



**IDMC**  
L I M I T E D

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**Invitation to bid for Design, supply,  
installation, testing and commissioning  
of PP sheet extrusion machine**

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## 1. Invitation for Bid

**Enquiry Reference no.:** IDMC/ Sourcing & VD/ 2025-26/ Enquiry/ 258 dated 17.06.2025

IDMC Limited invites sealed bids from original equipment manufacturers (OEMs) for the Design, supply, installation, testing and commissioning of PP sheet extrusion machine as per details given below:

Description of Tender	Invitation to bid for Design, supply, installation, testing and commissioning of PP sheet extrusion machine
Qty	01 No.
Estimated Cost	INR 2,85,30,000.00 EURO 2,85,728.00
Completion period	6 (Six) months from the date of purchase order/LOI.
Earnest Money Deposit (EMD)	Not applicable
Mode of Tender	a) The bid document will be available on the website at <a href="https://www.ncdfiemarket.com/index.php/auctions-2/#tab-44753">https://www.ncdfiemarket.com/index.php/auctions-2/#tab-44753</a> and can be downloaded and used as tender document for uploading the offer. b) The interested vendors are required to send an email at <a href="mailto:etenders@ncdfiemarket.com">etenders@ncdfiemarket.com</a> by providing the following detail/information prior to 2 days before the bid end date: Name of the organization: Name of the contact person: Contact No: E-Mail: Status of Registration with NCDFI (Yes/No):  Registration/bidding guidance will be provided by NCDFI team to interested bidders
Query/support related to submission of bid in portal	Ms. Janvi Patel +91 99786 03225 Mr. Parth Parikh +91 70435 31188
Warranty Period	24 months from the date of successful commissioning
Date of uploading of enquiry on NCDFI eMarket portal	23/06/2025
Last date, time and place for receipt of bids/ offers	14/07/2025 (Up to 1700 hrs IST)
Bid submission currency	EURO / INR

- 1.1. **The bid document** can be downloaded by registration from the link:  
<https://www.ncdfiemarket.com/index.php/auctions-2/#tab-44753>

1.2. **Enquiry document:**

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

1.3. **Place and venue of pre-bid meeting:**

No pre bid meeting since there is a provision for obtaining clarifications by email (See clause 2.5 in instructions to bidders).

**1.4. Opening of offers:**

Bids will be opened by IDMC, and the bidder 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 does not bind itself to accept the lowest bid. IDMC Limited at its sole discretion & 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. It is deemed that the bidder agrees to this clause and shall not raise any issues in this regard.

## 2. Instructions to bidders

(a)	Tender/Event Ref. No.:	IDMC/ Sourcing & VD/ 2025-26/ Enquiry/ 258 dated 17.06.2025
(b)	Transaction Fee Payment of transaction fee by NEFT/ RTGS in favor of IDMC Limited (refer clause No.-4 of Annexure-A)	Not Applicable
(c)	Incidental charges (in land) in case documents are to be sent by courier/post	Not Applicable
(d)	Event Start Date	23.06.2025
(e)	Event Close Date & time	14.07.2025, 17.00 Hours
(f)	Last Date and time for bid	14.07.2025, 17.00 Hours
(g)	Time and date of opening of bids  Part I – Techno-commercial bid  Part II – Price bid	14.07.2025, 17.01 Hours  May be communicated later to responsive /technically qualified bidders who have accepted all techno commercial terms and conditions
(h)	Place of opening of bids	Online at web portal
(i)	Address for communication	Deputy Manager (Sourcing & VD) tender committee 124-128 GIDC Estate Vithal Udyognagar- 388121 Dist.- Anand (Gujarat) Tel: 02692 -220521 /236 375/ 220490. Email: tenders@idmc.com
(j)	Time of completion	: 6 (Six) Months for overall completion (from the date of notification of award of Contract (LOI)/ Purchase Order)
(k)	Amount of EMD	NA
(l)	Date and time for receipt of EMD. The EMD in original to be submitted to communication address as stated above in clause (i)	NA
(m)	Price Basis	DAP, IDMC Limited Narela Delhi
(n)	Packing & forwarding	In Supplier scope
(o)	Freight	In Supplier scope up to IDMC Limited Narela Delhi
(p)	Transit Insurance	In Supplier scope up to IDMC Limited Narela Delhi
(q)	All applicable duties & Taxes (Except GST)	In Supplier scope

**2.1. Eligible bidders:**

This invitation for bids is restricted to original equipment manufacturers (OEMs) of **European and Indian** only.

**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 supply, installation, 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).

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 initialed by the person(s) signing the offer. No overwriting

shall be permitted.

**2.5. Clarification of bidding documents:**

For any query, the bidder should send only an email to tenders@idmc.com. This window will open to 1700 hrs on 30/06/2025. The Purchaser will provide clarification to the query on priority but not later than at 1700 hrs on 03/07/2025 depending on the nature of the query.

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

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

2.6.2. Only one offer/bid may be submitted on or before the day and date as mentioned in the enquiry by each bidder. No vendor/ bidder shall be allowed to submit an offer in another name for the same enquiry.

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

The rates and prices shall be quoted by the bidder as below:

2.7.1. Bidders will quote entirely in one currency EURO / INR and price basis will be on DAP- IDMC Limited Narela Delhi only. All payments will be made in the currency in which the PO/contract will be awarded and will be only through an authorized bank, subject to forex and other regulations, including withholding taxes, if any, in force.

**2.8. The price schedule:**

Sr. No.	Description	Qty (in EA)
1	Design, supply, installation, testing and commissioning of PP sheet extrusion machine	1
2	Spare parts for 8500 hours for one machine (for 2 years) (excluding commissioning spares)	2
3	Service visits (4 visits in a year for 2 years) after handover of the machines	8

2.8.1. The bidder shall quote the price in figures and words clearly specifying the currency and payment terms. The said price shall be a comprehensive all-inclusive price for the design, 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 installation, testing, commissioning, or any other related activity.

**Note:** IDMC Limited shall provide local transportation and food/refreshment during work at Narela (Delhi) only, to facilitate officials of the successful bidder during the period of installation, testing and commissioning. Bidder to give a indicative period of stay including the number of their personnel.

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

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

2.9.2. If required, IDMC Limited may request the bidder for a specified extension in the period of



validity of the offer. A bidder may refuse the request. The bidder agreeing to the request shall not be permitted to modify his bid but shall be required to extend the validity of his bid. The provisions under this tender shall continue to apply during the extended period of bid validity for the period as agreed by the bidder.

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

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. Conditional bids are liable to be considered non-responsive.

**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 rate 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 corrected amount of bid his bid shall be rejected.

2.16.4. IDMC Limited reserves the right to accept or reject any variation, deviation, or alternative offers. Variations, deviations and alternative offers and other factors which are in excess of the requirement of the enquiry documents or otherwise result in the accrual of unsolicited benefits to IDMC Limited shall not be taken into account in offer evaluation.

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

IDMC Limited reserves the right to accept or reject any offer/ bid and to annul the bidding process and reject all offers/ bids, at any time prior to the award of the Contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) the grounds for IDMC Limited's action.

**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/ Supplier", 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 goods 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. The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched and additionally marked "modification" or "withdrawal" as appropriate. A withdrawal notice may also be sent by mail.

2.21.3. 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. 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/ Supplier 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 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/ Supplier.

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 and commissioning: 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 Supplier 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

Supplier 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 Supplier 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.

Any document, other than the Contract itself, enumerated in clause 3.7.1 shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so, required by the Purchaser.

### **3.7. Patent rights and royalties:**

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

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 supplier 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 supplier 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 supplier will mail the following documents to the purchaser with a copy to the Insurance Company:

Original and five copies of:

The Supplier'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/Supplier's warranty certificate;
- c. Inspection Certificate issued by the nominated inspection agency, and the Supplier's Factory inspection report;
- d. Certificate of origin;
- e. Any other document evidencing payment of statutory levies;
- f. The supplier'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 DAP, IDMC Limited, Narela, Delhi)**

- a. The “marine/transit” insurance to be taken by the supplier shall be in an amount equal to 110% of the FOR destination value of the goods from “warehouse to warehouse “on all risks basis including ITCA, ICCA, SRCC and war risk valid for a period not less than three months after the date of arrival of goods at final destination.
- b. For Installation and commissioning job, storage- cum – installation all risk insurance policy for an amount equal to contract value inclusive of 10% escalation valid for period not less than three months after installation, including three months for testing and commissioning shall be obtained by the supplier as per governing rules and regulations of Indian government.
- c. Third party insurance – Before commissioning the installation work the supplier without limiting his obligations and responsibilities, shall insure against his liability for any material or physical damage, loss or injury which may occur to any property including that of the Owner/IDMC, or to any person including any employee of the Owner/IDMC. Such Insurance shall be for an amount not less than 10% of the contract value.

### **3.12. Transportation:**

3.12.1. In case of Indian bidders, transportation of the Goods up to the site including its insurance till delivery at the site shall be the responsibility of the Bidder and the cost thereof shall be included in the bid price.

3.12.2. Where the Supplier is required under the Contract to deliver the Goods Cost including freight, no further restriction shall be placed on the choice of the ocean carrier.

### **3.13. Incidental services:**

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

- a. Supervision of, unloading, stacking of goods at installation place and surveying;
- b. Furnishing of tools required for assembly and/or maintenance of the supplied goods;
- 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.
- 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 Supplier of any warranty obligations under this Contract; and
- e. Conduct 15 working days onsite /offsite training as per the requirement of the purchaser.

### **3.14. Spare parts: - Applicable as per clause no. 8.0 of technical specifications**



### **3.15. Warranty:**

3.15.1. The Supplier warrants that the Goods and equipment, supplied, installed, and commissioned under the Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that the Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except insofar as the design or material is required by the Purchaser's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions obtaining in the country of final destination. The Supplier also guarantees that the Goods supplied shall perform satisfactorily as per the signed/rated/-installed capacity as provided for in the Contract.

The warranty period is 24 months after the date of successful commissioning acceptance, and completion certificate duly signed by both parties or handover of the machine or 30 months from the date of dispatch whichever occurs first. The automation systems, instruments, and controls will be guaranteed against system malfunction for a period of 24 months from the date of commissioning. Bidder to inform the terms and conditions for extended warranty for 1 year + 2 year after completion of warranty period.

3.15.2. The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.

3.15.3. Upon receipt of such notice, the Supplier 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.

3.15.4. If the Supplier, having been notified, fails to remedy the defect(s) within a reasonable period mentioned in clause no 3.16.4, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

### **3.16. Payment:**

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 machine to IDMC premises (Narela, Delhi) in acceptable condition.

3.16.2. 70% payable shall be payable in 60 days from the date of safe receipt of the machine at IDMC premises in acceptable condition.

3.16.3. The balance 10% shall be payable within 30 days after successful commissioning and performance trial of the machine at site, 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 24 months from the date of successful commissioning.

Note:

1. All bank charges within India to the Buyer account and outside India to the beneficiary/ Vendor account.

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

3.16.4. The Supplier'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.

3.16.5. All payments under this contract shall be made in the currency 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 Supplier 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 Supplier.

3.17.2. If any such change causes a substantial increase or decrease in the cost of, or the time required for, the Supplier'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 Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier'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 Supplier 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 Supplier 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 10% 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 Supplier shall be to the Supplier's account.

**3.21. Termination for default:**

The contract can be terminated on the following grounds:

**3.21.1. Suppliers default:**

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

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 Supplier 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 Supplier.

### **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 Supplier 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 Supplier may be entitled.

### **3.22. Force majeure:**

3.22.1. Notwithstanding the provisions of Clauses 3.21, 3.22, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's 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 Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

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

### **3.23. Inspection of goods during manufacturing at supplier 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 5.3 of 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 machine hand over for the commercial production after successful commissioning and performance trial of the machine and fulfilment of other obligations stipulated in the contract.

**3.26. Resolution of disputes:**

3.26.1. The Purchaser and the Supplier 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 Supplier 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 DAP (Delivered at Place) basis till Destination IDMC Limited, Narela, Delhi. 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, supply, installation, testing and commissioning of PP sheet extrusion machine is a period of 6 (Six) months from the issue of the purchase order to successful commissioning and handover to purchaser. The bidder may however specify the completion period he would require for the activity. The final timelines will be detailed at the time of the contract. The contract may also include a levy of liquidated damages with a denial clause for any delay charges based on mutual agreement between the Purchaser and the successful bidder.

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

The bidder shall furnish a standard GA drawing of the machine along with the bid.

The successful bidder will have to sign a non-disclosure agreement (As per IDMC format) for non-disclosure of IDMC's technical specifications with other clients.

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

The successful bidder has to follow all the safety requirements during the 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 supplier during erection and commissioning period.

### **4.7. Supervision of installation, start up, commissioning and trial runs:**

Under this contract Supplier/Bidder is required to provide services for the supervision of Installation, start up and putting into commission and the conditions outlined in this clause shall also apply.

The installation of the plant and equipment supplied under this contract will be carried out by a separate agency to be appointed by the purchaser. The Supplier/Bidder shall be responsible for the supervision of the work from the commencement of the installation up to the demonstration of the performance guarantees of the plant and equipment supplied under the contract. The responsibility of the Supplier/Bidder shall include but not be limited to the following:

Ensuring the correctness of material and equipment dispatched in the order in which they will be required for installation.

To be present at the time of unloading of equipment from trucks/trailers/containers at purchaser premises, opening of crates and packing cases, inspection, checking of equipment/materials with respect to packing lists, putting on site location, as well as placement of equipment on site, pulling and connecting electric cables etc..

The supplier shall perform independently for the wiring of the specified equipment by their own service technicians.

Repairing and replacement of equipment/materials damaged or lost in transit or at site and processing of insurance claims for damage/lost equipment/materials.

Ensuring correctness of installation of plant and equipment.

Ensuring that adequate quantities of the correct commissioning spares and supplies are at site for the purpose of start-up.

Supervision of start-up and performance tests to meet the specified performance guarantees.

Advising on any matter pertaining to the installation and start up on request by the purchaser.

In order to carry out his responsibilities under this section, the Supplier/Bidder shall send the number of experienced personnel to be available at the site as established in the contract. The period of such availability and the details of the experience and qualification of the resident staff the Supplier/Bidder will be required to maintain at the site shall be indicated in the tender by the Supplier/Bidder and finalized between the purchaser and the Supplier/Bidder before the award of the contract.

The Supplier/Bidder shall ensure that each individual of the Supplier/Bidder's personnel at site shall co-operate with personnel of the purchaser and all other Supplier/Bidders engaged in work in and/or around the job site. Failure to accomplish this co-operation shall be just cause for the removal of such individual and his replacement by suitable other personnel by the Supplier/Bidder at his expense forthwith upon request by the purchaser. In case of disagreement as to the cause for such removal and replacement, the decision of the purchaser shall be final.

On completion of the installation work and connecting up of the electrical power supply, water and utilities, as required, the Supplier/Bidder shall promptly notify the purchaser of the proposed date of the commencement of start-up operations. The duration of the start-up period shall be established in a schedule which shall be part of the contract. The purchaser will provide labor, power, fuel, utilities and supplies for operating the plant during the start-up period when the plant will be operated under the supervision of the Supplier/Bidder.

**Installation Guideline:** Supervise positioning of equipment, assemble the equipment, & trials of the equipment operation etc.

All the costs for travel to and from the site, lodging & boarding expenses and other costs of the bidder's representatives shall be inclusive in the Bid value.

#### **4.8. Rating:**

Rating of all items shall be appropriate for the conditions on the particular site on which the items will be used. All the equipment shall be fit for continuous work under the worst conditions of site and shall be rated for the following working conditions.

- Temperature range -5° C to 50° C
- Humid atmosphere maximum up to 90%

#### **4.9. Instruction Manual:**

The Supplier/Bidder shall prepare and produce instruction, operation and maintenance manuals in English for the use, operation and maintenance of the supplied equipment and installations, and submit 3 sets to PURCHASER, at the time of handing over. Soft copies of manuals and drawings also to be submitted.

#### **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 Anandalone 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, suppliers' 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 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.

## 5. Form of bid

**Enquiry Reference No.** : IDMC/ Sourcing & VD/ 2025-26/ Enquiry/ 258 dated 17.06.2025

**Name and address of Owner :** 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 \_\_\_\_\_ 2025.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
(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:

Signature and Seal of Bidder

Place:

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:

Signature and Seal of Bidder

Place:

Note :-

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

## 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. Notwithstanding anything stated herein before:
- (i) The Bank's liability under this guarantee is restricted to Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ only);
  - (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 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 \_\_\_\_\_."

IN WITNESS WHEREOF, the bank has signed on this \_\_\_\_\_ day of \_\_\_\_\_, 2024.

Signature of Bank Manager

### Bank Guarantee to secure advance

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. 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 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 \_\_\_\_\_."

IN WITNESS WHEREOF, the bank has signed on this\_\_\_\_\_day of\_\_\_\_\_, 2024.

Signature of Bank Manager

# THREE LAYERS PP/HIPS SHEET EXTRUSION MACHINE

Capacity: 1000 Kg/Hour

## **REVISION HISTORY**

Rev	Item Description	Create	Checked	Approved	Date
R0	Pouch filling machine double Head Mechanical Type				14.02.2025

## 1.0 GENERAL DATA

- a) Location : Narela, Delhi, India
- b) Operation : 3 shifts /day, 24 working hours/day
- c) Ambient Temperature : -5° to 50° C
- d) Electrical Supply : 3 Phase, 415 V  $\pm$  10%, 50Hz

## 2.0 FUNCTIONAL REQUIREMENTS

Polymers (including additives, grinded flakes) are fed from three different hoppers. These polymers (including additives, grinded flakes) are heated in cylindrical barrel and by rotating screw melted and homogenized polymer conveyed to sheet die. From die molten sheet passes on chilled roller and through calendaring unit sheet wound in reel form on winder unit

## 3.0 DESIGN REQUIREMENTS

Product	Three layers PP/HIPS sheet
Model	Supplier to confirm
Polymer	Polypropylene, HIPS
Output Capacity	Min.1000 Kgs/hr.
Working Width	700 mm (After trim)
Width tolerance	Supplier to confirm
Thickness range	0.3 to 2 mm
Thickness tolerance	Up to 0.4 mm thick sheet: $\pm$ 5% Above 0.5 mm thick sheet: $\pm$ 3%
Trim width	Supplier to confirm
Quantity required	1 No.
Polymer Feeding system	Gravimetric for main Extruder Volumetric for the other two Extruders
Rolls Dia	1200mm or 1000 Kgs
Winder air shaft dia	3"
Utilities consumption of machines should be minimum (OEM to check and confirm)	(i) Electrical: Electrical power connected: <b>Supplier to confirm</b> Electrical power during operation: <b>Supplier to confirm</b> (ii) <u>Compressed Air</u> : <b>Supplier to confirm</b> (iii) <u>Cooling Water</u> : Pressure- : <b>Supplier to confirm</b> Flow Rate (LPH) : <b>Supplier to confirm</b> Temp. : <b>Supplier to confirm</b>



## **4.0 SCOPE OF SUPPLY**

### **4.1 EXTRUDERS**

- For three-layer sheet, three extruders are required
- Layer ratio / layer distribution detail is required
- All extruder's screw dia and LD ratio's details to be furnished by bidder
- A magnetic separator in each hopper is required
- Each extruder's AC motor and drive's details to be furnished by bidder
- Melt pressure and temperature monitor in each extruder is required
- Screw extractor is required
- Each extruders' gear box detail is required

### **4.2 RESIN/POLYMER BLENDING SYSTEM FOR MAIN EXTRUDER**

- Gravimetric blending system is required
- Total four components
- Hopper must be with sight glass, shutoff valve and drain arrangement
- Magnetic separators are required in hopper to remove metallic dust/particles
- Batch size, component dosing % and bin size capacity to be defined by bidder
- Bidder must provide all details of vacuum conveying system including conveying length (appx 20 mtr), size etc.
- Raw material storage bin bins (500-liter capacity) – 05 nos. required

### **4.3 MAIN EXTRUDER**

- Main extruder's construction details are required
- Main extruder's drive detail to be furnished by bidder
- Variable frequency drive required
- Screw material, dia, and LD ratio's details are furnished by bidder
- Screw design is suitable to process virgin polymer with additives and grinded scrap
- Screw extractor tool is required
- A barrel cooling system is required
- Hopper is with sight glass, drain passage, shut off valve and magnet
- Heaters and heating load details are required
- Gear box make and technical details are required

### **4.4 SCREEN CHANGER ASSEMBLY**

- Hydraulic system for screen change assembly
- For each extruder's screen change assembly's details to be provided by bidder
- Mesh size details are required
- Details of each screen mesh require with number of screens for each layer.
- Details of heating load to be furnished by bidder

### **4.5 MELT PUMP FOR EACH EXTRUDER**

Melt pump is located in between extruder and die to distribute the material throughout width of die.

- Each extruder's melt pump technical details are required

- The following details are furnished by bidder
  - Melt pump volume
  - Heating load
  - Motor power
  - Pump RPM
- A pressure transducer is required to check the back pressure

#### **4.6 HOPPER LOADERS FOR TWO EXTRUDERS**

**A separate hopper loader is required for the other two extruders.** The following details are furnished by bidder

- Capacity of hopper loader
- Make and model detail

#### **4.7 VOLUMETRIC DOSING UNIT FOR TWO EXTRUDERS**

A separate volumetric dosing unit is required for the other two extruders. Dosing unit is synchronization with melt pump. The following details are furnished by bidder

- Capacity
- Make and model
- Dosing %

#### **4.8 OTHER TWO EXTRUDERS**

A separate two extruder is required for three-layer sheet production. These extruders are fitted with the main extruder. The following details are furnished by bidder

- Each extruder's drive load
- Variable frequency drive is required
- A.C Motor's make and model
- Each extruder's screw material, dia, length and LD ratio
- Screw extractor tool is required
- A barrel cooling system is required
- Hopper is with sight glass, drain passage, shut off valve and magnet
- Heaters and heating load details of each extruder is required
- Gearbox make and technical details are required
- 

#### **4.9 THREE LAYER FEED BLOCK**

Three-layer feed is located in between extruder and die to distribute the material throughout width of die. The following details are furnished by the bidder.

- Heating load
- Numbers of heating zones

#### **4.10 SHEET DIE**

Die is connected to feed block and mounted on trolley which is easily movable. The following details are furnished by bidder

- Die material
- Die width
- Effective width
- Lip gap
- Numbers of heating zones
- Heating load
- Width adjustment
- Thickness adjustment /control

#### **4.11 CALENDER UNIT**

The calendar unit is made of three rollers. These rollers are double wall construction with spiral flow channels for uniform roll temperature across the width. Cooling water is circulated through rotary unions in the calendar rollers and desired temperature is maintained. The following details are furnished by bidder

- Each Roller size
- All rollers are individually driven by AC motors with frequency variable drive
- Gap between top and bottom roller can be adjusted through fine threaded micrometer
- Calenda reverse/forward movement is motorized
- Drive details of each roller
- Speed of roller

#### **4.12 THERMOREGULATION UNIT**

A water based closed loop thermoregulation unit with heat exchanger is required. The following details are furnished by bidder

- Water pump detail
- Electrical load
- Maximum pressure requirement
- Connection details
- Weight and size of unit
- Heat exchanger's technical details
- Heaters detail
- Water make-up tank's capacity
- Overheat protection required
- Water drain facility required
- Water pressure gauge on all pump outlets
- All pipelines of Stainless steel
- Electrical panels are mounted on stand with easy ON/OFF, RYB phase indicator, voltage protection; water level switch and tripping interlock is required to avoid dry running of pump

#### **4.13 THICKNESS MEASURING UNIT**

Online thickness measurement unit is required. The control system continuously monitors the sheet thickness values. If any deviation from standard than immediate correction and maintain the standard thickness.

All relevant measuring results are evaluated and displayed graphically on a monitor.

#### **4.14 EDGE TRIM CUTTER**

Edge trim cutter unit is required. The sheet near the die edge is thicker which trims and sends it to trim grinder/crusher. Trim width and cutting film width are to be furnished by bidder.

AC motor details are furnished by bidder

#### **4.15 TRIM GRINDING/CRUSHER WITH BLOWER SILO**

Trim grinder/crusher is required. The following details are furnished by bidder

- Maximum trim width
- Roller speed
- Motor power
- Rotary blades
- Stationary blades
- Blower power
- Silo capacity

#### **4.16 HAUL OFF UNIT**

Haul off unit is required. Two rollers, one steel and one rubber roller are with pneumatic cylinders for opening and closing of the haul off unit.

Drive details are furnished by a bidder.

#### **4.17 TWO STATION WINDER**

Two stations are required to have a jumbo winding system required. The following details are furnished by bidder

- Winder drive
- Roll diameter
- Winding air shaft diameter to 3"
- Four winding air shafts are required
- Web tension
- Static removal system is required

#### **4.18 ELECTRICAL CONTROL PANEL**

Integral control cabinet mounted on base is required

- Power ON indicator
- Emergency stop button for main motor, calendar unit and winder
- Drive controls and temperature controllers' details are furnished by bidder

#### **4.19 TOUCH SCREEN CONTROL PANEL**

For central operation and monitoring of process on touch screen unit is required with following features.

- Production parameters width, thickness, order qty
- Melt pressure
- Melt temperature
- Screw RPM
- Line speed
- Output (Kg/hr.)
- Energy meter
- Unit consumption (Watt/Kg)
- Alarm message
- Trends
- Cold start protector

#### **4.20 AIR CONDITIONED FOR COMPONENT**

Air conditioning is required for all control panels

#### **5.0 FACTORY ACCEPTANCE TRIAL (FAT)**

IDMC depute their engineer for witnessing factory acceptance trial at supplier's factory

#### **6.0 SUPERVISION OF INSTALLATION AND COMMISSIONING**

Supervision for installation and commissioning of Three layers extrusion sheet machine is in scope of supplier. IDMC shall carry out the site installation based on the supervision provided by the supplier's representative. During the installation the supplier's representative shall give guidance with the erection of machines and piping.

After satisfactory erection of machines, a competent engineer shall be deputed by supplier at site to commission and demonstrate performance parameters.

#### **7.0 TRAINING**

It should be provided at the plant location to operation and maintenance staff and should generally include:

- To communicate theory, safety aspects, service and machine guidelines, operator trouble shooting guidelines for production and maintenance staff.
- Familiarization with start-up procedures, control during operation & adjustments.
- Fault finding & maintenance on control systems & control equipment, including electronic circuits & microprocessors.
- The supplier would train all levels of staff of the Project authority in operating the plant and control systems including managers, engineers, supervisors, operators and maintenance personnel. Emphasis will be given on application as well as operation.
- Training would be given at site during testing and commissioning of the plant, and a schedule will be proposed by the supplier, together with the content of training programs. The schedule shall be made well in advance.

#### **8.0 SPARES AND TOOLS**

All necessary spares, consumables and essential special tools as recommended by OEM shall be supplied with machines for two years' normal operation.

The necessary commissioning spares, if any, shall be supplied separately by supplier without any extra charges.

## **9.0 DOCUMENTATION AND DRAWINGS**

Within two weeks of receiving purchase order/LOI

- GA Drawings having over all dimensions, foundation details, static and dynamic load detail specification with makes and models of all bought out items.
- GA Drawing of machine shall be submitted for customer's approval prior to start the manufacturing of machine
- Electrical wiring diagram
- Pneumatic and hydraulic circuit
- Detailed installation/erection procedures and checklist of all the items

### **Prior to Dispatch**

- Final Inspection report and test certificates
- Manufacturer / Supplier's guarantee certificate.
- List of all spares related to machine with its part number
- Software and programs should be provided with machine (Soft copy in CD)
- Detailed packing list
- Operation & Maintenance Manuals

Hard Copies - 03 Nos

Soft Copy - 01 No

## **10.0 PACKING**

- Machines shall be thoroughly cleaned, inspected and sealed to prevent any foreign material ingress prior to dispatch
- Road worthy and suitable for storing for 1-2 months in open storage
- Machines shall be fitted with engraved name plate containing pertinent details such as make, model, capacity, PO Ref, Tag No.

## **11.0 WARANTEE**

- The warranty period is twelve months after the handover of the machine
- Bidder to inform the terms and conditions for extended warranty

## **12.0 SERVICE CONTRACT**

- Bidder to inform the terms and conditions of the service contract in which numbers of visits, visits in a year, work to be performed during the visit to be defined.

**13.0 DELIVERY**

The delivery shall be within 4 to 5 months from the date of receipt of purchase order/LOI. However, suppliers should get approval of IDMC prior to dispatch

**14.0 ACCEPTANCE PERFORMANCE TRIAL AT IDMC, NARELA, DELHI**

The following production runs are considered as acceptance of performance of the printing machine

- 0.7mm thick sheet of full width to be run for eight hours at full output. Performance trial as per annexure- A
- 1.88mm thick sheet, full width to be run for eight hours or completion of one roll of diameter 800-1000mm. Performance trial as per annexure- B
- 0.4mm thick sheet of full width to be run for eight hours or completion of one roll of diameter 800-1000 mm. Performance trial as per annexure- C

**ANNEXURE -A**

**Parameter**

1	Max Lay flat width (after trim)	700mm
2	Lay flat width tolerance	To be filled at the time of performance trial
3	Output	1000 Kg/hr.
4	Film thickness	0.7mm
5	Thickness variation	±3%
6	Roll diameter	800-1000 mm
8	Power consumption	At actual

9	<b>Polymer combination:</b>							
	COMPONENT		Component 1		Component 2		Component 3	
		Thickness(mm)	Polymer	%	Polymer	%	Polymer	%
	LAYER A	0.07	H050MN	100				
	LAYER B	0.49	H050MN	26.5	Rebranded PP	71.5	Masterbatch	2
	LAYER C	0.14	H050MN	100				
	Total thickness	0.7						

10	Output of Extruder A	To be filled at the time of performance trial
11	Output of Extruder B	To be filled at the time of performance trial
12	Output of Extruder C	To be filled at the time of performance trial
13	Filter / Mesh	To be filled at the time of performance trial
14	Line speed	To be filled at the time of performance trial
15	Melt Pressure alarm & tripping	To be filled at the time of performance trial
16	Gravimetric feeding	Reconcile with polymer
17	Production time (Running)	8 hours or Completion of roll dia of 800-1000 mm



**ANNEXURE -B**
**Parameter**

1	Max Lay flat width (after trim)	700mm
2	Lay flat width tolerance	To be filled at the time of performance trial
3	Output	1000 Kg/hr.
4	Film thickness	1.88mm
5	Thickness variation	±3%
6	Roll diameter	800-1000 mm
8	Power consumption	At actual

9	<b>Polymer combination:</b>							
	COMPONENT		Component 1		Component 2		Component 3	
		Thickness(mm)	Polymer	%	Polymer	%	Polymer	%
	LAYER A	0.188	H050MN	100				
	LAYER B	1.316	H050MN	26.5	Regrind PP	71.5	Masterbatch	2
	LAYER C	0.376	H050MN	100				
	Total thickness	1.88						

10	Output of Extruder A	To be filled at the time of performance trial
11	Output of Extruder B	To be filled at the time of performance trial
12	Output of Extruder C	To be filled at the time of performance trial
13	Line speed	To be filled at the time of performance trial
14	Filter / Mesh	To be filled at the time of performance trial
15	Melt Pressure alarm & tripping	To be filled at the time of performance trial
16	Gravimetric feeding	Reconcile with polymer
17	Production time (Running)	8 hours or Completion of roll dia of 800-1000 mm

**ANNEXURE -C**
**Parameter**

1	Max Lay flat width (after trim)	700mm
2	Lay flat width tolerance	To be filled at the time of performance trial
3	Output	1000 Kg/hr.
4	Film thickness	0.4mm
5	Thickness variation	±5%
6	Roll diameter	800-1000 mm
8	Power consumption	At actual

9	<b>Polymer combination:</b>							
	COMPONENT		Component 1		Component 2		Component 3	
		Thickness(mm)	Polymer	%	Polymer	%	Polymer	%
	LAYER A	0.04	H050MN	100				
	LAYER B	0.28	H050MN	26.5	Regrind PP	71.5	Masterbatch	2.5
	LAYER C	0.08	H050MN	100				
	Total thickness	0.4						

10	Output of Extruder A	To be filled at the time of performance trial
11	Output of Extruder B	To be filled at the time of performance trial
12	Output of Extruder C	To be filled at the time of performance trial
13	Filter / Mesh	To be filled at the time of performance trial
14	Line speed	To be filled at the time of performance trial
15	Melt Pressure alarm & tripping	To be filled at the time of performance trial
16	Gravimetric feeding	Reconcile with polymer
17	Production time (Running)	8 hours or Completion of roll dia of 800-1000 mm

## 15.0 POLYMER DETAILS

Polymer Manufacturer	Polymer	Grade
Reliance Industries Limited	PP	H050MN
Borealis	PP	HC205TF
Ampacet	White masterbatch	

## 16.0 PREFERRED MAKES OF PARTS

IDMC recommends the preferred makes of the following items

NO	Description	Make
1	Extruder's motor	Siemens/ABB
2	Extruder's drive	Siemens/Danfoss/Schnieder/ABB
3	Extruder's Gear box	Elecon/Bonfiglioli/Zambello
4	Gravimetric Dosing motor	Conair/Plast control
5	Gravimetric dosing drive	Conair/Plast control
6	Hopper loader	Conair
7	Calendar unit Motor	Siemens/ABB
8	Calendar unit drive	Siemens/Danfoss/Schnieder/ABB
9	Thickness measuring unit	Jasch/Lohia mechatronic
10	Haul off drive	Siemens/Danfoss/Schnieder/ABB
11	Temperature controller	Should be available in India
12	Sensors	Should be available in India
13	Heaters	Should be available in India
14	Pressure transducer	Gefran/Honeywell
15	Switchgear	Siemens/ABB
16	PLC	Siemens/Mitsubishi
17	Main IPC	Siemens

## 17.0 TECHNICAL SPECIFICATIONS

The following is the summary of technical specifications of three-layer sheet extrusion line

No	Description	
<b>A</b>	Output of the sheet extrusion line	1000 kgs/hour
<b>B</b>	Maximum working width (after trim)	700mm
<b>C</b>	Minimum working width (after trim)	Details to be furnished by bidder
<b>D</b>	Width tolerance	Details to be furnished by bidder
<b>E</b>	Trim width	Details to be furnished by bidder
<b>F</b>	Polymer melt index	Details to be furnished by bidder
<b>G</b>	Actual power consumption per Kg of sheet	Details to be furnished by bidder
<b>H</b>	Polymer to be process	Polypropylene, HIPS
<b>I</b>	Thickness range for PP sheet	0.3 to 2 mm
<b>J</b>	Thickness range for HIPS sheet	0.3 to 2 mm
<b>K</b>	EXTRUDERs	
1	Total numbers of layers	3 Layers
1.1	A-Layer	Screw Dia and L:D ratio to be furnished by bidder
1.2	B-Layer	Screw Dia and L:D ratio to be furnished by bidder
1.3	C-Layer	Screw Dia and L:D ratio to be furnished by bidder
2	Magnetic separator in hopper	Required
3	AC Motor rating for A Extruder	Details to be furnished by bidder
4	AC Motor rating for B Extruder	Details to be furnished by bidder
5	AC Motor rating for C Extruder	Details to be furnished by bidder
6	Layer ratio/Layer distribution	1:3:1
7	Screw Extractor for screw	Details to be furnished by bidder
8	Melt pressure monitor	Details to be furnished by bidder
9	Melt temperature monitor	Details to be furnished by bidder
<b>L</b>	GRAVEMATRIC BLENDING -MAIN EXTRUDER	
1	Make	Details to be furnished by bidder
2	Total output	Details to be furnished by bidder
3	Electrical load(kw)	Details to be furnished by bidder
4	Numbers of components	Four
5	Batch size (Kg)	Details to be furnished by bidder
6	Material receiving bin capacity(kg)	Details to be furnished by bidder
7	Components dosing (%)	Details to be furnished by bidder
<b>M</b>	RAW MATERIAL STORAGE BINS FOR MAIN EXTRUDER	
1	Numbers of bins	05

2	Capacity of bin	500kg
<b>N</b>	<b>MAIN EXTRUDER</b>	
1	Main extruder drive load(kw)	Details to be furnished by bidder
2	A.C motor make /Model	Details to be furnished by bidder
3	Variable frequency drive	Required
4	Screw dia(mm)	Details to be furnished by bidder
5	Screw Length(mm)	Details to be furnished by bidder
6	Screw type	Details to be furnished by bidder
7	L/D ratio	Details to be furnished by bidder
8	Barrel cooling system	Required
9	Heater's description	Details to be furnished by bidder
10	Heating Load(kw)	Details to be furnished by bidder
11	Heating zones (Nos.)	Details to be furnished by bidder
12	Gearbox type	Details to be furnished by bidder
13	Gearbox make/model	Details to be furnished by bidder
14	Gearbox cooling system	Required
15	Hydraulic screen changer	Required
<b>O</b>	<b>MELT PUMP FOR MAIN EXTRUDER</b>	
1	Melt pump volume	Details to be furnished by bidder
2	Motor power	Details to be furnished by bidder
3	Heating load	Details to be furnished by bidder
4	Pump RPM	Details to be furnished by bidder
5	Pressure transducer	Required
<b>P</b>	<b>HOPPER LOADER FOR TWO EXTRUDERS</b>	
1	Separate hopper loaders for Two extruders	Required
2	Capacity of hopper loaders	Details to be furnished by bidder
3	Make /Model	Details to be furnished by bidder
<b>Q</b>	<b>VOLUMETRIC DOSING FOR EXTRUDERS</b>	
1	Separate Volumetric dosing unit for two extruders	Required
2	Make	Details to be furnished by bidder
3	Dosing %	Details to be furnished by bidder
4	Output capacity (Kg)	Details to be furnished by bidder
5	Synchronization with melt pump	Required
<b>R</b>	<b>OTHER TWO EXTRUDERS</b>	
1	Each Extruder drive load (kw)	Details to be furnished by bidder
2	A.C motor make /Model	Details to be furnished by bidder
3	Variable frequency drive	Required
4	Screw dia of each extrude (mm)	Details to be furnished by bidder
5	Screw length of each extruder (mm)	Details to be furnished by bidder
6	Screw type of each extruder	Details to be furnished by bidder
7	L/D ratio of each extruder	Details to be furnished by bidder
8	Barrel cooling system	Required
9	Heater's description	Details to be furnished by bidder
10	Heating Load(kw) of each extruder	Details to be furnished by bidder
11	Heating zones (Nos.) of each extruder	Details to be furnished by bidder

12	Gearbox type of each extruder	Details to be furnished by bidder
13	Gearbox make/model of each extruder	Details to be furnished by bidder
14	Gearbox cooling system	Required
15	Hydraulic screen changer	Required
<b>S</b>	<b>MELT PUMP FOR TWO EXTRUDERS</b>	
1	Melt pump volume of each extruder	Details to be furnished by bidder
2	Motor power of each extruder	Details to be furnished by bidder
3	Heating load of each extruder	Details to be furnished by bidder
4	Pump RPM of each extruder	Details to be furnished by bidder
5	Pressure transducer	Required
<b>T</b>	<b>FEED BLOCK</b>	
1	Three-layer feed block	Required
2	Heating Zone	Details to be furnished by bidder
3	Heating load (kw)	Details to be furnished by bidder
<b>U</b>	<b>SHEET DIE</b>	
1	Die width (mm)	Details to be furnished by bidder
2	Effective width (mm)	Details to be furnished by bidder
3	Width adjustment	Required
4	Lip gap adjustment	Details to be furnished by bidder
5	Heating zone	Details to be furnished by bidder
6	Heating load	Details to be furnished by bidder
7	Thickness control	Required
8	Die moving arrangement on trolley	Required
<b>V</b>	<b>CALENDER UNIT</b>	
1	Calendar unit -three rolls structure	Required
2	Safety emergency stop	Required
3	Setting distance between rolls	Required
4	Speed of rollers	Details to be furnished by bidder
5	Roller drive	All rollers are individually driven
6	Roller drive motor & gearbox	Details to be furnished by bidder
<b>W</b>	<b>THERMOREGULAITON UNIT</b>	
1	Closed loop Water type with heat exchanger	Required
2	Water pumps	Details to be furnished by bidder
3	Maximum pressure	Details to be furnished by bidder
4	Electrical load	Details to be furnished by bidder
5	Heat exchanger	Details to be furnished by bidder
6	Overheat protection	Required
7	Heaters	Details to be furnished by bidder
<b>X</b>	<b>THICKNESS MEASURING UNIT</b>	
1	Online non-contact thickness measuring unit	Required
2	Make/Model	Details to be furnished by bidder
<b>Y</b>	<b>EDGE TRIM UNIT</b>	
1	Edge trim cutter	Required
2	Edge trim winder	Required
3	A.C Motor power	Details to be furnished by bidder

<b>Z</b>	<b>EDGE TRIM GRINDER</b>	
1	Maximum trim width	Details to be furnished by bidder
2	Trim thickness	Details to be furnished by bidder
3	Roller speed	Details to be furnished by bidder
4	Motor power	Details to be furnished by bidder
5	Rotary design	Details to be furnished by bidder
6	Rotary blades	Details to be furnished by bidder
7	Stationary blades	Details to be furnished by bidder
8	Screen size	Details to be furnished by bidder
9	Blower power	Details to be furnished by bidder
10	Silo capacity	Details to be furnished by bidder
11	Spare blade set (Fixed and rotating)	Details to be furnished by bidder
<b>AA</b>	<b>HAUL OFF UNIT</b>	
1	Haul off open closed- Hydraulic/Pneumatic	Details to be furnished by bidder
2	Emergency stop	Required
3	A.C Motor load	Details to be furnished by bidder
<b>BB</b>	<b>WINDER</b>	
1	Two station winders	Required
2	Roll diameter (mm)	1200 mm or 1000 kgs
3	Winder drive and motor	Details to be furnished by bidder
	Web tension	Details to be furnished by bidder
4	Air shaft dia	3"
5	Air shafts with machine	4 Nos
6	Static removal system	Required
<b>CC</b>	<b>ELECTRICAL CONTROL PANEL</b>	
1	Panel make	Rital/Siemens/Other
2	Power ON indicator	Required
3	Emergency stop button for main motor, calendar unit, and winder	Required
4	Drive controls and temperature controls	Details to be furnished by bidder
<b>DD</b>	<b>TOUCH SCREEN PANEL</b>	Required
1	Production parameters, width, thickness, order qty	Required
2	Melt temperature	Required
3	Melt Pressure	Required
4	Screw RPM	Required
5	Line speed	Required
6	Output (Kg/hour)	Required
7	Energy meter	Required
8	Unit consumption (watt/kg)	Required
9	Alarm Message	Required
10	Trends	Required
11	Cols start protection	Required
<b>EE</b>	<b>Air conditioned for components</b>	Required
<b>FF</b>	<b>UTILITY</b>	
1	Connected load	Details to be furnished by bidder
2	Running load	Details to be furnished by bidder

3	Cooling water flow rate	Details to be furnished by bidder
4	Compressed air consumption	Details to be furnished by bidder
5	Chilling unit	Details to be furnished by bidder
6	Ambient temperature	-5° to 50° C
7	Relative humidity	90%
8	Noise level	Details to be furnished by bidder
9	Machine dimension	Details to be furnished by bidder
10	Total machine weight	Details to be furnished by bidder