



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

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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 SE (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 20 January 2016 and supplemented on 2 September 2016. It draws the attention to the following upcoming procurement activities:

Decommissioning Projects:

- **Facility for the Retrieval and Processing of the Solidified Phase from the Evaporator Concentrate Tanks (Project 9b – Phase II)**

This project is for the retrieval and treatment of historical radioactive waste – evaporator concentrate. The mentioned radioactive waste is characterized. The scope of the following steps is to retrieve the waste, reduce the volume and to treat into the form of solidified drums suitable for the conditioning and final disposal. The drums shall comply with the National Disposal Facility acceptance criteria.

- **Information Centre for Decommissioning (Project 20)**

This project is for the design, construction, furnishing, supply of equipment, testing and commissioning of the Information Centre for the Decommissioning of KNPP Units 1-4. The project will identify new media forms, models and equipment required for the purposes of the information campaigns concerning/introducing the Decommissioning activities.

- **Inventory, Treatment and Conditioning of Contaminated Soil (Project 23)**

This project is to carry out a survey of the KNPP decommissioning site, Units 1 to 4, and further remediation of contaminated soil based on approach approved by SERAW. The project includes characterization of the soils in accordance with this methodology and a proposal for potential strategies for storage or remediation.

- **Concrete Core Sampling Analyses (Project 24)**

This project is for the provision of services of a specialist contractor to carry out core sampling and analysis of concrete structures, e.g. the reactor pond walls and other structures which come into contact with contaminated water to determine the depth of any contamination to allow the decommissioning of the structures to be accurately planned.

- **Infrastructure separation between Kozloduy NPP and SERAW (Project 35)**

This Project governs design, equipment supply, installation and commissioning of utilities, needed for the separation of the external grids of the technical infrastructure of the station-wide buildings and facilities of Kozloduy NPP from SERAW.

- **Supply of Lifting and Transportation Equipment (Project 38)**

This project is for the procurement of an Engine Powered Lift Truck having 25t to 30t loading capacity to ensure safety effective and economically efficient transport of dismantled materials.

- **Back-up Power Supply for Units 1&2 and Dismantling of DGS-1 Equipment for Use of the Building for Decommissioning (Project 39 - Phase II)**

The project includes reconstruction of DGS-1 building and installation and commissioning of the necessary equipment.

- **Modernisation and Reconstruction of Special Division "RAW-Kozloduy" to Receive and Process Decommissioning RAW (Project 48)**

The project includes development of the Technical Design for the upgrade of the RAW Processing Plant and RAW Storage, handling and transport facilities; and respective update of Safety Analysis Report.

The estimated total cost for the above projects is 90 Million Euros.

National Disposal Facility (Repository) projects

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

Preparation of Radiana site for the subsequent construction of the National Disposal Facility, including relocation of existing water channel, construction of emergency pipeline from relocated water channel and design and construction of rainwater drainage connection to utility connection point, development of database.

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

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

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

- **Predisposal monitoring at Radiana site**

This project includes extension with 3 to 5 years of pre-disposal geodetic monitoring programme, radiological monitoring programme, hydrogeological monitoring and geochemical analyses programme, and implementation of seismic and meteorological monitoring programmes at Radiana site

The estimated total cost for the above projects is 2 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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