

Expression of Interest (Eol)

for

Consultancy Services for Techno-Economic Feasibility Study on Technology Upgradation and Forward Integration of Caprolactam Plant in FACT



THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED

(A Government of India Undertaking)

Udyogamdnl P.O., Eloor, Ernakulam

Kerala – 683 501, India

Eol Reference Number : 5071/2026-2027/E33617

Name of Work: Consultancy Services for Techno-Economic Feasibility Study on Technology Upgradation and Forward Integration of Caprolactam Plant in FACT

TABLE OF CONTENTS

1. Introduction
2. Purpose of EoI
3. Process Description
4. Bid Data Sheet
5. Scope of Work
6. Pre-qualification Criteria
7. Deliverables by Bidder at EoI Stage
8. Presentation of Proposals by Pre-Qualified Bidders
9. Evaluation Criteria
10. Instructions to Bidders
11. Pre-bid Meeting
12. Bid Formats and Annexures

1. INTRODUCTION

The Fertilisers and Chemicals Travancore Limited, **FACT**, a Schedule 'A' Government of India Enterprise under the administrative control of the Department of Fertilizers in the Ministry of Chemicals & Fertilizers, is engaged in the production and marketing of Nitrogenous and Phosphatic fertilisers and Caprolactam.

FACT has two production units, namely FACT Udyogamandal Complex and FACT Cochin Division, both situated in the state of Kerala, India. FACT Udyogamandal Complex, located in Eloor island in Kochi, comprises of a fertiliser manufacturing and a Petrochemical manufacturing facility, respectively known as FACT UC Fertiliser Plants and FACT UC Petrochemical Plants.

FACT UC Petrochemical Plants has a Caprolactam manufacturing plant of 50000 MTPA Capacity, commissioned in 1990. The process employed for the Caprolactam manufacture is the Raschig Route with Benzene as feedstock. The license and process know-how was supplied by M/s. Stamicarbon b.v, a subsidiary of Dutch State Mines(DSM), The Netherlands. The basic engineering was done by M/s. Chiyoda Corporation, Japan and the detailed engineering was done by FEDO, the design and engineering unit of FACT.

Caprolactam produced in FACT is of superior quality compared to domestic competitors and is highly valued by customers. Moreover, for every ton of Caprolactam produced, 4.5 tons of Ammonium sulphate is produced.

2. PURPOSE OF EoI

FACT's Caprolactam Plant, commissioned in 1990, based on Stamicarbo b.v.'s technology has become an energy intensive and outdated technology by current global standards. The process generates multiple undesired by-products, each requiring further treatment and handling, resulting in high energy consumption, increased raw-material usage, and elevated operating costs. With such inherent inefficiencies, the plant struggles to remain competitive in today's market environment.

Global Caprolactam production has undergone significant technological advancement, with modern processes offering much better conversion efficiencies, reduced energy requirements, and optimized utilisation of raw materials and by-product streams. Industries worldwide increasingly rely on advanced process intensification measures, enabling them to operate competitively. In contrast, the narrow price margin between Caprolactam and its raw materials makes FACT's continued operation under the current configuration economically challenging. Additionally, the original process licensor, Stamicarbon b.v., has discontinued operations in this technology domain, resulting in the absence of licensor-level technical support, process upgrades, and troubleshooting expertise.

In view of the above, FACT intends to engage a consultant to conduct a detailed techno-economic feasibility study on technology upgradation and forward integration of Caprolactam Plant.

Applications are invited through a global tender, for Expression of Interest (EoI) to empanel competent consultants eligible for conducting a detailed techno-economic feasibility study on technology upgradation and forward integration of Caprolactam Plant in FACT.

3. PROCESS DESCRIPTION

3.1. FACT UC Petrochemical Plants consist of the following three main plants –

a) Cyclohexanone Plant (Anone Plant)

In this section, Benzene is catalytically hydrogenated to produce Cyclohexane. Benzene is first dried of any moisture contained in it by distillation. It is then vapourised, mixed with recycled gases from a subsequent section of the plant and fresh make-up hydrogen and passed through tubular reactors containing Platinum on Alumina catalyst. After conversion, Cyclohexane is condensed and separated and the uncondensed gases recycled back to reactors. A small amount of purge gas is released from the recycled gases to prevent buildup of inerts. Heat of reaction is removed through heat transfer oil and is used to vapourise Benzene and also to generate steam.

Cyclohexane is oxidised with air to Cyclohexanol and Cyclohexanone in a series of stirred reactors in the presence of a catalyst. A number of other products are also formed during the oxidation, but the quantity of such products is carefully controlled within limits by suitably adjusting reaction conditions. These products are removed by saponifying them by adding caustic soda. Unreacted cyclohexane and products cyclohexanol and Cyclohexanone are separated in a series of distillation steps. Cyclohexane is recycled back to the reaction section. Cyclohexanol is converted to cyclohexanone in a catalytic dehydrogenation reaction. The crude cyclohexanone from the above steps is then further purified.

b) Hydroxylamine Plant (Hyam Plant)

Hydroxylamine sulphate is prepared using the RASCHIG process. In this, first an ammonium carbonate solution is prepared by absorbing carbon di-oxide in an aqueous ammonia solution. A mixture of NO and NO₂ is prepared by oxidising ammonia over platinum catalyst. This mixture is then absorbed in the Ammonium Carbonate solution to produce a solution of Ammonium Nitrite. Ammonium Nitrite is then reacted with sulphur di-oxide to obtain Hydroxylamine Di sulphonic Ammonia, which is further hydrolysed with water to produce hydroxylamine sulphate and Ammonium Sulphate.

c) Caprolactam Plant (Lactam Plant)

Hydroxylamine sulphate is reacted with cyclohexanone, with simultaneous addition of Ammonia to control the pH. This results in the formation of cyclohexanone oxime and Ammonium Sulphate. The cyclohexanone oxime separated as an organic layer from the above mixture is then subjected to a reaction called 'Beckman Rearrangement'. Chemically, both cyclohexanone oxime and Caprolactam have same molecular formula; but different molecular structure. This reaction takes place at elevated temperature in the presence of oleum. The oleum does not take part in the reaction and it is later converted to Ammonium Sulphate by adding ammonia to the reaction mixture. This gives a two-phase mixture; one phase containing caprolactam and the other, Ammonium sulphate. The crude Caprolactam solution separated from this is then subjected to a series of purification steps to remove the various impurities. The Ammonium sulphate solution is sent to the crystallisation section.

3.2. Auxiliary Plants and Facilities

In addition to the main plants, there are plants for pollution control and for other auxiliary services.

3.2.1. Soda Ash Recovery Plant

Caustic Effluent generated during Caprolactam manufacture is incinerated to produce Soda Ash in this plant. The plant is supplied by M/s. Kawasaki Heavy Industries, Japan. Waste heat liberated during incineration is used to generate steam.

3.2.2. Ammonium Sulphate Purge Incineration Plant

Another effluent generated during the Caprolactam manufacture is extraction effluent containing organics and Ammonium sulphate. The solution is concentrated and centrifuged to separate Ammonium sulphate. The mother liquor after centrifuging is incinerated in an incinerator. The waste heat liberated is used to generate steam.

3.2.3. Effluent Treatment Plants

The effluents generated in the entire sections are biologically treated in the effluent treatment plants based on activated sludge process before discharging to the river from the factory.

3.2.4. Steam Generation & Captive Power Plant

The steam generation plant consists of three main boilers and a start-up boiler supplied by M/s. BHPV Ltd, Visakapatnam. The capacity of each of the main boilers is 60 MT/hr. The steam is produced at a pressure is 110 Ata at a temperature of 520 °C. The start-up boiler produces 7 MT/hr saturated steam at a pressure of 14 Ata.,

The boilers are capable of meeting the entire steam requirement of FACT UC Petrochemical Plants. Part of the steam produced is used for power generation through turbo generator and part is used for process heating.

The Captive Power Plant of FACT Petrochemical Division consists of a 16 MW Turbo Generator supplied by M/s BHEL Ltd. The turbo generator is of extraction cum condensing type.

3.2.5. Nitrogen Plant & Compressor House

The capacity of the Nitrogen Plant is 1000 NM³/hr. Nitrogen is separated by liquefying air. The compressor house consists of three reciprocating air compressors of 1500 NM³/hr capacity and one reciprocating air compressor having a capacity of 800 NM³/hr.

3.2.6. Tank Farm

Facilities are available for unloading and storing Benzene, Fuel Oil, LPG, Caustic Soda, Hydrochloric Acid etc.. Intermediate storage facilities are available for organic compounds like Benzene, Fuel Oil, cyclohexane, cyclohexanone, Cyclohexanol, Crude Anone-Anol, Light residue, Heavy Residue, Caprolactam etc.

3.2.7. Ammonia Storage & Handling system

The Ammonia Storage & handling System of FACT Petrochemical Division consists of two numbers atmospheric ammonia storages, ammonia refrigeration system loading & unloading facilities etc.

4. BID DATA SHEET

SI No	Particulars	Information
1	Name of Work	Consultancy Services for Techno-Economic Feasibility Study on Technology Upgradation and Forward Integration of Caprolactam Plant in FACT
2	Eol Reference Number	5071/2026-2027/E33617
3	Type of bidding	EOI
4	Eol publishing date	02.06.2026, 14:00 Hrs. IST
5	Pre Eol meeting date and time	16.06.2026, 14:00 Hrs. IST
6	Last date and time of submission of Eol	23.06.2026 14:00:00 Hrs. IST
7	Date and Time of opening of Eol	24.06.2026 14:30:00Hrs. IST
8	Contact Person and Address for Communication	Bibid AP, 0484-256-8289, bibid@factltd.com Avinash CB, 0484-256-8662, avinash.c@factltd.com

Google meet link-----><https://meet.google.com/mwc-nopr-hih>

5. SCOPE OF WORK

A typical scope of work for the techno-economic feasibility study shall include, but not limited to, the following:

5.1. *Assessment of Existing Caprolactam Production Facility*

- 5.1.1. The vendor shall carry out detailed technical evaluation of FACT Caprolactam production plants, including process configuration, plant capacities, technology employed, energy systems, utilities, effluent handling, logistics, and integration with other FACT units.
- 5.1.2. The vendor shall identify bottlenecks and reliability constraints affecting production, energy consumption, yield, and operating costs.

5.1.3. The vendor shall evaluate performance of FACT Caprolactam Plants (including, but not limited to, specific raw material consumption, steam consumption, power, effluent and emission generation) against global benchmarks, best available technologies, and prevailing industry standards.

5.2. **Technology Upgradation and Modernisation Study**

5.2.1. The vendor shall evaluate available technological options and recommend viable options for modernisation and upgradation of FACT's Caprolactam production facility, aimed at improving efficiency, capacity, energy performance and operational profit.

5.2.2. The vendor shall assess retrofitting and revamping requirements for existing process units and critical equipment to support technology upgradation, and shall propose feasible engineering modifications.

5.2.3. The vendor shall recommend the capital investment requirements for each upgradation option, covering major equipment, instrumentation, automation, energy and utility conservation measures, effluent and emission-reduction systems.

5.3. **Forward Integration with Nylon-6 Plant**

5.3.1. The vendor shall conduct a detailed market, technical, and economic feasibility study for forward integration from FACT's Caprolactam Plant to Nylon-6 polymer production with customizable grades of Nylon-6.

5.3.2. The vendor shall evaluate optimal capacity configurations consistent with FACT's Caprolactam production output, and other available resources.

5.3.3. The vendor shall estimate capital and operating expenditures, raw material requirements, utility consumption, manpower needs, and product yields.

5.3.4. The vendor shall assess market demand, pricing trends, competitive scenario, and value addition potential through Nylon-6 production.

5.3.5. The vendor shall provide feasibility recommendations, risk evaluation, financial viability, and strategic benefits of establishing a downstream Nylon-6 plant.

5.4. The vendor shall prepare detailed CAPEX and OPEX estimates for all recommended upgradation and integration options.

5.5. The vendor shall conduct a complete financial evaluation including NPV, IRR, payback period, etc.

5.6. The vendor shall compare various development pathways such as continuing current operations, undertaking partial/complete technology upgradation, or implementing forward integration.

- 5.7. The vendor shall recommend phased implementation strategies to minimize production disruptions during upgrades or plant modifications.
- 5.8. The vendor shall propose short-term, medium-term, and long-term action plans for technology adoption, capital investments, and business expansion.
- 5.9. The vendor shall consolidate findings into an actionable and management-ready business plan for sustainable growth.
- 5.10. The vendor shall undertake visits to FACT, as need may be, and interact with plant personnel and management for process understanding, operational data collection, historical plant performance records, equipment information, and engineering documents required for the study.
- 5.11. The vendor shall make presentations on the progress of the work as and when required by FACT, including at the completion of each major milestone, and shall present the interim and final outcomes to FACT Management.
- 5.12. The vendor shall prepare a Techno-Economic Feasibility Report (TEFR), Detailed Project Report (DPR), and any other documents required by FACT for internal approvals, including presentations and supporting documents needed for obtaining clearance from FACT's Board and from the Ministry, as applicable.
- 5.13. The vendor shall also assist FACT for obtaining permissions/clearances from statutory authorities / departments / Ministry, as applicable, for implementation of the work.
- 5.14. The vendor shall prepare comprehensive tender documents, aligned with FACT's procurement guidelines, for inviting bids to execute the works recommended in the study. The vendor shall also assist FACT in the technical evaluation of bids received, including preparation of technical evaluation reports, clarification notes, and recommendations for shortlisting and final selection.
- 5.15. Upon award of the execution contract, the consultant shall act as the Project Management Consultant (PMC) for the implementation of the recommended works, coordinating with FACT and the implementing/contracting agency, and ensuring adherence to timelines, specifications, safety standards, and quality requirements.
- 5.16. The successful bidder shall agree that all information, documents, and materials (including, but not limited to, specifications, designs, plans, technical data, pricing strategies, and any other non-public information) provided by FACT in connection with this tender and any subsequent discussions shall be treated as strictly confidential and shall not be disclosed to any third party, nor used for any purpose other than the evaluation and potential execution of this tender, without the prior written consent of FACT. This obligation of confidentiality shall continue indefinitely, even after the termination of this tender process or the award of any contract resulting from it.

The successful bidder shall enter into a non-disclosure agreement with FACT in line with the above.

6. PRE-QUALIFICATION CRITERIA

The firm that submits the Expression of Interest (Eol) shall meet the criteria specified below:

6.1. PQC - General

SI No	Criteria	Document Proof
6.1.1	The bidder must have experience in providing 'Engineering & Project consultancy/ Technology Supply' to major chemical / fertiliser / petrochemicals / refining manufacturing companies.	Certificate of Incorporation / Registration, Memorandum & Articles of Association, Partnership Deed, or equivalent legal document AND Relevant details of the engagement for past 10 years with client certificates
6.1.2	The bidder shall not have been debarred/blacklisted by any Central/State Govt. department, agency, PSUs / Institution / Agencies / Autonomous organization / foreign government agency	Bidder shall submit a self-certification by an authorized person to this effect.

6.2. PQC - Financial

SI No	Criteria	Document Proof
6.2.1	The Bidder shall have Average Annual Turnover (ATO) of at least \$ 2 Million (or equivalent) in last 3 financial/calendar years, as applicable, ending as on date of publishing of Eol.	Copies of Balance Sheet and Profit & Loss Accounts audited by a practicing Chartered Accountant / Certificate of Turnover issued by a Practicing Chartered Accountant shall be submitted as proof

6.3. PQC - Technical

SI No	Criteria	Document Proof
6.3.1	The bidder shall have carried out at least two (2) 'Engineering & Project consultancy/ Technology Supply' assignments in the last 10 years, ending as on date of publishing of Eol, in major chemical / fertiliser / petrochemicals / refining manufacturing companies for projects with consultancy fee not less than \$ 1 Million (or equivalent) involving any of: <ul style="list-style-type: none"> • Techno-Economic Feasibility Studies • Technology upgradation studies • Capacity augmentation studies • Forward / Backward integration studies 	1. Self-attested copy of work order clearly mentioning the detailed scope of work AND 2. Invoice and receipt of payment / recommendation for payment of final bill / completion certificate.
6.3.2	Proof of successful execution of at least one project based on the recommendations by the bidder in the following category, during the last 10 years, ending as on date of publishing of Eol, in major chemical / fertiliser /	The bidder shall submit a certificate from the client, on the client's official letterhead, signed by an authorised signatory, clearly confirming that the project was implemented based on the

petrochemicals / refining manufacturing companies. • Techno-Economic Feasibility Studies (TEFS) • Technology upgradation studies • Capacity augmentation studies • Forward / Backward integration studies	bidder's recommendations and that the execution was successful.
---	---

Note: Details of more projects in proof of 6.3.1 and 6.3.2, with documentary proof, if available, may be submitted by the bidder.

7. DELIVERABLES BY BIDDER AT EOI STAGE

The bidders submitting EoI application shall mandatorily submit the following documents:

- a) Full details of the bidder like Name and Address of the firm, phone and E-mail address and name and designation of authorised signatory and contact person (Annexure 1)
- b) Statement of credentials of bidders as per format enclosed in the EoI document along with supporting documentary evidences (Annexure 1)
- c) Documentary evidences in proof of pre-qualification criteria mentioned in Clause 6.1, 6.2 and 6.3. Additionally, Annexure – 2 for Clause 6.3.1 and Annexure – 3 for Clause 6.3.2 to be filled.
- d) Key personnel part of the team conducting the study, including qualification, designation and experience of the team member, duly filled as per Annexure - 5
- e) Proposed methodology for achieving Scope 5.2 and 5.3 (Annexure - 4)
- f) Time required for completion of techno-economic feasibility study and submission of documents covered under Scope of Work. (Annexure - 4)
- g) Any other relevant suggestion.

Submission of the documents mentioned below, are desirable, but not mandatory.

- h) Separate CAPEX and OPEX estimates for achieving Scope 5.2 and 5.3 (Annexure - 4)
- i) Tentative schedule for execution / implementation of the proposed plan of upgradation and forward integration

8. PRESENTATION OF PROPOSALS BY PRE-QUALIFIED BIDDERS

The bidders who qualify the pre-qualification criteria shall make a detailed technical presentation before the FACT evaluation team. The bidder shall begin the presentation with an overview of their organization, followed by details of relevant experience and past assignments in similar domains. The presentation shall clearly highlight the proposed methodology for achieving the scope of work. The estimated CAPEX and OPEX for the proposed modifications, and the tentative execution schedule, if available, may also be presented. The date and time for the presentation shall be informed to the qualified bidders by e-mail.

The bidder shall also respond to all queries raised by the FACT evaluation team and provide clarifications as required during the presentation. Evaluation of the presentation will be based on the quality and completeness of the content presented, as well as the bidder's ability to satisfactorily address the questions posed by the evaluation team.

The marks awarded for the presentation shall be at the sole discretion of the FACT evaluation team. The evaluation decision shall be final and binding, and shall not be open to challenge or dispute by the bidder.

9. EVALUATION CRITERIA

The details submitted by the bidders will be evaluated by scoring method in the following manner:

- a) Experience in similar nature of work during last 10 years – Maximum 40 marks.
- b) Financial parameters – Maximum 20 marks.
- c) Execution of works based on recommendations of study – Maximum 25 marks.
- d) Submission of deliverables specified in EoI – Maximum 10 marks.
- e) Presentation of proposals by bidders – Maximum 5 marks.

Total 100 marks.

To become eligible for shortlisting, the bidder must secure at least 50% in each category (a), (b), (c), (d), and (e) of above criteria and 60% in aggregate. Similarly, the bidder has to mandatorily submit all deliverables specified in Clause (d) above / Clause 7. The detailed marking system for evaluation will be as given in Annexure - 6.

10. INSTRUCTIONS TO BIDDERS

- 10.1. This Expression of Interest (EOI) Document is neither an agreement nor an offer by FACT to the prospective Bidders or any other person. The purpose of this EOI Document is to empanel competent parties eligible for conducting techno-economic feasibility study as per the scope of work detailed in this document.
- 10.2. FACT will consider the subject EoI as pre-qualification process. At later stage, FACT will float a limited tender and only those bidders who fulfill the eligibility criteria specified in the EoI and pre-qualify will be invited to participate in the limited tender enquiry.
- 10.3. Information provided in this EOI document to the Bidder(s) has been collated from several sources and may not be complete in all respect. FACT accept no responsibility for the accuracy or otherwise for any statement contained in this EOI Document.
- 10.4. FACT may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this EOI document.
- 10.5. All data, drawings and information supplied by FACT in connection with this EoI shall be treated as confidential and shall not be disclosed to third parties without the prior written consent of FACT management.
- 10.6. FACT reserves the absolute right to disqualify any bidder based on the proposal, recommendations, or modification plans submitted, if they are found to be inconsistent with the defined scope of work or deemed unsuitable for any reason whatsoever. FACT may exercise this right without assigning any reason, and the decision of FACT in this regard shall be final and binding.

- 10.7. The bidder shall study carefully the EOI document including, Pre-Qualification criteria, scope of work, Terms and Conditions of Eol & Instructions to Bidders before submitting the bid. All conditions set out there in shall be binding on the bidders unless conflicting with any conditions expressly stated by FACT while accepting any bid in the event of such acceptance. Copy of the Eol/tender documents shall be digitally signed by the bidders signifying their acceptance of the same.
- 10.8. Before submitting the bid, the bidder shall familiarize himself, about the details of the work, operating conditions etc., collect all necessary data regarding the facilities available at FACT/FEDO and satisfy himself on all aspects relating to this work which he has to execute. Claiming lack of knowledge shall not be a reason for exoneration of the bidder of his contractual obligations.
- 10.9. The selected vendor shall be fully responsible for carrying out any modifications, revisions, or refinements in the proposal, reports, feasibility documents, tender documents, or any other submissions, as directed by FACT from time to time. Such modifications shall be carried out at the sole discretion of FACT, and the vendor shall comply without any additional cost implication, unless otherwise approved by FACT.
- 10.10. All information called for in the Forms and formats shall be furnished against the relevant columns.
- 10.11. The applicant may furnish any additional information, which is deemed necessary to establish capability to successfully complete the envisaged work.
- 10.12. For further details, clarifications to Eol and site visit, please contact:
- 10.13. A pre-bid meeting will be conducted in VC mode as per the date and time mentioned in the NIT. Specific points that require clarification should be submitted through e-mail to _____ within the time mentioned in NIT.
- 10.14. Bid against this EOI NOTICE shall be submitted online on e-Tendering portal <https://eprocure.gov.in>, with valid digital signature certificate. Offers submitted on any other platform or in any other mode or including e-mails, physical offers etc., SHALL NOT be accepted.
- 10.15. All bidders are requested to register themselves on the above website with their valid digital signature certificate. It is mandatory for bidder to have valid digital signature certificate issued by any of the Certifying Authority approved by Govt. of India for participating in the tender. The cost of digital signature certificate shall be borne by the bidder. Bidders may refer "Bidders Manual Kit" available on the above website for detailed information and instructions for registration, bid submission etc.
- 10.16. All corrigenda, addenda, amendments and clarifications to Eol will be hosted in the website of FACT at www.fact.co.in and <https://eprocure.gov.in> Bidders shall keep themselves updated with all such developments till last date and time of submission of Eol.

- 10.17. Bidders are instructed to comply with FACT standing HSE orders including permit systems, PPE etc. in totality, wherever applicable. All HSE guidelines shall be followed during site visits and site investigations. Bidders shall indemnify and hold harmless FACT, FACT's Personnel, and their respective agents, against and from all claims, damages, losses and expenses in respect of any HSE violations.
- 10.18. FACT reserves the right to extend without giving any reason the last date for submission and opening of bid.
- 10.19. FACT reserves the right to assess the capability and capacity of the company/firm independently in addition to the details/information furnished by the applicant.
- 10.20. Incomplete applications and applications not accompanied with supporting documents are liable to be rejected.
- 10.21. This is an invitation for expression of interest and not an invitation for bid.
- 10.22. FACT reserves the right to accept or reject any Bid and to annul the Bidding process and reject all Bids at any time prior to decision of selection, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Company's action.
- 10.23. FACT reserves the right to call bids from other parties in addition to parties found suitable by way of press advertisement under certain situation such as cartelisation or number of such parties are less, bids received are less, or quoted rates are high or under any such circumstances which are detrimental to the interest of FACT, at its sole discretion. Further, FACT reserves the right to add any number of parties and at any time, so considered by the company. The opinion of FACT in this behalf will be final and binding.

11. PRE-BID MEETING

- 11.1. A pre-bid meeting through hybrid mode (VC and/or physical) would be held at time and an address specified in the data sheet. The link for participation in VC shall be published in FACT website and tendering platform.
- 11.2. During the course of pre-bid meeting, the Bidders may seek clarifications and make suggestions for consideration of FACT. FACT shall endeavor to provide clarifications and such further information as it may, in its sole discretion, considered appropriate for facilitating a fair, transparent and competitive bidding process.
- 11.3. Clarifications / responses shall be shared by uploading such responses online only at <https://eprocure.gov.in> if required in the form of an addendum and or corrigendum.
- 11.4. Non-attendance at the pre-bid conference shall not be a cause for disqualification of a Bidder. However, terms and conditions of the Addendum(s) shall be legally binding on all the Bidders irrespective of their attendance at the pre-bid Conference.
- 11.5. A maximum of three representatives from each bidder shall be allowed to participate physically. Formalities, as per the practices in FACT, shall be followed to facilitate entry inside the factory to attend the meeting.

12. BID FORMATS AND ANNEXURES**ANNEXURE – 1**

Sl. No.	Description	To be filled in by Bidder
	Company Profile	
1	Name of Bidder	
2	Name and address of Chief Executive	
3	Address:	a: Regd. Office
		b: Factory
4	PIN Code	
5	Telephone Nos	
6	Tele Tax Nos	
7	E mail ID	
8	Contact Person	
9	Details of Local Office/ Representatives/ Liaison Agents	
10	PAN No	
11	GST Registration No.	
12	Bank Details (Payment will be made through RTGS. Please Upload the Format verified by Bank along with a cancelled Cheque)	

Signature

Name and Designation:

Company Seal:

Date:

ANNEXURE – 2

DETAILS OF SIMILAR WORKS COMPLETED DURING THE LAST TEN YEARS ENDING AS ON DATE OF PUBLISHING OF EoI

SI No	Name of Work	Description of Work	Start Date	End Date	Work Order Value	Client Details with Location of Work

ANNEXURE – 3

**DETAILS OF SUCCESSFULLY EXECUTED PROJECTS BASED ON STUDY
RECOMMENDATIONS OF THE BIDDER DURING THE LAST TEN YEARS ENDING AS
ON DATE OF PUBLISHING OF EoI**

SI No	Name of Work	Description of Work	Start Date	End Date	Client Details with Location of Work	Name of Executing Agency

ANNEXURE – 4

PROPOSED METHODOLOGY FOR TECHNOLOGY UPGRADATION (SCOPE 5.2) AND FORWARD INTEGRATION (SCOPE 5.3)

Bidder shall furnish a brief idea of the proposed methodology through which the bidder intends to achieve the scope of work mentioned in Clause 5.2 (Technology upgradation and modernisation) and Clause 5.3 (Forward integration through Nylon-6 Plant). It is desirable to include the estimated CAPEX and OPEX estimates separately for execution of the proposed works, along with tentative time for completion of the execution works.

Time required for completion of techno-economic feasibility study : _____

Signature:

Name and Designation:

Company Seal:

Date:

ANNEXURE – 5

DETAILS OF KEY PERSONNEL & ESTABLISHMENT

The bidder shall submit details of key personnel intended to be deployed for conducting the study as mentioned in the Scope of Work

SI No	Designation / Post	No.	Qualification	No. of years of experience

ANNEXURE – 6**CRITERIA FOR EVALUATION OF ELIGIBILITY**

a)	Experience in similar nature of work in last 10 years – Refer PQC Clause 6.3.1 (40 marks)	<p>i. 20 marks for minimum eligibility criteria</p> <p>ii. 30 marks for twice or above the minimum eligibility criteria</p> <p>iii. Additional 10 marks if at least one of the works is related to Caprolactam manufacturing plants.</p> <p>In between (i) and (ii) On pro-rata basis.</p>
b)	Financial parameters– Refer PQC Clause 6.2.1 (20 marks)	<p>i. 10 marks for minimum eligibility criteria</p> <p>ii. 20 marks for twice or above the minimum eligibility criteria</p> <p>In between (i) and (ii) On pro-rata basis.</p>
c)	Execution of works based on recommendations of study– Refer PQC Clause 6.3.2 (25 marks)	<p>i. 15 marks for minimum eligibility criteria</p> <p>ii. 20 marks for twice or above the minimum eligibility criteria</p> <p>iii. Additional 5 marks if at least one of the works is related to Caprolactam manufacturing plants.</p>
d)	Submission of deliverables specified in Eol (10 marks)	10 marks shall be granted on submission of mandatory documents mentioned in Clause 7 (a – g).
e)	Presentation of proposals by bidders (5 marks)	Refer Clause 8