Process number: PKN/2/004358/25

ORLEN S.A.

Płock

REQUEST FOR INFORMATION (RFI)

Increasing reformate production and reducing CO₂ emissions at the Reforming VI unit through the implementation of next-generation internal equipment in platforming reactors 2-V-01/02/03

ORLEN S.A. (hereinafter referred to as the “**OWNER**”) prepared this REQUEST FOR INFORMATION (hereinafter referred to as “**RFI”)** and hereby is enquiring for your interest to take part in the process (“**RFI PROCESS”)** referring to seeking information on potential technologies or solutions that could increase reformate production and reduce CO₂ emissions at the Reforming VI unit through the implementation of next-generation internal equipment in platforming reactors 2-V-01/02/03.

The Company or companies grouped in a consortium who have expressed an interest in participating in the RFI PROCESS – „BIDDER”.

1. PURPOSE OF INQUIRY

As part of this REQUEST FOR INFORMATION (RFI), ORLEN is seeking information on potential technologies or solutions that could increase reformate production and reduce CO₂ emissions at the Reforming VI unit through the implementation of next-generation internal equipment in platforming reactors 2-V-01/02/03.

ORLEN is looking for an experienced Contractor whose portfolio includes new generation PRI and which has confirmed references from implementations (revamped units).

ORLEN expects that the Contractor will be able to offer detailed engineering services, manufacturing and supply of the equipment, provide installation guidelines, ensure supervision during assembly and provide process guarantees (e.g. RON, yields).

ORLEN assumes that the new generation PRI will be characterized by greater strength and durability compared to those currently used, the technological level of which refers to the late 1990s. These improvements will contribute to higher reactor reliability and increase its performance. Furthermore, ORLEN assumes that the size and shape of PRI will enable the use of a larger volume of active catalyst with higher reliability in the same platforming reactor shell.

Through replacing the platforming reactor internals ORLEN wants to achieve the highest quality production while maintaining the highest possible reliability.

The expected benefits resulting from implementing the described solution are:

* Process-related:
* Increased catalyst volume – balanced with other key process parameters, such as reactor pressure drop;
* Lower WAIT requirement or increased RON.
* Minimized installation and maintenance time:
* Less replacement and repairs.

The following part of this document presents the general assumptions and scope of work.

# **General Information**

Platforming reactor internals are essential components that play a critical role in the performance and reliability of catalytic reforming units. Their design and functionality directly influence the efficiency of the reforming process and the quality of the produced reformate.

The Contractor shall provide a high quality, tailored solution for the supply of process-critical equipment for ORLEN. The Contractor shall evaluate and design the reactor system to ensure optimal performance and the highest possible reliability. The Contractor is responsible for the detailed review, procurement, manufacturing, inspection and project management to be able to deliver specialized, high-performance equipment in one robust and efficient package. The new generation of PRI is expected to enable the use of a larger active catalyst volume with higher reliability in the same platforming reactor shell.

The goal of the project is to increase the flexibility of the platforming process depending on operational needs:

* Possibility of reducing WAIT – **FIXED RON** – expected benefits:
* Maintained reformate quality;
* Increased reformate production (C5+ yield);
* Increased hydrogen production (H2 yield);
* Reduction of fuel gas consumption;
* Reduction of CO2 emission.
* Possibility of increasing RON – **FIXED WAIT** – expected benefits:
* Increased reformate quality;
* Increased hydrogen consumption.

The technical offer should include a description and features of proposed new generation PRI and at least data on the operating parameters of the reactors section, expected yields and product (reformate) quality. It is desirable to present the data in tabular form.

**Reference list**

ORLEN is seeking state-of-the-art, commercially available, and commercially proven solution. The Bidder should provide a list of references regarding the implementation of the offered PRI in the CCR units. References should be from the last 10 years. The Ordering Party is looking for solutions with industrial applications. The Bidder may also present projects that are currently ongoing. The Bidder is requested to provide a reference list of the proposed technology, including:

* Location, Client and Capacity of CCR unit (if not confidential);
* Date of implementation (with a clear distinction between units in operation and in construction/fabrication or design);
* Information whether the reference concerns a new or revamped CCR unit along with information about the operating mode (fuel or BTX mode).

We encourage you to respond to this RFI by submitting RESPONSE to RFI in accordance with the requirements defined in this ITB.

**All correspondence and submission of RESPONSES takes place via CONNECT platform.**

1. PLANNED SCHEDULE OF THE RFI PROCESS:

Planned dates of the RFI PROCESS:

* Signature of the Information Protection Agreement by authorized persons, in accordance with the REQUEST FOR INFORMATION: within 1 week from publication of this RFI
* Submission of complete RESPONSES to the RFI signed by authorized persons, in accordance with the REQUEST FOR INFORMATION: within 2 weeks from publication of this RFI

The OWNER reserves the right to change the above dates.

1. RULES OF PARTICIPATION IN THE RFI PROCESS
   1. A complete RESPONSE should be submitted in the RFI PROCESS in accordance with this INQUIRY.
   2. In the event of the will to establish a consortium for the purpose of implementing the declared scope, it is required to submit a statement on the will to establish a consortium or a letter of intent and to indicate the planned consortium leader.
   3. The OWNER reserves the right to change or supplement these terms at a later stage of the RFI PROCESS.
2. SUBMISSION OF THE RESPONSE TO RFI
   1. The RESPONSE should be submitted on the CONNECT Platform, by completing all the items in the form and attaching the required information / documents specified in this REQUEST FOR INFORMATION within the required time.
   2. In the RESPONSE to RFI please submit the following documents:
      * + The list of persons authorized to sign the Offer (or any documents constituting the offer) or any activities connected with preparing the Offer and any documents connected with the RFI PROCESS, also to corresponding on behalf of the BIDDER;

* Register documents of the BIDDER;
* RESPONSE to RFI in accordance with this ITB and its Attachment no 1;
* Duly signed Information Protection Agreement (IPA) (in case of electronic signature qualified electronic signature is required) in accordance with the Attachment no. 3.
  1. The submitted RESPONSE should be signed by a representative of the BIDDER authorized in accordance with the National Court Register or authorized by a relevant power of attorney.
  2. In case of resignation from submitting the RESPONSE, please send a short message on the CONNECT Platform giving the reason for resignation and then select the 'Resign' button (the order of actions is important).
  3. Please direct all questions for additional information and clarifications through the CONNECT Platform ("Ask the ordering party" button) within the time limit set in the system. The answer will be sent in the same way.
  4. Subject to point 4.7, the content of the questions and explanations of the OWNER are forwarded via CONNECT Platform to all the BIDDERS, without disclosing the source of the question, provided that the questions may be forwarded to the OWNER no later than 3 business days before the deadline for submission of RESPONSES. After this date, the OWNER reserves the right not to answer any questions.
  5. If the content of the question concerns a unique solution used by the BIDDER, which cannot be disclosed to other participants of the RFI PROCESS (as indicated by the BIDDER), the OWNER reserves the right to answer the question only to the BIDDER that asked the question.
  6. The OWNER reserves the right to refuse to answer questions without giving reasons.

1. RESPONSE SUBMISSION REQUIREMENTS:

Due to CONNECT system conditions, RESPONSE to RFI should be attached in the tab titled „OFFER”.

1. CONFIDENTIALITY
   1. Within 1 week from publication of this RFI the BIDDER shall sign and submit to OWNER (through Questions & Answers on the CONNECT Platform) the Information Protection Agreement (IPA) as per Attachment 3 to this RFI which is a condition to receive OWNER’s confidential information, **including Attachment 1 to this RFI**.
   2. The BIDDER undertakes to treat as confidential any and all information and materials obtained during this RFI PROCESS. Information regarding the fact of the BIDDER’S invitation to participate in RFI PROCESS, the fact of submitting the RESPONSE TO RFI cannot be provided by the BIDDER for publication of such information or transfer to any third parties, without a written permission from the OWNER. If it is necessary to obtain information from subcontractors / sub-suppliers, the BIDDER may provide them with information to the extent necessary to obtain this information, under the condition of concluding with them IPA’s with at least same level of protection as the IPA binding the BIDDER and the OWNER. The BIDDER shall archive these agreements and shall, upon the OWNER’s request, forward to the OWNER one fully executed copy of the said IPA for any third parties receiving the above-mentioned information.
2. ADDITIONAL INFORMATION/RESERVATIONS:
   1. ORLEN S.A. is not bound by the provisions of the Act of 11 September 2019 Public Procurement Law, in force from 1 January 2021.
   2. The BIDDER acknowledges and accepts that all communications received during the RFI PROCESS, irrespective of the form of their expression, are for information only and will not be considered as a declaration of will leading to the conclusion of the contract.

As part of the RFI PROCESS, it is not planned to conclude an Agreement between the parties for the scope indicated in the Attachment no. 1. The RFI PROCESS is for market analysis only. The RESPONSE to RFI does not constitute an offer within the meaning of art. 66 of the Civil Code and provisions regarding auctions and tenders within the meaning of art. 70 (1) - 70 (5) of the Civil Code do not apply.

* 1. The BIDDER shall bear all costs related to the preparation and submission of the RESPONSE and participation in the RFI PROCESS, and the OWNER shall in no case be responsible for any of these costs regardless of the manner of conducting or the outcome of the RFI PROCESS. The OWNER does not reimburse any costs related to the preparation and submission of the RESPONSE to this INQUIRY. Regardless of the results of the PROCEEDING, OWNER shall not be liable or obliged to cover the costs or losses related to the preparation and submission of the RESPONSE.
  2. OWNER reserves the right to change the conditions contained in the RFI DOCUMENTS, cancel the RFI PROCESS or reject all the responses.
  3. The BIDDER is obliged to read the terms of this INQUIRY. Submission of the RESPONSE in the RFI PROCESS is equivalent with acceptance of all conditions contained in this REQUEST FOR INFORMATION.
  4. OWNER reserves the rights to refuse issuing references without stating the reasons.

All information about the RFI PROCESS can be obtained from:

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and / or

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Investment Project Procurement Team   
Procurement Area   
ORLEN S.A.

**LIST OF ATTACHMENTS:**

Attachment 1 – Scope of Work execution of the project in the Engineering and Procurement (EP) model

Attachment 2 - Information clause

Attachment 3 - Information Protection Agreement (IPA) – template