

FEDERAL GOVERNMENT OF NIGERIA
FEDERAL MINISTRY OF WATER RESOURCES AND SANITATION
SUSTAINABLE POWER AND IRRIGATION FOR NIGERIA (SPIN) PROJECT
IDA Credit No: IDA-76370

REQUEST FOR EXPRESSIONS OF INTEREST FOR CONSULTANCY SERVICES

RECRUITMENT OF DAM SAFETY REVIEW PANEL OF EXPERTS (DSRPOE)

The Federal Government of Nigeria on behalf of the Federal Ministry of Water Resources and Sanitation (FMWRS) has received financing from the World Bank toward the cost of implementing the Sustainable Power and Irrigation for Nigeria (SPIN) Project and intends to apply part of the funds for the engagement of Dam Safety Review Panel of Expert (DSRPOE).

The consulting services ("the Services") includes:

- i. Dams Safety/Dams Monitoring /Civil Engineering Expert to serve as Lead Expert of the Dam Safety Review Panel of Experts (DSRPOE)
- ii. Geological /Geotechnical Engineering Expert to serve as a member of the Dam Safety Review Panel of Experts (DSRPOE)
- iii. Operational Hydrology and Hydraulic Expert to serve as a member of the Dam Safety Review Panel of Experts (DSRPOE)
- iv. Hydro-Mechanical Expert to serve as member of the Dam Safety Review Panel of Experts (DSRPOE)

The Dam Safety Panel of Experts (DSRPOE) will act as an independent technical advisory body to the Federal Project management Unit (FPMU), reviewing dam infrastructure designs for compliance with international and World Bank standards. The panel will be chaired by the Dams Safety/Dams Monitoring/Civil Engineering Expert, who will lead and coordinate its activities. The assignment is time-based and shall be for a period of two (2) years at initial award which may be further renewed upon satisfactory performance.

The detailed Terms of Reference (TOR) for the assignment can be found at the following link:

- i. <https://1drv.ms/b/c/7a90ad26eaae9cce/IQDvwLHGqzARILcQFIL-eXOAW5ccw0TakrmR8UM20nMCFo?e=bzFufX> and
https://1drv.ms/b/c/7a90ad26eaae9cce/IQDms4-Itj5tRKgUjNA176yNARyv_0WO_auxD6ZdX3o0DfQ?e=pLemee. - Dams Safety/Dams Monitoring /Civil Engineering Expert
- ii. https://1drv.ms/b/c/7a90ad26eaae9cce/IQA_0EA8CHjNQ7T3LbZPTG3NAWCQx7AaDkdrWrZ4cUIBdPM?e=fZjvhI and
<https://1drv.ms/b/c/7a90ad26eaae9cce/IQAvWrTbGdNYTIBI5e1g5NGYAccl9EK5m00yVNDUCesjToc?e=NPiAyN> - Geological /Geotechnical Engineering Expert
- iii. <https://1drv.ms/b/c/7a90ad26eaae9cce/IQCSrP--oNaxSo518baBVyYP AeJV2ohFJyA2dVkuIezs5kE?e=3ZR0bu> and

<https://1drv.ms/b/c/7a90ad26eae9c9ce/IQBYwl0tgaDeSbQJvRxVpRxpAaJlPtMK2p3-uLFY1olPns?e=oiDdAj> - Operational Hydrology and Hydraulic Expert

- iv. <https://1drv.ms/b/c/7a90ad26eae9c9ce/IQCfSeUh6UEVT4odfKy2F-LoAc5bxIZ6K3XS4X7gIlFjOkI?e=R2xVre> and
https://1drv.ms/b/c/7a90ad26eae9c9ce/IQDz6wp_vwNBR5z3Lc5BHcb7AeW7M8vk4wOPSzylJIWD46w?e=Zli8g0 - Hydro-Mechanical Expert

The Federal Ministry of Water Resources and Sanitation, represented by the FPMU of the SPIN Project, now invites eligible individual consultants ("Consultants") to indicate their interest in providing the Services. Interested Consultants should provide their Curriculum Vitae (CV) demonstrating that they have the required qualifications and relevant experience to perform the Services. The selected consultants may be required to provide additional documents to support his/her qualification and experience.

Qualification of Experts

1. Qualification of Dams Safety/Dams Monitoring /Civil Engineering Expert - Chairperson

- i. Advanced degree (Post graduate) in Civil Engineering, Hydraulics, Water Resources Engineering, or a closely related field.
- ii. Minimum of 30 years of progressive professional experience in dam engineering, dam safety assessment, rehabilitation, and operation of large dams.
- iii. Proven experience as a lead or senior member of international dam safety review panels or equivalent advisory bodies.
- iv. Strong knowledge and hands-on experience in structural stability analysis, hydraulic design of spillways and outlet works, geotechnical engineering, and seismic safety assessments for large dams.
- v. Demonstrated experience in the review of dam instrumentation, monitoring systems, O&M manuals, and Emergency Preparedness Plans (EPPs).
- vi. Familiarity with rehabilitation and remedial works on embankment and concrete dams, including construction methods and QA/QC systems.
- vii. Knowledge of risk management approaches, hazard reduction strategies, and integration of climate change resilience in dam safety planning.
- viii. Exposure to multipurpose water infrastructure projects with hydropower, irrigation, and flood management functions.
- ix. Familiarity with the World Bank's Environmental and Social Framework (ESF), specifically ESS4 (Community Health and Safety), and the legacy OP 4.37 (Safety of Dams).
- x. Knowledge of international dam safety guidelines (e.g., ICOLD, USACE, FERC standards).
- xi. Experience in planning and managing construction programs, complex construction works such as grouting technologies for cut-off walls, coffer dams and similar works for existing dams in particular
- xii. Experience in construction and management of dams in general with particular experience in remedial works for large dams, particularly in similar types and size of embankment dams
- xiii. Strong communication, report-writing, and mentoring skills, with the ability to transfer knowledge to local engineers and technicians

2. Qualification of Geological /Geotechnical Engineering Expert - Member

- i. Advanced degree (MSc or PhD) in Geotechnical Engineering, Geology, or Civil Engineering with specialization in soil and rock mechanics.
- ii. At least 25 years of professional experience, including 10 years specifically in dam design, construction, or safety evaluation.
- iii. Participated in three or more dam-safety review or rehabilitation projects, preferably under World Bank or comparable IFI programs.
- iv. Comprehensive knowledge of foundation behavior, seepage control, slope stability, and embankment performance.
- v. Proficiency with modern analytical methods and software for geotechnical assessment.
- vi. Demonstrated familiarity with World Bank ESS4/OP 4.37, ICOLD Bulletins 99 and 154, and national dam-safety practices.
- vii. Strong communication, report-writing, and mentoring skills, with the ability to transfer knowledge to local engineers and technicians

3. Qualification of Operational Hydrology and Hydraulic Expert - Member

- i. Advanced degree (MSc or PhD) in Hydrology, Hydraulic Engineering, Water Resources Engineering, or closely related discipline.
- ii. Minimum of 20 years of progressive professional experience in dam design, hydrology, and flood hydrology, including at least 10 years in dam safety evaluation or rehabilitation.
- iii. Demonstrated expertise in hydrological modeling, flood routing, and spillway design using international best-practice software (e.g., HEC-RAS, HEC-HMS, MIKE series).
- iv. Proven participation in at least three major dam-safety or rehabilitation projects, preferably financed by the World Bank or other IFIs.
- v. Strong communication, report-writing, and mentoring skills, with the ability to transfer knowledge to local engineers and technicians

4. Qualification of Hydro-Mechanical Expert - Member

- i. Advanced degree (Post graduate) in Electrical, Mechanical, or Civil/Structural Engineer, or a closely related field.
- ii. Minimum of 25 years of progressive professional experience in design, installation, operation, rehabilitation, and safety assessment of hydro-mechanical systems and dam instrumentation for large dams.
- iii. Proven experience as a lead or senior member of international dam safety review panels or equivalent advisory bodies.
- iv. Extensive expertise in:
 - a. Hydro-mechanical and electrical equipment used in dams, including gates, valves, hoists, cranes, stop logs, hydraulic systems, penstocks, turbines, generators, and associated control/protection systems.
 - b. Dam instrumentation and monitoring systems, including piezometers, inclinometers, settlement gauges, seepage meters, pressure cells, vibration/strain sensors, hydrometric stations, data loggers, and telemetry systems.
 - c. SCADA-based dam operations, dam monitoring systems, and real-time hydro-meteorological networks.
 - d. Failure Modes, Effects and Criticality Analysis (FMECA) and/or equivalent tools for risk assessment of reservoirs and dam operations.

- e. World Bank ESF/ESS4, OP 4.37, and ICOLD guidelines for dam safety monitoring and electro-mechanical systems.

A Consultant will be selected in accordance with the Individual Consultant Selection method set out in the Procurement Regulations.

The attention of interested Consultants is drawn to Section III, paragraphs, 3.15, 3.16, and 3.17 of the World Bank's "Procurement Regulations for IPF Borrowers" September, 2025 ("Procurement Regulations"), setting forth the World Bank's policy on conflict of interest.

Further information can be obtained at the address below during office hours 8:00 am and 5:00 pm (Local time Monday to Friday) and /or send an email to the National Project Coordinator at the address below.

Expressions of interest must be delivered in a written form to the address below (in person, or by mail, or by e-mail) on or before **Thursday 15th January, 2026.**

Attn: National Project Coordinator

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Signed:

National Project Coordinator