**EXHIBIT VII**

**DIRECTIVES FOR QUALITY ASSURANCE SYSTEM**

**FPSO PETROBRAS XX (P-XX)**

# OBJECT

## SELLER and its supply chain shall comply with the requirements of the quality management system defined in Standard ISO 9001:2015 and additional requirements specified in Section 3 shall be attended.

## BUYER reserves the right to check the application and maintenance of the requirements herein defined, at any time, including those related to SELLER and its supply chain. This may include diligences, inspections, audits and application of checklists.

# REFERENCE DOCUMENTS

## ISO 9001:2015 - Quality Management Systems – Requirements

## ISO 19011 - 2018 - Guidelines for Auditing Quality Systems – Part 1 – Auditing

## NI-1710 - Coding of Technical Engineering Documents

## NI-381 - Execution of Drawing and Other General Technical Documents

## NI- 2064 - Issuance and Revision of Design Documents

## Classification Society Rules

## ISO/IEC 17025 - General requirements for the competence of testing and calibration laboratories

## I-ET-3010.00-1200-970-P4X-003 - Requirements for Personnel Qualification and Certification

## I-ET-3010.00-1200-978-P4X-005 - Requirements for Materials Traceability

## I-ET-3010.00-1200-972-P4X-006 - Requirements for Manufacturing Survey Inspection

## EXHIBIT I SCOPE OF SUPPLY

## EXHIBIT II BASIC ENGINEERING DESIGN

## EXHIBIT III DIRECTIVES FOR PRODUCT DEVELOPMENT

## EXHIBIT IV DIRECTIVES FOR PRODUCT FABRICATION

## EXHIBIT V DIRECTIVES FOR ACQUISITIONS

## EXHIBIT VI DIRECTIVES FOR PLANNING AND CONTROL

## EXHIBIT VIII DIRECTIVES FOR COMMISSIONING

## EXHIBIT XVI COMPUTATIONAL TOOLS AND INTEGRATED MANAGEMENT SYSTEM

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# SUPPLEMENTARY REQUIREMENTS

Follows the ISO 9001:2015 requirements, identified as supplementary requirements to the Quality Management System of SELLER and Subcontractors in whole supply chain, herein denominated Organization. Items identified as “not applicable” may be implemented by the Organization’s option, at its own expenses.

##   Understanding the organization and its context

The requirements of item 4.1 of ISO 9001:2015 are not applicable.

##   Understanding the needs and expectations of interested parties

The requirements of item 4.2 of ISO 9001:2015 are not applicable.

##  Determining the scope of the quality management system

### The scope of the Quality Managements System shall be compatible with the contractual Scope of Supply (see EXHIBIT I), and the remaining contractual attachments and exhibits, technical standards, technical specifications and legal requirements.

##   Quality management system and its processes

### The Organization shall implement and maintain, at its own expenses, during the entire term of this Agreement, a Quality Management System.

### In addition to the requirement of item 4.4 of ISO 9001:2015, the Organization shall issue and implement a specific Quality Plan containing and addressing all phases of the contractual Scope of Supply, including all the supplementary requirements of this EXHIBIT.

### The Organization shall submit the Quality Plan for BUYER approval no later than 60 (sixty) days after the Agreement Effective Date.

### The Quality Plan shall define:

1. Quality objectives to be attained, as herein defined or in accordance with the remaining EXHIBITS, meeting the following requirements:
* Shall be expressed in measurable terms;
* Shall express aspects of time, cost and quality related to the Agreement scope of supply;
1. The administrative organization chart and specific assignments of responsibility and authority related to each of the Agreement phases. This organization chart shall comply with the chart required by EXHIBIT VI (DIRECTIVES FOR PLANNING AND CONTROL);
2. Procedures, working methods and instructions to be applied, including titles and number, as well as linking these documents with ISO 9001:2015 requirements.
3. Planning and schedule for the implementation of the Quality Plan itself, procedures and work instructions, including a master list with all documents that are applicable to the Scope of Supply.
4. Planning for the design (execution and verification), inspections and tests, commissioning activities and auditing which are considered adequate for the different phases of the Agreement, defining all holding points to be considered.
5. Records and performance indicators required by technical standards related to the Scope of Supply shall be included in the Quality Plan as well.
6. All personnel qualification as required by the contractual EXHIBITS and applicable standards and technical specifications.
7. Fulfilling all the requirements of the remaining contractual EXHIBITS.

### Contractors Design Engineering and Construction subcontractors shall issue its own Quality Plans as directed in this EXHIBIT.

##   Leadership and commitment

### In addition to item 5.1 of ISO 9001:2015, the Organization shall provide for each Site a quality manager to supervise the implementation of the Quality Management Plan, the inspection plans and associated executive procedures (during fabrication, construction and assembly), related to the Scope of Supply for the corresponding Site.

##   Policy

### The requirements of item 5.2 of ISO 9001:2015 are not applicable.

##   Actions to address risks and opportunities

### The requirements of item 6.1 of ISO 9001:2015 are not applicable.

##   Quality objectives and planning to achieve them

### The requirements of item 6.2 of ISO 9001:2015 are applicable, except for item 6.2.1(a) of ISO 9001:2015.

### In addition to item 6.2 of ISO 9001:2015 the quality objectives defined by the Organization shall be turned into measurable quality indicators (see also item 3.19.1).

### In addition to the quality indicators mentioned above, Organization shall also create and follow up the indicators required by the remaining contractual EXHIBITS.

## Resources

### In addition to item 7.1.3 of ISO 9001:2015 the SELLER shall follow all the requirements of the EXHIBIT I (SCOPE OF SUPPLY), as well as EXHIBIT III (DIRECTIVES FOR PRODUCT DEVELOPMENT), EXHIBIT IV (DIRECTIVES FOR PRODUCT FABRICATION), EXHIBIT V (DIRECTIVES FOR ACQUISITIONS), EXHIBIT VI (DIRECTIVES FOR PLANNING AND CONTROL) and EXHIBIT VIII (DIRECTIVE FOR COMMISSIONING).

### In addition to item 7.1.5 of ISO 9001:2015, the Organization shall make available at its job Site all technical documents relating to inspection, measurement and testing devices. Measurements that affect the product quality shall only be performed with instruments and measuring devices that are properly calibrated and within the validity of its calibration.

### In addition to item 7.1.5 of ISO 9001:2015, the Organization shall guarantee that all calibrations are performed by laboratories that comply with the requirements of ISO/IEC 17025 and applicable technical specifications.

### In addition to item 7.1.6 of ISO 9001:2015, the Organization shall implement a systematic for performing critical evaluation of the calibrations performed, in order to guarantee that the results obtained after calibration will result in products that are in straight compliance with the applicable technical requirements.

## Competence

### In addition to item 7.5 of ISO 9001:2015, the requirements of I-ET-3010.00-1200-970-P4X-003 (Requirements for Personnel Qualification and Certification) are also applicable.

### In addition to item 7.5 of ISO 9001:2015, the Organization shall also attend all the requirements of personnel and procedure qualification cited in EXHIBIT III (DIRECTIVES FOR PRODUCT DEVELOPMENT), EXHIBIT IV (DIRECTIVES FOR PRODUCT FABRICATION), EXHIBIT V (DIRECTIVES FOR ACQUISITIONS), EXHIBIT VI (DIRECTIVES FOR PLANNING AND CONTROL) and EXHIBIT VIII (DIRECTIVES FOR COMMISSIONING).

## Awareness

### The requirements of item 7.3 of ISO 9001:2015 are not applicable.

## Documented information

### In addition to item 7.5 of ISO 9001:2015, the Organization shall issue all documents that are applicable to the scope of Contractual Vendor Document Requirement and Master Document List in conformance with the requirements of BUYER standards NI-1710 and NI-381. The control of the revisions of these documents shall be in accordance with BUYER standard NI-2064.

Note: All the Organization’s corporate documents may be used, as long as they comply with the requirements above.

### In addition to item 7.5 of ISO 9001:2015, the Organization shall use BUYER digital system for control of project documents – EDM (Electronic Document Management) – as required in EXHIBIT XVI (COMPUTATIONAL TOOLS AND INTEGRATED MENAGEMENT SYSTEM). All project documents within the Scope of Supply shall be controlled with the use of this tool and shall be in accordance with the requirements of EXHIBITS III (DIRECTIVES FOR PRODUCT DEVELOPMENT) and EXHIBIT VI (DIRECTIVES FOR PLANNING AND CONTROL).

### In addition to item 7.5 of ISO 9001:2015, the Organization must also establish, as Quality Registers, those originated from the requirements of specific rules for each discipline.

### The quality registers for each kind of product shall be kept available by the Organization to BUYER or to the inspection company on behalf of BUYER are shown on the applicable EXHIBITS;

### The Organization must maintain a record of such documentation for 5 years, after BUYER issue the Final Acceptance Notice.

## Operational planning and control

### In addition to item 8.1 of ISO 9001:2015, the Organization shall elaborate Inspection and Test Plans (ITP) concerning all equipment being supplied, Construction and Assembly critical activities, as well as Commissioning activities, even if these activities are subcontracted. These ITP’s shall be elaborated in accordance with I-ET-3010.00-1200-972-P4X-006.

1. SELLER shall indicate in the Inspection and Test Plans its participation or the participation of the inspection company contracted by it.
2. ITP shall be submitted to BUYER for approval, who will at its sole discretion define its participation on inspections and tests activities.

### ITPs for Construction and Assembly shall be prepared in accordance with ET-3010.00-1200-972-P4X-006 containing requirements listed on the following exhibits: EXHIBIT IV (DIRECTIVES FOR PRODUCT FABRICATION) and EXHIBIT VIII (DIRECTIVES FOR COMMISSIONING).

## Requirements for products and services

### In addition to item 8.2.3.1 of ISO 9001:2015 all technical specifications cited in the CONTRACT shall be considered as BUYER requirements for products and services.

### In addition to item 8.2.3.2 of ISO 9001:2015, the Organization shall present to BUYER, prior to commencement of work, the record of this review.

## Design and development of products and services

### In addition to item 8.3 of ISO 9001:2015, the Organization shall attend all the requirements for design and development cited in EXHIBIT II (BASIC DESIGN) and EXHIBIT III (DIRECTIVES FOR PRODUCT DEVELOPMENT).

## Control of externally provided processes, products and services

### In addition to item 8.4 of ISO 9001:2015, the Organization shall attend all the requirements for externally provided processes, products and services cited in EXHIBIT III (DIRECTIVES FOR PRODUCT DEVELOPMENT), EXHIBIT IV (DIRECTIVES FOR PRODUCT FABRICATION), EXHIBIT V (DIRECTIVES FOR ACQUISITIONS) and EXHIBIT VIII (DIRECTIVES FOR COMMISSIONING), as well as all applicable Technical Specification that are part of this CONTRACT. SELLER is responsible for manufacturing survey inspection according to the minimum stablished in I-ET-3010.00-1200-970-P4X-006 (Requirements for Manufacturing Survey Inspection).

## Production and service provision

### In addition to item 8.5 of ISO 9001:2015, the Organization shall attend all the requirements of EXHIBIT V (DIRECTIVES FOR ACQUISITIONS) and I-ET-3010.00-1200-970-P4X-003 (Requirements for Personnel Qualification and Certification).

### In addition to item 8.5.1 of ISO 9001:2015, the Organization shall guarantee that all tests are performed by laboratories that comply with the requirements of ISO/IEC 17025. These tests include but are not limited to mechanical tests, corrosion tests, metallographic tests, chemical tests, electrical tests, as applicable to all products and services provided by the Organization and its suppliers.

### In addition to item 8.5.1 of ISO 9001:2015, the Organization shall guarantee that all activities are performed in compliance with the technical specifications referenced in contractual EXHIBITS.

### In addition to item 8.5.2 of ISO 9001:2015, the Organization shall consider the definitions and extension of traceability according to I-ET-3010.00-1200-978-P4X-005 (Requirements for Materials Traceability).

### In addition to item 8.5.2 of ISO 9001:2015, the Organization shall establish, implement and maintain traceability for materials and activities within the scope of the fabrication and construction and assembly processes as described in EXHIBIT XVI (COMPUTATIONAL TOOLS AND INTEGRATED MANAGEMENT SYSTEM).

## Release of products and services

### In addition to item 8.6 of ISO 9001:2015, the Organization shall guarantee that all tests, examinations, the acceptance criteria, as well as the applicable results and reports are in straight compliance with the technical requirements that are cited in the applicable standards, technical specifications, contractual EXHIBITS, or elsewhere within the Agreement.

### In addition to item 8.6 of ISO 9001:2015, if any doubt regarding the conformance of the product or service being released is formally registered by BUYER, the Organization shall perform additional tests and/or examinations as agreed between the parts in order to explicitly assure its conformance.

### In addition to item 8.6 of ISO 9001:2015, the Organization shall establish, implement and maintain an inspection program to check the products and services being released through the use of checklists. These checklists shall include all the technical, contractual and legal requirements for all disciplines. The Organization shall submit the inspection program to BUYER.

## Monitoring, measurement, analysis and evaluation

### In addition to item 9.1 of ISO 9001:2015, the Organization shall establish, implement and maintain quality indicators applicable to the Scope of Supply. These indicators shall monitor and measure its main processes and products. The results of these indicators shall be evaluated monthly to enhance the general quality of all processes and products.

### In addition to item 9.1 of ISO 9001:2015, the Organization shall include all the quality indicators cited in EXHIBIT III (DIRECTIVES FOR PRODUCT DEVELOPMENT), EXHIBIT IV (DIRECTIVES FOR PRODUCT FABRICATION), EXHIBIT V (DIRECTIVES FOR ACQUISITIONS) and EXHIBIT VIII (DIRECTIVES FOR COMMISSIONING).

### In addition to item 9.1.2 of ISO 9001:2015, the Organization shall consider as customer feedback the following:

### Audits performed by the BUYER;

### Checklists applied by the BUYER;

### Formal complaints issued by the BUYER.

## Internal audit

### In addition to item 9.2 of ISO 9001:2015, the Organization shall present an Auditing Programme according to ISO 19011, including the definition of the work physical progress percentages where audits shall be carried out as well as the date forecast for their performance.

### In addition to item 9.2 of ISO 9001:2015, the Organization shall include in the Auditing Programme, besides the Quality System Management process, all the technical disciplines within the contracted Scope of Supply (e.g. traceability, factory acceptance test, painting, welding, non-destructive testing and so on).

### In addition to item 9.3 of ISO 9001:2015, the Organization shall perform at least two management reviews per year.

## Nonconformity and corrective action

### In addition to item 10.2 of ISO 9001:2015 Nonconformities on the products or processes detected by the BUYER (including those cited in item 3.19.33) and reported to the Organization shall always require that a nonconformity report be issued by the Organization.

## Continual improvement

### In addition to item 10.3 of ISO 9001:2015, the Organization shall seek the continuous improvement of the quality indicators (see item 3.19.1).