



KOZLODUY NPP EAD Kozloduy

Bulgaria, tel. +359 973 7 35 30, fax +359 973 7 60 27

To
ALL INTERESTED PERSONS

INVITATION FOR COMMERCIAL CONSULTATIONS NO. 40914

Dear Sir or Madam,

Kozloduy NPP EAD notifies all interested persons that in connection with the preparation for public procurement award and determination of a prognosis value, on the grounds of Article 44 of the Public Procurement Act (PPA), Kozloduy NPP EAD gathers indicative offers for "Delivery of pneumatic valves for implementation of projects for units 5 and 6".

The offers shall include:

- detailed description of the offered pneumatic valves for implementation of projects for units 5 and 6, in accordance with the enclosed technical specification;
- unit and total price excluding VAT, Currency;
- information about the term of delivery and delivery terms, warranty period;
- information about the manufacturer, catalogue information;
- representation document of the manufacturer /document from the manufacturer authorising the sale/;
- documents accompanying the goods at delivery:
 - passport
 - certificate of origin
 - quality certificate issued by the manufacturer
 - drawings and technical conditions
 - certificate of conformity
 - document indicating storage conditions and expiry date
- address and contact person, telephone, fax, e-mail, internet address.

Inquiries regarding the commercial consultations can be submitted not later than 16:00 h on 09 April 2019 on e-mail: commercial@npp.bg and the clarifications will be published on the buyer's profile - "Commercial consultations" section.

Deadline for submission of indicative offers: 16⁰⁰h on 15 April 2019 on e-mail: commercial@npp.bg.

The indicative offers and any other information exchanged in connection with the held commercial consultations will be published on the buyer's profile - "Commercial consultations" section.

By submitting an indicative offer each participant in the commercial consultations agrees that the offer and any other information provided as a result of the commercial consultations will be available to the public on the Kozloduy NPP EAD website.

The Contracting Authority reserves the right to use indicative offers, submitted for the held commercial consultations, for awarding public procurements up to the value thresholds as per Art. 20, para. 4 of the PPA.

For additional information, contact Georgi Kamenov – Marketing Specialist, tel. +359 973 7 2601, e-mail: georgik@npp.bg

Attachments:

1. Technical Specification
2. Standard form for Indicative offer

Katya Rusaliyska
Legal and Commercial A

Заличено на основание чл.2 от
ЗЗЛД



Technical Specification

For Delivery of locating pneumatic valves for units 5 and 6

1. Scope of the delivery

No.	Product name	Technical data	Measure /measurement unit	Quantity	Safety class	Seismic category	Quality class
1	Bellows valve with pneumatic actuator in a set with limit switches with cable, pneumatic distributor for control.	DN150/ PN40	set	3	2-Л	1	B
2	Pneumatic actuator for bellows valve DN150 PN40		pcs	1	2-Л	1	B
3	Gate valve with pneumatic actuator in a set with limit switches with cable, pneumatic distributor for control,	DN200 /PN40,	set	3	2-Л	1	B
4	Pneumatic actuator for gate valve DN200 /PN40		pcs	1	2-Л	1	B

2. Equipment classification

Pneumatic valves in sets under item 1. and item 3 of the table and the spare actuators under item 2. and item 4. shall comply with the following classification requirements:

- Safety class - 2-Л in compliance with “Общие положения обеспечения безопасности атомных станций”, НП-001-15;

- Seismic category - **1** in compliance with “Нормы проектирование сейсмостойких атомных станций”, НП-031-01, 2002 and in accordance with Attachment 1;
- Quality class - **B** in compliance with НП-089-15 “Правила устройства и безопасной эксплуатации оборудования и трубопроводов атомных энергетических установок”

3. Equipment qualification

Pneumatic valves in sets under item 1. and item 3 of the table and the spare actuators under item 2. and item 4. shall comply with the LOCA conditions:

- Temperature - up to /including/ 150°C
- Pressure - up to /including/ 0,49 MPa
- Humidity - steam and air mixture
- Absorbed dose rate - up to /including/ 104 Gy/h
- Volumetric activity - up to /including/ 9,25.10¹³ Bq/m
- Time of existence of the mode - up to /including/ 10 hours

During normal operation the pneumatic valves shall operate in environment condition as follows:

- Temperature - up to 60°C /including/;
- Pressure - from 0.085 to 0.103 MPa;
- Humidity - up to 90% /including/;
- Absorbed dose rate - up to 1Gy/h; /including/
- Volumetric activity - up to 7.4x10⁷ Bq/m /including/.

4. Regulatory and technical documentation

The pneumatic valves and the spare pneumatic actuators shall comply with the codes and standards enlisted below or other regulations and standards which conform to them:

- Правила устройства и безопасной эксплуатации оборудования и трубопроводов атомных энергетических установок НП-001-15;
- Нормы расчета на прочность оборудования и трубопроводов атомных энергетических установок НП-031-01;
- Трубопроводная арматура для атомных станций. Общие технические требования. НП-068-05;

-Оборудование и трубопроводы атомных энергетических установок. Сварка и наплавка. Основные положения ПНАЭГ 7-009-89;

-Оборудование и трубопроводы атомных энергетических установок. Правила контроля. Основные положения ПНАЭГ 7-010-89.

5. Technical characteristics

5.1. Parameters of the work environment of the pneumatic actuators and pneumatic distributors

- Temperature - above $+5 \div \leq +50^{\circ}\text{C}$;
- Pressure .- from $39 \div 46 \text{ kgf/cm}^2$;

5.2. Work environment of the pneumatic valve - boron solution with concentration of 16 g/l /water from the primary circuit/.

5.3. Time for closing of the pneumatic valve ≤ 10 seconds

5.4. **The pneumatic valves in sets** shall have lifetime not shorter than 40 years from the date of commissioning.

5.5. Body material: 1.4541 or analogous;

5.6. Joining - weld

5.7. The pneumatic valves shall allow installation at horizontal, vertical or inclined position of the pneumatic actuator;

5.8. The pneumatic actuators shall be in a set with limit switches for remote position signalisation. The switches of the limit switches shall be dimensioned for commutation at 220V AC 50Hz, current 1A.

5.9. The electrical components of the pneumatic actuators shall have protection grade IP65.

Information about which NPPs have been supplied with such pneumatic valves shall be enclosed in the offer.

General drawing /sectional/ of the valve and the pneumatic actuator.

Indicative offer on held commercial consultations No. 40914 on the following subject-matter: "Delivery of pneumatic actuators for locating pneumatic valves for units 5 and 6,
from

/name of the participant, UIC, address, telephone, e-mail, contact person, job position/

Item No.	Description and Technical characteristics of the Contracting Authority	Description and Technical characteristics of the offered product	Unit	Quantity	Unit price (w/o VAT)	Price (w/o VAT)
1	Bellows valve with pneumatic actuator in a set with limit switches with cable, pneumatic distributor for control. DN150 PN40. Safety class 2-JI, Seismic category 1		set	3		
2	Pneumatic actuator for bellows valve DN150 PN40. Safety class 2-JI, Seismic category 1		pcs	1		
3	Gate valve with pneumatic actuator in a set with limit switches with cable, pneumatic distributor for control. DN200 PN40. Safety class 2-JI, Seismic category 1		set	3		
4	Pneumatic actuator for gate valve DN200 PN40. Safety class 2-JI, Seismic category 1		pcs	1		
					Total (w/o VAT)	

Term of delivery

Delivery terms

Manufacturer

Accompanying documentation at delivery

Representation Document

Signature, seal