

KOZLODUY NPP EAD

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

**TO WHOM
IT MAY CONCERN**

CLARIFICATIONS

Re: Call for market consultation on the grounds of Article 44 of the PPA for the submission of indicative proposals for “Modernisation of fuel handling machines 5,6PL00E01, type MHC-B-1000-3M-Y 4.2”.

Dear Sirs/Madams,

Referring to the call for market consultation for the submission of indicative proposals for **“Modernisation of fuel handling machines 5,6PL00E01, type MHC-B-1000-3M-Y 4.2”** the following clarifications are provided:

Questions:

Question No. 1 In order to prepare the indicative proposal for market consultation No. 54258 “Modernisation of fuel handling machines 5,6PL00E01, type MHC-B-1000-3M-Y 4.2”, we would like you to provide us with the following additional information:

1. Layout of the cabinets of the fuel handling machines management system and cable routes in the operation control room with respect to other cabinets in the room, the apertures, passages, installation points, etc., indicating the respective dimensions to assess the possibility of a full-scale maintenance of the cabinets and the manners of their installation.
2. The dimensions of the existing cabinets, and justification of the need to replace the cabinets.
3. Manufactured length of the cable routes from the operation control room to the sealed penetrations, from the sealed penetrations to KSK cabinet in the central hall.
4. Plans of the premises, cable logs, filling of the sealed penetrations (availability of the required modules, determination if there is connection redundancy), availability/lack of cable tunnels for stationary cables laying, filling of cable routes in all laying areas to adopt the equipment to the current state of the reactor units.
5. Composition of the existing equipment of the fuel handling machines management system, software description and functions.
6. List and position of the end switches to be replaced, their characteristics.
7. Types and characteristics of the strain gauge indicators used.
8. Information on the composition and characteristics of the fuel handling machine electrical equipment which shall be connected to the cabinets of the fuel handling machine management system and which shall be managed (asynchronous motors or DC motors, etc.).
9. Requirements to the interfaces of the encoders and other sensors, requirements to the cables, signal receiving and processing modules, information about data transfer rate.
10. Information about the existing logic of redundancy, diagnostics, protection and interlocks to ensure its preservation.
11. Technical description of the operated drives to ensure their adjustment and dynamic tests.
12. Characteristics of the electric motors and parameters of the devices (speed, acceleration, load, coordinate accuracy, etc.).
13. Information about the range and the manner of speed adjustment of the drives.
14. Availability of sensors (built in encoders) at motor shafts used to determine the position of the device at the drive level and to ensure more precise positioning.

Answer to question No. 1

The main activities related to the modernisation of fuel handling machines include preparation of a detailed design which will be prepared after detailed examination of the current status of the device, and two separate designs will be prepared for units 5 and 6. The detailed design shall contain specific design modifications to an extent ensuring complete implementation of any installation works. The requested additional information may be provided to the Contractor upon procurement award as input data for the detailed design preparation. In order to prepare an indicative price quote under market consultation No. 54258, you shall meet the technical requirements specified in the market consultation.

Question No. 2 Taking into consideration that there are questions related to technical requirements, we would like to ask you to consider the possibility to further extend the deadline for submission of indicative proposals for market consultation No. 54258 until 30 September 2024.

Answer to question No. 2: The deadline for submission of indicative proposals for market consultation No. 54258 is extended to 30 September 2024.