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TENDER BOOK for

Acquisition of the license, basic engineering and technical assistance for project implementation

THE ESTABLISHMENT OF A NEW POLYEPOXIDE PRODUCTION UNIT IN CHIMCOMPLEX SA COMPANY





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1. Tender book objectives

- 1.1. This tender book contains the minimum necessary requirements that a speciality company must meet for to provide the license, know-how, basic engineering, technical specifications of the equipment for purchase and technical assistance, thus ensuring the performance guarantee of the project.
- 1.2. The tender book will contain technical specifications which must to be taken in consideration by the tenderer when prepare the technical offer. These are defining, as the case may be and without being limited to the following, characteristics related to the qualitative, technical and performance level, operational safety, dimensions, as well as quality assurance systems, terminology, symbols, tests and test methods, the conditions for certification of compliance with relevant standards.
- 1.3. The technical and functional characteristics presented below for the products that are the subject of the acquisition are mandatory and minimal, they can be offered at a higher level (with the punctual highlighting of all these deviations). If all the minimum requirements cannot be met, the offer will be declared non-compliant. Alternative offers are not permitted.

2. Activity purposes

The scope of this procurement procedure is referring to the procurement of: license, know-how, basic design engineering and technical assistance for the project implementation.

The tenderer is responsible for basic engineering, license design and technical assistance regarding the approval of the detailed engineering carried out by beneficiary and the project implementation.

The tenderer will submit together with the offer all the technical details that he considers to be good for the realization of the design, the technical assistance assurance for the project implementation.

If one or more bidders submit bids only for certain units, and one or more bidders submit bids for all units, priority will be given in awarding the contract to the bidder/bidders who have submitted a compliant bid for all units, thus ensuring the performance of the whole process.

If no compliant offer provides all the units (respectively all the requirements from chapter 2 and chapter 3), the Beneficiary can decide to cancel the procedure.

The following activities will be the responsibility of the Tenderer:

2.1. Provision of license, know-how, basic engineering

Tenderer will have in the view inclusion in the TECHNICAL and COMMERCIAL offer the following



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activities:

- Provision of license, know-how for each component of the project (described in point 3.3)
- Gantt chart of the requested activity;
- Technical project, basic engineering;
- Performance guarantees of the project for the unit;
- Technical assistance.

Deliverable list:

Chap.	Document
Α	Technical and design documentation for the project realization
	License and technology
	Operation Guideline incl. Polyepoxide Product Recipes & Procedures
	Laboratory Equipment Specification
	Analytical Manual incl. Sampling Plan
A1	Documentation for basic engineering
A1.1	Master document
A1.1.1	Master Document List
A1.1.2	Time Schedule
A1.1.3	Monthly progress report
A1.2.	Basis of Design
A1.2.1	Project overview
A1.2.2	Basis of Design
A1.2.3	Fluid Index
A1.3	Process Definition
A1.3.1	Process Description and Definition
A1.3.2	Process and Utility Flow Diagram (PFD)
A1.3.3	Overall Plants Material Balance
A1.3.4	Heat and Material Balance (H&MB) / Stream summary
A1.3.5	Process Control Philosophy (PCP)
A1.4	Utilities, Raw Material, Chemicals, Additives and Catalyst
A1.4.1	Consumption and Specification of Raw Materials, Utilities, Chemicals,
	Adhesives and Catalyst
A1.4.2	Battery limit conditions / Interface and connection possibilities
A1.5	Process Equipment
A1.5.1	Process Equipment List
A1.5.2	Technical specification of equipment/Equipment data sheets
A1.5.3	Guideline Drawings
A1.5.4	Long lead equipments list
A1.5.5	Vendor list
A1.6	Health and Environment
A1.6.1	Hazardous Chemicals / MSDS
A1.6.2	Plant Waste Effluents
A1.6.3	Safety and Health Design Philosophy
A1.6.4	Analysis of Key Occupational Health Points
A1.6.5	Description of Main Safety Relief Facilities
A1.6.6	Preliminary internal hazardous analysis (PHA) / HAZOP
A1.6.7	Hazardous Area Plan/ ATEX zones





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A1.7	Process Control
A1.7.1	Cause and Effect Diagram
A1.7.2	Functional design specification and logic diagrams
A1.7.3	Process Control and Safety Control System Description
A1.7.4	Alarm and Trip Setting
A1.7.5	Process Input/Outputs in DCS and SIS
A1.8	Plant Design and Piping
A1.8.1	Overall Plot Plan
A1.8.2	Construction and commissioning philosopyh
A1.8.3	Preliminary Structure Layout incl. prel. Loads
A1.8.4	Main Equipment Layout Plan
A1.8.5	Line List / Line Schedule
A1.8.6	Piping Specification Classes
A1.8.7	Valve technical specification
A1.8.8	Valve list
A1.8.9	Valve specification classes
A1.8.10	Data Sheet of Special Pipe Fittings and Special Valves
A1.8.11	Datasheet of Safety valve, Rupture disc
A1.8.12	Piping Study
A1.8.13	Specifications (Insulation, Painting,)
A1.9	Electric and Instrumentation
A1.9.1	Electrical Load Summary
A1.9.2	Instrument Design Guideline / Instrumentation Principle
A1.9.3	Instrument Index Table
A1.9.4	Instrument Process Data Sheets
A1.9.5	Specification for Critical and Special Instruments
A1.9.6	Valve Data Sheets for control and ON/OFF valves
A1.9.7	Fire and Gas Detection Philosophy
A1.9.8	Electrical diagram
A1.9.9	UPS concept
A1.9.10	Control air concept
A1.10	Piping and Instrumentation
A1.10.1	Piping & Instrument Diagram (P&ID)

The tenderer will execute the technical design, basic engineering in accordance with the provisions of the contract, with good engineering practices and with the technical standards in force in Romania and in EU.

The tenderer will be responsible for any discrepancies, errors or omissions in the specifications, drawings and other technical documents it has prepared.

The scope of these works is not limited to the activities specified above, but will also include any other activities necessary to carry out the works described in these requirements and to put the facility into operation.

2.2. Technical assistance for the project implementation





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The awarded tenderer must:

- Approve the detailed engineering carried out by the beneficiary;
- Participates in any other activity that is provided for in the legislation in force regarding technical assistance from the designer and was not specified in the documentation;
- Ensure the participation at the tests for commissioning, normal and stable operation of the facility;
- Ensure participation at the performance test
- Develop and participate at the Training Program for the operating personnel of the production unit;
- Develops solutions for fixing defects during the warranty period.

2.3. Providing project performance guarantees

The tenderer must demonstrate guaranteed parameters (specific consumption and finished product quality) of the new unit in a performance test planned for a period of 72 hours after commissioning and stable operation of the unit, within a period of 120 days after the signing of report of putting the installation in operation.

3. TECHNICAL DESCRIPTION OF THE INVESTMENT OBJECTIVE

3.1. Project context and objectives

CHIMCOMPLEX S.A BORZEȘTI obtained as BENEFICIARY, the financing contract no. 40 of 04.12.2024 based on H.G. no. 300/2024 within the framework of the "State aid scheme with the objective of regional development by stimulating the investments realization" for the implementation of the project "THE ESTABLISHMENT OF A NEW POLYEPOXIDE PRODUCTION UNIT IN CHIMCOMPLEX SA COMPANY"

The general objective of the project consists in the realization of a manufacturing unit of polyepoxide based on epichlorohydrin.

The technology to produce epichlorohydrin from biogenic glycerin is efficient and sustainable. The epichlorhydrin produced must be of the best quality and the resulting brine must be of high purity.

Taking as raw material for the manufacture of epichlorohydrin, biogenic glycerin (a by-product from biodiesel plants) and not propylene, it is obtained:

- reducing the carbon footprint of approximately 2.56 tons of CO2/ton of epichlorohydrin.
- reducing the amount of wastewater generated from 40 to 5 t/t of epichlorohydrin.

The technologies that will be implemented in the project for the production of polyepoxide ensure a closed loop by:



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- purification of the resulting brine and its recirculation in the membrane electrolysis plant;
- treatment of liquid waste and gaseous emissions through incineration and energy recovery.

Thus, the present project must adopt a sustainable technology (which consumes raw materials from renewable sources, realizes low consumption of resources/utilities, with low pollutant emissions) thus presenting a series of advantages:

- > Closed loop technology with optimal integration of the Membrane Electrolysis Plant;
- > Energy efficiency due to internal steam production and resource recovery;
- > Internal treatment and purification unit of the resulting brine will lead to obtaining raw material that can be integrated into the general flow of Chimcomplex
- > High quality products;
- > Reliable production facility with low pollutant emissions;
- ➤ Compliance with the current requirements of the European Union in terms of environmental protection (use of organic raw materials and circular economy).

3.2. The investment location

The location of the investment is located outside the protection perimeter of historical and architectural-urbanistic values. Space intended for future investment is owned by Chimcomplex SA Borzesti.



Site Information:

- Site altitude: 208.5 m (above sea level);
- Climatic data:



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- barometric pressure: approx. 1013 mbar (760 mmHg);
- environmental temperature (min/max): -29.6°C (winter)/+39.8°C (summer);
- average annual temperature: + 8°C to + 9°C;
- relative humidity: min 60% / max 90%;
- multiannual average precipitation: 50.9 l/m²;
- snow load: 2.5 KN/m²;
- wind: pressure = 0.5 KPa (at 10 m height above the ground), speed = 35 m/s (at 10 heights above the ground), predominant direction NNW;
- Seismic data:
 - peak horizontal ground acceleration (a): 0.28g;
 - corner period (Tc): 0.7 sec;
 - average recurrence interval: 100 years;
 - MSK/Mercalli scale: grade VIII;
 - a) Relations with neighboring areas, existing access roads and/or possible access roads

CHIMCOMPLEX S.A Borzesti is located about 8 km southeast of the Oneşti town, in the southern sector of the Tazlău-Caşin depression. The company is located on the Borzeşti Industrial Platform, in its eastern part, with the following objectives nearby:

North-West: Termoelectrica - Borzeşti Electrocentrale Branch CET 1

South-East: agricultural land, Ştefan cel Mare village

East: Trotuş river, about 800 - 1000 m

North – East: agricultural land Gura – Văii village

b) pollution sources existing in the area;

Manufacturing facilities are in operation on the site producing chlorosodium, inorganic chlorides and alkylamines, regulated by integrated environmental authorization. The installation is IPPC and complies with the legal provisions applicable at the European level. Technologies used are BAT.

- c) the existence of some:
- building networks in the location that would require relocation/protection, to the extent that they can be identified;

There are no networks that would require relocation/protection.

- possible interference with historical/architectural monuments or archaeological sites on the site or in the immediately adjacent area; the existence of specific conditions in the case of the existence of protected or protection areas;

It's not necessary.



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The project will be carried out on the industrial platform, on a land belonging to Chimcomplex SA Borzesti, being outside the areas with historical monuments/architecture and at a distance from protected natural areas.

- lands belonging to institutions that are part of the defense system, public order and national security;

It is not necessary.

d. geophysical characteristics of the land intended for the location of the unit

2.2. The configuration of the cilvonovide production unit based on on

It will be done before the start of construction work.

3.3. The configuration of the oilyepoxide production unit based on epichlorohydrin synthesis

The configuration of the polyepoxide production unit based on epichlorohydrin it is:

- 1) epichlorohydrin synthesis plant;
- 2) polyepoxide synthesis plant comprising lines/plants for the production of base liquid polyepoxide, solid polyepoxide, solvent polyepoxide, modified polyepoxide;
 - 3) Reactive diluent plant
 - 4) Brine treatment plant
 - 5) Waste incineration plant
 - 6) Utilities unit

The wastewater resulting from the production units will be treated, so that it can be discharged to the existing local treatment station on the platform.

Design data of the polyepoxide production unit

Design data	Technical parameters
Plant capacity epichlorohydrin synthesis	26,000 t/year epichlorohydrin
Plant capacity basic polyepoxide synthesis Plant capacity solid polyepoxide synthesis Plant capacity modified polyepoxide synthesis Plant capacity polyepoxide in solvent synthesis	24,000 t /year basic polyepoxide 10,000 t/year solid polyepoxide 10,000 t/year modified polyepoxide 6,000 t/year polyepoxide in solvent
Plant capacity reactive diluent	4,000 t/year reactive diluent
Plant capacity brine treatment	According to the brine outputs from the manufacturing units: epichlorohydrin, and polyepoxides, reactive diluent.



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Plant capacity waste incineration	According to the waste outputs from the manufacturing units: epichlorohydrin, polyepoxides, reactive diluent and brine treatment.		
Utilities unit	Will ensure the utilities necessary to the manufacturing process		
Operating time	8300 h/year		
The flexibility of the installations	50-100% of the nominal capacity		

Note: the polyepoxide production unit also includes the HCl gas synthesis plant, but this is not the subject of this tender book.

3.3.1. Epichlorohydrin synthesis plant

The designed unit must produce 26,000 t/year (operating time 8300 h/year) of epichlorohydrin according to the technical specification:

Parameter	U.M	VALUE
Purity	mass %	≥ 99.9
Appearance		Clear colorless liquid
Water content	mass %	max.0.02
Organochlorine impurities content	mass %	Max. 0.2
Chroma	Hazen	<15
Specific weight at 20 °C	-	1,179-1,185

3.3.1.1 Raw materials:

A) Glycerin according to the technical specification

Parameter	UM	Value
Glycerin content	mass %	≥99.5
Appearance		clear
Acidity or alkalinity	ml NaOH 0.1N	≤0.2
Refraction index	(nD20)	1,470-1,475
Esters	ml of 0.1N HCl	≥8
Impurities	mass %	≤ 0.1
Halogenated compounds	ppm	≤ 35
Chloride	ppm	≤ 10
APHA-color	ASTM D1209	≤ 10 or ≤ 30 (technical use)
Density at 20 °C	g/cm ³	1,260-1,264

B) HCl gas





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The beneficiary will provide at the limit of the battery at a pressure of 2.3-2.5 bar and a temperature of 80-120 $^{\circ}$ C HCl gas having the following composition:

Parameter	U.M	Value
HCI	volume %	>94.6
H ₂	volume %	<4
H ₂ O	volume %	2.47
Cl ₂	ppm	<5
CO ₂	volume %	0.39
N ₂	volume %	0.042

The other raw materials necessary to carry out the technological process will be defined by the tenderer. The beneficiary will analyze the flow of necessary materials and will consider the most advantageous offer from the point of view of ensuring the quality of the finished product and the impact on the environment.

3.3.1.2 Utilities available and which will be used in the unit:

Saturated steam:

- pressure: 9-12 bar(g);

- temperature: 180°C - 190°C;

Instrumental air:

- pressure: 4 - 5.5 bar(g);

- temperature: Ambiente

- without oil: Yes;

- dust free: yes;

- dew point : -30°C

Electricity:

- supply with 6.3 KVAC (if necessary);

- 380VAC power supply +/- 15% /50Hz /3 phases;

- 220VAC supply +/- 15% /50Hz/1 phase;

Natural gas:

- pressure: 1 -2 bar(g);

- composition $CH_4=92$ to 99.4%, C2=0.02 to 3%, C3=0.02 to 2%, C4= max. 1%, $N_2=0.2-3$ %;

- lower calorific value: 10500 -12000 Kcal/Kg;





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Chimcomplex SA Borzesti will provide other necessary materials (demineralized water, HCl solution 33%, NaOH 32%, NaOH 50%) at the battery limit.

• HCI min.33% solution

Parameter	U.M	Value
Appearance	-	Clear liquid
Color		colorless or slightly yellowish liquid
HCI content	%	Min.33%
Iron content	%	Max. 0.002

NaOH 50% solution

Parameter	U.M	Value
Appearance	-	Clear, colorless
NaOH content	%	min. 48%
NaCl content	mg/kg	max. 170
Chlorate content (NaClO ₃)	mg/kg	exceeding 50
Iron content	mg/kg	max. 5
Nickel content	mg/kg	max 1

Demineralized water

Parameter	U.M	Value
Appearance	-	Clear colorless liquid
Conductivity	μS/cm	Max. 5
SiO 2 content	ppm	max. 0.05
pH	united pH	7 ± 1.5
Iron content	ppm	max.0.2
Total hardness (as CaO)	mg/l	max.0.1
Pressure	bar	6
Temperature	٥C	>18 °C

If other utilities are needed, they will be defined by the tenderer, being included in the purpose of the technology supplier.

3.3.1.3. Environmental aspects

The wastw water discharged from the epichlorohydrin synthesis plant will be treated in compliance with the Implementing Decision (EU) no. 902/2016 establishing conclusions regarding the best available techniques (BAT) for common waste water treatment/management systems and waste gases in the chemical sector, pursuant to Directive 2010/75/EU of the European Parliament and of the Council.

Air emissions generated from the unit will comply with the provisions of *Commission Implementing Decision (EU) no. 2427/2022*, establishing conclusions on the best available techniques (BAT), based on Directive 2010/75/EU of the European Parliament and of the Industrial Emissions Council, for common waste gas management and treatment systems in the chemical sector.



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For waste of any type resulting from the technological process (in liquid or solid form), the tenderer will have to provide as much as possible integrated solutions for their recycling, reuse, treatment and management within the battery limit, and if this is not posible, to indicate potential solutions for the management of these wastes outside the battery limit before their disposal in authorized landfills.

In the case of waste water, the tenderer will have to provide as much as possible integrated solutions for their treatment and management inside of thebattery limit, and if this is not possible to indicate potential solutions for the management of this waste water outside the baterry limit before discharge in the local treatment plant existing on the site.

3.3.2. Polyepoxide synthesis plant

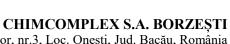
The polyepoxide synthesis plant comprising lines/plants for the production of basic liquid polyepoxides, solid polyepoxides, solvent polyepoxides, modified polyepoxides and must produce:

Basic liquid polyepoxide	24,000 t /year
(with low, intermediate and high viscosity)	
Solid polyepoxide	10,000 t/year
Modified polyepoxide	10,000 t/year
Polyepoxide in solvent	6,000 t/year
Operating time	8300 h/year

The unit designed with the related lines must produce finished products in accordance with the technical specifications, but not limited to them, namely:

Polyepoxide based on Bisphenol A

	U.M	Value	
Viscosity at 25°C	Pa.s	8-10	
Epoxy equivalent	g/Equiv	175-185	
Hydrolyzable chlorine	ppm	≤150	
Non-volatile compounds	%	>99.9	
Color	APHA	≤15	
	U.M	Value	
Viscosity at 25°C	Pa.s	9-13	
Epoxy equivalent	g/Equiv	182-192	
Color	Gardner	≤1	
	U.M	Value	
Viscosity at 25°C	Pa.s	11-14	
Epoxy equivalent	g/Equiv	185-190	
Hydrolyzable chlorine	ppm	≤150	
Non-volatile compounds	%	>99.9	
Color	APHA	≤15	





	U.M	Value	
Viscosity at 25°C	Pa.s	11-14	
Epoxy equivalent	g/Equiv	184-189	
Hydrolyzable chlorine	ppm	≤150	
Non-volatile compounds	%	>99.9	
Color	APHA	≤15	
Inorganic chlorine content	% w/w	≤0.02	
Iron content	ppm	≤1	
Sodium content	ppm	≤3	_

Polyepoxide based on bisphenol F

	U.M	Value
Viscosity at 25°C	Pa.s	2.5-4.5
Epoxy equivalent	g/Equiv	165-173
Color	Gardner	≤1

Novolac polyepoxide

	U.M	Value
Viscosity at 25°C	Pa.s	9-13
Epoxy equivalent	g/Equiv	170-182

Solid polyepoxide

	U.M	Value	
Viscosity at 25°C	Pa.s	5-10	
Epoxy equivalent	g/Equiv	450-500	
Density at 100°C	g/cm ³	1.19	
Non-volatile compounds	%	>99.5	
Color	Gardner	≤0.2	
Melting point	°C	50-70	
Softening temperature	⁰Pa.s	72-85	
	U.M	Value	
Viscosity at 25°C	Pa.s	14-18	
Epoxy equivalent	g/Equiv	800-900	
Density at 100°C	g/cm ³	1.19	
Non-volatile compounds	%	>99.5	
Color	Gardner	≤0.2	
Melting point	°C	75-95	
Softening temperature	⁰Pa.s	5	

Polyepoxide in solvent

	U.M	Value
Viscosity at 25°C	mPa.s	7500-11000
Epoxy equivalent	g/Equiv	450-500
Density at 20°C	g/cm ³	1.09
Non-volatile compounds	wt %	74-76
Color	Gardner	<0.2
	U.M	Value



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Viscosity at 25°C	Pa.s	7.5-11.5
Epoxy equivalent	g/Equiv	450-500
Color	Gardner	<2
Description	-	Bisphenol A polyepoxide, 75%wt in xylene

Modified polyepoxide

	U.M	Value
Viscosity at 25°C	Pa.s	0.5-0.9
Epoxy equivalent	g/Equiv	165-180
Description	-	Bisphenol A based polyepoxide,
		bifunctional reactive diluent
	U.M	Value
Viscosity at 25°C	Pa.s	1.0-1.3
Epoxy equivalent	g/Equiv	170-185
Description	-	Bisphenol A based polyepoxide,
		bifunctional reactive diluent

3.3.2.1. Raw materials

A) Epichlorohydrin according to the technical specification

Parameter	U.M	VALUE
Purity	mass %	≥ 99.9
Appearance		Clear colorless liquid
Water content	mass %	max.0.02
Organochlorine impurities	mass %	Max. 0.2
Chroma	Hazen	<15
Specific weight at 20 °C	-	1,179-1,185

B) Bisphenol A/F

Parameter	U.M	VALUE
Purity	mass %	>99.7 (p-p' isomer)
Phenol content	ppm	<80
Iron content	ppm	0
Color	APHA	<10
Water content	% masses	<0.4
Methanol content	ppm	<200

The other raw materials necessary to carry out the technological process will be defined by the tenderer. The Beneficiary will analyze the flow of required materials and consider the most advantageous offer from the point of view of ensuring the quality of the finished product and the impact on the environment.





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3.3.2.2. Utilities available

The available utilities that can be used in the unit are presented at the point 3.3.1.2.

If other utilities are needed, they will be defined by the tenderer, being included in the purpose of the technology supplier.

3.3.2.3. Environmental aspects

The waste water discharged from the polyepoxide production unit will be treated in compliance with the Implementing Decision (EU) no. 902/2016 establishing conclusions regarding the best available techniques (BAT) for common water treatment/management systems waste and waste gases in the chemical sector, pursuant to Directive 2010/75/EU of the European Parliament and of the Council.

Air emissions generated from the unit will comply with the provisions of *Commission Implementing Decision (EU) no. 2427/2022*, establishing conclusions on the best available techniques (BAT), based on Directive 2010/75/EU of the European Parliament and of the Industrial Emissions Council, for common waste gas management and treatment systems in the chemical sector.

For waste of any type resulting from the technological process (in liquid or solid form), the tenderer will have to provide as much as possible integrated solutions for their recycling, reuse, treatment and management within the baterry limit, and if this is not possible to indicate potential solutions for the management of these wastes outside the baterry limit before their disposal in authorized landfills.

In the case of waste water, the tenderer will have to provide as much as possible integrated solutions for their treatment and management inside of the baterry limit, and if this is not possible to indicate potential solutions for the management of this waste water outside the baterry limit before discharge in the local treatment plant existing on the platform.

3.3.3. Reactive diluent plant

The designed plant must produce 4,000 t/year (operating time 8300 h/year) of reactive diluents in accordance with the technical specification, but not limited to:

	U.M	Value	
Viscosity at 25°C	mPa.s	15-25	
Epoxy equivalent	g/Equiv	140-160	
Density at 20°C	g/cm ³	1.06	
Alcohol	-	1,6 hexanediol	
	UM	Value	
Viscosity at 25°C	UM mPa.s	Value 5-10	
Viscosity at 25°C Epoxy equivalent			
	mPa.s	5-10	



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	UM	Value
Viscosity at 25°C	mPa.s	12-22
Epoxy equivalent	g/Equiv	125-145
Density at 20°C	g/cm ³	1.11
Alcohol	-	1,4 butanediol

3.3.3.1. Raw materials

Epichlorohydrin according to the technical specification from point 3.3.1.

The other raw materials necessary to carry out the technological process will be defined by the tenderer. The Beneficiary will analyze the flow of required materials and consider the most advantageous offer from the point of view of ensuring the quality of the finished product and the impact on the environment.

3.3.3.2. Utilities available

The available utilities that can be used in the unit are presented at the point 3.3.1.2.

If other utilities are needed, they will be defined by the tenderer, being included in the purpose of the technology supplier.

3.3.3.3. Environmental aspects

The waste water discharged from the reactive diluent plant will be treated in compliance with the Implementing Decision (EU) no. 902/2016 establishing conclusions regarding the best available techniques (BAT) for common water treatment/management systems waste and waste gases in the chemical sector, pursuant to Directive 2010/75/EU of the European Parliament and of the Council.

Air emissions generated from the unit will comply with the provisions of *Commission Implementing Decision (EU) no. 2427/2022*, establishing conclusions on the best available techniques (BAT), based on Directive 2010/75/EU of the European Parliament and of the Industrial Emissions Council, for common waste gas management and treatment systems in the chemical sector.

For waste of any type resulting from the technological process (in liquid or solid form), the tenderer will have to provide as much as possible integrated solutions for their recycling, reuse, treatment and management within the baterry limit, and if this is not possible to indicate potential solutions for the management of these wastes outside the baterry limit before their disposal in authorized landfills.

In the case of waste water, the tenderer will have to provide as much as possible integrated solutions for their treatment and management inside of the baterry limit, and if this is not possible to indicate potential solutions for the management of this waste water outside the baterry limit before discharge in the local treatment plant existing on the platform.





3.3.4 Brine treatment plant

The designed unit must ensure the treatment of all impure brine flows resulting from the entire production units such as: epichlorohydrin synthesis, polyepoxides and reactive diluent.

Treatment and purification brine unit capacity: 24 m³/h

Operating time: 8300 h/year

The technical specification of the impure brine flow is:

Parameter	U.M	Value
NaCl content	mass %	15-18
TOC	ppm	3000-40000
COD	ppm	10000-18000
organic components		MCH, DCH, epichlorohydrin, toluene, trichloropropane

After the treatment and purification, a purified brine will result according to the specification:

Component	U.M	Value
pН	unități pH	8,5-10,5
TOC	ppm	≤ 7
Na ₂ CO ₃	g/l	0,06
NaOH	g/l	<0.004
Sulphate (as Na ₂ SO ₄)	g/l	10
Ca	g/l	0,3
Mg	g/l	0,04
Al	ppb	<10
As	ppm	<0,5
Ва	ppm	<0,1
Sb	ppm	<0,2
Cd	ppm	<0,2
Co	ppb	<10
Cr	ppm	<0,1
Cu	ppm	<0,1
Fe	ppb	<50
Hg	ppb	<100
Mn	ppm	<0,2
Мо	ppm	<0,2
Ni	ppb	<10
Pb	ppb	<50
Sb	ppb	<8,4
SiO ₂	ppm	<5
Sr	ppb	<400
Zn	ppm	<0,2
1	ppb	<200
F	ppm	<1
Chlorate (as NaClO ₃)	g/l	4
Sulfide	ppm	0,34
Chlorine	ppm	lipsa
NH ₄ +	ppm	≤2.4
Turbidity	NTU	≤64



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Thus, the brine purified in this unit will be able to be integrated into the existing flow of the Membrane Electrolysis Plant.

The final purified brine storage vessels must ensure a storage capacity of at least 20 hours.

Air emissions generated from the unit will comply with the provisions of *Commission Implementing Decision (EU) no. 2427/2022*, establishing conclusions on the best available techniques (BAT), based on Directive 2010/75/EU of the European Parliament and of the Industrial Emissions Council, for common waste gas management and treatment systems in the chemical sector.

3.3.5. Waste incineration plant

The designed plant must ensure the treatment of all gaseous and impure liquid flows resulting from the other units such as: epichlorohydrin synthesis, polyepoxide, reactive diluent and brine treatment. Organic compounds will be converted mainly to CO₂, H₂O and HCI.

Waste incineration plant capacity: 5600 Nm³ /h waste

Operating time: 8300 h/year

Liquid residues can represent between 30-45% of the total amount of incinerated residues having the following component:

Component	U.M	Value
MCH		2
DCH		1
Solvent		7
Polymers	mass %	6
Polyepoxides		2
Nacl		12
Water		6

Gaseous residues can have the following composition:

Component	U.M	Value
alcohols		≥ 3
epichlorohydrin		≥1
Chlorinated solvents	mana 0/	>0.2
СО	mass %	≤3
HCI		< 1
Inert (H ₂ O, O ₂ , CO ₂ , N ₂)		REST



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Air emissions from the waste incineration unit must comply with Commission Implementing Decision (EU) 2019/2010 establishing conclusions on best available techniques (BAT) under Directive 2010/75/EU of of the European Parliament and the Council, for waste incineration, namely:

Parameter	U.M	Value
TCOV (Total Volatile Organic Carbon Content)	mg/Nm3	<3-10
HCI	mg/Nm3	<2-6
Н	mg/Nm3	<1
SO ₂	mg/Nm3	5-30
Powders	mg/Nm3	<2-5
NOx	mg/Nm3	50-120
CO	mg/Nm3	10-50
NH3	mg/Nm3	2-10
PCDD/F (polychlorinated p-dibenzodioxins and polychlorinated dibenzofurans)	ng/m ³	< 0.01-0.04
PBDD/F (p-dibenzodioxins and polybrominated	ng/m ³	< 0.01-0.06
dibenzofurans) + dioxin-type PCBs		
Cd+Ti	mg/Nm3	0.005-0.02
Sb+As+Pb+Cr+Co+Cu+Mn+Ni+V	mg/Nm3	0.01-0.03

Incineration unit must be complete, and if this is not possible, tenderer will have to provide as far as possible integrated solutions for the management of incineration waste within the baterry limit, and if this is not possible, indicate potential solutions for their management outside the baterry limit before their disposal in authorized depots.

In the case of waste water, tenderer will have to provide as far as possible integrated solutions for their treatment and management inside the baterry limit, and if this is not possible indicate potential solutions for the management of this waste water outside the baterry limit before discharge in the existing waste water treatment plant.

3.3.6 Utilities unit

The utilities necessary for the operation of these installations will be provided by the Utilities unit where cooling water, chilled water, compressed and instrumental air and oxygen will be produced. The Utilities unit will also the power station unit. Thus, the tenderer must indicate the type and quantity of utilities required for the plants.





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3.4. Automatic control system of the technological process

The production process will use the distributed control system (DCS).

The control process of the production unit will also include:

- The instrumented safety system that will ensure that the plant is stopped safely in the event of shut-down or interlocks (exceeding critical parameters). This system will have real-time communications with the DCS system.
 - Detection, alarm and protection system in operation with flammable/toxic gases

This system is independent of the DCS and other systems. The system will be capable of receiving flammable/toxic gas detection and alarm signals (from facility area, intermediate/final storage area, building area, etc.) and initiates related interlocks. This will transmit real-time communications to the DCS, and the alarm status can be displayed, recorded/printed in the DCS.

The control system must be sufficiently redundant and provide an interface with the production management program and the beneficiary's central control system - SCADA

The tenderer will provide all the necessary data for process control in the distributed control system, interlocking logic, control loops, process control philosophy, cause-effect diagram, interlocking diagram.

4. Delivery

4.1. The offers delivery

The offer can be sent in english or romanian language, electronically and printed on paper, in a sealed envelope at the register of Chimcomplex S.A Borzesti, Str. Industriilor no. 3, Onesti Bacau attention: Anamaria Mardaru – Chief Engineering Office

On the envelope will be mentioned:

- 1. Tenderer name and address
- 2. Project name: THE ESTABLISHMENT OF A NEW POLYEPOXIDE PRODUCTION UNIT IN CHIMCOMPLEX SA COMPANY
- 3. DO NOT OPEN UNTIL 08.01.2025 at 13:00.

The deadline for submitting the offer is 08.01.2025 at 12.00.

All the offers will be open on the 08.01.2025 at 13:00.

The paper offer will be accompanied by a memory stick that will include the entire offer in pdf format.

The envelope will contain 3 distinct envelopes:

- The envelope with the qualification documents of the company according to chapter 5.1
- The envelope with the technical offer and the proposed schedule;





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- The envelope with the commercial offer that will include the total and detailed price per component according to chapter 2.

The tenderer **can visit the site** within a maximum of 4 calendar days from the date of publication of the announcement on the Chimcomplex S.A website.

The tenderer can send requests for clarifications only later than 3 calendar days before the deadline for submitting the offer. The beneficiary will respond to requests for clarifications received from tenderer in maximum 2 calendar day from received the requests for clarifications.

Offer will be signed by the REPRESENTATIVE legal of the tenderer.

Offer must arrive before or on the date of deadline.

The offer for which it finds non-compliance with the provisions describe above will be rejected.

4.2. Delivery of technical documentation

The tenderer declared the winner will deliver the following documents:

- License, know-how (including manufacturing recipes) for each component of the plant;
- The schedule of the activity contracted;
- > Basic engineering, technical design, for each component of the plant;
- ➤ Deliverable list from chapter 2.1:
- > The technical assistance will be presented at requested stages:
- Approve the detailed engineering carried out by the beneficiary;
- Participates in any other activity that is provided for in the legislation in force regarding technical assistance from the designer and was not specified in the documentation:
- Ensure the participation at the tests for commissioning, normal and stable operation of the facility;
- Ensure participation at the performance test
- Develop and participate at the Training Program for the operating personnel of the production unit;
- Develops solutions for fixing defects during the warranty period.

All deliverables must comply with the provisions regarding technical request mentioned in chapter 3 and applicable standards: SR EN ISO, the laws and technical regulations in the force in the European Union (EU), EU ATEX Directives.

The tenderer will make the design documentation (BD, PT, technical specifications of the equipment) available to the beneficiary within a maximum of 5 months from the date of signing and entry into force of the contract.





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The tenderer will notify beneficiary with 5 days in the advance regarding the delivery steps and the documents which will be delivery.

All documents and manuals will be sent in editable electronic format, pdf and autocad and in 3 printed copies.

The Beneficiary will notify the Tenderer in 5 days in advance of the data when attendance is requested for the performance of contractual technical assistance.

5. Offer presentation

5.1 Demonstration of the tenderer technical capability

The tenderer will present a list of reference work with similar projects made in the last 10 years, from which to see at least one similar project (production of epichlorohydrin and polyepoxides). In the list of reference, it will specify: the title the project, the beneficiary, the value the work, the beginning year and the end of the project, the current stage of the project (under construction, in operation), the contact person from the beneficiary and the role played by the tenderer in the project.

The tenderer guarantees the design quality in accordance with the national and international norms of good engineering practice and technical standards in force in Romania and the European Union, from a technical point of view and environmental regulations and BAT (Best Available Technology).

The tenderer will have in the view that after award, in the contract that will be concluded between the parties, he will have the obligation to provide a bank letter of Good Execution Guarantee of 10% of the value of the contract without VAT or an insurance instrument for the guarantee of good execution of the contract. Period of guarantee it will extend with period of the correction of failing found during the period of guarantee of minimum 24 months.

Minimum eliminatory requirements (mandatory to be demonstrated by each tenderer):

The tenderer must have an average turnover over the last 3 years (2021-2023) of at least 15 million EURO.

The financial exercises for the years 2021-2023 must be positive.

The maximum value of the offer according to the requirements of chapter 2 will not exceed 11.5 million EURO (excluding VAT).

Completing the statement on avoiding conflict of interest - Annex 1

The offer that does not comply with this requirement will be rejected. If all the offers received do not comply with this requirement regarding the maximum value of the offer, the procedure will be cancelled.





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5.2. Technical offer

The tenderer must send the technical offer in romanian or english language, in two original copies and a memory stick that will include the offer in pdf format.

The validity period of the offer must be at least 60 days.

Technical offer must to includes: the technical solution proposed taking into account the project described in chapter 3, the requirements of chapter 2, chapter 4.2, as well as the detailed plot plan.

5.3. Financial offer

Financial offer will include:

- the total price expressed in EURO or LEI, the distinct value by types of activities described in chapter 2;
- the detailed technical assistance price according to chapter 2.2 and 4.2

The technical assistance will be quoted as number of specialists, number of days per specialist and the total price will be quoted with the detailing specified and for the stages mentioned above.

Technical assistance will be billed separately after milestones, based on daily activity report, as the case and at the end of the performance period.

payment methods proposed;

100% advance payment is not accepted. Any advance payment is made on the basis of the Bank Guarantee Letter for the refund of the advance, sent to the beneficiary by the issuing bank via bank SWIFT (details will be made in the contract with the awarded bidder).

The period for delivery the basic engineering will not exceed 6 months from the date of signing and entry into force of the contract - the date on which the letter of bank guarantee for the return of the advance is received.

The guarantee of good execution of the project in the amount of 10% of the proposed value of the contract will not include the value of the technical assistance.

The maximum value of the offer according to the requirements of chapter 2 will not exceed 11.5 million EURO (excluding VAT).

6. Documents analysis of the tender request

The tenderer has the obligation to analyze all received documents and elaborated documents (clarifications).

The tenderer must have in the possession or to get the access to the international and local standards, norms, regulations.

The tenderer will immediately inform the beneficiary of any existing contradiction, ambiguity and/or omission in the tender book.





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The tenderer will assume the risk in the event non-compliance with the requirements of this specification.

Beneficiary it has the right to request in writing, clarifications of the offer, after receiving offers, in during the process of offers assessment.

The beneficiary will not be held liable for the costs or expenses incurred by the tenderer regarding the execution of the bid, the analysis of the contract in any of the cases in which the tenderer is the winner or the loser.

The beneficiary will not be made responsible and in the consequence tenderer will not claim compensations if the beneficiary awards the contract according to the award criteria of chapter 10, cancels this procedure before the deadline or decides not to award the execution of the project any of the tenderers.

7. The questions of tenderer

All questions/clarifications from tenderer, inclusive the contradictions found in the tender book will be transmit on beneficiary email (contact addresses: catalina.ionescu@chimcomplex.com; anamaria.mardaru@chimcomplex.com).

The text of the questions and answers will be distributed as an auxiliary document of the offer.

The tenderer can send requests for clarifications only later than 3 days before the deadline for submitting the offer.

The beneficiary will respond to requests for clarifications received from tenderer in maximum 2 calendaristic days after receiving the request for clarifications.

8. Site visit

In the period of development of the offers, it is recommending that the tenderer to make a visit in the site to know the magnitude and nature of the project, its location and access, the conditions under which it will be executed the works and other aspects that can influence the offer.

Beneficiary not will do not pursue any complaint due to insufficient knowledge of what is described above.

The tenderer can visit the site within a maximum of 4 calendar days from the date of receipt of the bid request.

9. Confidentiality of the documents

The tenderer will consider as confidential, permanently, the documents received, as well as their content. These documents can be used by the tenderer only for the purpose of drawing up the offer for the works and will not be transmitted to third parties unless this becomes necessary in order to draw



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up the offer. The third-party consultants for this purpose will be informed by the tenderer regarding the confidentiality of the documents related to the bid request and will be obliged to respect the confidentiality of the content of these documents.

The tenderer will not make any public statement regarding the documents related to the bid request without the written approval of the Beneficiary.

10. Contract award criteria

Will be applied the criterion of the most efficient offer from a technical-economic point of view/ the best quality-price ratio.

Evaluation factors		Percentage, %
1	Technical offer	50
2	Financial offer	50
TOTAL		100

Details regarding the application of the formula calculation for the total score:

P = (50% x F) + (50% x T) points

where:

Total P-score

F- score obtained as a result of the evaluation of the financial offer

T-score obtained as a result of the evaluation of the technical offer

F	Evaluation of FINANCIAL OFFER are made taking in consideration:	Max. 100 points
	The price that is compared for scoring is the total price, in EURO or LEI	
	without VAT	
F1	The maximum score of 80 points is awarded to the offer with the lowest	80
	price F _{min} (minimum price score)	
	For the offer with price (n), other than the minimum, the assigned score	
	will be determined as follows:	
	Fn= minimum offer price/offer price(n)*80	
	The maximum score of 10 points is given for the shortest delivery time	10
F2	For the offer with a duration (n), other than the minimum, the assigned	
	score will be determined as follows:	
	Fn=minimum duration/offer duration(n)*10	
	Payment methods	
	Advance payment of max. 30%. it will be done only on the basis of the	
	receipt of the bank guarantee letter for the advance refund which will	
F3	have a validity period of 30 days beyond the DDE delivery deadline.	



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	The tenderer who requests the smallest advance and subsequent	
	payments will receive 10 points, as follows:	
	- up to 50% of the value of the services required in point 2.1 this	
	percentage will be correlate with the advance percentage	10
	- 10% after the successful completion of the performance test	
	- the remaining 10% upon signing the final acceptance, i.e. at the end	
	of the project guarantee period (24 months from commissioning)	
	The technical assistance will be paid only after fulfilling the	
	specifications related to chapter 2.2 and the mentions in chapter 5	
	For the offer with advance(n), other than the minimum, the assigned score	
	will be determined as follows:	
	Fn=minimum offer advance/offer advance(n)*10	
	Fn=minimum offer advance/offer advance(n)*10 F= F1+F2+F3	
Т		Max. 100
	F= F1+F2+F3 SCORE TECHNICAL OFFER are made taking in consideration:	Max. 100 points
T	F= F1+F2+F3	
	F= F1+F2+F3 SCORE TECHNICAL OFFER are made taking in consideration:	points
	F= F1+F2+F3 SCORE TECHNICAL OFFER are made taking in consideration: The proposed technical solution considering the project described in	points
T1	F= F1+F2+F3 SCORE TECHNICAL OFFER are made taking in consideration: The proposed technical solution considering the project described in chapter 3 and the requirements of chapter 2	points 30
T1	F= F1+F2+F3 SCORE TECHNICAL OFFER are made taking in consideration: The proposed technical solution considering the project described in chapter 3 and the requirements of chapter 2 Integration of all units in the closed loop and ensuring process	points 30
T1	F=F1+F2+F3 SCORE TECHNICAL OFFER are made taking in consideration: The proposed technical solution considering the project described in chapter 3 and the requirements of chapter 2 Integration of all units in the closed loop and ensuring process performance	90ints 30 10
T1	F= F1+F2+F3 SCORE TECHNICAL OFFER are made taking in consideration: The proposed technical solution considering the project described in chapter 3 and the requirements of chapter 2 Integration of all units in the closed loop and ensuring process performance Internal treatment of liquid, solid and gaseous emissions so as to ensure	90ints 30 10

Elaborated by:

Similar projects (production of epichlorohydrin and/or polyepoxide) - 10 points will be awarded to the tenderer which presenting the largest

T= T1+T2+T3+T4+T5+T6

Technical assistance for the project implementation

Chief of Investments Dept. eng. Maria Ilie

diluent

number of similar projects

T5

Project Manager eng. Anamaria Mardaru



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Annex 1

Economic Operator		
(name, tax registration code, address)		

STATEMENT On avoiding conflict of interest

. •	, as	•	•			•
-	located at		-			
	according to the cer		` '			
procedure	, organize	ed by the be	eneficiary			, financed
through				under	the	project
	,	hereby d	leclare, on	my own	responsibility,	under the
sanction of false decla	arations as stipulated ir	n Article 32	6 of Law No	. 286/2009	9 on the Crimina	al Code and
Article 181 of Law No.	78/2000 on the prever	ntion, detec	tion, and sa	nctioning	of corruption of	enses, with
subsequent amendme	ents and completions,	the following	ng:			

- I undertake that during the implementation period and the sustainability period associated with the contract/decision/order/financing agreement for the above-mentioned project, I will not hire individuals who are spouses, relatives, or in-laws up to and including the second degree, nor will I contract legal entities that were involved in the verification/evaluation process of the financing applications within the selection procedure and/or in the process of monitoring/verifying/approving/payment/ reimbursement related to the contract/decision/order/financing agreement for the above-mentioned project. In this regard, I commit to requesting a declaration on their own responsibility from each individual I intend to hire and to verifying the list of legal entities that were involved in the verification/evaluation process of the financing applications within the selection procedure and/or in the process of monitoring/verifying/approving/payment/reimbursement related to the contract/ decision/order/financing agreement for the above-mentioned project.
- I commit to taking all necessary measures to avoid situations that could lead to a conflict of interest and confirm that neither as of the date of this statement nor within the 12 calendar months prior to this date do I know of any situations in which:
- there are/were any spouse relationships, family ties, or in-laws up to and including the second degree between the shareholders/administrators of the organization acting as the beneficiary and the shareholders/administrators of the economic operators acting as the bidder/ subcontractor/associate/third-party supporter,
- there are/were any spouse relationships, family ties, or in-laws up to and including the second degree between members of various committees or other responsible persons of the private beneficiary and the bidders/subcontractors/associates/third-party supporters,
- there are/were situations in which, at the level of the bidder/subcontractors/associates/third-party supporters or their administrators, there are natural or legal persons, autonomous or related, who





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individually or jointly hold more than 25% of the shares or social parts in two or more economic operators that have submitted separate bids in the current procurement procedure as bidders/subcontractors/associates/third-party supporters,

- there are/were situations in which the private beneficiary and one of the bidders/subcontractors/associates/third-party supporters have common beneficial owners, including spouses or beneficial owners with family ties or in-laws up to and including the second degree,
- gifts have been given/received or other forms of hospitality have been offered/accepted that exceed what would be considered customary/modest and, as a result, could be deemed an incentive.

I, the undersigned, declare that I will immediately notify the beneficiary if any changes occur in this statement and will take measures to resolve the conflict of interest as soon as possible.

I also declare that the information provided is complete and correct in every detail, and I understand that the beneficiary and public authorities have the right to request any additional information for the purpose of verifying and confirming this statement.

I understand that, if this declaration is not accurate, I may be liable for violating the provisions of the criminal legislation regarding false statements.

Date of completion:
(name and position of the authorized person)
(signature of the authorized person)