

Kozloduy NPP Units 1-4 Decommissioning Programme and the National Disposal Facility

Country: Bulgaria
Sector: Nuclear safety
Project number: 17149
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Contract type: Project Goods, Works and Services
Notice type: General Procurement Notice
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In November 1999, the Bulgarian Government and the European Commission signed a Memorandum of Understanding, in which the Bulgarian Government undertook a firm commitment to close and decommission Units 1 - 4 of the Kozloduy Nuclear Power Plant (KNPP) at the earliest possible dates. The Kozloduy International Decommissioning Support Fund (KIDSF) has been established and is administered by the European Bank for Reconstruction and Development (EBRD). One of the purposes of this Fund is to finance, or co-finance preparation and implementation of selected projects, which would require procurement of Goods, Works and Services for modification of existing plant systems, design and construction of decommissioning facilities, including the National Disposal Facility, in an environmentally safe and cost effective manner, definition and procurement of dismantling and decontamination technologies and equipment.

State Enterprise Radioactive Waste (SERAW) is responsible for the Kozloduy NPP Units 1-4 Decommissioning Programme and the National Disposal Facility.

A Decommissioning-Repository Project Management Unit (D-R PMU) has been established in order to assist SERAW in the administration and management of the projects notified below.

This General Procurement Notice is an update to the General Procurement Notice, published on 18 January 2019. It draws attention to the following upcoming procurement activities:

Decommissioning Projects:

- **Provision of dismantling and fragmentation tools and equipment in Reactor and Auxiliary building (Project 13b and 13c)**

The project is for the supply and installation of tools and equipment required to undertake dismantling of civil structures, technological systems and associated equipment within the Controlled Areas of KNPP Units 1-4.

- **Design and implementation of Emergency Power Supply for the Consumers of Compressed Air and Nitrogen Station to the PMF (Project 32b-6)**

The project is for the design and implementation of an emergency power supply from an independent source for the compressed air and nitrogen station consumers to the Plasma Melting Facility (PMF). The scope of activities includes an integrated analysis of the consumers, design, construction activities, equipment procurement/supply of equipment, transportation, installation, inspection, tests, training, commissioning, elaboration of documentation for quality assurance and elaboration of the As-built documentation.

- **Installation of pipelines carrying aqueous solutions of ammonia and sodium hydroxide to PMF (Project 32b-7)**

The project covers the installation of pipelines to establish and ensure the periodical supply of aqueous solution of ammonia (NH₃) and aqueous solution of sodium hydroxide (NaOH) for the technological needs through direct connection of the Plasma Melting Facility (PMF). The scope of activities includes design, construction activities, equipment procurement/supply of equipment, transportation, installation, inspection, test, commissioning, elaboration of documentation for quality assurance and elaboration of the As-built documentation.

- **Procurement of a tanker for collection, transport, compliant storage and feed supply of the ammonia water and sodium hydroxide (reagents) needed for the operation of PMF (Project 32b-8)**

The project is for the supply of a road tractor for tank semi-trailer and a stainless steel tank with 25m³ capacity for collection, transport, compliant storage and feed supply of the ammonia water to establishing the continuous supply of aqueous solution of ammonia (NH₃) and aqueous solution of sodium hydroxide (NaOH) for the technological needs of the Plasma Melting Facility (PMF).

- **Power supply to facilities and buildings of Kozloduy NPP Plc. and SERAW (Project 35-1)**

The project is for the design and implementation of the new power supply infrastructure for Kozloduy NPP and SERAW. The scope of activities includes performance of an integrated analysis of the consumers at the Units 1-4 site, design, construction activities, procurement/supply of equipment, transportation, installation, inspection, tests, training, commissioning, elaboration of documentation to assist licensing, quality assurance and elaboration of the As-built documentation.

- **Fluid supply to facilities and buildings of KNPP Plc. and SERAW (Project 35-2)**

The project is for design and implementation of the new fluid supply infrastructure for Kozloduy NPP and SERAW. The scope of activities includes design, construction, procurement/supply of equipment, transportation, installation, inspection, tests, training, commissioning, elaboration of documentation to assist licensing, quality assurance and elaboration of the As-built documentation.

- **Supply of Loading and Transportation Equipment for Waste from Decommissioning of KNPP Units 1-4 (Project 38-3)**

The project includes supply of a skip container loader for transportation of skip containers, a truck having a medium series container body for transportation of construction waste, and compact wheeled loader for the loading of construction waste.

- **Supply and implementation Phase of Modernisation of SD "RAW-Kozloduy" to Receive and Process Decommissioning RAW (Project 48-2)**

This Project includes modernisation of the solid and liquid RAW treatment lines; RAW packaging line; obsolete auxiliary systems; providing new equipment for the manufacturing of Reinforced Concrete Containers (RCC); provision of equipment for transport and handling of RAW; provision of new equipment for storage of the conditioned RAW and the lime storage site.

The estimated total cost for the above projects is 31,58 Million Euros.

National Disposal Facility (Repository) projects

• **Site Preparation for Construction of National Disposal Facility**

This project includes the Preparation of Radiana site for the subsequent construction of the National Disposal Facility, including relocation of existing water channel, construction supervision and design supervision of the relocation.

• **Design and construction of multi-layer test cover of NDF at Radiana site**

This project includes development of the design for two variants for the multi-layer cover of the National Disposal Facility and implementation of the design at Radiana site.

• **Pre-disposal monitoring at Radiana site**

This project includes delivery, installation, commissioning and testing of meteorological monitoring equipment at Radiana Site.

• **Development of licensing documentation for commissioning of Phase 1 of the NDF**

This project includes development of licensing documentation for commissioning of Phase 1 of the NDF according to Bulgarian Nuclear Legislation, and for the operational licence of NDF Phase 1 issued by the Bulgarian Nuclear Regulator.

The estimated total cost for the above projects is 13,1 Million Euros.

Contracts to be financed with the proceeds of KIDSF Grant will be subject to the Bank's Procurement Policies and Rules and will be open to firms from any country. The proceeds of the KIDSF Grant will not be used for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations or under a law of official regulation of the Purchaser's country.

Interested suppliers, contractors and consultants should contact in writing:

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