/ instrument/electrical Data sheet, Automation architecture, details of electrical panel and cable, and a tentative schedule/Gantt chart/ L1 Schedule and a comprehensive list of all spare parts and special tools required for two years of continuous functioning" at the time of submitting offer.
- Purchaser's approval of technical documents and drawings or FAT does not absolve the bidder of their primary responsibility to design, supply, and commission a complete, safe, and fully functional system. Any design flaws or missing safety features identified during commissioning must be rectified by the bidder at no extra cost.
- A proper SS working platforms, ladders, and safety railings must be provided for all equipment, motors, gearboxes, bearings, and rollers installed at heights above standard working levels to ensure safe operation and maintenance.
- Bidder shall fully provide covered chutes, side plates of proper height and angle, and sliding gates at all transfer points (e.g., conveyors, feeding belts, infeed shakers) to prevent any product from falling onto the floor. If spillage occurs during product trials, it will be classified as a design defect that must be rectified by the bidder at no extra cost.
- All hardware, fasteners, plain nuts, self-locking nuts and studs used throughout the equipment must be SS. If specific high-tension bolts cannot be manufactured in SS due to shear strength limits, the bidder must explicitly declare these exceptions in their bid for prior approval.



- The manuals shall include:
  - Procedures for system start-up, commissioning, normal operation, and emergency operation.
  - Troubleshooting charts indicating operational issues, possible causes, and corrective actions.
  - As-built equipment drawings, electrical schematics, control wiring diagrams, and executed P&IDs.
- Manuals and drawings are to be supplied as follows:
  - 1 Sets of drawings and manuals in hard copy
  - 1 Sets of drawings and manuals in Pen Drive (softcopy – PDF Format)
  - 1 Sets of drawings in Pen Drive (softcopy - AutoCAD Format)

**D. DESIGN REQUIREMENT**

The fully automatic Individual Quick Freezer (IQF) Fluidized-Bed System is required to sequentially pass the Par-fried potato strips through the pre-cooler & freezer to rapidly achieve an equilibrated core product temperature of minus 18 Deg.C.

**Product Specification:**

- *Raw Material:*
  - Par-fried Potato Strips:
    - Dimension & Density:
      - 6x6 mm, 230 kg/m<sup>3</sup>
      - **7x7 mm, 270 kg/m<sup>3</sup>**
      - 9x9 mm
      - 11x11mm,
      - 13x13 mm, 350 kg/m<sup>3</sup>
    - Maximum Moisture Content: 75%
    - Maximum Oil Content: 7 % by weight
    - Temperature
      - Pre-cooler Inlet: 95 Deg.C, Outlet: 10 to 15 Deg.C
      - Freezer Inlet: 15 Deg.C, Outlet: minus 18 Deg.C (equilibrated core temperature)
- *Product Output:*
  - Frozen French Fries
    - Capacity: minimum 4500 kg/hr basis 7x7 mm Classic Cut French Fries
    - Temperature Outlet: minus 18 Deg.C (equilibrated core temperature)
- *Other:*
  - Surrounding Temperature : Ambient



**Details of Equipments:**

**1.1. Individual Quick Freezer (IQF) Fluidized-Bed System:**

The Individual Quick Freezing is a key component in the production line, shall be designed to handle par- fried potato strips, ensuring they are frozen individually and to a specified core temperature.

This rapid freezing process is essential for maintaining product quality, including the formation of small ice crystals and minimal damage to the product texture. The system shall operate by blowing high-capacity cold airflow upwards through the product, fluidizing the product bed, which is characteristic of an Individual Quick Freezer (IQF) Fluidized-Bed System.

The 'Par-fried Potato Strips' shall be quickly frozen from temperature around 95 Deg.C to an equilibrated core temperature of minus 18 Deg.C before packing through weigher.

**Equipment Specification:**

Belt Type	:	SS link chain conveyor with SS sprockets
Coils	:	SS-304 tubes Heavy-Duty Fins & Fans
Fans	:	Equipped with SS / Aluminium Impellers
Defrosting System	:	Includes Sequential Defrosting
Operational Capability	:	Capable of running for a minimum of 14 days (24x7operation) continuously @ 4500 Kg/Hr on 7x7 Classic Cut French Fries
Fabrication and Design	:	GMP complied fabrication and design with a surface finish of 0.8 RA
Refrigerant	:	Ammonia (R717)

The IQF tunnel freezer shall comply with food-grade safety and hygienic standards, supported by an EC Declaration of Conformity from the supplier. The equipment shall incorporate the following design features and facilities

**Construction & Materials:**

- All structural parts inside the tunnel shall be fabricated from stainless steel AISI 304.
- The enclosure shall be constructed of prefabricated sandwich-type PUF panels with heavy duty SS-304 inner and outer cladding and PUF insulation of suitable thickness. Thermal efficiency statistics and insulation U-values to be submitted.



- Doors shall be fitted with electrically heated seals, and multiple inspection/access hatches shall be provided along the enclosure for cleaning and process monitoring.
- The floor shall be well-insulated and covered with a welded stainless-steel sheet with high covered edges for hygienic sealing.
- Suitable number of main doors and hatch doors shall be provided for operator access and manual adjustments during production.
- Weld Finish - All internal welds must be continuous, ground smooth ( $Ra \leq 0.8 \mu m$ ) and free from pits, crevices, dead zones, or porosity.
- No hollow bodies, crevices, exposed for microbe harbourage
- Belts must be food grade, non-absorbent, freezer compatible, and designed for easy removal and sanitation
- All monitoring devices to be Food Processing Grade, Calibrated with certificates, Accessible
- As long as possible metal detectable/ tamper proof fasteners
- Safety guards on all moving parts

**Airflow & Freezing Principle:**

- Freezing with air by lifting the product in air flow and fluidization principle to avoid any lump formation. The fluidization/product lifting in air should be achieved with air & belt movement.
- The freezer shall be equipped with centrifugal-type cooling fans of stainless-steel construction (SS-304). The Fans shall be suitable for low-noise operation
- Automatic air control arrangements shall regulate the airflow to match different product sizes and freezing requirements, without compromising evaporator performance.
- In addition, a manual airflow adjustment system shall be provided to reduce bottom airflow, preventing overblowing of lightweight products.

**Evaporator & Defrosting:**

- The evaporator coil shall be constructed with SS-304 tubes and cooling fins, suitable for 22 bar working pressure and tested up to 32 bar pressure.
- The evaporator shall support both Hot Gas Defrost operations and LP Stream.
- A continuous snow/frost removal system shall be integrated, enabling extended operation (minimum one defrost per day) without affecting rated capacity.
- Airflow shall be vertically directed from evaporator to blower to improve frost removal efficiency.



- Evaporator(s) shall be manufactured by SS tubes and reinforced with fins.
- **The bidder shall be providing control program for hot gas defrost.** The bidder shall show the performance of effective working of hot gas defrosting programme to the fullest satisfaction of the purchaser.
- The system shall minimize frost/ice buildup on evaporators, belts, rails, shafts, or wheels, thereby avoiding frequent stops during production and ensuring longer runtime and stable operation.
- **If one coil is in defrost mode, the balance coils shall be capable of handling the entire cooling/freezing load**

**Hygiene & Accessibility:**

- The IQF tunnel shall have an open and hygienic design, providing easy access to all internal parts without dismantling major components, meeting QC requirements prior to production start.
- Multiple large hatches and inspection doors shall provide good cleaning access and process visibility.
- Adequate internal lighting shall be installed.

**Floor:**

- Modular floor sections, consisting of polyurethane foam insulation, with pitched SS304 stainless, steel floor, fully welded enclosure made of polyurethane insulation with SS-304 plate flooring and inbuilt draining facility. The drain port of IQF to be connected to the nearest floor drain. Equipment slope as per EHEDG standards to ensure complete drainage

**Product Tracks / Belts:**

- The IQF tunnel shall be equipped with two independent, controlled product tracks made SS link chain conveyor with SS sprockets
- The first track shall allow adjustable continuous acceleration/retardation to ensure product separation and minimize lump formation at tunnel entry.
- Air guides shall be installed on the first track to optimize airflow for products of different sizes and weights, ensuring faster crust freezing.
- Track rinsing and washing systems shall be provided for hygienic operation.
- The bidder shall supply frequency inverters for fan motors as required for this application.
- The product track and side walls should be free from any crevices/obstructions to avoid accumulation of product & particles



**Controls & Automation:**

- The freezer shall be supplied with a stainless-steel PLC-based control panel with Human Machine Interface (15” HMI) with double door enclosure.
- Emergency Stop Stations located at accessible points.
- The PLC shall support:
  - Storage of multiple process settings.
  - Audio and visual alarms for operational safety.
  - Manual/automatic control of airflow and fluidization frequency.
  - Data loggers and SCADA compatibility for real-time monitoring, recording, and historical trending of temperature, belt speed, and airflow.

**Integration to Upstream and Downstream System:**

- IQF shall be integrated to Upstream & downstream equipment

**Space Constraint:**

As there is space constraint we suggest not crossing below dimension.

- Combined Length of precooler and freezer preferably less than 20 Mtr

*Quantity:* 1 EA

**1.2. CIP (Cleaning in Place) System (optional):**

- The unit shall be provided with automatic CIP arrangement, including:
  - Belt rinse with belt blower.
  - Foaming-based CIP system for the production zone, consisting of foaming generator, manifold, software, piping, and spray nozzles for belt, drum, rails, and coils.
  - CIP nozzles and piping connected to the external foaming generator.
- Track rinsing and re-circulating spray system shall include a trough with recirculating pump for cleaning drum, rails, and evaporators.
- CIP system must ensure validated spray coverage to eliminate dead zones.
- The system shall support complete and verifiable cleaning between product changeovers to limit cross-contamination

*Quantity:* 1 EA

Note : The inclusion of this item is subject to confirmation during the detailed process review and may be excluded from the final scope. The cost of this item is excluded from tender estimate

**1.3. Infeed Shaker (optional):**

- The primary function of the infeed shaker is to equally spread product inside IQF.
- The infeed shaker should include two stainless steel (SS-304) bar screens (one working + one standby). The spacing of these bar screens shall be suitable to screen the fines.

*Quantity:* 1 EA

Note : The inclusion of this item is subject to confirmation during the detailed process review and may be excluded from the final scope.

**1.4. Spare for 2-year operation:**

The Bidder shall supply all necessary spare parts required to ensure two years of continuous and reliable operation.

*Quantity:* 1 EA

Note : The inclusion of this item is subject to confirmation during the detailed process review and may be excluded from the final scope.

**1.5. ITC, acceptance, Training & Service Cover:****1.5.1. Installation, Testing, Commissioning, acceptance & Training:****Design Qualification (DQ)**

Design qualification (DQ) for the complete system with all its components, is to be prepared by bidder and submitted to purchaser for approval. DQ document should comprise of Detailed Design Calculations, Equipment GA drawing, instrumentation details and detailed P&ID etc. Design code for all fabricated items needs to be mentioned in the documents as per applicable standards.

Quality Assurance Plan (QAP) which includes material inspection, testing, Fabrication shall be submitted to purchaser for approval

**Installation Qualification (IQ)**

Installation Qualification shall include the following activities:

- Preparation of IQ protocol (which includes correct component selection, installation as per OEM, connection of all connected utilities, use of approved skilled manpower, approved quality consumables, compliance to BEP and statutory requirements) shall be done by Bidder and submitted for approval.
- After completion of installation, the successful Bidder shall check /verify whether installation of each and every component of the plant is as per approved layout, P& ID drawings and as per order specifications.
- The scope also includes the successful Bidder shall tag mark / neatly type lettering Name of equipment, capacity, direction flow, etc on major component, piping.

**Operational Qualification (OQ)**

The successful Bidder shall submit OQ & PQ documents, after approval of DQ & IQ documents, as per approved protocol.

OQ document should log/ record data during initial operations for the following:

- Duty/ capacity range (with Max & min)
- Operating conditions (ambient /room condition)
- Inlet & outlet product flow conditions.
- Safety checks



### **Performance Qualification (PQ)**

After the system has been stabilized, the successful bidder shall measure / record actual performance parameters for all equipment, as indicated in the OQ. PQ should conform to the intended system performance as per order/ design (with necessary calculations if any). The test readings in general shall be taken by the supplier in the presence of client & purchaser representative.

All report formats (protocol) and acceptance criteria should be approved by purchaser & client adequately in advance of starting test. All instruments should be calibrated and certificate copy should be attached with reports.

**FAT and SAT reports:** The FAT protocol must specifically mandate material verification, weld inspection, control logic validation, and functional testing of conveyors, fans, and refrigeration controls, while the SAT protocol must encompass the validation of safety interlocks, noise and vibration levels, and product temperature uniformity and performance.

### **PROJECT MANAGEMENT**

#### **Time Schedule**

The project execution shall be time-bound as per the mutually agreed time schedule which would not exceed date mentioned in 'DELIVERY & TIMELINE'

The Project Manager will provide the Purchaser's Project in charge with monthly progress reports which clearly indicate the actual Vs. planned progress and the new likely completion dates of supply, erection, commissioning and performance trials.

The project staffing pattern shall be submitted with the offer and should include sufficient personnel to meet the execution time schedule.

#### **Management Team**

A competent execution team shall be deputed at site and shall be headed by a Project Manager who shall be adequately experienced in Project Management of such magnitude and type. The Project Manager shall avail of assistance from reputed experts in various fields who shall be directly responsible for satisfactory execution.



The Project Manager shall be responsible for overall implementation of the entire project, from commencement to the final takeover of the plant. Services of a Project Engineer shall be ensured for the day to day operations and co-ordination to ensure successful and satisfactory design, procurement, manufacture, inspection, erection, testing & commissioning of all the equipment/ facilities/ systems within the time-bound schedule.

The Project Manager and Project Engineer shall attend all technical and review meetings between various parties involved in the project and ensure implementation of all decisions taken in the meetings.

The Project Manager shall be responsible for detailed material accounting at site and management of the store maintained at site.

The Purchaser shall nominate a Project In-charge with whom the bidder shall generally communicate/co-ordinate.

The bidder has to fully authorize the Project Manager to take on-the-spot decision with regard to :

- Modification in layout and execution plan to suit local conditions.
- To purchase essential materials from local market to avoid delays.

For smooth execution of the project, a team of Project Manager and Key Personnel shall remain consistent throughout the execution period.

After satisfactory erection and testing, competent commissioning team shall be deputed to establish the performance parameters for a specific period.

### **Approvals**

Bidder shall submit the technical documents and drawings within agreed time schedule. Approval on technical documentation (with or without specified amendments) shall be taken by Purchaser after submission. The amendments which are not in the original scope of work or due to changes in concept, shall be taken up by the bidder as per mutually agreed rates to be decided before execution, and shall be binding on the bidder.

Bidder shall obtain approval for purchase of specific makes of equipment whose makes are not mentioned in his offer. All the detailed design



calculations regarding the selection of equipment sizes, System types, etc. shall be submitted to Purchaser for their specific observation and record.

**Inspection**

The Bidder shall submit the Inspection and Test Plan for complete system for Purchaser's approval. The purpose of this document is to provide guidelines and agreement on the Quality Control activities and inspection clearances of fabricated equipment, materials and bought out equipment being supplied by bidder.

The bidder shall invite Purchaser for inspection and preliminary testing as per approved Inspection and Test Plan. The inspection may be required at various stages of manufacture/assembly for some items. However, for imported items where the inspection has to be done abroad, the bidder shall do the inspection at his cost and submit the necessary test certificate.

**Installation:**

It includes supervision for shifting, positioning, installation, interconnecting pipework of Equipments on foundation covering both mechanical and electrical, according to the agreed layout by the bidders qualified representative.

**Start-up assistance, Testing, Commissioning, acceptance & Training:**

The scope of this service includes the testing, commissioning, acceptance and running product trials to confirm performance parameters, with the project goal set to commence product trials and service load trials.

**Training**

Training shall be undertaken by the bidder. The bidder would train all levels of staff of the client in operating the plant including managers, engineers, supervisors, operators and maintenance personnel.

Training would be given both at site and the manufacturer's works and a schedule should be proposed by the bidder, together with the content of training programme, their duration and venue.

Training should commence during the erection and commissioning period as follows:



- During erection  
Exposure to the working and construction of the various equipment comprising the various systems of the plant, including instrumentation and controls.
- During commissioning  
Exposure to and training on the operations and maintenance of the various equipment in the plant including the testing, calibration setting of instruments both local and panel mounted.

Familiarization with start up procedures, management operations, basic principles of controls, control during operation and adjustments, fault finding and including operation and maintenance on control system and maintenance of the plant

Training on safety aspects, service and machine guidelines, operator trouble shooting guidelines for operation and maintenance staff

#### 1.5.2. **Service Cover: (4 Visits per annum)**

The Bidder representatives (technical and skilled engineer) shall attend the project for continuous five working days in each quarter throughout one year after commissioning, product trial and acceptance of the plant. These visits shall cover meetings, training, equipment adjustment, & servicing. These visits shall not cover guarantee work, which shall be undertaken separately.

The objectives of service covers are intended to ensure that the efficiency of the plant is maintained at the optimum level and

- To help improve operating and maintenance procedures.
- To keep the plant adjusted for optimum energy efficiency, product quality and minimum product losses.
- To arrange for service visits by specialists to inspect, service and carry out reports.
- To carry-out and audit of plant operating efficiency at regular intervals.

Note :

- The no. of skilled technical engineer deployed shall be decided by the bidder, and all expenses during visit shall be borne by bidder.
- The inclusion of this item is subject to confirmation during the detailed process review and may be excluded from the final scope.



- The cost of this item is excluded from tender estimate.

**1.5.3. Non-Comprehensive AMC (minimum 4 Visits per annum & unlimited breakdown after warranty period) for 2 year (optional):**

The Bidder representatives (technical and skilled engineer) shall attend the project for continuous five working days in each quarter throughout two year after warranty period. These visits shall cover meetings, training, equipment adjustment, & servicing. These visits shall not cover guarantee work, which shall be undertaken separately.

The objectives of these visits are intended to ensure that the efficiency of the plant is maintained at the optimum level and

- To help improve operating and maintenance procedures.
- To keep the plant adjusted for optimum energy efficiency, product quality and minimum product losses.
- To arrange for service visits by specialists to inspect, service and carry out reports.
- To carry-out and audit of plant operating efficiency at regular intervals.
- In case of any breakdown except above mentioned 4 visits, bidder to plan visit on emergency basis upon intimation from purchaser during the whole AMC period

Note :

- The no. of skilled technical engineer deployed shall be decided by the bidder, and all expenses during visit shall be borne by bidder.
- The inclusion of this item is subject to confirmation during the detailed process review and may be excluded from the final scope.
- The cost of this item is excluded from tender estimate.

**1.5.4. Comprehensive AMC (minimum 4 Visits per annum & unlimited breakdown after warranty period) for 2 year (optional):**

The Bidder representatives (technical and skilled engineer) shall attend the project for continuous five working days in each quarter throughout two year after warranty period. These visits shall cover meetings, training, equipment adjustment, & servicing. These visits shall not cover guarantee work, which shall be undertaken separately.



The objectives of these visits are intended to ensure that the efficiency of the plant is maintained at the optimum level and

- To help improve operating and maintenance procedures.
- To keep the plant adjusted for optimum energy efficiency, product quality and minimum product losses.
- To arrange for service visits by specialists to inspect, service and carry out reports.
- To carry-out and audit of plant operating efficiency at regular intervals.
- In case of any breakdown except above mentioned 4 visits, bidder to plan visit on emergency basis upon intimation from purchaser during the whole AMC period
- Any Parts required for preventive maintenance and in breakdown is in scope of bidder, and no additional charges to be payable for visit charges in case of part replacement.

Note :

- The no. of skilled technical engineer deployed shall be decided by the bidder, and all expenses including parts during visit shall be borne by bidder.
- The inclusion of this item is subject to confirmation during the detailed process review and may be excluded from the final scope.
- The cost of this item is excluded from tender estimate.

**APPROVED MAKES**

The table below specifies the preferred approved makes of major equipment/ accessories. Where more than one makes are considered for an item OR no make is mentioned in the bid/order, bidder shall obtain prior written approval of Purchaser before commencing the manufacturing/placing an order on bidder as the case may be. However, as regards to the ultimate makes to be supplied to these projects, makes shall be finalized in consultation with the purchaser.

<b>Technical Details Serial No.</b>	<b>Material Description</b>	<b>Preferred Make</b>
1.1.	Individual Quick Freezer (IQF) Fluidized-Bed System	Reputed OEM
1.2.	CIP (Cleaning in Place) System	Equipment OEM-Approved Make
1.3.	Infeed Shaker	Equipment OEM-Approved Make
1.4.	Spare for 2-year operation	Equipment OEM-Approved Make
Sub-components of above's -	ELECTRIC MOTORS	BHARAT BIJLEE / SIEMENS / ABB / KIRLOSKAR / CG / WEG
	Cold store/deep freeze Door/ (Slide/hinge/hatch/Overhead)	METAFLEX / MTH / GHANDI AUTOMATION / IQF OEM-Approved Makes
	Pre-fabricated insulating panels	BEARDSSELL / RINAC / JINDAL / IQF OEM-Approved Makes
	EPS/PUF slab insulation material	BEARDSSELL / RINAC / JINDAL / IQF OEM-Approved Makes
	Instruments	DANFOSS / ALCO / HANSEN / PARKER / E & H / EMERSON / ENDERSON NEGELE / IFM
	STRUCTURAL STEEL	TATA, SAIL, JINDAL, RINL, IISCO
	<b>Electrical Control Equipment</b>	
	Panel Manufacturer	CPRI Approved
	VFD	SIEMENS / ALLEN BRADLEY / DANFOSS / SCHNEIDER / LK (Formerly L&T) / ABB
	ELECTRONIC SOFT STARTER	DANFOSS / SIEMENS / ALLEN BRADLEY / ABB / SCHNEIDER / LK (Formerly L&T)
	CURRENT TRANSFORMER	KAPPA / AE / NEWTEK / L&T / PRECISE / RISHABH / ELMEX / Siemens / Schneider
POTENTIAL TRANSFORMER	KAPPA / AE / NEWTEK / L&T / PRECISE / RISHABH / ELMEX	



INTELLIGENT MOTOR PROTECTION RELAY	SIEMENS / ABB / SCHNEIDER
ACB, MCCB, MPCB, Contactors, MCB	LK (Formerly L&T) / SIEMENS / SCHNEIDER / ABB
HRC FUSES	LK (Formerly L&T)/ SIEMENS / EE / GE/C&S/EATON BUSSMAN
INDICATING LAMPS	LK (Formerly L&T) / SIEMENS / SCHNEIDER / VAISHNO / TEKNIC / ABB / C&S
SWITCH DIS- CONNECTER FUSE UNITS	L&T / SIEMENS / ABB / SCHNEIDER / C&S
PUSH BUTTONS	ESBEE / SIEMENS / ABB / VAISHNO / TEKNIC / LK (Formerly L&T) / SCHNEIDER/ C&S
UPS	EMERSON/HI-REL/DELECTRONICS/ SOCOMEC / NUMERIC/ REILO/ SCHNEIDER / VERTIV / TBC
SMF BATTERY	AMCO / EXIDE / AMARA RAJA / TBC
HMI	Siemens / Schneider / ABB
PLC / DCS SYSTEM	SIEMENS / ALLEN BRADLEY
LT XLPE POWER CABLES, Control Cable	KEC (RPG) / FINOLEX / RR KABEL / POLYCAB/ SBEE /UNIVERSAL / APAR
Steel braided Power & Control Cable	LAPP/SBEE/RR
SIGNAL & INSTRUMENT CABLE	LAPP KABEL / FINOLEX / POLYCAB / RR KABEL / ERMOPAD/SBEE
CABLE GLANDS	COMET / DOWELS / LAPP KABEL / BRAVO
CABLE LUGS	DOWELS / COMET / LAPP KABEL
CABLE TRAY	INDIANA / MEK / PILCO / ELCON / METALICA PRESSINGS / POWER CONTROLS / ABB / SIL TEC
IP 55 BOXES FOR MOTOR ISOLATORS, PUSH BUTTONS, JUNCTION BOXES ETC.	HENSEL / RITTAL / R STAHL/ PCE / MENNEKES/ HANSU / Siemens / Hubbell
TERMINAL BLOCKS	WAGO / LAPP INDIA / CONNECT WELL / ELMEX / PHOENIX

Note: While execution, choice of make would be made from the preferred list. Makes and model shall be approved by the purchaser expeditiously.

**E. DETAILS NEED TO BE FURNISH BY BIDDER**

Blank Details mentioned below shall be filled by Bidder while bidding:

Sr. No	Description	Pre-Cooler	Freezer	UOM
<b>Product Details</b>				
1	Product Description			
2	Product Size & Density			
3	Product Inlet Temperature			
4	Product Outlet Temperature			
5	Cooling/Freezing Time			
6	Product Inlet Quantity			
7	Product Outlet Quantity			
8	Moisture Inlet Content			
9	Moisture Outlet Content			
10	Oil Content Inlet			
11	Oil Content Outlet			
<b>Utility Consumption Details</b>				
12	Refrigerant Description			
13	Refrigerant Evaporation Temperature			
14	Refrigeration Load			
15	Steam Quantity & Pressure			
16	Power			
17	Compressed Air Quantity & Pressure			
18	Raw Water			
19	Filter Water			
20	Soft Water			
21	RO Water			
22	Cooling Water			
23	Chilled Water			
24	Hot Water			
<b>Process Parameters Details</b>				
25	Equipment Type / Model			
26	Equipment OEM / Make			
27	Equipment Design Code			
Equipment Detail				
28	Equipment Wall Type			
29	Equipment Ceiling Type			
30	Equipment Floor Type			
31	Enclosure Insulation Material			



32	Enclosure Insulation thickness			
33	Enclosure Insulation density			
34	Enclosure Inner Cladding Material			
35	Enclosure Inner Cladding Thickness			
36	Enclosure Outer Cladding Material			
37	Enclosure Outer Cladding Thickness			
38	Enclosure Thermal Efficiency & U-value			
39	Enclosure Door & Hatches Quantity			
40	Enclosure Door's Heating Element Quantity			
41	Floor Insulation Material			
42	Floor Insulation thickness			
43	Floor Insulation density			
44	Floor Base Material			
45	Floor Base Thickness			
46	Floor Heating Element			
47	Floor Slope & Drain Design			
48	Floor Mounting Type			
50	Internal Fabrication Material			
51	Fabrication Weld Roughness ( $\leq 0.8 \mu\text{m}$ )			
52	Centrifugal Fan Quantity			
53	Centrifugal Fan Power			
54	Centrifugal Fan Blade Material			
55	Centrifugal Fan VFD Quantity			
56	Centrifugal Fan Noise Level			
57	Product Flip Arrangement			
58	Evaporator Coil Type (Horizontal / Vertical)			
59	Evaporator Coil Material			
60	Evaporator Coil Thickness			
61	Evaporator Coil Working Pressure			
62	Evaporator Coil Testing Pressure			
63	Evaporator Coil Fin Material			
64	Evaporator Coil Fin Thickness			
65	Evaporator Coil Fin Spacing			
66	Evaporator Heat Transfer Area			
67	Evaporator Defrosting Method			
68	Evaporator Defrosting Media			
69	Evaporator Defrosting Program			
70	Belt Type			



71	Belt Material			
72	Belt Width			
73	Belt Area			
74	Belt Drive Mechanism			
75	Belt Drive Motor Power			
76	Belt Drive VFD			
77	Infeed heights			
78	Discharge heights			
79	Track rinsing and washing system			
80	CIP System Type			
81	CIP Tank Material			
82	CIP Tank Sensor Model			
83	CIP Valves Type			
84	CIP Piping Material			
85	CIP Supply Pump Model/Size/Motor Power			
86	CIP Return Pump Model/Size/Motor Power			
87	Infeed Shaker Type/Model			
88	Infeed Shaker Screen Material			
89	Infeed Shaker Screen Quantity			
90	Infeed Shaker Screen Spacing			
91	Control Panel Material			
92	Control Panel PLC Model			
93	Control Panel HMI Size			
94	Control Panel HMI Model			
95	Equipment Total Length			
96	Equipment Total Width			
97	Equipment Total Height			
98	Equipment Weight			
99	Equipment Foundation Details			

**F. BATTERY LIMIT**

<b>Description</b>	<b>Purchaser's Scope</b>	<b>Bidder's Scope</b>
Civil works	Necessary foundations/floor for equipment based on the details provided by the bidder	Supply of necessary foundation bolts, nuts along with the template/sub base, and all other associated erection materials
Installation	Unloading, shifting, positioning, installation, interconnecting pipework of Equipments on foundation covering both mechanical and electrical	Supervision by qualified representative during installation.
Utilities & Piping	Refrigerant, Compressed Air, Raw/Soft/RO water	Interconnecting piping/ chute/platforms/frames/ supports/stacks/rails etc. of the supplied machinery. <i>Valves/instruments for Interconnection at side of Machine.</i>
Drain lines	From Process Machines to Drain Points.	For Interconnection by Purchaser, all the required Drawing/Details shall be furnished by bidder
Permanent Power Supply	Purchaser Scope	-
Consumables	-	Necessary consumables such as oils, lubricants, required for trial runs and commissioning.

**G. PACKING**

Bidder shall pack all the consignment in road worthy packaging strong enough to withstand rough handling during transit. Machine surface shall be suitably protected against scratches, corrosion, shocks, impact etc. Packages shall be suitably and distinctly identified for type of handling and kind of storage. The bidder shall take into consideration the 6-months' storage time, possibly in outdoor conditions, prior to final installation of the equipment. All Machines shall be fitted with engraved name plate containing pertinent details such as make, model, capacity, PO Ref, Tag No

**H. PERFORMANCE TESTS AND GUARANTEES****Performance test:**

The bidder is required to detail the documentation proposed for performance test of all major equipment. This shall detail the guaranteed v/s actual throughput or output or performance (as relevant) and the tolerance of accuracy. Also, the test methods proposed to demonstrates that these guarantees have been met:

**Formats of Guarantees:**

- Guarantees for throughput of various sections of plant
- Consumption and losses
- Service consumption

**Formats for performance tests:**

- Procedure for carrying out the tests
- Method of measurement
- Test durations
- Evaluation methodology

**PERFORMANCE PARAMETERS AND TEST PROCEDURE****General test procedure**

Upon completion of commissioning, performance trials shall be conducted to establish the guaranteed performance. These trials shall be carried out for 15 days of continuous operation along with the main process plant. During the performance trial period, the successful bidder shall depute competent engineers for the full 15 days to continuously monitor system performance and carry out necessary corrective actions to ensure the system operates at the guaranteed efficiencies.



Performance trials shall be conducted for the following:

- Capacity
- Efficiency
- Heat losses
- Individual equipment performance

If shutdown occurs due to external Force Majeure reasons after 16 hrs of operation in any day, this shall be considered as a full day testing. If at less than 16 hrs of operation, the trials shall be continued for an additional full day.

**Guarantee / Warranty**

12 months from the date of successful commissioning, product trial & acceptance of the plant

**I. DELIVERY & TIMELINE**

For the complete plant (design, manufacturing, supply, installation, testing, and commissioning, acceptance), the project goal is to commence product trials and service load trials within 9 months from the date of the Letter of Intent (LOI)/Purchase Order (PO) whichever is earlier.

7165

7000

7000

7000

7000

7000

7000

7000

7000

MS STAIR

UP

2000

1485

1500

1990

10 MTR CLEAR HEIGHT

± 000\_PLINTH LVL . = 27.55 M PLINTH RL

FROZEN FRENCH FRIES  
PACKING SECTION  
28000 X 19421

10 MTR CLEAR HEIGHT

± 000\_PLINTH LVL . = 27.55 M PLINTH RL

IQF

20581

19421

