



HSE Requirements for Supplier and Contractor

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The purpose of this document is to identify and collect the Contractor/Supplier's minimum requirements related to the health, safety and environmental aspects for the engineering and the execution phase of the Project.

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1 Introduction

1.1 Scope of Document

The purpose of this Specification is to define the general criteria and minimum Project HSE requirements about health and safety of workers and environmental protection, to be followed by Contractors and Suppliers during execution of their activities.

This document identifies:

- requirements to be met during the tender phase;
- requirements to be met after the contract award and the supply;
- requirements to be met during the site execution activities and after their close-out.

Contractor/Supplier is in charge to ensure that all its personnel including those of any sub-contractors/sub-suppliers accept and adhere to the above requirements and continually commit themselves to satisfy the highest HSE-R and quality standards.

This document integrates and supports but doesn't replace the obligations imposed by current legislation on health, safety and the environment in the context of public procurement and the provisions of the Contract.

In case of conflict with the contractual documentation, the latest shall be considered as the main reference.

1.2 Acronyms, Abbreviations and definitions

ACRONYM / ABBREVIATION	DEFINITION
PROJECT	DTT (Divertor Tokamak Test) Facility
CONTRACTING AUTHORITY (<i>Stazione Appaltante</i>) (art. 3 lett.o Legislative Decree.50/2016)	DTT S.c.a r.l.
CONTRACT (<i>Appalto</i>) (art. 3 lett. dd Legislative Decree. 50/2016)	Agreement with whom Contracting Authority entrusts an organization for the execution of a work involving the construction/demolition of buildings and related works and/or the installation of equipment/plants. It includes contracts for which it is foreseen the installation/erection of materials supply.
CONTRACTOR (<i>Appaltatore</i>)	Organization awarded of a Contract for the construction/installation/erection activities.
SUBCONTRACT	The contract whereby the Contractor entrusts a third party, in whole or in part, with the execution of the works and/or services contracted to it, subject to authorization by the Contracting Authority
SUBCONTRACTOR	Any organization providing supplies/services or part of works, originally awarded by Contracting Authority to Contractor.
SUPPLIER	Organization awarded of a Contract for the supply of materials/equipment.
ORDER (<i>Contratto</i>)	Legal agreement between Contracting Authority and Contractor/Supplier which, in return for a



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ACRONYM / ABBREVIATION	DEFINITION
	consideration obliges, perform the scope of work requested as per Contract.
EMPLOYER (<i>Datore Di Lavoro</i>) (Art. 2 let. B Decree 81/08)	The person holding the employment relationship with the worker or the person who has the responsibility of 'organization itself or the production unit as it exercises decision-making and spending powers. The Employer has the obligations pursuant by art. 26 Decree 81/08.
DIRECTOR OF WORKS (<i>Direttore Dei Lavori</i>)	The person having the necessary technical-professional skills, chosen by the Contracting Authority, based on the works to be carried out falling within the scope of application of Presidential Decree 380/01 (Consolidated Law on Construction) and having the professional qualification required by the regulations in force, for the execution of such works in order to ensure the smooth progress of the worksite
TEMPORARY OR MOBILE CONSTRUCTION SITES (Art. 89 (1) lett.a) e All X Legislative Decree 81/08)	The premises where construction or civil engineering works are carried out
SAFETY COORDINATOR DURING DESIGN ACTIVITIES (<i>Coordinatore della Sicurezza in fase di Progettazione CSP</i>) (Art. 89 c.1 lett. e) Legislative Decree. 81/08, art. 91)	Person assigned by Contracting Authority for the execution of activities as per D. Lgs. 81/08 art. 91 for works within Titolo IV of D. Lgs. 81/08. He is in charge to issue during project design phase, and before the request for submission of tenders for construction activities, the PSC (safety and Coordination Plan) according to D.Lgs 81/08 Article 100 Paragraph 1 , the contents of which are specified in detail in Annex XV of the Legislative Decree 81/08.
SAFETY COORDINATOR DURING EXECUTION ACTIVITIES (<i>Coordinatore della Sicurezza in fase di Esecuzione - CSE</i>) (Art. 89 c.1 lett. f) , art. 92 Legislative Decree. 81/08)	Person assigned by Contracting Authority for the execution of activities as per D. Lgs. 81/08 art. 92 for works within Titolo IV of D. Lgs. 81/08. This figures cannot be covered by Contracting Authority RSPP or Datore di Lavoro. CSE is in charge, among the other things, to promote cooperation and coordination of Contractors' employees about safety matters, as well as their communication. In the cases provided for by D.lgs 81/08 Title IV, it also review or prepare (if needed) the PSC. If the size of the site requires it, the Coordinator for the Execution can employ collaborators to assist him in carrying out his duties.
SAFETY AND COORDINATION PLAN - (<i>Piano Di Sicurezza E Di Coordinamento - PSC</i>) (Art. 100 Legislative Decree. 81/08)	Document, issued by Contracting Authority, consisting of a technical report and prescriptive measures related to the complexity of the work to be carried out and to any critical phases of the construction stage. It provides indications on "how" the construction site must be structured to safely carry out the planned work.



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ACRONYM / ABBREVIATION	DEFINITION
	Based on contractual scope of work this document is attached to the Contract.
OPERATIONAL AND SAFETY PLAN – (<i>Piano Operativo Di Sicurezza - POS</i>) (Art. 89 c. 1 lett. h) <i>Legislative Decree. 81/08</i>)	Document issued by Contractors operating on a temporary or mobile worksite. Basically, it constitutes the assessment of the specific risks related to the activities that will take place on the specific worksite.
SPECIFIC RISK ASSESSMENT DOCUMENT - DOCUMENTO DI VALUTAZIONE DEI RISCHI SPECIFICO (DVRS)	Document issued by Contractors/Suppliers that shall take into account the Contracting Authority Interference Risk Assessment Document (DUVRI) and the emergency conditions communicated by the Contracting Authority.
SINGLE ASSESSMENT DOCUMENT FOR INTERFERENCE RISKS DOCUMENTO UNICO DI VALUTAZIONE DEI RISCHI DA INTERFERENZA (DUVRI) (<i>art. 26 c.3 Legislative Decree 81/08</i>)	Document issued by Contracting Authority whereby it assesses risks and indicates the measures adopted to eliminate or, where this is not possible, to minimize the risks of interference between the activities entrusted to Contractors/Suppliers and self-employed workers, and their subcontractors (if any) and the activities carried out in the same workplace by Contracting Authority. This document also certifies that the economic operators entrusted have been informed about the specific risks existing in the environment in which they will have to work and about the prevention and emergency measures adopted. This document is attached to the Contract and must be adjusted according to the evolution of the works, services and/or supplies.
INJURY	Evento lesivo fortuito avvenuto durante l'attività lavorativa che ha comportato il decesso, un'inabilità totale, permanente o un'assenza dal lavoro di almeno un giorno di calendario, ad esclusione del giorno di accadimento dell'infortunio stesso Any accident occurring during work that may result in death, total or permanent disability or absence from work of at least one calendar day, excluding the day on which the accident occurred
HSEQ Policy	Public statement of the intentions and principles of actions of an Organization regarding its HSEQ effects, giving rise to his strategic and detailed objectives
HSEQ Management System	It is organizational management system aimed to ensure the achievement of health, safety, environment and quality objectives in line with the HSEQ Policy. It includes the organizational structure, planning activities, responsibilities, practices, procedures and resources for developing, implementing, achieving,



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ACRONYM / ABBREVIATION	DEFINITION
	reviewing and maintaining the organization's HSEQ Policy, with a view to continuous improvement

2 General Requirements for Contracting Organization

As first requirement, all Contractor/Supplier awarded of a Contract by Contracting Authority are obligated to comply with and operate in accordance with current legislation on health, safety and the environment in the workplace.

Contracting Authority, pursuant to Legislative Decree 81/08, verify the technical and professional qualifications of the Contractors and provides to the same subject detailed information about the specific risks in the environment in which the Contractors will work and about the prevention and emergency measures adopted in connection with its activities.

The Contracting Authority promotes cooperation and coordination by preparing a unified risk assessment document (DUVRI) that indicates the measures taken to eliminate or, if this is not possible, to minimize the risk of interference [...] (for the detailed article refer to Art. 26 Paragraph 3 D.Lgs. 81/08).

Contractor/Supplier, within its scope of work, shall comply with the provisions of the PSC/DUVRI, with the documents (POS/DVRS) issued accordingly, with the site-specific operating procedures and Contracting Authority HSEQ Policy.

Contractor/supplier shall ensure that all its employees (and subcontractors' employees if any) will meet all HSE requirements.

In case of contract with the "supply only of materials or equipment":

- Supplier is not required to develop the POS referred to Article 89, Paragraph 1, letter h) of D.Lgs 81/08; however the provisions established by Article 26 has to be complied with in any case,
- Notwithstanding the provisions of Paragraphs 1 and 2 of the Article 26 of d.lgs 81/08, the obligation referred to Paragraph 3 of same decree does not apply to:
 - intellectual services,
 - the supply only of materials or equipment, works or services with a term not exceeding five men-day and if the works or services foreseen in the contract don't entail:
 - high level fire risk, according to the decree of the Minister March 10, 1998, ,
 - risks connected to the execution of activities in confined spaces, referred to regulation under the DPR 14 September 2011, n. 177 ,
 - presence of carcinogens, mutagens, or biological, asbestos or explosive atmospheres, or by the presence of the special risks referred to ' Annex XI of the Dlgs 81 2008 (Art. 26 Paragraph 3-bis D.Lgs.81/08).

In case installation/construction activities are within Supplier SoW, duties of Supplier shall be in line with those included in this document for Contractor.

In case of Contract which includes design engineering services, minimum requirements for the protection of Health, Safety and the Environment to be respected in the design phase are included in the following paragraph 5.1. Paragraph 5.1 provides the following information:

- summarize the applicable HSE requirements according to legal provisions, contractual requirements, international design standards and the HSE Management System;



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- provide a useful tool for Supplier to facilitate compliance with all applicable HSE requirements.

It is underlined that Paragraph 5.1 it is not intended to substitute standards and/or design criteria, such as:

- HSE requirements provided by international, national, regional laws/standards and local regulations.
- Prescription provided by Authority included in authorization documents.
- contractual HSE requirements or those coming from norms/standards and related applicable procedures for design and construction.

2.1 Requirements for Contractor

Contractor shall adopt an Health, Safety, Environmental and Quality Management Systems (HSEQ MS) in compliance with applicable international standards.

In particular, Contractor is requested to:

- (as first requirements) comply with the applicable national, regional and local regulations
- comply with the special requirements defined by Contracting Authority
- apply the relevant international technical codes and standards.
- implement an HSEQ Management System compliant with ISO 14001, ISO 9001 and ISO 45001 standards (if required in the "Disciplinare di Gara");
- develop, implement and maintain all HSEQ procedures necessary to ensure that the HSEQ requirements defined by Contracting Authority and the legislation in force are met.
- ensure that all potential hazards and related risks are properly identified, assessed and controlled before the commencement of any contracted activity
- demonstrate the suitability of the work equipment to be used for carrying out the work activities and plan the necessary controls and inspections to ensure compliance with HSE requirements.
- understand and implement Contracting Authority's HSEQ policy.

Contractor shall be fully responsible to guarantees the compliance of its subcontractors with the HSE requirements defined by the Contracting Authority

Contracting Authority reserves the right, at any time, to carry out inspections and Third-Party Audits at the work areas where the Contractor and/or Subcontractors operate.

During inspections, Contractor shall provide adequate support and allow Contracting Authority to:

- have access to any document pertaining to the execution of the Contract.
- have access to any workplace in which activities falling within the scope of the contract are carried out (any limitations may be imposed for security or military secrecy reasons)
- attend (as an observer) any meetings, inspections and test sessions conducted under the Contractor's or the Subcontractors' responsibility which are relevant to the activities covered by the Contract.

2.2 Minimum Environmental Criteria (CAM)

Contracting Authority implements the 'Green Public Procurement', Plan for the environmental sustainability of consumption in the public administration sector, adopting the Minimum Environmental Criteria (CAM) in



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its procurement procedures for the supply of goods and services and specifically for "Green Procurement", contributing to the achievement of the environmental objectives set by the European Union and the Italian regulations in force.

The CAM are the environmental requirements defined for the various phases of the purchasing process, aimed at identifying the best design solution, product or service from an environmental point of view along the life cycle, taking into account market availability. Their systematic and homogeneous application allows the dissemination of environmentally preferable technologies and products and produces a leverage effect on the market, inducing less virtuous economic operators to adapt to the new demands of the public administration.

The effectiveness of CAM was ensured by Article 18 of Law 221/2015 and, subsequently, Article 34 bearing "Energy and environmental sustainability criteria" of Legislative Decree 50/2016 "Procurement Code" (as last amended by Legislative Decree 76/2020), which made their application mandatory by all contracting stations.

This obligation ensures that the national green public procurement policy is incisive not only in the objective of reducing environmental impacts, but to promote more sustainable production and consumption models, to spread a circular economy and 'green' employment.

CAM has been adopted for 19 categories of supplies and contracts.

The design of "Executive Engineering" (in case the contract foreseen the definition of execution design and construction execution) shall be carried out in compliance with the applicable CAM in accordance with the provisions of Article 34 of Legislative Decree 50/2016 as amended and supplemented. It should be noted that CAM is currently not included in the final project.

2.3 HSE Requirements related to PED 2014/68/EU

The Pressure Equipment Directive 2014/68/EU - PED and the related Italian Legislative Decree No. 26/2016 defines the essential safety requirements for the design and manufacture of pressure equipment and/or assemblies.

In the case of supply of pressure equipment/assemblies under the scope of PED directive, the supplier is obliged to strictly adhere to the provisions of the relevant legislation.

Should there be any doubts as to the limits of supply, in terms of global certification in accordance with PED, the Supplier shall promptly inform Contracting Authority.

Should inconsistencies and/or deficiencies be found in the information provided by Contracting Authority and necessary for the purpose of PED certification, Supplier shall promptly contact the Contracting Authority for clarification.

Pursuant to Article 1 letter s) of Legislative Decree No. 26 of 2016, "Manufacturer" is defined as the natural or legal person who manufactures pressure equipment or an assembly, or who has such equipment or assembly designed and fabricated by other and it markets them under its own name or trademark or uses them for its own purposes.

Notwithstanding the legislative provisions binding the "Manufacturer" within the scope of application of PED, the purpose of this document is to specify only the minimum requirements for the documentation to be carried out by Suppliers of pressure equipment and/or assemblies subject to conformity assessment pursuant to Directive 2014/68 EU.

Package supplies under the scope of the PED Directive must be considered and certified as a pressure assembly; global certification of conformity as required by the PED must therefore be provided.



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The following documentation must be handed over to Contracting Authority prior to shipment of the material to the installation site:

1. Manufacturer's Declaration of Conformity, stating that the certified equipment complies with the PED Directive;
2. ON or EU Certificate of Conformity (if applicable) for the conformity assessment of the certified equipment, supporting the above mentioned Declaration of Conformity;
3. Copy of the nameplate, showing the design data of the certified equipment;
4. Drawing of "as built" assembly, necessary for understanding the design of the certified equipment;
5. Use and Maintenance Manual, in accordance with the provisions of the PED, in order to carry out the verification of correct installation by the appointed body during the Initial Plant Verification and in any case during the subsequent Periodic Verifications.

For suppliers of Packages, the above documentation shall be related to the Package and supported by the list of pressure equipment pursuant to Legislative Decree 26/2016 that constitute the Package.

Any further requirements provided for contractual documents between Contracting Authority and Supplier shall remain valid.

In case the supply includes PSVs and/or other protective devices certified as Safety Accessories pursuant to PED, the following documents shall be provided:

- date of calibration / calibration expiry date;
- calibration/test certificates;
- dimensioning calculations.

Packages' protection devices, in particular safety accessories, shall be foreseen and identified by the Manufacturer even if they are totally or partially outside the scope of supply.

In the specific case in which such systems are outside the scope of supply, Manufacturer of the Assembly shall be in charge to indicate all the relevant requirements for the User in the Operating Instruction Manual in accordance with point 3.4 of Annex 1 of Directive 2014/68/EC.

2.4 HSE Requirements related to Machinery Directive 2006/42/EC

In case of the supply of equipment including in the scope of Directive 2006/42/EC (Machinery Directive) and Legislative Decree No. 17 of 27/01/2010, all Suppliers shall comply strictly with the relevant legislation in force.

Following receipt of the order, Supplier shall inform Contracting Authority that the machine, set of machines or package will be accompanied by an "EC Declaration of Conformity for the Machine" in accordance with the Machinery Directive 2006/42/EC, Annex II, Part 1, Section A.

In case Supplier intends to issue a "Declaration of Incorporation of partly completed machinery" in accordance with the Machinery Directive 2006/42/EC, Annex II, Part 1, Section B, Supplier shall provide to Contracting Authority due justification for this.

The Supplier is required to produce all documents required by the Machinery Directive and provide them to the Contracting Authority.



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2.5 HSE requirements related to ATEX Directive 2014/34/EU

Electrical equipment installed or used in hazardous areas shall be suitable for use in the correctly classified hazardous area and shall in any case be in accordance with Directive 2014/34/EU ATEX and Legislative Decree No. 85/2016.

3 Documentation to be provided during bidding stages

During Bidding phase, the Bidder shall develop and submit the documentation required in the invitation to Tender or with the letters of invitation to make an offer.

During this phase, Bidder shall submit at least the documents/information listed in the following Table A.

To simplify the retrieval and traceability of the information contained in the Bidder's Proposal, Bidder shall specify for each requirement (A.1, A.2, etc.) the related document(s) that provide(s) the required information.

If such documents are already required by the technical and management specifications or by other documents relating to the award procedure, it is enough to include the reference details of these documents.

For requirements deemed NOT applicable to the scope of supply, the Bidder shall provide a documented response, including the reasons for such non-applicability.

Through this documentation Bidder shall demonstrate that his service, personnel, processes and/or equipment will meet Contracting Authority's HSEQ requirements and shall indicate how the same documentation is communicated to any subcontractors (if applicable).

In particular, Bidder shall demonstrate, on its own behalf and on behalf of any subcontractors, the capability to adopting procedures appropriate to the scope of the works (e.g. in relation to hazard identification and risk assessment, preparation of emergency response plans) and to organize periodic checks to ensure their correct implementation (e.g. by means of audits or inspections of work areas), thereby ensuring that the works programmed are completed in accordance with the Contracting Authority's HSEQ requirements and without compromising HSEQ performance.

In relation to Contracting Authority's HSEQ requirements, Bidder may request a formal exception if it demonstrates that a requirement cannot be met, provided it is followed by a proposal to adopt equivalent compensatory measures. In any case, any changes/exceptions shall be detailed and justified in the Technical Offer or other documentation provided by the Bidder and it will be subject to evaluation.

In the case of Associations of Companies, each Partner shall be provided with all documentation requested by Contracting Authority. It shall be the responsibility of the main representative to send such documentation to Contracting Authority when submitting the offer.

In the case of Consortia (where such a configuration is possible as per the Tender Specifications), the above documentation shall refer to the Consortium as a whole.

As per above, for participation in tendering procedures, Bidder (Contractor/Supplier) shall provide the following HSEQ documentation/information.



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TABLE A – Documentation required during Bidding stage (GENERAL)

Item	Docuemntation/Information	Subjects required to provides documentation/information	
		Contractor	Supplier
A.1	ISO 14001, ISO 9001 Certifications	X	X
A.2	ISO 45001 Certification (if required)	X	
A.3	HSEQ Policy	X	X*
A.4	HSE Indicators as requested in the Tender or in the the letters of invitation	X	
A.5	Acknowledgement of Contracting Authority: - PSC (as per L.D 81/08 – Titolo IV); - DUVRI (as per L.D. 81/08 – Art. 26); (where applicable based on the scope of the Work)	X	X
A.6	DVR as per art. 17 and 28 del L..D 81/2008	X	X
A.7	Ordinary Safety costs and Interferential Safety costs (as required in the tender notice or in the letter of invitation).	X	X*
A.8	Draft of the Construction Site Emergency Plan	X	
A.9	List of wastes produced during the construction activities with the corresponding CER codes and draft of the waste loading/unloading register.	X	
A.10	HSEQ Management System procedures	X	X*
A.11	Any other HSEQ documentation required by the Public Procurement Code (D.Lgs. 50/2016), by the Tender Contract and by applicable safety, health and environmental legislation	X	X

(*) If required

NOTES

The interferential safety costs estimation will be provided by Contracting Authority within the request for tender documentation. In case of Framework Agreements, the estimation of such costs, originally attached to the request for tender, may be revised and supplemented (if necessary) at the time of the Request for Offer for the execution of the activities that will be managed within individual Application Agreements entered in accordance with the General Framework Agreement.

4 Contract Execution

During the kick-off meeting (KOM), issues related to HSE aspects will be discussed to ensure that all the contract requirements and the HSE risks associated with the activities to be carried out have been understood by the parties involved.

In this view, the meeting shall be held immediately after the award of the contract and (if any) after the award of the individual Application Agreements (where deemed necessary) in due time before the execution of any work in order to avoid delays or unforeseen problems.

Before the KoM, Contractor/Supplier shall provide in advance required documents for the start-up of activities in order to obtain Contracting Authority's approval.

The documents listed and required in TABLE B shall be discussed during the KoM and shall be officially re-submitted to Contracting Authority for approval according to the agreed timeline and reasons for documents'



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issue (e.g. for information, approval, review and any other necessary action) according to the instructions provided in the contractual documents.

The Table B reports a list of the documentation/information to be provided by the Contractor/Supplier after the award of the contract and the supply.

TABELLA B – Documentation to be provided after the award of the Contract

ITEM	REQUESTED DOCUMENTATION	CONTRACTOR	SUPPLIER
B1	Contractor Employer Declaration: <ul style="list-style-type: none">to be in compliance with all the obligations laid down in Legislative Decree 81/08 and subsequent amendments and additions, and in current HSE legislationthat his own personnel and those of any subcontractors (if any), who will be employed during the works, will be informed/trained in advance on:<ul style="list-style-type: none">tasks to be carried outspecific risks related to the activities to be carried outuse of prevention and protection equipmentPPE belongs to the third category;confined space and/or lifting activities (if foreseen);Site specific emergency plan.on workers fitness to work (FTW) especially for activities with particular risks (e.g asbestos, confined spaces, lifting activities.)	X	X*
B2	In case of visits and activities planned at the ENEA site, the list of Contractor personnel who will access Contracting Authority's sites containing name, surname, date of employment, qualification and copy of the employee register or UNILAV (depending on whether they were hired before or after 2008) and copy of a valid ID document	X	X
B3	In case of visits and activities planned at the ENEA site, copy of the certificates/qualifications of the personnel that may be necessary (based on the activity to be performed) for: <ul style="list-style-type: none">working at heightuse of 3° category PPE (gas masks, self-contained breathing apparatus, safety harnesses)assembly of scaffolding and provisional workswork with ionizing radiation (Art 180, Paragraph 3 L.D. 81/08)remediation of material containing fibers (ceramics, asbestos, silicon)work equipment (e.g. forklift trucks, cranes, lifting platforms) for which a specific qualification is required (as per Art.73 of the LD 81/2008)working in confined spaceselectrical works (PEI, PES, PAV)	X	
B.4	In case of visits and activities planned at the ENEA site, training/education certificates for specific tasks related to emergency management (fire fighting, first aid);	X	



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ITEM	REQUESTED DOCUMENTATION	CONTRACTOR	SUPPLIER
B.5	Organisation chart of the Contractor with reference to the worksite, for the following figures: Employer, Site Manager, Team Leader(s), RSPP, first aid, emergency management and fire-fighting team members; Workers' Safety Representatives (Rappresentante dei lavoratori per la sicurezza -RLS) and Competent Doctor.	X	
B.6	Specific Risk Assessment Document (Documento di Valutazione del Rischio Specifico - DVRS) for the contracted activities, taking into account the contents of the Contracting Authority's DUVRI.	X	X
B.7	Risk assessment of ionising radiation, prepared by a Qualified Expert (if applicable)	X	X
B.8	List of substances classified as hazardous and their valid safety data sheets (e.g. toxic, corrosive, harmful, irritant, flammable)	X	X
B.9	Operational Safety Plan (Piano Operativo di Sicurezza - POS) pursuant to Legislative Decree 81/2008 Title IV	X	
B.10	Documentation relating to the equipment and vehicles for which access is requested: <ul style="list-style-type: none">Letter of request for authorization previously specifying the reference contract number, the model and nameplate of the vehicles, that shall be countersigned by official responsible of the procedure (Responsabile Unico del Procedimento RUP);Copy of the vehicle registration document;Valid insurance policy and receipt.Copy of the last periodic inspection carried out by the competent body for the equipment referred to in Annex VII of Legislative Decree 81/08 (if applicable)..	X	
B.11	List of the equipment that will be used on site, with a declaration of compliance with the regulations in force and of perfect state of preservation/maintenance; documentation proving compliance with the requirements of the regulations and correct maintenance	X	
B.12	PPE List	X	
B.13	Copies, where applicable, of the following documents relating to the provisional works: <ul style="list-style-type: none">structural calculation report for scaffolding of a height of 20 m or more and scaffolding out of scheme; copy of the documents relating to the Scaffolding Assembly, Use and Dismantling Plans (P.I.M.U.S.).	X	
B.14	Construction Site Emergency Plan	X	
B.15	Any other HSE documents as per the requirements defined for tender participation, according to the Legislative Decree 50/2016, required by the HSE regulations of applicable law and as per HSE clauses of contract.	X	X

* If required

NOTE:

Contractor/Supplier shall be responsible for the delivery of the same documentation by its subcontractors (if any) according to the timeline and methodology required by Contracting Authority.



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Topics to be covered in the Kick-off Meeting shall include (but not be limited to) the following:

- understanding of Contract's objectives, with special focus on relevant HSE implications
- any pending exceptions and clarification to be closed prior to execution phase (f any)
- schedule of the HSE activities
- HSE Organization Chart, with evidence of training, competencies and relevant certificates
- Confirmation that roles, responsibilities, interfaces and lines of communication between Contractor/supplier and Contracting Authority have been clearly defined and understood;
- confirmation of the skills of the Suppliers'/Contractor's personnel in relation to the tasks to be carried out and of the previously received adequate technical training, including in HSEQ matters;
- review of HSE risks associated to the contracted activities and review of HSE risks assessment generated by interference between simultaneously activities conducted by Contracting Authority and Contractor at site;
- review of relevant regulations and compliance requirements, including required permits or licenses;
- comply with Contracting Authority's procedures, work instructions and plans, when contractor is present at Contracting Authority workplaces,;
- Briefing of Subcontractors' management on HSE requirements;
- Coordination of Contracting Authority's and CONTRACTOR's emergency and response plans;
- Agreement on HSE reporting process, including incident reporting and investigation process.

5 Engineering phase

5.1 HSE Requirements for the Engineering Phase

The following minimum HSE requirements should be considered during the design phase, where applicable.

Within the design phase, specific studies shall be conducted in order to assess the risks for all areas and equipment and services subject to design (e.g. cooling, water treatment, etc.); the risk identification shall be carried out as early as possible in order to evaluate the necessary safety barriers and provide information to support decision making on risk reduction measures.

The design shall, in any case, consider any recommendations resulting from the risk analyses carried out during the previous engineering phases and any applicable requirements indicated by the Competent Bodies within the Authorization Process.

The design of the executive engineering and the execution of the works shall be carried out in compliance with the applicable CAM in accordance with the provisions of Article 34 of L.D..50/2016. It should be noted that CAM is not currently included in the final project.

The design shall in any case ensure that impacts on the environment are minimized as much as possible by eliminating or minimizing losses (both radioactive and non-radioactive) and by limiting the use of hazardous chemicals.

Reducing water use shall be one of the main design criteria.

Liquid waste management shall be carried out in accordance with the regulations in force; the separation of the various effluents (process wastewater, sanitary water, cooling water, rainwater) shall be guaranteed.

The design shall ensure that all new areas with the potential pollution risk due to the presence of hazardous substances will be realized with the necessary measures aim to contain any runoff water spills (i.e.: roofing, containment basins/borders to prevent rainwater from flowing into the rain water network) . In any case,



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rainwater shall present contaminants concentrations not exceeding the limit values established by the national and local legislation at the point of discharge into the receiving water body.

Where necessary, the management of fire-fighting water once discharged from the relevant systems should be assessed.

The design shall provide suitable areas for the management of the various wastes arising from the operation of the plant, with reference to type and quantity.

The storage area for waste or hazardous substances shall be designed to prevent and control accidental spills into the soil (e.g. by measures such as: double bottom, adequate paving in a specific risk area, impermeable slabs).

During the design process, spillage and/or emptying shall be managed by dedicated drainage systems according to the type of wastewater identified; the philosophy of recirculation shall always be considered where possible. Where necessary, the need for waterproofing and monitoring of containment basins should be considered.

The project shall be designed and executed in order to control and mitigate noise impacts during both project execution and facility's operations at the sensitive receptors.

Noise levels shall be in accordance with Legislative Decree of 9 April 2008, No. 81 "Attuazione dell'articolo 1 della legge 3 agosto 2007 n° 123, in materia di tutela della salute e della sicurezza nei luoghi di lavoro".

For new machines and devices that are normally in operation, the following maximum limit shall be considered in accordance with Article 189 of Legislative Decree of 9 April 2008, No.81 and Legislative Decree of 27 January 2010, No. 17:

- 85 dB(A) at a distance of one meter which corresponds to the "Upper Action Value": in the event that noise exposure is equal to or above the Upper Action Value, the Employer shall make every effort to ensure that PPE is worn.

It should also be noted that compliance with the Municipality of Frascati's Acoustic Zoning Plan (DCC n.27/2009 - Classificazione in zone acustiche del territorio comunale) shall be ensured.

For vibrations, the values (normalised for 8-hour exposure) are as follows.

- Arm-hand vibration:
 - Action value: 2.5 m/s²
 - Exposure limit: 5 m/s²
- Whole-body vibration
 - Action value: 0.5 m/s²
 - Exposure limit: 1.15 m/s²

The light pollution on the neighboring receptors during night shall be reduced at minimum level.

In accordance with the agreements established within the authorization process with the competent bodies, the project shall be designed and executed in order to reduce and minimize the visual impact of the facilities on landscape by dedicated mitigation measures. The mitigation measures shall aim to blending the infrastructure with the surroundings (for example, suitable paint colors shall be considered for large structures or use of landscaping techniques).

Measures for the protection and mitigation of electromagnetic fields shall be taken into account during the design process in accordance with the applicable regulations.



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6 Constraction Phase

6.1 Site documentation

The Contractor shall keep the following minimum documentation available on site, as shown in the following Table

TABLE C – Site documentation

ITEM	REQUESTED DOCUMENTATION
C.1	Any Delegation of Functions pursuant to Article 16 of Legislative Decree 81/2008
C.2	References of workers' safety representative (Rappresentante dei lavoratori per la sicurezza RLS) with the relative training certificates (articles 47 and 37 (10) Legislative Decree 81/08 et seq.), names of the workers assigned to fire prevention and firefighting, evacuation , rescue and first aid - "management of emergencies" (Article 43 paragraph 1, letter b), Legislative Decree 81/08 and subsequent amendments)
C.3	certificates and/or documentation relating to training of employees assigned to fire prevention and firefighting, evacuation, rescue and first aid (emergency management) (Article 37 (9) Legislative Decree 81/08 and subsequent amendments)
C.4	Certificates and/or documentation related to training, information and instruction pursuant Article 18 (1), lett. l), of Legislative Decree 81/08 and subsequent amendments, in particular: a. information (Article 36, Legislative Decree 81/08 and subsequent amendments); b. training (Article 37 of Legislative Decree 81/08 and subsequent amendments); c. instruction (Article 37, Legislative Decree 81/08 and subsequent amendments); d. training on the use of equipment used by workers (Article 71 (7) letter a) and art. 37, Legislative Decree 81/08 and subsequent amendments in connection with art. 73 (4)); e. training and instruction on the use of PPE (Article 77 (4) letter h), Legislative Decree 81/08 and subsequent amendments); f. training and instruction of the employees and the person in charge of assembling and dismantling or modification of the scaffolding (Article 136 (6), Legislative Decree 81/08 and subsequent amendments);
C.5	Operational Safety Plan (POS), where required, (Article 96 (1), letter g), Legislative Decree 81/08 and subsequent amendments);
C.6	Specific Risk Assessment Document (DVRS), where applicable (art. 26, D. Lgs. 81/08 e s.m.i.);
C.7	Risk Assessment Document (DVR), where applicable, (Article 26 of Legislative Decree 81/08 and subsequent amendments);
C.8	Ministerial authorization for the use of the scaffolding and a copy of the technical report of the manufacturer (Article 134 (1) of Legislative Decree 81/08 and subsequent amendments);
C.9	Scaffolding project signed by a qualified engineer or architect (Article 133, Legislative Decree 81/08 and subsequent amendments);
C.10	assembly, use and dismantling plan of the scaffolding (Pi.M.U.S.), complete with the executive design and the other requirements set out in Annex XXII and art. 136 (1) Legislative Decree 81/08 and subsequent amendments);
C.11	instruction booklet of the wheeled bridge supplied by the manufacturer (Article 71 (4) letter a) point 2), Legislative Decree 81/08 and subsequent amendments);
C.12	booklet of "Instructions for Use" and "Control Register" complete with any updates to the machinery on site (Article 71 (4), letter a) point 2), Legislative Decree 81/08 and subsequent amendments);



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ITEM	REQUESTED DOCUMENTATION
C.13	booklets of lifting machinery with a capacity exceeding 200 Kg. complete with the periodic verification reports carried out by the competent body (Article 71 (11) Legislative Decree 81/08 and subsequent amendments in connection to Annex VII);
C.14	request to the competent body for the approval of lifting machinery operated before 21/09/96 or statement to ISPESL/INAIL of the first installation if operated after 21/09/96;
C.15	booklets of pressure vessels (PED regulation) complete with any periodic checks (Article 71 (11) Legislative Decree 81/08 and subsequent amendments in connection to the annex VII);
C.16	statement of compliance of the electrical system in a workmanlike manner, complete with the report with the checks required by current legislation, including those of the functionality of the plant and the type of materials used (Article 7 (1) Ministerial Decree 37/08).
C.17	Any other HSE document as per HSE contract required by applicable law

The above list is only meant to be supportive and does not replace legal obligations.

6.2 Requirements for Contractor during construction phase

Here below are included the requirements supporting the PSC prepared by Contracting Authority.

Contractor shall ensure that activities are managed in accordance with the contract by:

- ensuring the compliance with Contracting Authority's HSEQ requirements, contractual requirements, applicable legal requirements and internationally recognized standards;
- providing a safe environment for all personnel;
- ensuring sufficient and competent resources are in place to control the identified HSE and radiation risks within the activities as per scope of work;
- ensuring that the personnel is trained and informed about risk control measures and about procedures, work instructions and HSEQ plans to be implemented;
- ensuring that all necessary actions are implemented to reduce HSE and radiation risks where present;
- providing competent site supervision for overseeing the scope of work;
- ensuring that potential health and environmental impacts connected to the site activities are identified and relevant control measures are implemented;
- notifying and obtaining approval from Contracting Authority prior to changing out any personnel in positions that are considered HSE sensitive;
- putting in place and implementation of site emergency management plans;
- conducting periodic HSE and radiation protection audits/inspections to assess compliance with both Contracting Authority and Contractor requirements and with applicable legislation;
- supporting any HSE and radiation protection audit/inspection performed by the Contracting Authority or third party instructed by the Contracting Authority;
- planning regular meetings with Contracting Authority aim to analyze HSE aspects
- ensuring that an health surveillance programmer is implemented in relation to the risks of the workers involved in the activities and in line with the results of the relevant risk assessment,
- guarantying that the staff has been medically fit for the job assigned



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- (in case of supervised work) ensuring that the medical organization provided at the site is able to ensure effective first aid, adequate medical care and prompt response to emergencies, taking into account the maximum number of workers envisaged for the activities and the results of the health risk assessment;
- ensuring that his personnel attend an HSE induction training session
- providing adequate PPE in accordance with the risk assessment. With regard to the PPE for which specific training is required, the Contractor shall provide evidence that such training has been carried out (records, certificates, etc.);
- ensuring that personnel is adequately informed about HSE aspects related to the workplace and the operations to be carried out

Contractor shall conduct adequate and comprehensive risk assessments for all routine and non-routine activities and shall ensure that no contracted activity is performed without a specific risk assessment.

The Contractor shall guarantee, also by means of suitable monitoring, that all the risk mitigation and control measures are constantly and effectively implemented and shall immediately report to the Contracting Authority any accident (actual or potential) occurring during the execution of the works.

If included in the scope of work, the Contractor shall prepare all HSE documentation required by the legislation necessary for the execution of the activities. The Contractor shall take charge of all technical alignments, any requests for integration and any prescriptions specified by the Competent Bodies within the Authorization procedures in progress. The Contractor shall also accept any recommendations from the risk analyses carried out for the project.

The Contracting Authority reserves the right to take part in the accident investigation process.

Contracting Authority reserves the right, at any time, to conduct audit/inspection (conducted or by Contracting Authority or by third party instructed by the Contracting Authority, at the premises/worksites of Contractor and/or subcontractors (if any), to verify the compliance with HSE requirements.

6.2.1 Contractor's Role and Responsibilities for HSE activities

The Contractor shall identify the following roles:

6.2.1.1 Employer (Datore di Lavoro)

As per Art. 2, Paragraph b) of the L.D. 81/08 the "Employer" is defined as "the subject holding the employment relationship with the worker or, in any case, the subject who, according to the type and structure of the organization in which the worker works, is responsible for organization itself or of the production unit as it exercises decision-making and spending powers...".

The Contractor's Employer in addition to the general obligations for the protection of its employees, there are other specific obligations as mentioned in the following list:

- The preparation and issue of POS
- The maintenance of the construction site in orderly and satisfactory conditions
- the choice of the location of workplaces taking into account the conditions of access to construction site, defining routes or areas of movement or circulation
- to take care of the handling conditions of the various materials
- verify the maintenance and the conditions of any work equipment, system or device both before entry in service and periodical use, in order to eliminate defects that may affect the safety and health of



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worker the delimitation and preparation of the storage and deposit areas for the various materials, in particular when dealing with hazardous materials and substances

- the adjustment, according to the evolution of the construction site, of the actual duration to be attributed to the various types of the activities or work phases
- the cooperation and coordination between employers and self-employed workers
- the interactions with the activities that take place on construction site, inside or near the construction site.
- adopt the measures that comply with the requirements set out in Annex XIII L.D. 81/08
- prepare the access and fencing of the site in a clearly visible and identifiable manner
- take care of the arrangement or stacking of materials or equipment in order to avoid their collapse or overturning
- ensure the protection of workers against atmospheric influences (heat and cold protection) that can compromise their safety and health
- take care of the conditions for the removal of hazardous materials, subject, if necessary, to coordination with the Contracting authority or the works supervisor
- ensure that the storage and evacuation of debris and rubble are carried out correctly
- foresee and update continuously the Emergency plan. The plan shall consider all the information about the management of the emergency in the Contracting authority's site.

As per Art. 37 "Training of workers and their representatives" the Employer shall ensure that each worker receives sufficient and adequate training in the field of health and safety, also with respect to language skills, with reference to:

- concepts of risk, damage, prevention, protection, organization of corporate prevention, rights and duties of the various corporate entities, supervisory bodies, control, assistance
- risks relating to the job and the possible damage and the resulting measures and characteristic of prevention and protection procedures in the industry or sector of belonging.

6.2.1.2 Site Construction Manager (Direttore di Cantiere)

The Site Construction Manager is the person who manages the site on behalf of the Contractor.

The Site Construction Manager (L.D. 50 2016) is appointed by the Contractor who involved in the execution of the activities and therefore acts in the interest of the employer through a control activity according to the contract specifications.

Additionally, the Site Construction Manager:

- organizes the work activity
- supervises the work activity.

Moreover, the Site Construction Manager shall take care of all safety requirements:

- adopt the protective measures provided for in the Safety Plan
- supervise workers and subcontractors



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- liaise with sub-contractors to enforce safety regulations
- equip the site with all the necessary features to prevent accidents.

6.2.1.3 Supervisor /person incharge (Preposto)

Art. 2 Paragraph 1 Letter e) of the Dlgs 81 2008 has defined the Role of "In Charge" as the "...person who, by virtue of professional competence and within the limits of hierarchical and functional powers appropriate to the nature of the assignment conferred on him, oversees the work and ensures the implementation of the directives received, workers and exercising a functional power of initiative" The obligations are listed in art.19 D.Lgs. 81/08.

The "person in charge" continuously oversees the execution and progress of the work and monitors the effectiveness of the safety measures taken.

Is the person in direct contact with the workers and therefore the one who in real time can manage the different situations on the worksite and make sure that the workers comply with the safety measures.

The person in charge must therefore continuously and effectively ensure that the worker follows the safety instructions given and, if necessary, uses the prescribed protective tools.

6.2.1.4 Responsible of the Prevention and Protection Services (RSPP – Responsabile del Servizio Prevenzione e Protezione)

The "Responsible of the Prevention and Protection Service" (RSPP) is defined in the Art 2, Paragraph 1, Letter f as the "Person in possession of the professional skills and requirements referred to in Article 32 designated by the Employer, to whom he is accountable, to coordinate the risk prevention and protection service".

The "Responsible of the Prevention and Protection Service" (RSPP) collaborates:

- in the identification of risk factors, risk assessment and identification of measures for the safety and health of the workplace, in compliance with current legislation on the basis of specific knowledge of the organization;
- to elaborate, to the extent of its competence, the preventive and protective measures , and the control systems for such measures;
- to elaborate the safety procedures for the various activities;
- to participate in periodic prevention and protection meetings ;
- to provide workers with the information and training concerning the risk assessment and relative prevention and protection measure, and to emergency management.

6.2.1.5 Worker's Representative for the Safety (Rappresentante dei Lavoratori per la Sicurezza RLS)

Some of the task of the the Workers' Representatives for the Safety are the following (Article 50 of the Dlgs 81 2008):

- is consulted in advance and in a timely manner regarding risk assessment, identification, planning, implementation and verification of prevention;
- reports the identified risks to the Employer and monitors the effective implementation of prevention and safety measures;



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- may have recourse to the competent Authorities if it considers that the risk prevention and protection measures adopted by the Employer or Managers and the means used to implement them are not suitable for guaranteeing safety and health at work.

6.2.1.6 Emergency and First Aid Officer (Addetto alla squadra di emergenza e primo soccorso)

Workers in charge of implementing fire prevention and firefighting measures, evacuation of the site in case of serious and immediate danger, rescue and first aid, and in any case emergency management.

6.2.1.7 Competent Doctor (Medico Competente)

The "Competent Doctor", as defined in Article 2 (h) of Legislative Decree no. 81 of 9 April 2008 is in possession of one of the qualifications and training and professional requirements referred to in article 38 , who collaborates, , with the employer for the purposes of risk assessment and is appointed by the same to carry out health surveillance.

6.2.2 Subcontracts

The subcontracting activity shall be in accordance with the provisions of the Italian Procurement Code D.Lgs 50/2016) and the contractual documents.

In case of Subcontractor, Contractor has the overall HSE responsibility of its subcontractors with regard to HSE issues. It shall be Contractor's responsibility to ensure that any subcontractors comply with the Contracting Authority HSE requirements and in the contract documentation.

In addition, it shall be Contractor's responsibility:

- to ensure that any subcontractors and/or joint venture partners' HSE management systems comply with national, regional and local laws, Contracting Authority requirements, codes and international standards;
- to ensure HSE performance of subcontracted activities in line with Contracting Authority expectation;
- to manage subcontractors with the same rigor as they would their own HSE MS and staff.

Contracting Authority reserves the right, at any time, to conduct audits and inspection at the premises/worksites of subcontractors.

6.2.2.1 Authorization to subcontracts in Title I and Title IV del Dlgs. 81/08

The Contractor is prohibited from assigning or subcontracting all or part of the work envisaged in the contract without prior formal consent from the Contracting Authority.

The modalities for communicating subcontracting will be defined in the contract documents.

The Authorization of the Contracting Authority, which shall be granted in writing, does not entail any change in the contractual obligations of the Contractor

The Contractor shall be directly responsible towards the Contracting Authority for the actions of subcontractors or their personnel and shall, in any case, hold the Contracting Authority undamaged from any of their requests or claims..



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Before the start of the work, Contractor shall transmit Contracting Authority's DUVRI to any subcontractors and to self-employed individuals, and before the commencement of the respective works, each subcontractor's draws up its POS related to the activities covered by the Tender Contract and transmits it to the Contractor that evaluates its consistency with respect to its own **(In the case of Title I - art. 26)**.

Before the commencement of the work, the Contractor shall transmit the PSC to any subcontractors and to self-employed individuals, and before the commencement of the respective works, each subcontractors draws up its POS related to the activities covered by the Tender Contract and transmits it to the Contractor that evaluates its consistency with respect to its own and subsequently Contractor transmits it to Contracting Authority CSE **(In the case of Title IV)**.

Contractor, shall:

1. coordinate the activities of subcontractors, communicating adequate information on the instructions given by the Contracting Authority and/or established in the coordination meetings;
2. guarantee the presence of the subcontractor's managers in the coordination meetings, if requested by the Coordinator;
3. verify that the personnel of the subcontractors:
 - are aware of the conducts to be taken in case of emergency;
 - are informed of/trained on the activity to be performed and on the safety measures to be adopted;
 - use individual protection devices correctly;
 - use the equipment and vehicles correctly;
 - build, use and safely maintain scaffolding, work surface areas and access platforms;
 - maintain the workplace and the area inside and outside the building site clean and tidy.

Moreover, with respect to subcontractors, Contractor shall transmit to Contracting Authority all the subcontractor's documentation attesting the conformity to health and safety requirements established by law about the professional verification procedure on technical suitability. The Contractor will be responsible for the delivery of the same documentation, by its subcontractors, within the time frames and in the manner requested by the Contracting Authority

6.2.3 Authorization to access

Contractor is requested to communicate (to the Contracting Authority Employer (or Delegate), to the official responsible of the procedure in contracts (Responsabile Unico del Procedimento RUP/ Responsabile dei Lavori RL) in the case of Article 26, or to Coordinator for the Safety in Execution (Coordinatore della Sicurezza in fase di Escusione - CSE) in case of Title IV of Legislative Decree 81/08, before the commencement of works, the names of its personnel and that of any subcontractors that it intends to employ for the completion of the works under the contract. Only such personnel will be allowed to access to the work areas, subject to delivery and verification of documentation attesting the employment, training and safety equipment related to the names communicated and prior authorization to access according to the procedures provided by the Contracting Authority.

Contractor is required to communicate in advance and promptly any changes to the list of personnel authorized to enter the workplace. The Contractor provides his staff with identification badges that respect the current legislation in their contents. The staff shall always wear the identification badges and be in possession of an identification document. The Contractor is required to demand and verify that its personnel



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or that of its subcontractors always wear the identification badge. The communications referred to in this paragraph shall be sent to the Contracting Authority 's representative who will manage the communications according to the scope of application of Article 26 or of Title IV of Legislative Decree no. 81/08.

Contractor shall inform the ENEA Frascati Centre Management Service about the vehicles (type, number plate or registration number) that intends to use during the execution of the works.

Vehicles shall be listed. Vehicles that are not included in the list will not be allowed to enter.

In the case of transports for which vehicles and operators with ADR authorisation are required, Contractor shall provide a copy of the ADR licence of the driver in charge of the transport and a copy of the documentation of the vehicle certifying that it has ADR characteristics.

The roads leading to the various areas involved during the executive activities shall be travelled at a speed not exceeding 20 km/h. Trucks and other vehicles shall always be in efficient physical and mechanical condition and the load transported shall be within the limits prescribed by the vehicle's registration certificate, in order to travel safely along the various road sections.

6.2.4 Site activity coordination procedure

Contractor shall demonstrate, on its own behalf and on behalf of its subcontractors, that procedures for the coordination of site activities according to the specific risk will be considered, in order to

- univocally detail each planned activity and assess its dangers and the necessary precautions to ensure the highest level of safety;
- clearly define the purpose of the activity and describe in a logical sequence how it is to be carried out, also taking into account any interferences;
- define responsibilities;
- provide appropriate operator training and adequate information regarding potential hazards;
- ensure the provision of adequate safety equipment.

Each work team of the Contractor shall be led by a Team Leader (Capo Squadra), who shall also be the holder of the role of Executive Authority (or equivalent role). The number of Team Leaders available shall therefore be commensurate with the planned activities/phases.

Coordination between related activities must be ensured

HSE supervision must be provided on all shifts (if foreseen), both daily and for rotations on a weekly, monthly or any other time basis.

The number of HSE supervisors to be ensured by the Contractor is bound to the number of workers and will in any case be indicated in the PSC.

6.2.5 PPE (Personal Protective Equipments)

Article 74 of Legislative Decree 81/08 defines personal protective equipment (PPE) as any equipment intended to be worn and held by the worker for the purpose of protecting him against one or more risks likely to threaten his safety or health at work, as well as any complement or accessory intended for that purpose.

Contractor's Employer has the responsibility for the choice of protective equipment - appropriate to the needs identified in the risk assessment.



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Contractor's Employer shall therefore, when choosing the PPE, operate:

- identifying the characteristics and suitability of the PPE according to the nature of the risks;
- adapting the choice of PPE each time the risk conditions change.

Pursuant to Article 78 of Legislative Decree 81/08, workers are obliged to:

- undergo training and instruction programmes as requested by its Employer and in the cases established by the law;
- use the PPE exclusively for the intended purpose, and in any case always in accordance with the instructions, training and instruction received; make no modifications or tampering.

Although the responsibility for the choice of PPE lies with the Contractor's Employer on the basis of the specific risk assessments for its own activities, for the purposes of the choice of PPE the Contractor must take into account the interference risks reported in the PSC made available by the Contracting Authority.

The PPE must comply with the provisions of European Regulation (UE) n. 2016/425 (Art. 76 D.Lgs. 81/08) ., be suitable for the risks to be prevented, without entailing a greater risk, be appropriate to the conditions existing in the workplace, take into account the ergonomic or health requirements of the worker, and be adaptable to use according to the worker's needs.

According to Article 76 of Legislative Decree 181 2008, PPE shall comply with the standards (as set out in Regulation (EU) No. 2016/425) and shall in any case:

- be appropriate to the risks to be prevented, without entailing an increased risk;
- be appropriate to the existing conditions in the workplace;
- take into account the ergonomic or health needs of the worker;
- be adaptable to the user according to his needs.
- in the case of multiple risks requiring the simultaneous use of several PPE, these shall be compatible with each other and such that, even in simultaneous use, shall remain effective against the corresponding risk and hazards.

PPE shall be specific to the tasks to be performed, (i.e. welding, grinding, chemical handling, electrical maintenance, etc.); in any case, appropriate PPE shall be provided considering the general weather conditions in the area of contract execution and the possible presence of the following dangers:

- explosions;
- electrocutions;
- fire;
- chemical substances;
- radioactive substances;
- pressure equipment (lines, vessels);
- shocks;
- suspended loads;
- falling objects;
- slips and trips;
- oily surfaces;



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- cuts;
- burns/burns;
- heat/cold.

6.2.6 Accidents and near-misses

In the case of accidents or near misses that occur to its own personnel, its subcontractors' personnel or third parties during or as a result of the execution of activities, the Contractor, without prejudice to its own autonomy and responsibility, besides immediately carrying out any provisions that may be envisaged by the laws that regulate the matter, must immediately inform the Contracting Authority, indicating the causes and circumstances that caused the accident.

The Contracting Authority reserves the right to verify the causes that led to the accident.

The Contractor must also immediately inform the Contracting Authority of any dangerous situations or behavior that may cause an accident that it encounters during its activities, and must also report any events that, purely by chance, have not caused damage to people, equipment or the environment.

The Contractor shall comply with all the provisions of the procedure prepared by the Contracting Authority.

6.2.7 Viability

It is mandatory to observe the speed limits as indicated in Section 6.2.3 and in any case in line with what is specified in the Contracting Authority's DUVRI and/or PSC.

All vehicles required for the performance of the Contract, including support and auxiliary vehicles such as buses, vans, cars, courtesy cars or trucks, etc., shall strictly comply with the requirements of the Contracting Authority.

If it is necessary to interrupt normal traffic/access, it is mandatory to obtain authorization from the Contracting Authority.

The Contractor is obliged to fence and properly mark obstacles or fences so that they are visible even during the night period.

6.2.8 Vehicle and Equipment Access

The Contractor shall prepare a list of the equipment, machinery, site vehicles, which it intends to use during the works, all properly certified and regularly submitted to the checks provided for by the legislation, and deliver this list to the Contracting Authority before the commencement of the works.

The access of these machines, vehicles and equipment to the premises/site is subject to the approval of the Contracting Authority. All machines, vehicles and equipment that will be used by the Contractor or its subcontractors shall be provided with a nameplate indicating the name of the owner. The Contractor shall ensure that all its machinery, equipment and vehicles, and those of the subcontractors, present in the workplace are used by trained personnel and maintained in perfect working order throughout the duration of the activities.

Machinery, equipment and site vehicles, which the Contractor intends to use in the execution of the works referred to in the contract, shall comply with the applicable statutory provisions and be in the necessary



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conditions of efficiency for safety purposes. Access to the workplace of vehicles, machinery and/or equipment is allowed only if in compliance with the legal obligations provided and only if in good condition of preservation and maintenance.

The equipment/machinery shall be accompanied by the relevant certificates of conformity and, if subject to inspection visits by the competent authorities (suspendable and suspended bridges, overhead ladders, lifting equipment, pressure equipment, etc.), shall be accompanied by documents attesting to inspections carried out in accordance with the scheduled deadlines. The Contractor shall always be able to prove, at its expense, these conditions of efficiency and compliance with the provisions of the law.

6.2.9 Use of Scaffolding

The installation of the scaffolding shall take place in accordance with the provisions of Title IV, Chapter II "Rules for the prevention of accidents at work in construction and overground construction works" and, in the case of fixed scaffolding, of Chapter II Section V, articles 131 et seq. Leg. D. 81/08 and subsequent modifications.

The assembly shall be carried out by personnel in possession of specific training certificates, coordinated and led by a qualified team leader.

The Contractor which intends to use another organization (subcontracting) in the construction of the scaffolding, will have to ask from such organization a statement (declaration) on the correct execution of the scaffolding/work surface areas.

During assembly and disassembly, access to the scaffolding shall be allowed only to authorised personnel.

6.2.10 Use of Ionizing Radiation Sources

Any use of ionizing radiation sources (e.g. for industrial radiography), at construction site managed by the Contractor, is allowed only in cases of real need, upon express authorisation of the Contracting Authority (by issuing a specific work permit) and in the areas identified for this purpose by the Contracting Authority's representative.

The Contractor shall present the following documentation in a timely manner before the commencement of works:

- copy of the ministerial authorizations and/or provision authorization for the use of radioactive sources and/or equipment;
- copy of the communications of possession and use of radioactive sources, sent to the competent territorial Authorities within the prescribed timeframe;
- documentation attesting the transport of the radioactive sources by an appropriate and authorized carrier;
- generalities of the radioprotection expert and of the responsible directly involved in the operations;
- generalities of the authorized competent doctor (if necessary);
- generalities of the personnel involved, indicating their classification for the purpose of radiological risk (category A or B);
- declaration of the fitness for job of the involved personnel, issued not earlier than six months or one year by competent doctor, depending on whether the workers are exposed to category A or B ;



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- Radiation protection expert's report containing the indications and the recommendations that the radiological operators will have to scrupulously observe for the physical protection of the people present at the construction site, and of the population (e.g.: indications on the recommendations, safety devices, perimeter fences, and safety distances to be respected);
- layout of the areas interested by the radiographic work, the restriction areas, the point of discontinuity of the source, any area intended for storage and anything else agreed with the representative of the Contracting Authority;

The Contractor shall conduct the activities that envisage the use of these sources in compliance with the regulations in force and with the provisions of the Contracting Authority in order to guarantee the health protection of workers who are not professionally exposed, the population and the environment.

6.2.11 Works in suspected polluting or environments

In line with the Art. 66 of the Dlgs 81/2008 *"It is forbidden to allow workers to access black pits, sewers, chimneys, pits, tunnels and in general in environments and containers, pipes, boilers and the like, where it is possible to release gases without prior there is no danger to the life and the physical integrity of the workers themselves, that is to say, without prior restoration of the atmosphere through ventilation or other suitable means. When there is any doubt about the dangers of the atmosphere, workers shall be bonded with safety belts, supervised for the duration of their work and, where necessary, provided with protective equipment. The access to these sites shall be such that they can allow the easy retrieval of a senseless worker"*.

Any work activity in a suspected polluted or confined environment shall only be carried out by Contractor or self-employed workers who are qualified as per the requirements pursuant by Article 2 of Presidential Decree 177/2011.

The management of activities in suspected or confined environments shall follow the provisions of Article 3 of Presidential Decree 177/2011 "Safety Procedures in the Sector of Suspected or Confined Environments".

Subcontracting is not allowed for work activities in suspected polluted or confined environments, unless expressly authorised by the Contracting Authority's and certified pursuant to Title VIII, Chapter I, of Legislative Decree no. 276 of 10 September 2003, as subsequently amended and supplemented.

6.2.12 Emergency Management

A state of emergency occurs whenever any significant anomalous event occurs inside and/or outside the work area of the Contracting Authority that may constitute a source of danger for people, property or environment.

The Contractor must prepare an Emergency Plan dedicated to the construction phase, coordinated with the Contracting Authority's Emergency Plan. The Contractor must also organize its own Emergency Team with suitably trained personnel according to the regulations in force.

The Contractor undertakes to set up the organization and means necessary to manage the emergencies relating to its activities and to inform the Contracting Authority by sending the emergency procedure that has been drawn up.

The Contractor undertakes to indicate the names of the emergency trained (firefighting and first aid) personnel, who will be available in site for the duration of the Contract, and to send the Contracting Authority copies of their valid training certificates and appointments.



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It is the obligation of the Contractor to inform and train all operating personnel on the rules and behavior to be adopted in case of emergency (as indicated in Contracting Authority's DUVRI or PSC prepared for the specific Contract).

The Contractor must provide a first-aid kit dedicated to the areas under its responsibility during execution.

In the Emergency Plan, the Contractor must also provide for the management of Environmental Emergencies, i.e. the management of an event, such as a release of liquid or gaseous substances, that may cause a dangerous situation for the environment and in particular for the air, water, soil and subsoil matrices, in accordance with the provisions of the Works.

6.2.13 Environmental Protection

The Contractor shall carry out all the activities covered by the contract and, in particular, those involving impacts on environmental matrices, in full compliance with the law in force in the field of environmental health and safety first of all the Legislative Decree 152/06 and subsequent amendments and taking into account what is established in the applicable CAMs (see Paragraph 2.2).

During the execution phase, Contractor shall adopt all applicable procedures to reduce environmental impacts, and if it is not technically possible, to minimize such impacts as far as possible. Contractor shall adopt all technically available and economically sustainable measures to avoid contamination of the environment with products and substances resulting from the work.

Prior the execution phase, Contractor shall inform the Contracting Authority, for information and approval, without any release of its responsibilities or any replacement in the management of the obligation, of all the operating procedures adopted, which shall comply with the current regulations on prevention and protection of the environment.

6.2.13.1 Air Emissions

Contractor shall take all necessary measures to limit as far as possible the emissions of dust (PTS, PM10 and PM2.5) and polluting gases (NOx, CO, SOx, C6H6, PAH, dioxins and furans).

To reduce the production and diffusion of particulate matter as much as possible, at least the following mitigation measures will be followed:

- carry out constant and periodic wetting or cleaning of the roads used, whether paved or not;
- clean the vehicles wheels leaving the worksite and the material supply and delivery areas, before the vehicles use the ordinary roads;
- cover the transported dusty materials with tarpaulins;
- implement suitable speed restrictions for vehicles on unpaved worksite roads;
- periodically wet or cover with tarpaulins (in periods of inactivity and during days with intense wind) the piles of dusty material stored in the worksite areas;
- during the demolition of building structures, wet the structures to minimize the formation and spread of dust.

Construction site vehicles and equipment shall be approved in accordance with current European standards.



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6.2.13.2 Site Water Management

Contractor, in compliance with the community, national and regional regulations in force, and with the prescriptions for the approval of the project by the competent environmental protection Authorities, shall adopt all the necessary precautions and shall implement all the necessary measures so that the waste substances originating from the worksite activities do not impact, either directly or indirectly, the environmental matrices.

During the construction activities, reuse of water will be maximized within the permitted limits.

6.2.13.3 Construction Site Water Supply

Within the definition of a detailed "Water Balance" of the worksite activities, Contractor shall manage and optimize the use of the resource, eliminating or reducing to minimum the supply from the aqueduct and maximizing, where possible, the re-use of the water used in the construction activities.

6.2.13.4 Noise

The Contractor shall carry out its activities abstaining from producing loud noises towards the internal and external environment.

The Contractor shall notify the Contracting Authority of the noise level of the machinery and equipment that will use to agree on operating procedures suitable to minimizing the internal/external acoustic impact in compliance with current legislation.

6.2.13.5 Soil Contamination

The Contractor shall give priority to the use of substances and preparations the least dangerous as possible and operate in such a way as to limit as far as possible their deposit at the Contracting Authority's premises.

The use of substances and formulations belonging to the Contracting Authority is forbidden without prior written authorization from the latter.

The handling, use and storage of the substances shall be carried out in compliance with the laws in force.

Containers used for the transport of dangerous substances shall be equipped with:

- suitable closures to prevent spillage.
- accessories and/or devices that make filling and emptying operations safe and easy.
- handles, rings or grips that make them safe and easy to use.
- protective wrappings appropriate to the nature of the contents.

The containers, both full and empty, shall be stored in special areas, kept separate from each other, not reused for the containment of different substances, and labelled according to law.

It is forbidden to place barrels, cans, or other containers of chemical products directly on the ground, and properly sized containment tanks or other suitable devices shall be used.

If the risk of leakage of products exists in executive activities, the Contractor shall take measures to prevent pollution and/or uncontrolled spills in the area.

Any spillage shall be immediately communicated to the Contracting Authority to prepare interventions aimed to reducing contamination.



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6.2.13.6 Waste Management

The responsibility for the management of waste deriving from the execution of the activities covered by the contract will be established, case by case, during the definition phase of the contract; in this phase, the figure of "Waste Producer" will be identified according to the specific context of execution of the works in compliance with the sector regulations in force.

In the event that the Contractor is solely responsible, Contractor shall be obliged to identify the exact classification to be attributed to the waste with the CER code, to define the collection methods, to identify the temporary storage areas for each type of waste, to define the transport, recovery and/or disposal methods for each type of waste, and to comply with any other task pertaining to the role of waste producer in accordance with the provisions of the environmental regulations in force and the HSE Guidelines of the DTT Consortium; the waste management activities must be carried out directly by the Contractor, if it possesses the legal requirements (Registration with the National Register of Environmental Managers), otherwise the Contractor must use qualified subjects (authorised intermediaries) possessing the qualifications required by law. In this case, the Contractor shall be responsible for indicating such entities and certifying that they meet the requirements, giving written evidence thereof to the Contracting Authority.

For further details, refer to the "Procedure for Waste Management in the Construction Phase" Doc. No. PRG-HSEQ-006.

7 Close-Out phase

With regards to the HSE management, the scope of work awarded to Contractor, is effectively closed out with the HSE Close-out Report, issued by Contractor/Supplier for Contracting Authority's approval, including the summary of HSE performances and lessons learned (if any).

On completion of the work, Contractor shall organize a closure HSE meeting at which all parties involved are represented, including subcontractors where present.

The HSE Management Activities shall not be considered finished until the HSE Closure Report has been received and approved by the Contracting Authority.