## REVISION INDEX

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## 1. GENERAL

1.1. This Exhibit I defines the overall responsibilities for the performance of the activities which are the object of the Contract for Inspection Services for P-88 FPSO Construction Activities (the "**Agreement**") between PETRÓLEO BRASILEIRO S.A. – PETROBRAS ("**PETROBRAS**" or "**BUYER**") and [XXXXXXXX] ("**CONTRACTOR**").

1.2. The requirements set forth in this Exhibit I, and all the other Exhibits of the Agreement, shall apply to the entire Agreement.

1.3. The inspection services are expected to be performed as two main categories:

1.3.1. Technical service inspection for FPSO fabrication, construction and assembly and commissioning activities in shipyard and construction sites, as further detailed in Section 3.3 below ("**Field Inspection Services**"); and

1.3.2. Support for factory inspections and test monitoring of equipment, systems, components and materials, as further detailed in Section 3.2 below (the "**Factory Inspections Services**" and, collectively with the Field Inspection Services, the "**Services**").

1.4. The Services are meant to be performed at sites located mainly in Asia, Europe and North America.

1.5. According to the FPSOs schedules, the Services may be required to be performed during night periods and/or weekends.

1.6. Capitalized terms used but not defined in this Exhibit I shall have the meanings provided in the Agreement.

## 2. PETROBRAS RESPONSIBILITY

2.1. PETROBRAS shall be responsible for providing documents and appropriate information, as set forth in the Agreement.

2.1.1. PETROBRAS may provide CONTRACTOR the relevant access to Project EDM (Electronic Document Management) system as to obtain the documents necessary to perform the Services.

2.2. PETROBRAS shall be responsible for supervising the Services, as set forth in the Agreement.

2.3. PETROBRAS shall grant access to employees or other personnel engaged by CONTRACTOR at the Sites where the Services shall be performed.

2.4. PETROBRAS shall provide workstations at each Site for use by employees or other CONTRACTOR Group personnel performing Field Inspection Services at such Site, including chairs, desks and internet access (Wi-Fi). PETROBRAS shall not be responsible for supplying computers or other computing equipment, and if this is required, CONTRACTOR shall furnish it pursuant to Section 4.1 below.

2.5. Any other service or resource not clearly stated as falling under PETROBRAS' responsibility for supply shall be provided by CONTRACTOR.

## 3. CONTRACTOR SCOPE OF WORK

### 3.1. GENERAL REQUIREMENTS

3.1.1. CONTRACTOR shall bear and provide all necessary means for its employees and any CONTRACTOR Group personnel related to travel, air and/or ground transportation, work visas, transportation to and from sites, proper accommodations, meals, health, safety and environment ("**HSE**") personnel protective equipment ("**PPE**") in accordance with Section 3.1.17 below, such as uniforms, medical and health insurance, photographic cameras, flashlights, magnifying glass, measuring tape, computers or notebooks and any other device or tool or any resource required to perform the activities described herein (Scope of Work). Specific equipment, devices or tools to perform the tests will be provided by the factories or shipyards where the works will be developed.

3.1.2. CONTRACTOR shall provide all supplementary means necessary for complying with the Scope of Work.

3.1.3. CONTRACTOR shall comply with all access, HSE requirements, and Applicable Laws at the Site(s), and present all necessary documents requested by any authority responsible for granting access to work at the Site(s). CONTRACTOR shall be responsible for bearing all costs related to the fulfillment of any of the foregoing Site requirements to all its personnel.

3.1.4. CONTRACTOR shall comply with any special health requirements for prevention of contagious diseases, including COVID-19. If required under special health provisions, CONTRACTOR shall be expected to undertake and supervise quarantine periods for personnel, carry out RT-PCR and/or serologic testing, and comply with any other health recommendations from local or international authorities.

3.1.5. The professionals engaged to perform the services by or on behalf of CONTRACTOR should preferably be resident near the designated location and/or be available for immediate mobilization, according to deadlines defined below at item 3.1.6, due to government restrictions on the entry of foreigners.

3.1.6. Upon written request by PETROBRAS, CONTRACTOR shall submit within five (5) business days following receipt of such request, one (1) resume previously analyzed and selected by CONTRACTOR, according to requirements defined on item 6 of this Exhibit, for each professional role or discipline required. The resumes shall be presented in English language. Complementary documents such as certificates, diplomas, and other probe documentation may be accepted in their native language, however and upon PETROBRAS requests, they are subjected to additional clarifications. CONTRACTOR shall mobilize its professionals within ten (10) business days following receipt of PETROBRAS validation of such resume.

3.1.6.1. Petrobras shall inform the Contractor of demobilization at least 30 days in advance.

3.1.7. For Factory Inspection Services, CONTRACTOR shall rely on the same professional throughout the entire duration of the test process. Substitutions will be allowed only in exceptional cases, and then only upon request to, and with the prior written agreement of, PETROBRAS.

3.1.8. For Field Inspection Services, CONTRACTOR is allowed to rotate its personnel at its discretion. However, the team rotations must be avoided and, if necessary, previously approved in writing by PETROBRAS and shall not in any way constitute, or be construed as, a new mobilizations request.

3.1.8.1. Exceptionally, for the professionals mobilized for the activities described on item 3.1.12 CONTRACTOR shall preferably rely on the same professionals throughout the entire period of execution of Services. Substitutions will be allowed only in exceptional cases, and then only upon request to, and with the prior written agreement of PETROBRAS.

3.1.9. Employment of Personnel. In connection with its performance under this Agreement neither CONTRACTOR nor any member of CONTRACTOR Group shall employ or contract with any unfit Person or anyone not skilled in the work assigned to such Person.

3.1.10. Substitution: CONTRACTOR shall promptly remove from the Site(s) where the Works are being carried out any Person who does not meet the foregoing requirements or who obstructs or is disruptive to the Works, or whose presence at the Site(s), under justified reason, is not necessary. In addition, CONTRACTOR agrees that within twenty-four (24) hours after receipt of written notice from PETROBRAS, it will remove from the Works and the Site(s) any employee or agent of CONTRACTOR, who in PETROBRAS' opinion, is interrupting, interfering or impeding the timely and proper completion of the Works. PETROBRAS reserves the right to request, at its sole discretion, the substitution of any professional engaged to perform the Works by or on behalf of CONTRACTOR and CONTRACTOR shall comply with the request and shall mobilize new professionals suited to the demand, in accordance with the mobilization forecasts already set out in this Exhibit I.

3.1.11. CONTRACTOR shall issue Monthly Control Reports detailing all inspections and activities performed in Field Inspection Services and Factory Inspection Services, physical progress measurements, and any other information reasonably requested by PETROBRAS in respect of that period. PETROBRAS shall provide its requirements as to the format and content of each monthly report to the CONTRACTOR within thirty (30) days following the Effective Date. CONTRACTOR may propose such reasonable modifications to the format and content of the monthly report as it considers appropriate, and any modifications agreed between the Parties from time to time shall be incorporated by CONTRACTOR into its subsequent monthly reports.

3.1.12. CONTRACTOR shall (i) elaborate and control an inspection schedule according to PETROBRAS requests and the FPSO PSA schedule (ii) control the

issuance of Technical Reports, Final Reports and Monthly Control Reports; (iii) guarantee the quality and standardization of technical reports; (iv) keep record of previously inspections pending issues and other relevant information necessary to the execution of future inspections; and (v) establish focal points to interact with PETROBRAS in matters related to these planning and control activities.

3.1.12.1. These activities must be performed by dedicated professional or professionals requested by PETROBRAS under the Planning and Control Engineer discipline (item 6.1.3.8). When requesting Planning and Control Inspectors for these specific activities PETROBRAS will clearly indicate as CONTRACTOR must consider substitution restrictions as item 3.1.8.1.

3.1.12.2. As an exception, these Field Inspection Service professionals may be requested before the Field Inspection Service Site mobilization. In this case PETROBRAS will indicate the country where the professionals are required, and the Services should be done temporally from home-office until notice from PETROBRAS for mobilization at the definitive Field Inspection Service Site in that country.

3.1.13. The macro schedule, containing the major milestones and an overall plan of the Purchase and Sale Agreement for the supply of FPSO to PETROBRAS ("**FPSO PSA**"), and in respect of which the Works under this Agreement are to be performed, will be furnished to CONTRACTOR by PETROBRAS at the beginning of this Agreement. The term and planning for this Agreement is independent from the FPSO PSA.

3.1.14. Before any mobilization(s) requested by PETROBRAS, specific meetings may be arranged between CONTRACTOR's designated professionals and PETROBRAS, to discuss and highlight important technical issues to be observed by CONTRACTOR's professionals during Field Inspection Services and Factory Inspection Services. Such meetings, when necessary, will be timely arranged by PETROBRAS. PETROBRAS may request the participation of the CONTRACTOR's designated professional in other meetings to discuss issues regarding services and inspections in progress or already completed. These meetings may also involve the participation of Manufacturers and FPSO Seller representatives.

3.1.15. CONTRACTOR shall prepare Final Reports in respect of each period or event of Factory Inspection Services approved by PETROBRAS. PETROBRAS, at its sole discretion, may request partial reports, such as weekly reports. for specific services.

3.1.16. CONTRACTOR must foresee resources for internet live transmission, with at least 4G cellphone data plans, to PETROBRAS of inspected services in factory or at construction site, will be accepted any device capable of make live transmission with enough quality to supervise the activity previously approved by PETROBRAS. The resource must consider safety requirements for its professional (operator), granting proper movement and both hands free, such as chest or head camera straps. The live transmission must be agreed with PETROBRAS and shall use common applications such as MS Teams or Zoom. The live transmissions will be requested eventually by PETROBRAS and is part of the scope of work.

3.1.17. CONTRACTOR must provide the suitable PPEs for the construction and assembly inspection of FPSO and equipment inspection.

According to IOGP Report 577 (November 2018).
"Personal Protective Equipment is specified for all work activities based on the risk assessment.
Based on typical construction activities the basic Personal Protective Equipment in the work areas is:
•hard hat
•safety-toed shoes
•safety glasses
•gloves
•hearing protection (ear plugs and/or ear covers)
•long sleeves and trousers or coveralls.
Additional Personal Protective Equipment use is based on risk.
A risk assessment is completed to identify Personal Protective Equipment needs based on the site conditions and the scope of work. Where job conditions change, Personal Protective Equipment selection is reviewed to ensure it is still valid.
Specialty Personal Protective Equipment (e.g. flame resistant clothing, fall protection, goggles, face shields, specialty gloves, respiratory protection, personal floatation devices) is specified by procedure and work activity or work area.
Areas where specialized Personal Protective Equipment is required (e.g. high noise, radiation, chemical storage areas, hydrocarbon process areas) are marked with prominent signage, universal symbols or language of the workforce to ensure that personnel are aware of the additional hazards and requirements for Personal Protective Equipment."

These PPE must comply with the legal requirements of the countries where the services are performed, with the developed activities, and any specific requirements of the local shipyard, factory, or site.

3.1.18. CONTRACTOR shall nominate a focal point at each site to be responsible for all relevant daily communications with PETROBRAS and there is no restriction that this person to be part of execution team.

## 3.2. FACTORY INSPECTION SERVICES

3.2.1. Factory Inspection Services comprises activities to be performed at the Site(s) of the suppliers of the FPSOs to be constructed pursuant to the FPSO PSA furnished by PETROBRAS to CONTRACTOR pursuant to Section 3.1.13 above, which Site(s) shall be located in countries within the regions specified in Section 1.4 above.

3.2.2. CONTRACTOR shall perform Factory Inspection Services with professionals qualified according to the requirements specified in Section 6.2 below.

3.2.3. CONTRACTOR shall only perform Factory Inspection Services upon PETROBRAS' written request.

3.2.4. Within two (2) Business Days after each inspection performed, CONTRACTOR shall issue a Final Inspection Report to PETROBRAS. The minimum contents of

such reports will be defined by PETROBRAS during the Agreement execution or in the Factory Acceptance Test ("**FAT**") request.

3.2.4.1. The reports issued by the CONTRACTOR inspectors will be evaluated by PETROBRAS, which may point out comments, request their review and a clarification meeting.

3.2.5. The following equipment / systems are the preliminary equipment / systems for which PETROBRAS intends to request CONTRACTOR inspection services:

1) Centrifugal Compressors;
2) Turbo Compressors;
3) Vapor Recovery Unit;
4) Electric Motors and Generators (for power rated over 600 kW);
5) Variable Speed Drivers (VSD);
6) Flare and Flare Gas Recovery System;
7) Gas Dehydration System (TEG and Molecular Sieve);
8) Hydraulic Power Units;
9) Sea Water Lift Pumps;
10) Sulphate Removal System;
11) Main Injection Water Pumps;
12) Nitrogen Generator System;
13) Fresh Water Maker for Oil Dilution;
14) Pumps in general;
15) Medium Voltage Switchboard and Motor Control Centers (MCCs);
16) Low Voltage Switchboard and MCCs;
17) Power Transformers;
18) VAC System;
19) Oil Dehydrators;
20) Separators;
21) Automation System;
22) Special Valves;
23) De-aerator and Vacuum System;
24) UPS, Battery Chargers, Rectifiers and Batteries;
25) Produced Water System and Hydrocyclones;
26) All pressure vessels and equipment under Brazilian Regulatory Standard NR-13;
27) Booster compressor;
28) Cranes;
29) Mooring equipment and materials;
30) Single Point Mooring System; (If applicable)
31) Swivel stack; (If applicable)
32) Crude Oil Pumps;
33) Firefighting pumps;
34) Pull-in equipment and materials;
35) Emergency and Auxiliary Generator Control Panel;
36) Process Equipment;
37) Emergency and Auxiliary Generators;
38) Air compressors;
39) Hydraulic Speed Drivers.

40) Lifeboats, rescue boats and davits;
41) Diesel engines;
42) Gas engines;
43) Offloading System;
44) Shell and Tube Heat Exchangers and PCHEs (Printed Circuit Heat Exchangers).

3.2.6. Related to Factory Inspection Services, CONTRACTOR shall summarize in the Monthly Control Report the inspections and activities performed in the period. This report shall include: mobilization dates, inspection dates, Vendor details, equipment and components tested, daily Unit Rates spent, professionals mobilized for each activity category, technical report numbers and any other relevant information. The format and content of the monthly control report shall be established in accordance with Section 3.1.11 above.

**3.3. FIELD INSPECTION SERVICES:**

3.3.1. Field Inspection Services consist of inspection of fabrication, construction and assembly and integration of components and systems for all activity categories (structural, piping and fittings, blast and painting, electrical, instrumentation, telecommunications, mechanical, etc.) at shipyards or other construction Site designated by PETROBRAS. These inspection services shall comply with:

3.3.1.1. Classification Society rules and applicable international rules, regulations, standards and industry good practices;

3.3.1.2. FPSO documents and requirements, including standard specifications, plans, and special provisions;

3.3.1.3. Quality requirements such as work methods and instructions, welding procedures, qualification of workers, non-destructive tests, water-tightness tests, etc.; and

3.3.1.4. Requirements for material and equipment delivery inspections, preservation, and mechanical inspection at the shipyard facilities;

3.3.2. In performing Field Inspection Services, CONTRACTOR shall:

3.3.2.1. Execute the planned inspections and related activities as defined by PETROBRAS's team, report periodically the status of these activities and identify and raise with PETROBRAS any technical issues or impacts on physical progress;

3.3.2.2. Prepare and issue to PETROBRAS a Monthly Control Report, in accordance with Section 3.1.12 above, and Specific Technical Reports, when requested by PETROBRAS; and

3.3.2.3. Monitor shipyard construction sites to check and advise PETROBRAS on any HSE or labor issues.

## 4. FACILITIES AND SERVICES

4.1. All direct and indirect costs for providing all facilities and services, including costs associated with CONTRACTOR's acquisition and transportation of Equipment for use in the performance of the Works, shall be included in each Unit Rate, and shall fall under CONTRACTOR's responsibility, unless expressly indicated otherwise.

4.2. Upon completion of the Works, CONTRACTOR shall undertake to return all facilities and Equipment provided by PETROBRAS for the performance of the Works, except for laptop computers, software licenses, cellular phones, consumables, disposables or other Equipment acquired by CONTRACTOR for use in the performance of the Works and the cost of which has been included in CONTRACTOR's Unit Rates.

## 5. INSPECTION BODY REQUIREMENTS

5.1. The inspection body shall provide evidence of its competence by means of at least one of the options below:

5.1.1. Accreditation in manufacturing inspection activity in accordance with ISO/IEC 17020 Type A.

5.1.2. Member of International Association of Classification Societies (IACS).

5.2. In case the inspection body does not comply with items 5.1.1. or 5.1.2 above, the inspection body shall guarantee compliance with the following requirements:

5.2.1. Signature of a term of Impartiality and Independence (Appendix I) between the suppliers and the Inspection Body.

5.2.2. Certified inspector according to API SI in the modalities applicable to the scope of the inspection. Other similar certifications, issued by independent entities, internationally recognized, shall be submitted for prior approval by the PETROBRAS.

5.2.3. Maintain ISO 9001 certification valid during the entire term of the Contract.

## 6. PERSONNEL QUALIFICATION

6.1. **Field Inspection Services Personnel Qualifications**:

CONTRACTOR shall deploy skilled professionals for the specifics of the planned activities at the Site(s), with the minimum qualification and education background as noted:

- Coating/Painting Inspector: technical background required;
- HSE Inspector: technical HSE background required;
- Electrical/Instrumentation, Telecom and Automation Inspectors: technical background required;

- Mechanical Inspector: technical background required;
- Welding Inspector - technical background required;
- NDT Inspector - technical background required;
- Metallic Structures Inspector: technical background required;
- Piping Inspector: technical background required.

6.1.1. The professional qualifications required by PETROBRAS for the performance of the services shall be as per the following criteria:

- Professional shall be fluent in spoken and written local language and be able to successfully communicate in spoken and written English.
- Able to use successfully basic software such as Power Point, Word and Excel, to document activities, and communication softwares such as Outlook and Teams.
- General understanding of offshore/marine construction and interaction between the various activity categories such as structural, piping, painting, etc.
- Inspector/Technician/Engineer shall be formally graduated with more than five (5) years of work experience with upgrades achieved through various continuing educational training or Professional Qualification such as CSWIP (Certification Scheme for Welding Inspection Personnel), AWS-CWI, NACE, ASNT, etc., and capable of successfully performing his/her duties with minimal supervision.

6.1.2. Personnel must be physically and psychologically fit, able to perform the services in a Shipyard environment, including, but not limited to confined spaces and/or locations at height. Medical confirmation of such capability shall be presented and updated from time to time.

6.1.3. Personnel Qualification: CONTRACTOR must comply with the qualifications below for each Field Services inspector, with the following being considered minimum requirements:

6.1.3.1. **Qualification for Coating/Painting Inspector -** Minimum work experience as follows:

- 5 (five) years experience in similar services:
- Inspection and audit in services for offshore/marine painting including but not limited to:
  - steel surface preparation;
  - coating selection and application;
  - coating quality control and testing;
  - anti-fouling coating
  - health and fire hazard in connection with the painting work.
- Qualification according to the standard FROSIO, NACE CIP, SSPC PCI or Icorr. Type: Coating inspector level II.;
- Expert understanding in thermo spraying, galvanizing and other alternative methods of coating;

- Execution of daily reports and activities controls;
- **Note**: Painting Inspector shall have documented qualifications. Certificates should preferably be issued by international organizations complying with the requirements in standard EN-45013;

6.1.3.2. **Qualification for HSE Inspector -** Minimum work experience as follows:

- 5 (five) years' experience in similar services:
- Expert understanding of Health, Safety and Environmental (HSE) regulation in connection with FPSO construction at Shipyard facilities;
- Day-to-day inspection on yard premises to ensure HSE standards;
- Ability to discuss HSE issues in connection with Shipyard activities;
- Identification of critical aspects in workflow task level;
- Execution of daily reports and activities controls;
- Knowledge of Applicable Codes and Standards.

6.1.3.3. **Qualification for Electrical Inspector -** Minimum work experience as follows:

- 5 (five) years' experience in similar services:
- Inspection and audit in services of assembly, preservation, commissioning and pre-operation in electrical systems for offshore/marine units;
- Reading/Interpreting of single-line diagrams, arrangements, layouts, power and grounding drawings, lighting drawings, control diagrams and specifications;
- Expert understanding of equipment/material application in hazardous areas;
- Expert understanding of factory inspection of the electrical equipment;
- Execution of daily reports and activities controls;
- Knowledge of Applicable Codes and Standards, such as CS Rules, etc.

6.1.3.4. **Qualification for Instrumentation, Telecom and Automation Inspector** - Minimum work experience as follows:

- 5 (five) years' experience in similar services:
- Inspection and audit in services of preservation, calibrating, assembling, tests and commissioning of field instrumentation (electronic transmitters, control valves, pneumatic actuators, etc.) for offshore/marine units;
- Reading/Interpretation of schematic drawings, arrangements, layouts, P & I drawings, data sheets and specifications;
- Expert understanding of equipment/material application in hazardous areas;
- Expert understanding of factory inspection of the electrical equipment;
- Execution of daily reports and activities controls;

- Knowledge of Applicable Codes and Standards, such as CS Rules, ISA, etc.

6.1.3.5. **Note on 6.1.3.3 and 6.1.3.4 Consolidated Roles:**

- For simplifying the Price Schedule, the roles Electrical Inspector and Instrumentation, Telecom and Automation Inspector have been grouped under one consolidated entry in the Price Schedule. Each role shall maintain its specific responsibilities, qualifications, and requirements as described in this Scope of Work. Payment will be made according to the consolidated entry in the Price Schedule, regardless of which specialty is performed.

6.1.3.6. **Qualification for Mechanical Inspector -** Minimum work experience as follows:

- 5 (five) years' experience in similar services:
- Inspection and audit in offshore/marine equipment services including but not limited to preservation, assembly tests, commissioning and pre-operation of static and rotating equipment for offshore/marine units;
- Expert understanding of fabrication inspection of static and rotating equipment;
- Expert understanding of overhaul of rotating equipment and valves;
- Reading/Interpretation of diagrams, arrangements, layouts, mechanical drawings and designs, and specifications;
- Execution of daily reports and activities controls;
- Knowledge of Applicable Codes and Standards, such as CS Rules, etc;
- Be able to work safely and actively work to improve safety conditions on the platform.

**6.1.3.7. Qualification for Welding Inspector** - Minimum work experience as follows:

- 5 (five) years' experience in similar services:
- Inspection and audit in services for offshore/marine welding including but not limited to:
- Welding procedure qualification;
- Welder and welding operator qualification;
- Visual welding inspection;
- Hardness testing;
- Certification issued by organizations that comply with the requirements of ISO 17024 as AWS CWI, PCN Welding Inspector Level 2, CSWIP Level 1

or 2. Welding Engineers and Certified Welding Inspectors certified by recognized organizations may be accepted as a substitute for the certified personnel mentioned above only when approved by PETROBRAS representative.

- Execution of daily reports and activities controls;

6.1.3.8. **Qualification for NDT Inspector -** Minimum work experience as follows:

- 5 (five) years' experience in similar services:
- Inspection and audit in services for offshore/marine NDT Inspection including but not limited to:
  - Witnessing of non-destructive tests such as Dye-check, MPI, X-ray and UT;
  - NDT procedure qualification;
  - NDT report evaluation
  - NDT Plan for piping and structure as per Petrobras requirements;
- NDT inspectors shall be certified by certification bodies that operate in accordance with ISO 9712 for applicable methods. The certification body shall be accredited according to ISO 17024, recognized by ICNDT or EFNDT MRA (Mutual Recognition Agreement) or ASNT ACCP program. The inspector shall be certified at least for one surface testing (PT, MT) and one volumetric inspection testing method(RT, UT).
- Execution of daily reports and activities controls.

6.1.3.9. **Note on 6.1.3.7 and 6.1.3.8 Consolidated Roles:**

- For simplifying the Price Schedule, the roles Welding Inspector and NDT Inspector have been grouped under one consolidated entry in the Price Schedule. Each role shall maintain its specific responsibilities, qualifications, and requirements as described in this Scope of Work. Payment will be made according to the consolidated entry in the Price Schedule, regardless of which specialty is performed.

6.1.3.10. **Qualification for Metallic Structures Inspector -** Minimum work experience as follows:

- 5 (five) years' experience in similar services;
- Inspection and audit in services for offshore/marine structures, including but not limited to:
  - Delivery of plating materials;
  - structural fabrication, assembly and erection;
  - weight control of heavy structures;
  - non-destructive tests such as Dye-check, MPI, X-ray and UT;
  - Pressure Tests.

- Expert understanding of welding on high tensile steel and special materials such as stainless steel and copper-nickel;
- Reading/Interpretation of diagrams, arrangements, layouts, structural drawings, weld maps and specifications;
- Execution of daily reports and activities controls;
- Knowledge of Applicable Codes and Standards, such as CS Rules, API, etc.

**6.1.3.11. <u>Qualification for Piping Inspector - Minimum work experience as follows:</u>**

- 5 (five) years' experience in similar services:
- Inspection and audit in services for offshore/marine piping including but not limited to:
  - piping materials;
  - piping fabrication, painting, assembly;
  - hydrostatic tests;
  - piping flushing;
  - operational systems and commissioning.
- Expert understanding of welding on high tensile steel piping and special pipe material such as stainless steel, copper-nickel and specialty steel for low temperature usage;
- Reading/Interpretation of diagrams, arrangements, layouts, isometrics, spool detailing and specifications;
- Execution of daily reports and activities controls;
- Knowledge of Applicable Codes and Standards, such as CS Rules, API, etc.

6.1.3.12. **<u>Note on 6.1.3.10 and 6.1.3.11 Consolidated Roles:</u>**

- For simplifying the Price Schedule, the roles <u>Metallic Structures Inspector and Piping Inspector</u> have been grouped under one consolidated entry in the Price Schedule. Each role shall maintain its specific responsibilities, qualifications, and requirements as described in this Scope of Work. Payment will be made according to the consolidated entry in the Price Schedule, regardless of which specialty is performed.

## 6.2. <u>Factory Inspection Services Personnel Qualifications.</u>

6.2.1. The professionals that may be required by PETROBRAS for the performance of Factory Inspection Services shall comply with the following requirements:

- Professional shall be able to successfully communicate in spoken and written English.

- Able to use successfully basic software such as Power Point, Word and Excel to document activities, and communication softwares such as Outlook and Teams.
- Skilled in the specifics of the planned inspection or acceptance tests, with Engineering or Technical background and significant experience in similar factory inspections and equipment tests.

### 6.2.2. Areas of knowledge

#### 6.2.2.1. Mechanical Inspector - Static Equipment

Inspector shall provide evidence of his/her competence in the applicable activity category by means of at least one (1) of the options below:

6.2.2.1.1. Pressure Vessel, Heat Exchanger, Piping and Steel Structure Inspector

| Alternative A | Alternative B | Alternative C |
|---|---|---|
| Background in Engineering or Technician<br><br>Areas: Mechanical or Metallurgical | Background in Engineering or Technician and Certification according to API Source Inspector Fixed Equipment<br><br>Type: SIFE | Background in Engineering or Technician and other international certifications of competence issued by independent entities whose purview covers knowledge of the materials and equipment to be inspected in the scope of this contract. In this case, certification shall be previously submitted to PETROBRAS for approval. |
| Minimal experience: 10 years<br><br>Inspection, Quality, Fabrication of Pressure Vessels, Heat Exchangers, Piping and Steel Structures | Minimal experience: 5 years<br><br>Inspection, Quality, Fabrication of Pressure Vessels, Heat Exchangers, Piping and Steel Structures | Minimal experience: 5 years<br><br>Inspection, Quality, Fabrication of Pressure Vessels, Heat Exchangers, Piping and Steel Structures |
| Specific Knowledge | | |

Materials, Welding, Nondestructive Testing, Coating, Fabrication and Pressure Tests in accordance with, but not limited to, the Standards below:

ASME BPVC Sections II, V, VIII and IX

ASME B31.3, B31.4, B31.8, B16.5 and B16.47

AWS D1.1

ISO 15156

TEMA

ASTM, ISO and ASME Standards applicable to pressurized equipment, piping and structures for FPSO

6.2.2.1.2. Valves and Fittings Inspector

| Alternative A | Alternative B | Alternative C |
|---|---|---|
| Background in Engineering or Technician<br><br>Areas: Mechanical or Metallurgical | Background in Engineering or Technician and certification according to API Source Inspector Fixed Equipment<br><br>Type: SIFE | Background in Engineering or Technician and other international certifications of competence issued by independent entities whose purview covers knowledge of the materials and equipment to be inspected in the scope of this contract. In this case, certification shall be previously submitted to PETROBRAS for approval. |
| Minimal experience: 10 years<br><br>Inspection, Quality, Fabrication of valves and fittings | Minimal experience: 5 years<br><br>Inspection, Quality, Fabrication of valves and fittings | Minimal experience: 5 years<br><br>Inspection, Quality, Fabrication of valves and fittings |

Specific Knowledge

Design, Assembly and Factory Acceptance Tests of Valves, Materials, Welding, Nondestructive Testing, Coating, in accordance with, but not limited, to the Standards below:

ASME BPVC Sections II, V and IX

ASME B31.3, B31.4 and B31.8

ISO, API, ASTM, ASME and MSS SP Standards applicable to valves and fittings for FPSO

### 6.2.2.2. Mechanical Inspector - Dynamic Equipment

Inspector shall provide evidence of his/her competence in the applicable activity category by means of at least one of the options below:

| Alternative A | Alternative B | Alternative C |
|---|---|---|
| Background in Engineering or Technician<br><br>Areas: Mechanical or Metallurgical | Background in Engineering or Technician and certification according to API Source Inspector of Rotating Equipment<br><br>Type: SIRE | Background in Engineering or Technician and other international certifications of competence issued by independent entities whose purview covers knowledge of the materials and equipment to be inspected in the scope of this contract. In this case, certification shall be previously submitted to PETROBRAS for approval. |
| Minimal experience: 10 years<br><br>Inspection, Quality, Fabrication of machinery | Minimal experience: 5 years<br><br>Inspection, Quality, Fabrication of machinery | Minimal experience: 5 years<br><br>Inspection, Quality, Fabrication of machinery |

Specific Knowledge

Design, Assembly and Factory Acceptance Tests of Pumps, Turbines, Compressors and rotating equipment in general, Materials, Welding, Nondestructive Testing, Coating in accordance with, but not limited to, the Standards below:

ASME BPVC Sections II, V and IX

ISO, API, ASTM, ASME and MSS SP Standards applicable to machinery for FPSO

### 6.2.2.3. Electrical/Instrumentation, Telecom and Automation Inspector

Inspector shall provide evidence of his/her competence in the applicable activity category by means of at least one of the options below:

6.2.2.3.1. Electrical Inspector

| Alternative A | Alternative B | Alternative C |
|---|---|---|
| Background in Engineering or Technician<br><br>Areas: Electrical or Electronic or Automation | Background in Engineering or Technician and certification according to API Source Inspector of Electrical Equipment<br><br>Type: SIEE | Background in Engineering or Technician and other international certifications of competence issued by independent entities whose purview covers knowledge of the materials and equipment to be inspected in the scope of this contract. In this case, certification shall be previously submitted to PETROBRAS for approval. |
| Minimal experience: 10 years<br><br>Inspection, Quality, Fabrication of electrical power equipment and systems | Minimal experience: 5 years<br><br>Inspection, Quality, Fabrication of electrical power equipment and systems | Minimal experience: 5 years<br><br>Inspection, Quality, Fabrication of electrical power equipment and systems |

| |
|---|
| Specific Knowledge<br><br>Area Classification (Hazardous areas), Coating, Design, Assembly and Factory Acceptance Tests of electrical power equipment and systems in general, such as generators, transformers, enclosures, junction boxes, switchgears, motors, control panels, in accordance with but not limited to, the Standards below:<br><br>API, ANSI, IEC, IEEE, ISO, NEMA, NETA, NFPA as applicable to electrical power equipment for FPSO |

6.2.2.3.2. Instrumentation/Automation and Telecom Inspector

| Alternative A | Alternative B | Alternative C |
|---|---|---|
| Background in Engineering or Technician<br><br>Areas: Electrical or Electronic or Automation | Background in Engineering or Technician and certification according to API Source Inspector of Electrical Equipment<br><br>Type: SIEE | Background in Engineering or Technician and other international certifications of competence issued by independent entities whose purview covers knowledge of the materials and equipment to be inspected in the scope of this contract. In this case, certification shall be previously submitted to PETROBRAS for approval. |
| Minimal experience: 10 years<br><br>Inspection, Quality, Fabrication of instrumentation and automation equipment | Minimal experience: 5 years<br><br>Inspection, Quality, Fabrication of instrumentation and automation equipment | Minimal experience: 5 years<br><br>Inspection, Quality, Fabrication of instrumentation and automation equipment |
| Specific Knowledge<br><br>Area Classification (Hazardous areas), Coating, Design, Assembly and Factory Acceptance Tests of Instrumentation and Automation equipment in general, such as | | |

actuators, panels, control systems, flowmeters, PLC, in accordance with, but not limited to, the Standards below:

API, IEC, IEEE, ISO, NETA, ISA, NFPA Standards applicable to instrumentation and automation equipment for FPSO

#### 6.2.2.4. Coating Inspector

Inspector shall provide evidence of his/her competence in the applicable activity category by means of at least one (1) of the options below:

| Alternative A | Alternative B | Alternative C |
|---|---|---|
| Background in Engineering or Technician<br><br>Areas: Chemical or Coating | Background in Engineering or Technician and certification according to FROSIO, NACE CIP, SSPC PCI or Icorr.<br><br>Type: Coating inspector level II. | Background in Engineering or Technician and other international certifications of competence issued by independent entities whose purview covers knowledge of the materials and equipment to be inspected in the scope of this contract. In this case, certification shall be previously submitted to PETROBRAS for approval. |
| Minimal experience: 10 years<br><br>Coating Inspection and Quality Control at Marine Coating Technology. | Minimal experience: 5 years<br><br>Coating Inspection and Quality Control at Marine Coating Technology. | Minimal experience: 5 years<br><br>Coating Inspection and Quality Control at Marine Coating Technology. |
| Specific Knowledge<br><br>Corrosion, Galvanizing, Thermo Spray Aluminum, Surface Preparation, Special Coating, Marine Coating Technology, Preservation, Piping Internal Coating, Paint Application, Passive fire protection, in accordance with, but not limited to, the Standards below:<br><br>API, ASTM, SSPC, ISO, NORSOK, NACE, Standards applicable to painting and | | |

coating for FPSO

## 7. PAYMENT AND MEASUREMENT CRITERIA

7.1. All payments will be governed by Article 8 of the Agreement.

7.2. CONTRACTOR shall provide to PETROBRAS until 15th day of each month, all Unit Rate calculations, Monthly Control Report, Final Reports and Specific Technical Reports, timesheets, and such other documentation as PETROBRAS may reasonably request to evidence the services provided in the period between the 11th day of the previous month and the 10th day of current month. All documents presented as evidence of the services provided during such period shall be signed by PETROBRAS Contract Supervisor(s), confirming the service acceptance. CONTRACTOR's failure to provide satisfactory evidence of the services provided, including the presentation of documents containing materially incorrect or incomplete information or which have not been signed by PETROBRAS Contract Supervisor(s), shall result in the rejection of CONTRACTOR's Invoice for such services.

7.3. For Factory Inspection Services, measurement will be performed by means of the issuance of daily timesheets of all inspections concluded in the period and the Final Inspection Reports. The measurement will be on a per-day basis for factory inspections, with the minimal time duration set as one (1) day.

7.3.1. For Factory Inspection Services with more than 15 (fifteen) Days of total duration in progress at the end of the measurement period, PETROBRAS may at its discretion perform or not partial measurements based on partial reports.

7.4. For Field Inspection Services, measurement will be calculated as per worked man/day at each construction shipyard or other Site. CONTRACTOR must present a monthly timesheet for each professional detailing all days worked during that period.

For the avoidance of doubt, the measurement reports with detailed activities shall not be a substitute in any way for the specific technical reports agreed to by the Parties.

7.5. All reports and timesheets must be summarized in one Measurement Report (MR), consolidating all Unit Rate calculation records in accordance with Exhibit II – Price Schedule.

7.6. The Services will be measured considering the Unit Rates set forth in Exhibit II and the Region Adjustment Factor (CF) defined at Exhibit II-C.

The number of daily quantities, duly approved by PETROBRAS, shall be multiplied by the Region Adjustment Factor (CF) according to the specific country where the services were performed. The Unit Rates shall not be adjusted by this Region Adjustment Factor in any way.

APPENDIX I

# IMPARTIALITY AND INDEPENDENCE DECLARATION TERM

By this statement, this Inspection Body and inspectors affirms that all inspection services described below will be performed with total impartiality and independence from the inspected supplier.

Inspection Body Identifications:

| | |
|---|---|
| Company name: | *[insert full company name]* |
| Tax Number: | *[Insert tax number indentification code]* |
| ISO 9001 Certificate Number: | *[Insert Certificate number]* |

Equipment Supplier Identification:

| | |
|---|---|
| Company name: | *[insert full company name]* |
| Tax Number: | *[Insert tax number indentification code]* |
| Address: | *[Insert full address of the location where the inspection service will be performed]* |

Inspection description:

| | |
|---|---|
| Contract Number: | *[Insert contract number]* |

| | |
|---|---|
| Request Letter Number: | *[Insert Petrobras request letter number]* |
| Equipment description: | *[Inspected Equipment description]* |
| Foreseen activities: | *[Describe the foreseen activities for this inspection]* |

DECLARATION

The INSPECTION BODY declares that will not be engaged in any activities that might be considered or cause conflict with its inspections service, judgement, and integrity.

The INSPECTION BODY is not directly engaged or involved and will not take part of a legal entity related to the procurement, fabrication, supply, installation, use or maintenance of the inspected equipment.

The INSPECTION BODY does not have any other contractual relation or obligation or other means that might influence or jeopardize the result of this inspection.

Resulting matters from other relations from INSPECTION BODY and the inspected supplier shall not endanger or affect the INSPECTION BODY impartiality and independence for the performed services.

[Place and date]

_____

[Inspection Body full name]

[Inspection Body Representative full name]