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Technical Specifications (In-Cash Procurement)

Technical specification for environment framework contract 2024 - 2028

The objective of the framework contract is to provide IO with overall environmental protection coordination services. Every year or upon specific requests, task orders will be launched to describe more precisely the work expected to be done within the year.

Environmental Management Oversight for the ITER Construction Site

Technical Specifications for framework contract

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1 Summary

The present document elaborates on the specifications for the Environment Coordination Services on the ITER Site. In particular, it will be the role of the onsite Environment coordinator who shall supervise the good application of the procedures for Environment Protection and ensure the respect of French Regulations.

The contracting authority is the ITER Organization, designated by the term "IO" throughout this document.

2 Background and Objectives

The objective of the framework contract is to provide IO with overall environmental protection coordination services. Every year or upon specific requests, task orders will be launched to describe more precisely the work expected to be done within the year.

ITER is the INB-174 as per Decree No. 2012-1248 dated 9 November 2012 authorising IO to create a basic nuclear facility called \ll ITER \gg , thus subjected to the order of February 7th 2012 ("INB Order") and relevant ASN decisions.

ICPE (*Installations classées pour la protection de l'environnement* – facilities classified for the protection of the environment as per article L. 511-1 and L. 511-2 of the French Environment Code) are authorized and declared on the IO site in Cadarache and thus subjected to Prefectural and Ministerial Orders.

Some equipment, subjected to the nomenclature, considered as IOTA (*installations, ouvrages, travaux et activités* - facilities, structures, works, and activities as per the article L. 214-1 to L. 214-6 of the French Environment Code) are authorized and declared on the IO site in Cadarache and thus subjected to Prefectural Order.

Environmental protection and waste management are considered a Protection Important Activity as per the Order dated 7 February 2012 relating to the general technical regulations applicable to INB. As such these activities shall be performed according to procedures, subjected to technical control, managed by people with the appropriate competencies, qualifications, documented, and recorded.

The Contractor shall report to the IO Safety Quality Department (SQD), Nuclear Safety Division (NSD), Radiation & Beryllium Safety and Environment (RBSE) Group. Moreover, there will be an indirect but continuous interaction with construction & operation departments including the construction management office (CMO) & the operation division (OPD), Construction Management as Agent (CMA), and Domestic Agencies (Building Owners: F4E, IN-DA, etc.) at the ITER site.

3 Scope of work

The scope of the services covered by this technical specification includes:

- Supervision of the overall ITER site about environmental topics,
- Supervision of the respect of the French regulations, in particular with regards to ICPE and IOTA regulations by IO and all the Contractors,
- Reporting to the Authorities (ASN, DREAL, DDTM-Police de l'Eau) and Local Information Commissions (CLI),
- Analyses to be performed as per regulatory requirements,
- Maintenance of the documents related to environmental management,
- Assessment of the IO environmental organization respecting the French regulations.

4 Terminology and Acronyms

4.1 Terminology

Within this document, the following terminology is used.

Building Owner	The responsible entity for the organisation, safety coordination, and environmental protection of a specific Worksite.
Common Area	Any area on the ITER Construction Site that is not under the responsibility of a Building Owner.
Construction	Includes civil works, assembly, and commissioning of the different equipment.
Contractor	Any entity that provides goods or services to the ITER Organization.
Environmental management system	Part of the management system used to manage environmental aspects, fulfil compliance obligations, and address risks and opportunities
ITER Construction Site	The area designated for the construction of the ITER facilities encompassing all worksite areas.
Operation	Includes commissioning of the different equipment or facilities, and operational activities.
Site owner	The responsible entity for Common Areas and the overall organisation and safety coordination of the ITER Construction Site.
Worksite	A closed and independent construction site within the ITER Construction Site.

4.2 Acronyms

Definitions of the acronyms used in this document:

ADEME	L'Agence de l'environnement et de la maîtrise de l'énergie - The Environment
	and Energy Management Agency
ARB	Arbres Réservoirs de Biodiversité - Biodiversity Tank Trees
ASN	Autorité de sûreté nucléaire – French nuclear safety authority
CLI	Les commissions locales d'information - Local information commissions
CMA	Construction Management as Agent
CMO	Construction Management Office
COFRAC	Comité français d'accréditation - French Accreditation Committee
CSPS	Coordinateur Sécurité Protection de la Santé - Health, Safety and
	Environment Coordinator
DA	Domestic Agency
DBO5	Demande Biochimique ou Biologique en Oxygène pour 5 jours - Biochemical
	oxygen demand
DCO	Demande chimique en oxygène - Chemical oxygen demand
DREAL	Direction régionale de l'environnement, de l'aménagement et du logement -
	Regional Department of the Environment, development and Housing
DDTM	Direction départementale des territoires et de la mer - Departmental
	Direction of Territories and Sea
NSD	Nuclear Safety Division
F4E	Fusion for Energy – EU Domestic Agency

GEREP	Gestion électronique du registre des émissions polluantes - electronic
	management of the emissions register
ICPE	Installation classée pour la protection de l'environnement – facility
	classified for the protection of the environment
INB	Installation nucléaire de base – Nuclear basic installation
IO	ITER Organization
IOTA	<i>Installations, ouvrages, travaux et activités</i> - facilities, structures, works and
	activities
ISO	International Organization for Standardization
MEST	Matière en suspension totale – Total suspended materials
NCR	Non-Conformity Report
OPD	Operation Division
PIA	Protection Important Activity
PIC	Protection Important Component
PPSPS	Plan particulier de sécurité et de protection de la santé - Specific Health
	Protection & Safety Plan
PRE	Plan de respect de l'environnement – Environmental respect plan
RBSE	Radiation & Beryllium Safety and Environment
RO	Responsible Officer
RTE	Réseaux de transport d'énergie - Power transmission networks
SQD	Safety Quality Department
SEVESO	Seveso Directive may refer to:
	Directive 82/501/EC, Seveso Directive I (1982)
	Directive 96/82/EC, Seveso Directive II (1996)
	Directive 2012/18/EU, Seveso Directive III (2012)
TBD	To Be Defined
TSN	Transparence et sécurité en matière nucléaire - Transparency and nuclear
	safety

5 Organization on the ITER site

The entire site is under the overall responsibility of the ITER Organization (IO), the responsible owner of the site (Site Owner), who is the contact point with the French authorities (ASN, DREAL, and DDTM-Police de l'Eau) for all matters concerning nuclear safety and protection of the environment on the ITER site, apart from specific cases (Prefectural Orders brought forward by another Building Owner).

The INB perimeter is part of the site platform, which is part of the ITER site.

Each area of the ITER site is under the direct responsibility of an identified Building Owner, including:

- Fusion for Energy (F4E) for the construction of the ITER facility buildings and infrastructure on the ITER platform,
- IO for the worksite areas that are handed over by F4E to IO for assembling and commissioning under the scope of IO by a delegation from the Indian Domestic Agency, IO direct contracts or CMA and contractors,
- IO for the common area consisting of all areas of the ITER construction & operation site not attributed to another Building Owner.

The zone under RTE responsibility is completely independent.

The perimeters of the work sites are likely to evolve during the contract period, and documents relating to these areas will also evolve.

The scope of the services covered by this technical specification concerns all these areas (except the RTE area) but focuses on areas under IO responsibilities.

6 Work Description

This service related to Environmental Impact Management includes the following tasks:

• Supervision of the overall ITER site about the environmental topics

- The perimeter covers the ITER site boundary as defined in the Site Mater Plan (ITER_D_27X5FM). The framework also includes the supervision of the interactions between Building Owners during the Construction and Assembly Phases;
- o Follow-up of the IO environmental management system (ITER_D_86SNUC) on how worksite activities shall be executed to meet the requirements from the French Environmental Code, the Order dated 7th February 2012 (so-called INB Order), and other relevant French Environmental regulations as ASN decisions¹ and ICPE authorizations, while being in line with the main requirements of the ISO 14001 standard (The process metrics is also proposed to monitor the performance of the process and to follow-up of the IO environmental management system);
- o Follow-up of the site and main environmental stakes: waste management, effluent management (rainwater, sewage, and industrial effluents), chemical management, management of ARBs ("Arbres Réservoirs de Biodiversité" or trees important for biodiversity), ground pollution, mud/dust, the anticipation of environmental aspects on new projects, non-conformance with regulatory requirements, water, fuel and electricity

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¹ Décision n° 2013-DC-0360 de l'ASN du 16 juillet 2013, Décision n° 2015-DC-0532 de l'ASN du 17 novembre 2015

- consumptions, weekly on-site inspections tracked through Visit Sheets (JIRA tickets), depending on the deviations which are detected, Observation Sheets or Non-Conformity Reports (NCR) might be requested;
- Follow-up through participation in meetings: Weekly Site Construction Management office meeting, bimonthly meeting with IO construction & operation and CMA, bimonthly site coordination meeting, chemical safety management system meeting;
- Review of environment respect plans (PRE) for any new contractor/subcontractor on site;
- o Review of Non-Conformity Reports and Observation Sheets and update the database;
- Collection of validated data in due time to be able to carry out annual environmental reports requested by the Prefectural Orders and other authorities (GEREP, DREAL, DDTM-Police de l'Eau, ASN) and CLI;
- O Acceptance of the chemicals: linked with the chemical product management system developed by IO Security, Health and Safety (SHS), analysis of the chemical products to be accepted on site, and monitoring of regulatory thresholds will be carried out;
- Provide specific technical studies, upon specific request, which would require special skills in environment and French regulation. This can lead to dedicated task orders depending on the workload. Such activity cannot be anticipated;
- o Provide specific environmental training on French regulations by a bilingual English/French speaker, upon specific request, which would require special skills in environment and French regulation. This can lead to dedicated task orders depending on the workload. Such activity cannot be anticipated.

• Supervision of the respect of the French regulations, in particular with regards to ICPE and IOTA regulations by IO and all the Contractors

- Supervision of the respect of the French regulations, and information to the Authorities if changes are planned to the Prefectural Order and other authorizations. This leads to:
 - Make sure actions from the applicable Prefectural Orders are followed in a duly manner, fulfilling all legal requirements;
 - Ensure up to date documentation is kept by all Building Owners and actions followed up according to the applicable Prefectural Orders;
 - Maintain a centralized register of all ICPE files;
 - Make sure relevant data is identified and monitored (e.g. noise emissions, dust impact...) for reporting to the Authorities.
- Regulatory watch on any change in the French and European regulations and analyse the impact on IO. Support for the environmental regulatory compliance for IO, taking into account the updates of environmental regulatory requirements. This includes ICPE regulation and associated translation of ICPE classification;
- O Audit existing ICPE or IOTA to make sure that the regulatory requirements and IO engagements are well taken into account by the Building Owners:
 - for quarterly audits (optional in annual task order);
 - for more than four audits (upon request specific task order).
- Assessment of ICPE headings for the ITER site when new buildings are Ready For Equipment (yearly basis and adjusted with the worksite schedule);
- O Preparation of the Declaration files according to article R512-47 of the French Environmental Code (including compliance matrix) enabling IO to submit them to the Authorities (ASN or DREAL depending if the facility is inside or outside of the INB perimeter). This includes, in particular, the collection of data from the various stakeholders, analysis versus the regulations in force, and comparison with data presented in the licensing files (impact study for the ITER INB):
 - for one facility (optional in annual task order);
 - for more than one facility (upon request specific task order).

- O Preparation of the registration files according respectively to article R512-46 and following of the French Environmental Code for buildings starting to be operated, enabling IO to submit them to the Authorities and support for the instruction (upon request specific task order);
- O Preparation of the authorization files according respectively to article R181-1 and following of the French Environmental Code for buildings starting to be operated, enabling IO to submit them to the Authorities and support for the instruction (including public inquiry) (upon request specific task order);

• Reporting to the Authorities (ASN, DREAL, DDTM-Police de l'Eau) and Local Information Commissions (CLI)

- o Annual previsions on water consumption and effluent releases for ASN;
- Annual report as required by Prefectural Orders and Order dated 7 February 2012 (INB Order);
- o Annual TSN (Transparence et Sécurité en matière Nucléaire) report;
- o GEREP declaration (electronic management of the emissions register);
- ICPE and IOTA list annual update;
- Support to IO in answering the Regulator requests (ASN, DREAL) related to ICPE regulations and, more broadly, any environmental topic (SEVESO, prohibited substances, etc). This can lead to dedicated task orders depending on the workload. Such activity cannot be anticipated;
- o Preparation of inspections by the Authorities. This can lead to dedicated task orders depending on the workload. Such activity cannot be anticipated;
- o Preparation of environmental incident/accident reports by the Authorities. This can lead to dedicated task orders depending on the workload. Such activity cannot be anticipated.

• Analyses to be performed as per regulatory requirements, to be specified in the yearly task order

- o Rainwater measurements and analyses;
- o Groundwater measurements and analyses (taking into account the constraints linked to the depth of the sampling...);
- O Wastewater measurement and analysis;
- Noise measurement;
- o Green-house gas emission report (ADEME GHG report).

• Maintenance of the documents related to environment management:

- Update of the requirement register (ITER_D_C8URNU Environmental protection requirement register);
- Update of the environmental analysis (ITER_D_9RA6KJ IO Environmental Management System: Environmental Analysis) including environmental improvement action plan(s);
- Update of the environmental findings (ITER_D_8A6HYR Registre de suivi des observations environnementales);
- o Update of the template of environmental respect plan (ITER_D_9FUP5C Environmental Respect Plan English template);
- o Draft of environmental instruction documents:
 - for one per year (optional in annual task order);
 - for more than one document (upon request specific task order).

• Assessment of the IO environmental organization respecting the French regulations (Support from the head (regional) office of contractor)

- This assessment is to analyse the IO environmental organization how to comply with existing French regulations while being in line with the main requirements of the ISO 14001 standard (ITER_D_86SNUC_Environmental Protection Overall Procedure) and propose organizational solutions to fill the gap of any missing function or non-compliance in line with French legal requirements and the IO Environmental Management system.
- o Organization of Workshops for the improvement of IO environmental organization and it includes development and promotion of environmental culture;
- o Conduction of external audits on the IO RBSE Environmental team's EP activities whether respecting the French regulations (optional in annual task order).

7 Deliverables and due dates

All deliverables shall be transmitted through the ITER Document Exchange Area in IDM/PLM, as detailed in the In-Cash Procurement Technical and Management Documentation Exchange and Storage Procedure (ITER_D_G8UMB3).

All deliverables shall be provided in both PDF format and in the original format. PDF documents shall have text recognition and include bookmarks.

All deliverables shall be provided in English unless stated otherwise in this document. For documents to be provided in French, an executive summary in English shall be included. The written text must be well-written and grammatically correct.

IO shall review the deliverables and reply, within the time specified in the 15 following days, a commented version of the deliverables.

The Contractor shall carry out all necessary modifications to the deliverables and submit a revised version.

The main deliverables will be described in the Task Order but may include, as per the work description:

• Supervision of the overall ITER site about the environmental topics

- A monthly report to report on the supervision of the overall ITER site with regards to the
 environmental topics including in particular status of consumptions (water, fuel, and
 electricity) and waste production, on-site visit reports, the status of observation sheet and
 NCR including the update of the database, the status of PRE review and any other subject
 to be reported (due date: monthly basis);
- o Training on French regulations by a bilingual English/French speaker (due date: TBD upon request).

• Supervision of the respect of the French regulations, in particular with regards to ICPE and IOTA regulations by IO and all the Contractors

A quarterly status on ICPE and IOTA files for ITER buildings including audit scheduling and reporting (quarterly audit with compliance matrix), alerts on regulatory documents under consultation that could impact ITER and official changes in the regulations, assessment of ICPE headings for ITER site when new buildings are Ready For

- Equipment, follow-up of ICPE and IOTA facilities vs the regulatory requirements (due date: quarterly basis);
- o ICPE declaration file and compliance matrix (due date: TBD upon request).
- o ICPE registration file and compliance matrix (due date: TBD upon request).
- o ICPE authorization file and compliance matrix (due date: TBD upon request).

• Reporting to the Authorities (ASN, DREAL, DDTM-Police de l'Eau) and Local Information Commissions (CLI)

- o Input data for the annual environmental reports requested by the Prefectural Orders (GEREP, DREAL, DDTM-Police de l'Eau) and the ASN (due date: March every year);
- Report to support IO in answering the Regulators' requests (ASN, DREAL, CLI) related to ICPE regulations and, more broadly, any environmental topic (SEVESO, prohibited substances, etc) (due date: TBD upon request).
- o Report on preparation for inspections by the Authorities (due date: TBD upon request).
- Report on the environmental incident/accident (such as pollution management) (due date: TBD upon request).

• Analyses to be performed as per regulatory requirements, to be specified in the yearly task order

- O Rainwater measurements and analyses on 2 release points as per procedure ITER_D_G4Y5ZQ Protocole d'analyse des eaux pluviales du site ITER, and by a COFRAC certified laboratory, of total suspended materials (MEST matière en suspension totale) and hydrocarbide (indice hydrocarbure) after heavy rain (due date: January);
- o Groundwater measurements and analyses on 10 piezometers, by a COFRAC certified laboratory, of the water level and height of water in the piezometer (to be noted that the piezometer height can be more than 50 m and the constraints linked to the depth of the sampling have to be taken into account) and measurement of DBO5, DCO, hydrocarbide index, Kjedhal nitrogen, total phosphorus, fluorides, chlorides, nitrates, nitrites, sulphates, boron, aluminium, iron and zinc (due date: January);
- O Wastewater measurement and analysis on 1 sample, as per procedure ITER_D_TYHAYN v1.1 Protocole d'analyse des eaux usées en sortie de la STEP du site ITER, and by a COFRAC certified laboratory, on concentrations and loads for DBO5, DCO, suspended materials (MEST), Kjedhal nitrogen, total phosphorus (due date: January);
- o Noise measurement at 3 points and analysis (due date: January);
- o ADEME Green-house gas emission report (due date: February);

The results shall be compared with the regulatory values specified for ITER.

• Maintenance of the documents related to environment management:

- Update of documents related to the environment management on IDM (due date: TBD upon request);
- o Draft of environmental documents related to the environment management on IDM (due date: TBD upon request);

• Assessment of the IO environmental organization respecting the French regulations (Support from the head (regional) office of contractor)

• Report proposals from workshops for improvement of IO environmental organization (due date: TBD upon request).

 External Audit Report on the IO environmental organization's activities in line with French regulations while being in line with the main requirements of the ISO 14001 standard (due date: TBD upon request).

8 Work Monitoring

A weekly progress meeting shall be organized with IO to discuss the following topics:

- Review of actions;
- Summary of activities detected or emerging problems;
- Forecasts and schedules.

The minutes of the meeting drafted by the Contractor and approved by the IO shall be distributed no later than 2 working days following the meeting.

A monthly progress meeting shall be organized with IO to discuss the following topics:

- Assessment of technical or administrative issues associated with the contract;
- Recommendations for ways of improvement.

The minutes of the meeting drafted by the Contractor and approved by the IO shall be distributed no later than 15 working days following the meeting.

9 Duration

The Framework Contract duration is 4 years (from 2024 to 2028).

10 Nuclear Safety & Environmental requirements

As already mentioned, ITER is a Nuclear Facility identified in France by the number INB-174, authorised by the French Decree No 2012-1248 of 9 November 2012 authorising the ITER Organization to create a basic nuclear installation called "ITER" (DAC) and subject to the French Order dated 7 February 2012 relating to the general technical regulations applicable to INB. As per the nuclear safety common definitions (ITER_D_RLZXMV), a contractor is any entity that provides goods or services to the ITER Organization.

The Contractor shall comply with all the requirements expressed in the Provisions for Implementation of the Generic Safety Requirements by the External Interveners (ITER_D_SBSTBM) which defines generic safety requirements to be implemented by all external interveners of the ITER project to satisfy the requirements of the French regulation applicable to nuclear facilities. It applies to all external interveners of the ITER project. In the execution of the contract, the contractor shall respect this document.

For Protection Important Components (PIC), the French Nuclear Regulation must be observed, in application of the Article 14 of the ITER Agreement.

For this purpose, the Contractor is informed that:

- The Order of 7 February 2012 applies to all Protection Important Components (PIC) and Protection Important Activities (PIA).
- The compliance with the INB order must be demonstrated in the chain of subcontractors.
- In application of article II.2.5.4 of the Order of 7 February 2012, contracted activities for supervision purposes are also subject to supervision done by the Nuclear Operator.

For the PIC Structures, Systems, and Components (SSCs) of the nuclear facility, and PIA, the Contractor shall ensure that a specific management system is implemented for his activities and the activities done by any Subcontractor following the requirements of the Order of 7 February 2012.

The ITER Policy on Safety, Security, and Environmental Protection Management (ITER_D_43UJN7), presenting the strategical objectives of the ITER Organization for protecting the interests mentioned under Article L593-1 of the French Environmental Code, must be circulated, known, understood, and applied by all staff of the Contractor and cascaded down in the managerial lines of the Contractor and his sub-contractors.

An Environmental Respect Plan (PRE) shall be provided by the Contractor ten working days prior to the start of the on-site works, using the <u>ITER PRE template (9FUP5C)</u>.

10.1 Protection Important Components (PIC)

For the ITER Project, a Protection Important Component ("PIC"), as per INB Order art. 1.3, is defined as "A component which is important for protecting the interests mentioned under Article L.593-1 of the Environmental Code (nuclear security – i.e. nuclear safety, radiation protection, the prevention and fight against malicious acts, and also civil security actions in the event of an accident –, public health and sanitation or protection of nature and the environment), i.e. structure, equipment, system (programmed or not), material, component or software that is present in the basic nuclear installation or that is under the responsibility of the operator and that implements a function required for the demonstration mentioned under the second paragraph of Article L. 593-1 of the Environmental Code (safety demonstration) or that ensures that this function is implemented."

An approved PIC list will be provided by the ITER Organization during the execution of the contract.

Examples of PICs linked to the environment:

- Precipitation Water Drainage Transfer control valves
- Piezometers

10.2 Protection Important Activities (PIA)

As per articles 1.3 of the INB Order, a PIA is defined as an "Activity important for protecting the interests mentioned under Article L. 593-1 of the Environmental Code (public safety, health, and sanitation, the protection of nature and the environment), i.e. activity that falls under the technical or organizational provisions mentioned under the second paragraph of Article L. 593-1 of the Environmental Code or that is liable to affect them."

The PIAs related to environmental monitoring are defined by the ITER Organization through annex 2 of the surveillance plan for environmental monitoring (ITER_D_W4EXNE).

Examples of PIAs related to environmental monitoring:

• Activities for the protection of the environment including overall surveillance of the environmental management on site, including the worksite environmental performance, chemical management, etc.;

- Waste Management;
- Analyses required by the regulations, including the analyses on the liquid effluents, noise, dust release, piezometers, legionellae, etc.;
- Follow-up and maintenance of the piezometers;
- Management of environmental deviations including non-conformities, remedial actions preventive and corrective actions;
- ICPE management.

The contractor shall provide documented information on how to perform the technical control (each protection-important activity undergoes technical monitoring, to ensure that the activity is carried out in compliance with the requirements defined for the activity and, if necessary, for the protection-important components concerned and that the appropriate corrective and preventive actions have been defined and implemented).

10.3 Defined Requirements

As defined in Article 1.3 of the INB Order, the Defined Requirements are "requirements assigned to a protection important component so that it fulfils – with the expected characteristics – the function provided for in the demonstration mentioned in the second paragraph of Article L. 593-7 of the Environmental Code, or to a protection important activity so that it fulfils its objectives as regards this demonstration."

In other words, it means any requirement that has been assigned to a PIC or a PIA so that it may perform the function provided for in the safety demonstration.

The Defined Requirements of the PIAs related to environmental monitoring are defined by the ITER Organization through annex 2 of the surveillance plan for environmental monitoring (ITER D W4EXNE).

Any other approved list of defined requirements linked to this contract will be provided by the ITER Organization throughout the execution of the Contract.

The Contractor shall establish clear procedures, setting the rules for the implementation of such defined requirements.

10.4 Skills and qualification of the interveners (INB Order - article 2.5.5)

The Contractor shall ensure that PIAs and their technical controls are carried out by persons with the appropriate competencies and qualifications, as defined in the Generic requirements for the competencies and qualifications of external interveners (ITER_D_SBT3UA), and that its subcontractors (regardless of the level in the supply chain) make corresponding provisions.

The contractor shall provide documented information on how to define appropriate competencies and qualifications of staff performing protection-important activities and technical control.

10.5 Records (INB Order - article 2.5.6)

PIAs must be properly documented and recorded through the Documentation Exchange and Storage Procedure (ITER D G8UMB3).

The Contractor shall ensure that all the records including those generated by its supply chain are timely completed and recorded by the requirements.

10.6 Deviations and non-conformities (INB Order - article 2.6.3)

The contractor shall provide documented information on how to manage deviations and non-conformities. In the execution of the contract, the contractor shall follow the IO procedures for Deviations & Non-Conformities (ITER_D_22F53X and ITER_D_2LZJHB).

11 Specific requirements and conditions

11.1 Staff qualifications

Staff taking part in the contract shall hold a demonstrated thorough knowledge of applicable French Environment regulations in particular with the environmental code, ASN orders & decisions, the regulations related to the ICPE and IOTA, and the environmental management system of the ISO 140001.

Staff taking part in the contract shall have demonstrated experience in developing ICPE files for industries, for facilities subjected to declaration, registration, and authorization.

The Environment Coordinator shall have demonstrated experience with similarly large and multicultural construction projects and contracts.

The contractor shall have demonstrated knowledge of the administrative authorities in charge of ITER INB (ASN, DREAL, and DDTM).

The laboratory for the analyses listed in section 7 shall be able to provide results within 48 hours in case of an environment emergency and shall be COFRAC certified.

Experience of the Environment Coordinator with the nuclear environment is a plus.

Experience as the Environment Coordinator in the international working environment is a plus.

11.2 Applicable regulation

IO is an international organization that enjoys certain privileges and immunities specified in the Headquarters Agreement signed with the French Government on 7 November 2007 and the Additional Protocols thereto (including the Additional Protocol regarding the role of the ASN and DREAL on the ITER site).

As per article 14 of the ITER Agreement: "ITER shall observe applicable national laws and regulations of the Host State in the fields of public and occupational health and safety, nuclear safety, radiation protection, licensing, nuclear substances, environmental protection and protection from acts of malevolence.

ITER is the INB-174 as per Decree No. 2012-1248 dated 9 November 2012 authorising IO to create a basic nuclear facility called « ITER ».

ICPE and IOTA facilities and equipment are present on site.

Therefore the corresponding French regulation, and in particular the Order dated 7 February 2012 relating to the general technical regulations applicable to INB (so called "INB Order") and the French environmental code, apply to ITER site (see section 15.2).

11.3 Occupational health and safety

11.3.1 General principles

The ITER Site is divided into two areas within which safety coordination is managed differently (refer to ITER_D_3XWZL6 - ITER Site Plan for Internal Regulations):

- Areas under operation falling under the Decree #92-158 of 20 February 1992;
- Areas under construction falling under Decree #94-1159 of 26 December 1994.

The Contractor will be called upon to intervene in areas falling within one or other of the schemes mentioned above.

In all areas of the site, the Internal Regulations (ITER D 27WDZW) apply.

Areas of office buildings

The areas under operation are separated from the areas of the worksite by fencing and have specific access requirements.

The Contractor safety management procedure (ITER D Q2GBJF) applies to these areas.

A prevention plan will be established jointly between the Contractor and the ITER Organization, listing the safety risks and the risk mitigation measures.

Areas of the construction site

In the areas of the ITER Site where construction activities are being carried out, safety coordination is ensured by a safety and health protection coordinator (CSPS). Before the start of the services, and for each additional or modified service, the Contractor shall prepare a specific plan of safety and health protection (PPSPS), using the ITER template (ITER_D_K7C6SZ). The PPSPS shall be based on the general safety coordination plan of safety and health protection (PGCSPS) Volume 1 (ITER_D_T6V4RP).

The Contractor shall attend meetings of the inter-company committee in charge of safety, health, and working conditions (CISSCT) as necessary.

11.3.2 Forest fire risk

Large areas of the ITER Site are exposed to forest fire risk in the sense of the Prefectural Order of 28-May-2018 providing Access and Work Restrictions in Areas Exposed to Forest Fire Risk (ITER_D_YNWNZY). During summer, access to and work in those may be restricted. Smoking is prohibited on the ITER Site, except in designated smoking areas.

11.3.3 Chemical products

In the case the services involve the use of chemical products, the Contractor shall comply with the Chemical product management procedure (ITER_D_TF5GP8) and fill in a chemical product acceptance form.

11.3.4 Cleaning and waste disposal

It is the Contractor's responsibility to ensure that the facilities allocated to the Contractor are kept clean and clear of rubbish.

The Contractor shall be responsible for cleaning, repairing, and restoring facilities that it dirtied or damaged to their original condition, and shall remove their debris and rubbish to authorised rubbish tips.

11.4 Facilities provided by the ITER Organization

The ITER Organization will provide certain facilities on site to the contractor free of charge, as specified below, based on justified needs.

The Contractor shall use the allocated facilities/space effectively and efficiently. In the case that the ITER Organization considers that the Contractor is failing to use the allocated space effectively and/or efficiently then the ITER Organization at its sole discretion can withdraw or reduce the allocated facilities/space.

Electricity and water consumption costs shall be borne by the ITER Organization. The Contractor shall take all reasonable measures to minimize water and electricity consumption and it shall respect the applicable housekeeping rules for the facilities. In the case that the ITER Organization considers that the Contractor is failing to take reasonable measures to minimize water and electricity consumption or is failing to respect the housekeeping rules, then the appropriate penalties may be applied as defined in the particular conditions.

11.4.1 Accommodation

The ITER Organization will provide free of charge furnished office space for the Contractor's full-time managerial and administrative staff, as well as for the performance of certain duties (storage of maintenance files, reception of contractors for work authorisation, ...), with a maximum capacity of 2 desks (floor surface ~13 m²).

Each Contractor's full-time on-site managerial and administrative staff member will be provided with an ITER computer and an ITER account.

11.4.2 Car parking facilities

The Contractor staff shall have access to the common parking facilities on the site, with a limit of one parking bay per two permanent on-site Contractor staff. A limited number of parking bays shall be allocated in the vicinity of the Contractor's office space for Contractor's service vehicles.

11.4.3 Welfare facilities

The Contractor's staff will be provided access to showers and lockers facilities on the site based on proven need.

The Contractor's staff will be provided access to eating areas (refectories) on the site. They will also be allowed to have lunch in one of the site canteens, at their own expense.

11.5 Site access

Access to the ITER Site is subject to entrance and exit control measures as defined in the ITER Site access procedure (ITER D S3893D).

Specific controls are applied to personnel entering the site. For security purposes, access might be refused or withdrawn for any of the Contractor's personnel.

Regular access hours for the various areas of the site are as follows:

- Office Areas: from 07:00 to 19:30 on working days (Monday to Friday) except on ITER closure days;
- Construction Site: from 5:30 to 22:30 (Monday to Saturday).

Access to the ITER Site outside regular access hours shall be possible for specific activities. Access can be granted at any time for urgent interventions (e.g. on-call).

Some areas and buildings are subject to dedicated access procedures.

11.6 Work authorisations and work permits

Before the start of any works on the ITER Site, a Work Authorisation must be obtained by the ITER Site Permit to Work Overarching Procedure (ITER_D_3E8289) and its daughter procedures.

11.7 Confidentiality

The Contractor agrees to treat all areas related to task performance with strict confidentiality. The Contractor shall be liable for its staff and for disclosure of the information and documents communicated to for fulfilment of the contract to any other individuals than those needing to know thereof.

Any established breach of this principle of confidentiality will result in immediate termination of the contract at the Contractor's expense.

11.8 Language

The official language of the ITER project is English. However, the contractor will be frequently exposed to French regulations and French-speaking entities (companies and authorities): the contractor shall therefore hold a proficient level of French.

12 Responsibilities

The contractor shall nominate a Project Manager interfacing with the IO-RO.

The Contractor shall provide, on the ITER site, experienced and trained resource(s) to perform the tasks (Environment Coordinator).

The Contractor shall provide (not necessarily on the ITER site) experienced and trained resources to provide support and advice on all ITER needs and requests related to the environment, in particular in case of specific queries by the French Regulator.

The Contractor shall provide a site Environmental coordinator for 5 days a week.

The Contactor shall provide an off-site Environmental expert to support the site Environmental coordinator for at least 1day a month.

The Contractor shall ensure the continuity of the services.

The Contractor's personnel shall be bound by the rules and regulations governing ITER Organization ethics, Safety, and Security rules.

13 Acceptance Criteria

The reports provided by the contractor shall demonstrate full compliance with the needs. The acceptance by IO RO shall trigger the invoice payment.

14 QA requirements

The organisation conducting these activities should have an ITER approved QA Program or an ISO 9001:2015 certified management quality system.

The general requirements are detailed in ITER_D_22MFG4 - ITER Procurement Quality Requirements.

Prior to commencement of the task, a Quality Plan must be submitted for IO acceptance giving evidence of the above and describing the organisation for this task; the skill of workers involved in the task; any anticipated sub-contractors; and giving details of who will be the independent checker of the activities (see ITER D 22MFMW - Requirements for Producing a Quality Plan). Non-conformities will follow the procedure detailed in ITER D 22F53X - Procedure for management of Nonconformities. Deviations will follow the procedure detailed in ITER D 2LZJHB - Procedure for the management of Deviation Request.

15 Appendix 1: Applicable ITER rules and procedures

15.1 General procedures/documents

- ITER D 22MFG4 ITER Procurement Quality Requirements
- ITER D 22MFMW Requirements for Producing a Quality Plan
- ITER D 2LZJHB Procedure for the management of Deviation Request
- ITER D 22F53X Procedure for management of Nonconformities
- ITER D 2D3YX2 Site Development Plan
- ITER D 27WDZW Internal Regulations
- ITER_D_ 3XWZL6 ITER Site Plan for Internal Regulations
- ITER_D_Q2GBJF Contractor Safety Management Procedure
- ITER_D_22K4QX ITER Quality Assurance Program (QAP)
- ITER_D_4HCWJU ITER Integrated Safety, Environment, and Security Management System (ISMS) Manual
- ITER_D_SBSTBM Provisions for Implementation of the Generic Safety Requirements by the External Interveners
- ITER_D_2LH9QC Overall Site Organisation and Safety Coordination and Environmental Protection during ITER Construction
- ITER_D_SBT3UA Generic Requirements for the Competences and Qualifications of External Interveners
- ITER_D_G8UMB3 IO / In-Cash Contractor Documentation Exchange and Storage Working Instruction
- ITER D 258LKL Quality Assurance for ITER Safety Codes Procedure
- ITER D 27X5FM ITER Site Master Plan
- ITER D T6V4RP PGC SPS Vol. 1 IO&F4E
- ITER D S3893D ITER Site access Procedure
- ITER D 3E8289 ITER Site Permit to Work Overarching Procedure
- ITER D UBET39 Procedure CMA Permit to Work Procedure Deliverable 5.1
- ITER D RLZXMV Nuclear safety common definitions
- ITER_D_K7C6SZ template for specific health and safety plans (PPSPS) bilingual Version

15.2 Regulatory documents

- Order dated 7 February 2012 relating to the general technical regulations applicable to INB
 - (https://www.legifrance.gouv.fr/affichTexte.do?cidTexte=JORFTEXT000025338573& fastPos=3&fastReqId=317365864&categorieLien=cid&oldAction=rechTexte)
- Code de l'environnement (https://www.legifrance.gouv.fr/affichCode.do?cidTexte=LEGITEXT000006074220&d ateTexte=20180816)
- Nomenclature des installations classées
- ITER_D_3ZR2NC Preliminary Safety Report (RPrS) (to be provided during the execution of the Contract)
- 06-DAC 6 Impact Study (ITER_D_742LH4) (to be provided during the execution of the Contract)
- ITER_D_C2JZNX French Decree No 2012-1248 of 9 November 2012 authorising the ITER Organization to create a basic nuclear installation called "ITER" (DAC)

- Arrêtés n°15-2007/-EA du 15/02/08 et 45-2009 du 07/02/11 autorisant au titre du Code de l'Environnement la réalisation des travaux de préparation et de viabilisation du site du projet ITER (IOTA) (ITER_D_4BBKUN)
- Arrêté 2007-106A (23/12/08) & 52-2013 PC (25/03/13) autorisant l'Agence ITER France (transféré à F4E) à exploiter des installations de concassage, de centrales à béton, d'une station de transit des produits minéraux solide et d'installations de stockage (ITER D 33ASTS)
- Récépissé de déclaration n°1255-2011-D du 22 juillet 2011 concernant le hall de montage et de nettoyage des composants (bobines de champs poloidales) (ITER_D_65B9AU)
- Récépissé n°2014-269 D du 1er février 2016 concernant la plateforme logistique (ITER_D_SMZYYS)
- ITER_D_YNWNZY Prefectural Order of 28-May-2018 Access and Work Restrictions in Areas Exposed to Forest Fire Risk

15.3 Surveillance plans (to be provided during the execution of the Contract)

- ITER D W3VKK7 Surveillance plan for environmental monitoring
- ITER D W4B55N Annex 1 of the surveillance plan for environmental monitoring
- ITER D W4EXNE Annex 2 of the surveillance plan for environmental monitoring

15.4 List of documents related to the environmental management system

- ITER_D_43UJN7 ITER Policy on Safety, Security, and Environmental Protection Management
- ITER D 86SNUC Environmental Protection Overall Procedure
- ITER_D_AGC5G4 Environmental Management Plan for ITER construction site (PMAE)
- ITER D 97W4PN IO Environmental Management System doc 1: PMAE v1
- ITER_D_9RA6KJ IO Environmental Management System doc 2: Environmental Analysis
- ITER_D_9RENJN IO Environmental Management System doc 3: Objectives, targets, and Environmental Management Programme
- ITER_D_N83VXW IO Environmental Management System doc 4: General Surveillance Plan
- ITER_D_N5QKG5 IO Environmental Management System doc 5: Requirements applicable to the ITER worksite
- ITER_D_N9Z2LE IO Environmental Management System doc 6: Emergency situations inventory
- ITER D C8URNU Environmental protection requirement register
- ITER D 97WRFP Environmental requirements
- ITER D 9FUP5C Environmental Respect Plan english template
- ITER_D_NEBB44 Working Instruction for intervention in case of Pollution or Overflow of the Rainwater Drainage Network
- ITER D TF5GP8 Chemical product management procedure
- ITER D G4Y5ZQ Protocole d'analyse des eaux pluviales du site ITER
- ITER_D_TYHAYN Protocole d'analyse des eaux usées en sortie de la STEP du site ITER

16 Appendix 2: Deliverables to be quoted in 1st Task Order (2024-2025)

For the 1st Task Order, the Contractor shall consider the following deliverables:

- A monthly report to report on the supervision of the overall ITER site with regards to the environmental topics including in particular status of consumptions (water, fuel, and electricity) and waste production, report on the on-site visit, the status of observation sheet and NCR including the update of the database, the status of PRE review and any other subject to be reported (due date: monthly basis);
- Maintenance of an up-to-date register of all the NCRs, Observation Sheets (including JIRA) and Visit Sheets (ITER D 8A6HYR) (due date: monthly basis);
- Weekly Environmental Meeting minute including Site Inspect Reports on the implementation of Environmental requirements for ITER site (due date: weekly basis);
- A quarterly status on ICPE and IOTA files for ITER buildings including audit scheduling
 and reporting (quarterly audit with compliance matrix), alerts on regulatory documents under
 consultation that could impact ITER and official changes in the regulations, assessment of
 ICPE headings for ITER site when new buildings are Ready For Equipment, follow-up of
 ICPE and IOTA facilities vs the regulatory requirements (due date: quarterly basis);
- Update of documents related to the environment management on IDM:
 - ITER_D_C8URNU Environmental protection requirement register (due date: September 2024);
 - ITER_D_9RA6KJ IO Environmental Management System: Environmental Analysis, including environmental improvement action plan(s) (due date: June 2024);
 - ITER_D_9FUP5C Environmental Respect Plan English template (due date: April 2024).
- Input data for the annual environmental reports requested by the Prefectural Orders (GEREP, DREAL, DDTM-Police de l'Eau) and the ASN (due date: March 2025);
- SEVESO 3 report to the ASN (due date: July 2024);
- Analysis/Study reports for
 - Rainwater measurements and analyses (due date: January 2025);
 - Groundwater measurements and analyses (taking into account the constraints linked to the depth of the sampling...) (due date: January 2025);
 - Wastewater measurement and analysis (due date: January 2025).
- Report from workshops for improvement of IO environmental organization (due date: November);
- External Audit Report on the IO environmental organization's activities (due date: November).

The following deliverables are to be considered optional:

- Declaration files according to article R512-47 of the French Environmental Code (including compliance matrix) for one facility (due date: TBD upon request);
- Training on French regulations by a bilingual English/French speaker (due date: TBD upon request);
- Draft of environmental documents related to the environment management on IDM (due date: TBD upon request);