

 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	
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General Specification for Inspection and Testing

							
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			ENGINEER			Contractor	

 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	 N.I.O.C. <i>Pars Oil & Gas Company</i>
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Appendices

Appendix A: Inspection and Test Plan (ITP)

Appendix B: Inspection Application

Appendix C: Inspection Release Note

Appendix D: Certificate of Conformity

Appendix E: Technical Query (TQ)

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1. INTRODUCTION

1.1 General

The South Pars field is located in the Persian Gulf approximately 130 km South West of Assaluyeh and 175km West of Kish Island. The South Pars Phase 11 development facilities comprise 2 wellhead platforms named SP11A and SP11B and located around 70m water depth, two 32" sea lines associated with their 4" piggy-back returned lines, exporting the gas to the existing onshore plants. The Phase 11 development of the South Pars gas field (SP11A and SP11B) is designed for a production of 2000 MMSCFD of reservoir fluid (1000 MMSCFD for each SP11A and SP11B).

The development of SP11A is based on new 15 slots Wellhead platform and sea-line. The sea-line from SP11A Wellhead Platform (SPD11A) will send SP11A production to SP12 onshore facilities in TOMBAK via the 32" sea line. When the field starts to be depleted, a compression phase will be implemented (out of Project SOW).

In addition to the wellhead platform (SPD), a Relief platform (RP), equipped with a vertical Flare, will be connected by 2 bridges (BR1 & BR2) to the SP11A platform for personnel access. One Bridge Support Platform (BSP), supports the two bridges that allow access from SPD to RP. Typically, The SP11A Platform consists of:

1. The wellhead platform dedicated to drilling with a jack-up rig. [SPD]
2. The Relief platform, which is equipped with a vertical Flare. [RP]
3. The Bridge Support Platform [BSP]
4. The two Bridges, which connect SPD to RP through BSP [BR1, BR2]

Iran Shipbuilding & Offshore Industries Complex Co. known as ISOICO (Contractor) has been awarded to conduct and to perform the Engineering, Procurement, Supply, Fabrication, Construction, Load Out, Sea Fastening, Transportation and Installation of the SP11A Wellhead topside, ancillaries and Tripods and the commissioning of installed equipment on it, hereinafter referred to as "Project".

Scope of SLT International (ENGINEER) involvement in the Project is detail design engineering and procurement engineering services.

1.2 Purpose of the Document

This specification describes the minimum requirement for Inspection and Testing for SUPPLIER supplied materials and equipment covering structural, electrical, instrumentation, mechanical static equipment and mechanical rotating equipment and does not relieve the SUPPLIER of his obligation to carry out inspection required as per the codes and specification of this requisition.

1.3 Key Definitions

Owner	National Iranian Oil Company (NIOC)
	Pars Oil and Gas Company (POGC)
Company	Petropars Ltd. (PPL)
Contractor	Iran Shipbuilding & Offshore Industries Complex Co. (ISOICO)

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ENGINEER SLT International;

SUPPLIER/ VENDOR Firm or corporation who submit a quotation for the supply of the equipment

PURCHASER Party who receives the quotation from the SUPPLIER

1.4 Abbreviations

NIOC National Iranian Oil Company;

POGC Pars Oil & Gas Company;

PPL Petro Pars Ltd.;

ISOICO Iran Shipbuilding & Offshore Industries Complex Co;

SLT SLT International;

AFC Approved For Construction;

ATEX Atmosphere Explosible (Explosive Atmosphere)

CA/TPA Certifying Authority;

CRS Comment Response Sheet;

DC Document Controller;

EDMS Engineering Document Management System;

EM Engineering Manager;

FAT Factory Acceptance Test

FGS Fire & Gas System

IDC Inter Discipline Check;

IFA Issued For Approval;

IFR Issued For Review;

IP Ingress Protection

LE Lead Engineer;

MTBF Mean Time Between Failure

MTTR Mean Time To Repair

NFPA National Fire Protection Association

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NPT	National Pipe Thread
PID	Piping and Instrumentation Diagram
PM	Project Manager;
QA	Quality Assurance;
SOLAS	Safety of Life at Sea
SOW	Scope Of Work;
SS	Stainless Steel
TBA	To Be Advised;
TBC	To Be Confirmed;
WHP	Well Head Platform;

1.5 References

The following listed documents are considered as references for preparation of this document.

1.5.1 Applicable Codes and Standards

All work specified shall be in accordance with all applicable sections of the latest edition of the Standards, Professional Documents, Regulations and Codes (and their current amendments) listed below and in the applicable TOTAL General Specifications, and shall form an integral part of this project.

1.5.2 Local Regulations

When more stringent, Iranian regulations and laws shall have precedence over this specification, the following project specifications and codes and standards.

1.5.3 Project Documents

This document shall be read in conjunction with the project document listed below:

[1]	Specification For Hydrostatic & Pneumatic Testing of Piping System	Doc. No. SP11-10-D-20-4-067
[2]	Specification For Flushing & Chemical Cleaning	Doc. No. SP11-10-D-20-4-068
[3]	Minimum Requirements for Vendor Documents	Doc. No. SP11-10-D-10-4-004
[4]	Specification for Packing, Marking and Shipping	Doc. No. SP11-10-D-10-4-001

1.5.4 Company General Specifications

The following Company specifications shall apply:

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- [5] GS – EP – ELE - 451 Third party inspection independent verification of electrical facilities
- [6] GS - MEC - 301 Rotating machines - Inspection and shop tests
- [7] GS - PVV – 920 Inspection procedure for pressure vessels
- [8] GS - EXP - 209 Performance indicators for maintenance & inspection reporting
- [9] GS - COR – 560 Physical and chemical treatment of hydrostatic test water
- [10] GS - PVV - 173 Pneumatic testing of above ground piping systems

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2. FACILITY DESCRIPTION

The SP11A gas field shall be developed to produce 1000 MMSCFD reservoir fluid to supply gas to Tombak (SP 12 part) with a 32" export pipeline.

The SPD11A wellhead platform consist of a four-legged jacket substructure and a topside consist of a truss-framed structure. Facilities to be designed during the engineering phase are as follows.

2.1 Jacket Tripods

Tripods facilities to be installed at SP11A location are as follows:

- Tripod support structure for Bridge Support Platform, including piling (BSP11A);
- Tripod support structure for Flare Support Platform, including piling (RP11A);

2.2 Topside and ancillaries

A brief description of topside facilities to be installation at SPD11A location is as follows:

- 1) One WHP (SPD11A) with 15 slots; with below main equipment:
 - Well Heads;
 - Production/Test manifold;
 - Test separator;
 - Export metering system;
 - Scraper launcher;
 - HP relief KO drum;
 - Closed drain/LP flare drum;
 - Open drain system;
- 2) Associated utilities (Diesel, MEG, Methanol, KHI, Chemicals, Nitrogen, Fresh Water);
- 3) One Relief Platform (RP), including deck and flare tower, installed on the RP11A being connected by bridge to BSP11A;
- 4) One Deck installed on the BSP11A, being connected by bridges to the wellhead platform and RP11A;
- 5) Two bridges connecting SPD11A to BSP11A and BSP to RP11A;

2.3 Onshore Facilities

An Onshore Facility after sealine onshore tie-in that includes:

- Valve station;
- Pig Receiver;
- Onshore pipeline to Phase 12 Plant;
- ICSS and Telecommunication

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3. GENERAL REQUIREMENTS

SUPPLIER shall submit his QA plan describing his quality system and its application to the Scope of Supply complying with the details of inspection levels. This plan shall be in accordance with ISO 9001: 2008 standards and the applicable project specification.

SUPPLIER shall submit an Inspection and Test Plan (ITP) covering all relevant components, complete equipment and systems and including factory testing. This shall be based on equipment specifications; data sheets and project referred Codes and Standards and shall also show all points at which attendance by PURCHASER/Company/TPA is required. These quality control documents shall be submitted for comments and approval of PURCHASER/Company in the preliminary form with the original bid and then in the final form in accordance with the schedule of the purchase order.

Where the specification calls for certain test to be witnessed/observed sufficient advance notice shall be given to the PURCHASER/Company prior to each inspection or test. The SUPPLIER shall be responsible for notifying all SUB-SUPPLIERS of any specific PURCHASER/Company/TPA's inspection requirements.

Contractor, Company and TPA shall have free access to SUPPLIER and SUB SUPPLIER workshops during the fabrication of any part of project. Formalities for access in the SUPPLIER's works and in the SUB-SUPPLIER's works shall be completed by the SUPPLIER in advance in order to allow the visit by PURCHASER/Company/TPA with minimum effort.

All materials shall be provided with certificates proving that the material furnished meets the requirements of the specification and the grade to which it is to be supplied. As a minimum, material certification shall be in accordance with BS EN 10204 as given in individual equipment specifications and data sheets.

All material certificates shall clearly identify the equipment and the part to which they apply.

Inspector's reports shall be issued within three (3) working days following the end of inspection by Contractor or TPA, with copy to Company.

Contractor QA and Company QA reserves the right to audit SUPPLIER and SUPPLIER shall prepare all information and submit the document requested (Quality Audit).

Contractor/Company/TPA shall perform inspection visits in SUPPLIER's shops, as well as in their SUB-SUPPLIER's shops, at specific stages of equipment fabrication, assembly, testing, painting and packing. Such specific inspection stages are to be determined for each category of equipment in accordance with the finalized/approved inspection and test plan which identifies all inspection, NDT witnessing, and witness testing points applicable to all phases of fabrication, assembly and testing.

Contractor will appoint the services of Company approved TPA (Third Party Agency) from the final Company approved SUPPLIER list to perform inspection and certification functions. Contractor/SUPPLIER shall provide full knowledge of the Project Contract requirements, specification, shop drawings and purchase order requirements plus applicable Codes to TPA and allow them full access to the work.

All materials testing certificates except non-specific inspection certificates such as EN-10204-2.1 and 2.2 shall be issued by SUPPLIER's QA/QC personnel who are not involved in the production process in manufacturing or processing works.

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A material certificate shall be provided for each discrete piece or item of material or equipment. Where a number or pieces have identical batch number, heat/cast number, test number, and were manufactured at the same process and for the same purchase order item, then they may be recorded on a single certificate.

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4. INSPECTION COORDINATION PROCEDURE

If there is any conflict between the related Specifications, Code and Standard, SUPPLIER shall immediately consult with Contractor in written form for clarification.

Contractor shall send the conflict to Company immediately in writing for final decision.

Third party inspection agency is able to perform the shop and field inspection according to approved ITP.

SUPPLIER shall be responsible for providing required quality document during the purchasing and procurement activities. These documents shall be reviewed by Contractor/Company and approved by Contractor/Company.

SUPPLIER shall grant Contractor/Company's inspector and TPA free access to SUPPLIER's/SUB-SUPPLIER's shop or plant to verify progress and to witness inspection & test activities of related equipment/materials.

SUPPLIER shall be responsible for inspection/test of the equipment and materials including parts supplied by SUB-SUPPLIERS, and for submittal of SUPPLIER document package of SUB-SUPPLIER items.

SUPPLIER shall ensure that material/part used by SUB-SUPPLIER are purchased only from acceptable sources according to his QA/QC manual and purchase specification. Quality documents of SUB-SUPPLIER's items shall be reviewed by designated inspector of Company/Contractor during visiting SUPPLIER's shop for inspection & test witness.

SUPPLIER shall offer not only inspection & test measuring tool but also assistant manpower and facility to decrease inspection time.

All inspection & test measuring tools shall be calibrated with valid calibration certificate and recorded on control log by SUPPLIER.

During visiting SUPPLIER's shop for inspection & test activities, designated inspectors of Contractor/Company and TPA can carry out spot audits jointly with SUPPLIER's inspector to assure that all work of SUPPLIER shall be performed in accordance with SUPPLIER QA/QC manual.

Provision shall be made by SUPPLIER/Contractor at all times for Company to have the option of participating in pre-inspection meetings, review of quality control documents, inspection visits and test witnessing. During Company participation, Company shall have access to SUPPLIER (or SUB-SUPPLIER) facilities. SUPPLIER, under Contractor supervision, shall prepare anticipated weekly testing programmes providing Company with sufficient advance notice for its participation.

In the events of a test being postponed by SUPPLIER, due to SUPPLIER/SUB-SUPPLIER failure making preparation, all accommodation expenses required by Contractor/Company/TPA delegates shall be provided by SUPPLIER.

The language used in all document, data and forms for inspection/test shall be English, if not specified specially.

Inspection by Contractor/Company/TPA shall not relieve the SUPPLIER of its obligation for quality control activities and guarantee for workmanship or performance of equipment.

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4.1 Inspection Notice and Work Flow

According to approved Shop Inspection & Test Plan (ITP), SUPPLIER shall notify the beginning date of the related inspection/test and other activities to Contractor/Company/TPA at the date specified in below table. For the Type 1, after getting Company's intention, Contractor will relay it to SUPPLIER immediately.

Type	Notice time
1. PIM, FAT and Company Witness (Point for non-Iranian equipment)	Thirty-five (35) days in advance.
2. PIM, FAT and Company Witness (Point for Iranian equipment)	Twenty-one (21) days in advance.
3. Others	Fourteen (14) days in advance.

Contractor has a right to adjust the proposed inspection date(s) from SUPPLIER considering various factors or situations.

SUPPLIER shall never proceed with inspection & test activities designated by Contractor/Company/TPA as Witness or Hold Points without advance notice or a written waiver from Contractor/Company.

Contractor's inspector or TPA will visit SUPPLIER's shop at scheduled inspection date/time, witness inspection & test activities and review all related inspection/test results performed already by SUPPLIER according to shop inspection & test plan in conjunction with inspection requirement. If all inspection/test results are satisfactory, then designated inspector will leave his name/signature on each inspection/test record for witness evidence. Witness of any inspection/test activities shall not be construed as acceptance of any said component/part of the equipment.

SUPPLIER shall provide designated inspector with approved drawing, procedure and other related data to assist Contractor's/Company's/TPA inspections.

The inspection & test report shall be prepared by SUPPLIER and co-signed by designated inspector after witness of inspection & test activities.

Verbal inspection notice is not acceptable and written inspection notice shall be sent to Contractor by mail or FAX by using Inspection Application Form.

Contractor's inspector or TPA will prepare the inspection & surveillance report and submit to Contractor for follow-up/monitoring, when necessary.

4.2 Re-Inspection and Re-Testing

If any inspections and/or tests show that any part of the Work has not been performed in accordance with the Contract requirements, SUPPLIER, whether notified or not by Contractor/Company, shall immediately correct the defects and shall repeat the inspection and/or tests until they show the defects have been put right.

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At any time during the performance of the Work, Contractor/Company/TPA shall have the right to instruct SUPPLIER to perform re-examination of any parts of the Work and SUPPLIER shall re-inspect and/or re-test such parts of the Work as instructed by Contractor/Company/TPA.

4.3 Documentation

Vendor documentation shall be according to “Minimum Requirements for Vendor Documents” [3]. Incomplete, inaccurate or illegible documents will be the cause of rejection for related items until such time as satisfactory rectification has been affected.

Submittal of quality documents with “Certificate of Conformity” - SUPPLIER shall prepare quality document with “Certificate of Conformity” and submit to Contractor through normal channel.

Two (2) copies of SUPPLIER Quality Documents shall be available for review by Contractor/TPA for issue of Inspection Release Note.

Contents of SUPPLIER Quality Documents - Quality documents shall include the following documents and records as a SUPPLIER document, but not be limited to.

1. Certificate of Conformity
2. Material Certificate.
3. Visual/Dimension Check Report
4. Non-destructive Examination Record
5. Pressure Test Certificate
6. Mechanical running/performance test records (with curve)
7. FAT report
8. Functional Test Report
9. Heat Treatment Records
10. Painting Inspection Report
11. Other test records/certificates, if applicable.

Contractor's QC department and TPA shall review and approve the mentioned documents for further Company actions.

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5. TEST PROCEDURES AND TESTING REQUIREMENTS

For tests like Hydro test, mechanical test, performance test and/or complete unit test and quality and inspection test, SUPPLIER shall submit a testing procedure to the Contractor/Company, for approval, at least 6 weeks before the test. This procedure shall include and detail:

- The test installation schematic with position of measurement points
- The accessories used during test and if they are elements of the job or of the test bed
- The instruments and their calibration procedure
- The test parameters allowing acceptable conditions (like flow, pressure, temperature, speed, viscosity)
- The expected ranges of values and the acceptance criteria
- The formulas used to calculate the behaviour in site conditions

The test procedure shall be approved by the Contractor/Company prior to the commencement of testing and shall be complete with all equipment tests and checklists.

SUPPLIER shall inform Contractor/Company of all such tests at least (7) working days ahead of the starting date as well as expected duration of the tests.

The SUPPLIER shall be responsible for providing all necessary utility services to conduct the tests.

The SUPPLIER shall provide all equipment necessary to undertake the above tests and shall be responsible for ensuring that all calibration and test equipment have valid certification.

When required by the Contractor/Company's representative or TPA, equipment shall be dismantled for visual inspection after testing.

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6. FACTORY TESTING

Inspection and testing for the equipment/package shall be in line with the requirement of Inspection Data Sheets, Specifications and approved inspection and test plan. The following tests shall be witnessed (Tolerance limits on the Performance Test shall be as per the data sheets and applicable codes):

- Hydrotest of the pressure retaining parts.
- Mechanical run test
- Performance Test of the equipment with job driver or shop driver as agreed in Purchase Order.
- Noise Level Test of the equipment.
- Vibration measurement of the equipment (applicable to Machinery).
- Preparation for shipment.

6.1 Hydrostatic Tests

All pressure containing equipment shall be hydro tested in accordance with the relevant Specifications, Codes and Standards as stated in the material requisition or in the particular Data Sheets of the equipment. All piping systems shall be hydro tested in accordance with ASME B31.3. The water used shall be clean potable water. For austenitic stainless-steel systems, the chloride content in the test water shall not exceed 50ppm, if it is not specified in project specification and for carbon steels chloride content in the test water shall not exceed 100ppm. Hydro testing shall last a minimum of 60 minutes for vessels and piping systems.

6.2 Equipment Performance Test

All equipment shall be subjected to an individual performance test where appropriate in accordance with the requirements of the Material Requisition and/or the equipment data sheets.

Performance test curves complete with measured parameters, recording log sheets and certificates shall be provided on successful and accepted completion of the test.

6.3 Assembled Skid Testing

The complete pipe work assembled on the package shall be subject to a low pressure (1.0 barg) leak test with an appropriate medium such as nitrogen at the SUPPLIER's works to verify integrity of all joints.

The complete assembly shall be given a full functional test including instrumentation and electrical equipment check at the SUPPLIER's works. During the test, all instrumentation and electrical equipment functions shall be verified, including simulation of all alarms, shut-downs and remote signals using water or instrument quality air as a substitute for the process liquid/gas to prove the integrity of the control equipment/instrumentation.

Continuity checks on all electrical and instrument cabling and functional testing of installed instruments and control valves must be also carried out by SUPPLIER.

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7. TESTING AT SITE

On the completion of site installation and commissioning, the package shall be subjected to a continuous running test for the duration as agreed in Purchase Order under actual site conditions. During the test, satisfactory operation and integration with the Contractor/Company's system shall be demonstrated.

The site test procedure shall be submitted by the SUPPLIER and approved by the Contractor/Company before the testing.

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8. INSPECTION AND TESTING REQUIREMENTS (ITR)

Inspection and testing requirements are given in Inspection Data Sheets attached with Material Requisition. The inspection points given in these Inspection Data Sheets shall be the minimum required. Contractor/Company has the right to request for additional inspection points where it is deemed required SUPPLIER shall submit contract specific Quality plan as well as inspection and test procedures for Contractor/Company's review and Contractor's/Company's approval.

Inspection and Test Plan (ITP) and Quality Control Plan (QCP) shall be reviewed and approved by Contractor/Company.

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9. ACCEPTANCE CONDITION FOR INSPECTION AND SHOP TESTS

9.1 Inspection

Inspection done by SUPPLIER shall be performed by qualified inspectors and in accordance with specified or standard procedures. Inspector's Qualification Certificates and procedures shall be stored in the SUPPLIER's files and made available for examination by the Contractor/Company/TPA. Standard procedures certified in a general quality process (like ISO 9000 series) or in full compliance with internationally recognised standards may be considered as approved without comment by Contractor/Company. For each inspection done by SUPPLIER, evidence of use of the approved procedure shall be available.

For any inspections done without Contractor/Company/TPA attendance, actual values of measured parameters (if any) shall be recorded. All these recorded values shall be included in the quality files and available for examination by the Contractor/Company.

When an inspection report or certificate is to be included in the contractual equipment data books, the recorded values shall be indicated on the relevant document (rather than a simple mention of conformity or of compliance with allowances).

For inspections witnessed by Contractor/TPA, the records will be countersigned by Contractor/TPA after verification of conformity with procedures and acceptance criteria.

9.2 Non-Conformity and Non-Conformance Reports

Any part not fulfilling the acceptance criteria of an inspection shall be segregated and shall be the subject of a Non-Conformance Report. Possible use of such parts, either in an (as is) basis or after repair may only be considered after formal Contractor/Company/TPA acceptance of the technical evaluation done and presented by SUPPLIER.

9.3 Test Approval

For any test witnessed by Contractor/TPA, the test records will be signed by Contractor/TPA (with or without comments) to show acknowledgement of the test progress.

At the end of each test a meeting will be set up for comments on test progress, on the recorded values, on the preliminary calculations and the preliminary results.

If the test procedure has not been fully complied with or if preliminary calculations show the need for further verifications, the SUPPLIER shall propose to the Contractor/Company/TPA the necessary actions (instrument re-calibration, estimation of measurement errors, new calculations, additional records, etc).

If all parameters and preliminary calculations are within acceptance criteria, the test itself will be considered as completed by Contractor/Company/TPA and SUPPLIER will be allowed to proceed.

If equipment has to be modified for improvement of performances or correction of operation, the tests already done will not be acceptable and shall be re-run after identification and correction of defects.

Contractor's formal approval of test results will only happen after satisfactory testing and receipt of the test report including all calculations, curves, transportation to site results, within contractual schedule and form.

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10. THIRD PARTY INSPECTION / CERTIFICATION

Equipment shall be inspected and certified by Third Party Agency, appointed by Contractor/Company.

All inspection certificates shall meet the following:

- All certificates shall be typed or printed. Handwritten certificates are unacceptable.
- All certificates shall be in English language. Where this is not possible a notarized translation shall be provided.
- All certificates shall be free from additions, deletions and corrections. The use of correction fluid is unacceptable.
- All certificates shall be of a clear, well contrasted and legible quality suitable for photocopying, microfilming or electronic imaging with reference to the following standards:
 1. BS 5536 Preparation of Technical Drawings and Diagrams for Microfilming
 2. BS 5444 Recommendations for the Preparation of Copy for Microfilming
 3. BS 4210 Specification for 35mm Microfilming of Technical Drawings
- Each certificate shall carry as a minimum;
 1. Contractor's Purchase Order number
 2. Purchase Order item number
 3. Tag number (as applicable)
 4. SUPPLIER's name and address
 5. Signature of Authority
 6. SUPPLIER's verification signature and additionally, where appropriate;
 7. Applicable manufacturing Code, Standard or Specification
 8. Quality of material supplied against the order
 9. Material/equipment description
 10. Relevant test data
 11. Certificate number
 12. Heat, Cast and Batch number
 13. SUPPLIER's serial number
 14. Third Party Agency endorsement

In addition, all equipment and materials released from SUPPLIER(S) shall be accompanied by a copy (or copies) of;

- a) Contractor's Inspection Release Certificate.
- b) The Certification Authority inspection Release Note, where appropriate.

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- c) The letter or Certificate of Conformity from the SUPPLIER stating compliance with the applicable Order requirements.
- d) Material Test Certificates for all items (except temporary attachments and some structural parts) to be welded on site.
- e) Outstanding Work Lists and QC punch listed items to be completed on site by the SUPPLIER.
- f) Handling procedure, if required.
- g) Packing, unpacking, storage and preservation procedure, if required.
- h) Lubrication schedule (as appropriate).
- i) Approved SUPPLIER deviation requests

Unless otherwise specified, or required by Code or Regulation, type test and type approval certificates shall be issued by an accredited independent test laboratory or authority acceptable to Contractor/Company and the Third-Party agency. It shall be the SUPPLIER's responsibility to determine the acceptability or otherwise to the Certification Authority of the test laboratory or authority proposed.

Type test & type approval certificates shall be issued directly to the equipment Manufacturer by an accredited authority acceptable to Contractor/Company and the Third-Party Agency. Type test and type approval certificates, together with any associated manufacturing licenses, shall be in date at the time of dispatch of the material/equipment to Contractor.

The list of material test, type test, type approval and proof test requirements which follow is not exhaustive. It shall be the SUPPLIER's responsibility to be aware of the requirements of the Codes, Standards and Specifications which apply to the order, and to implement them accordingly. Where doubt exists, SUPPLIER shall seek guidance from Contractor/Company.

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11. COMPLETION OF TEST, INSPECTION BEFORE SHIPMENT AND RELEASE FOR SHIPMENT

11.1 Completion of Test

While the above-mentioned tests are being performed, all discrepancies, damaged or missing equipment, malfunctions, missing documents, if not corrected immediately, shall be recorded within a Punch List. A level of priority shall be assigned to each punch item and SUPPLIER shall clear all items deemed mandatory by Contractor/Company.

Final acceptance of shop tests shall be made by Contractor after complete test sequence has been performed and mandatory punch items solved, but shall not constitute a waiver of SUPPLIER's obligation to provide a complete package unit which meet all performance requirements.

11.2 Inspection Before Shipment

Before shipment the equipment shall be inspected by the SUPPLIER and then by the Contractor/TPA, with particular attention to the three following points:

- Quality and quantity inspection
- Technical information within shipment,
- Loose supplied items

11.2.1 Quality and Quantity Inspection

Quality and quantity inspection based on drawings and reference documents, will cover verification for each part of supply of elements like quantity, identification, conformity with specifications, cleanliness, painting or surface treatment, protection for shipment.

11.2.2 Technical Information Within Shipment

Supplier shall clearly indicate in the documentation included in the packing and preferably on the equipment itself, any specific element requiring an intervention for site installation or before equipment starting like:

- Rotors locked for shipment
- Volumes under inert gas or desiccant bags
- Handling devices suitable only for a part of the package
- Preservation and storage recommendations

11.2.3 Loose Supplied Items

Any loose supplied item will be subjected to a detailed inspection in order to verify, in addition to the points indicated in clauses 7.2.1 and 7.2.2 above, the following aspects:

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- For any item used during shop test, the quality of eventual rework, bolts and nuts, gaskets, O rings and accessories for site installation.
- For any item not used during shop tests and as delivered by manufacturer, conformity with scope of supply and specifications, suitability for operation, connections, re-packing for final shipment.

11.2.4 Release for Shipment

On completion and acceptance by Contractor/TPA/Company of all shop acceptance tests, complete unit test, load out procedures approved, lifting appliances tested and provided that all required documentation has been submitted to PURCHASER/Company, PURCHASER and TPA shall release a "READY FOR SHIPMENT CERTIFICATE" prior to shipment of the package.

SUPPLIER will notify Contractor/TPA of shipping release through Inspection Release Note after final/packing inspection and review of SUPPLIER Quality Documents with "Certificate of Conformity" prepared by SUPPLIER and approved by concerned parties according to ITP.

SUPPLIER shall not ship any items of equipment without taking written notice for shipping release from Contractor/TPA.

Packing and Shipment to be carried out as per "Specification for Packing, Marking and Shipping" [4]

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 SLT INTERNATIONAL			Appendices Class: 2
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Appendices

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 SLT INTERNATIONAL			Appendix A Class: 2
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Appendix A

INSPECTION AND TEST PLAN (ITP)

		DOCUMENT DESCRIPTION		 N.I.O.C. <i>Pars Oil & Gas Company</i>		
		Document No.:	Rev. No.:	Class:		

DATA SHEET FOR

ITEM NUMBER:

CONTRACT NO.	: 02212/700/1554
PROJECT	: SOUTH PARS GAS FIELD DEVELOPMENT PROJECT PHASES 11 OFFSHORE PLATFORM
COMPANY	: NATIONAL IRANIAN OIL COMPANY
SITE	: TOMBAK/SOUTH PARS GAS FIELD PERSIAN GULF, IRAN

Rev	Date	Description	ORIGINATOR	PRPD	CHKD	APP'D	Company APP'D

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		DOCUMENT DESCRIPTION		
		Document No.:	Rev. No.:	Class:
INSPECTION DATA SHEET (I.D.S.)				
Material:				
Tags:				
CONCERNED COMPANIES:				
☒ SUPPLIER (S)	☒ ISOICO(ISO)	☒ Third Party (T)	☒ Petro Pars (P)	
CERTIFYING AUTHORITIES:				
OTHER :		OFFICIAL AUTHORITY:		
TYPE OF INTERVENTION:				
H -	WITNESSING IS REQUIRED FOR EACH UNIT. WITNESSING IS MANDATORY FOR CONTINUING THE CYCLE AND WRITTEN NOTICE THROUGH A REGISTERED CHECK ADVISE OR OTHER KIND OF OFFICIAL LETTER SHALL BE SUBMITTED TO RELATED PARTIES.			
W -	WITNESS : RELEVANT INSPECTOR WILL BE INFORMED OF TIME AND LOCATION OF TESTING THROUGH A REGISTERED CHECK ADVISE OR OTHER KIND OF OFFICIAL LETTER, HOWEVER WORK MAY PROCEED WITHOUT THE PRESENCE OF INSPECTOR AT THE INSPECTOR DISCRETION.			
R -	CHECK OF CERTIFICATES AND/OR DOCUMENTS WITH APPROVED PROCEDURES, SPECIFICATIONS AND ACCEPTANCE CRITERIA.			
C -	CHECK HAS BEEN PERFORMED AND CERTIFICATE ISSUED.			
D -	DOCUMENTATION ONLY.			
M -	MONITOR : WORK PROCEED WITHOUT PRESENCE AND SPECIAL INFORMATION OF THE TEST. INSPECTOR RESERVE THE RIGHT TO ATTEND THIS ACTIVITY AT ANY TIME.			
RA -	REVIEW AND APPROVAL OF THE CERTIFICATE AND/OR DOCUMENTS, TPA SHALL SIGN AND SEAL THESE AS RA			
CODES / SPECIFICATIONS/ DRAWINGS / REFERENCE STANDARDS:				
NOTES:				
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South Pars Gas Field Development Project Phases 11			Page 3 of 4	

				DOCUMENT DESCRIPTION				 N.I.O.C. Pars Oil & Gas Company	
		Document No.:				Rev. No.:		Class:	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	POS.	DESCRIPTION OF CHECKS AND TESTS	ACTION CODE				REFERENCE		
			S	ISO	T	P			

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Appendix B

INSPECTION APPLICATION

 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	 N.I.O.C. <i>Pars Oil & Gas Company</i>
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Project Title	South Pars Gas Field Development Project - Phases 11				
Inspect. Application No.	SP11-IA-XXXX (MR NO.)-0001	Rev	Project No.		
Customer	ISOICO	Customer Reference			
Equipment					
Purchase Order	Date				
SUPPLIER/SUB-SUPPLIER					
From	Tel No.	Fax No.	Email		
To	Attention Contractor (ISOICO) Tel No.	Fax No.	Email		
Copy to	Attention TPA Tel No.	Fax No.	Email		
Copy to	Attention Company (PPL) Tel No.	Fax No.	Email		
Location of Inspection					
SUPPLIER Contact Name	Tel No.	Fax No.	Email		
INSPECTION DESCRIPTION (to be completed by SUPPLIER/MANUFACTURER Representative)					
The materials/equipment listed below will be ready for Inspection on the date(s) indicated below and as required in the approved Inspection and Test (Quality) Plan. The materials/equipment fully complies with the purchase specifications.					
P.O Item No:	Quantity Ordered	Quantity for Inspection	Description	Tag No:	All Certificates Available Y/N
Date Materials Ready for Inspection:					
SUPPLIER/MANUFACTURER confirms that all applicable Purchaser approved documents will be available at the point of inspection.					
SUPPLIER Representative:		Name:		Title:	
		Signature:		Date:	
Customer Use Only					
It has been arranged with the SUPPLIER that			will inspect the above mentioned		
Materials on at am/pm, at the above location.					

 ISOICO	 PETROPARS	SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	 N.I.O.C. <i>Pars Oil & Gas Company</i>
 SLT INTERNATIONAL			Appendix C Class: 2
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Appendix C

INSPECTION RELEASE NOTE

 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	 N.I.O.C. <i>Pars Oil & Gas Company</i>
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Project Title	South Pars Gas Field Development Project - Phases 11		
IRN Title			
IRN No.	SP11-IRN-.XXXX (MR NO.)-0001	Rev	Project No.
Customer	ISOICO	Customer Reference	
Equipment			
Purchase Order	Date		
IRN DESCRIPTION	(to be completed by CONTRACTOR/TPA Representative)		
The below given Equipment/Material is inspected and released for shipment.			
Equipment / Material			Quantity
CONTRACTOR REPRESENTATIVE (Name) _____ Signature _____ Date _____			
TPA REPRESENTATIVE (Name) _____ Signature _____ Date _____			
Comments/Instructions			

 ISOICO 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	
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Appendix D

CERTIFICATE OF CONFORMITY

 ISOICO		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	 N.I.O.C. <i>Pars Oil & Gas Company</i>
 SLT INTERNATIONAL			Appendix D Class: 2
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Project Title	South Pars Gas Field Development Project - Phases 11																		
COC Title																			
COC No.	SP11-COC-.XXXX (MR NO.)0001	Rev	Project No.																
Customer	ISOICO	Customer Reference																	
Equipment																			
Purchase Order		Date																	
CFC DESCRIPTION	(to be completed by SUPPLIER Representative)																		
This is to certify that the below mentioned Equipment/Material conform to Purchase Order Specifications, Data sheets, Codes and Standards.																			
Equipment / Material			Quantity																
<table border="0"> <tr> <td>MANUFACTURER / SUPPLIER REPRESENTATIVE (Name)</td> <td>_____</td> <td>TPA REPRESENTATIVE (Name)</td> <td>_____</td> </tr> <tr> <td>Designation</td> <td>_____</td> <td>Signature</td> <td>_____</td> </tr> <tr> <td>Signature</td> <td>_____</td> <td>Date</td> <td>_____</td> </tr> <tr> <td>Date</td> <td>_____</td> <td></td> <td></td> </tr> </table>				MANUFACTURER / SUPPLIER REPRESENTATIVE (Name)	_____	TPA REPRESENTATIVE (Name)	_____	Designation	_____	Signature	_____	Signature	_____	Date	_____	Date	_____		
MANUFACTURER / SUPPLIER REPRESENTATIVE (Name)	_____	TPA REPRESENTATIVE (Name)	_____																
Designation	_____	Signature	_____																
Signature	_____	Date	_____																
Date	_____																		
Comments/Instructions																			

		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	 N.I.O.C. <i>Pars Oil & Gas Company</i>
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Appendix E

TECHNICAL QUERY (TQ)

 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	 N.I.O.C. <i>Pars Oil & Gas Company</i>
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Project Title	South Pars Gas Field Development Project - Phases 11				
TQ Title					
TQ No.	SP11-TQ-.XXXX (MR NO.)-0001	Rev	Project No.		
Customer	ISOICO		Customer Reference		
Attention			Response Required Date		
QUERY DESCRIPTION (to be completed by Originator)					
TQ Description (include any Safety or Environmental impact)					
Affected Disciplines:					
Documents/Drawings Affected					
Recommended Solution					
For this recommended solution, indicate potential impact: ☐ Scope Change ☐ Capital Cost ☐ Schedule ☐ Re-Hazop					
Originator		Signature		Date	
Equipment					
Purchase Order				Date	
CONTRACTOR (ISOICO) Response:					
Signature:			Date:		
TPA Response (If Required):					
Signature:			Date:		
COMPANY (PPL) Response: ☐ Accepted ☐ Rejected ☐ Commented					
Remark:					
Signature:			Date:		

 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	
SP11-10-D-10-4-006-D1	General Specification for Inspection and Testing	Appendix F Class: 2	

Appendix F

NON-CONFORMANCE REPORT (NCR)

 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	 N.I.O.C. <i>Pars Oil & Gas Company</i>
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Project Title	South Pars Gas Field Development Project - Phases 11		
NCR Title			
NCR No.	SP11-NCR-.XXXX (MR NO.)-0001	Rev	Project No.
Customer	ISOICO	Customer Reference	
Equipment			
Purchase Order		Date	
Attention		Response Required Date	
NCR DESCRIPTION (to be completed by SUPPLIER/MANUFACTURER Representative)			
NCR Description (With reference to data sheets, specifications, codes and standards, include any Safety or Environmental impact)			
Corrective Suggestions/Repair procedures			
For this recommended solution, indicate potential impact: ☐ Scope ☐ Cost ☐ Schedule			
Details of Scope Change			
Details of Cost Impact			
Details of Schedule Impact			
Originator		Signature	Date
CUSTOMER REPLY (to be completed by Contractor/TPA/Company Representative)			
Accepted ☐ Rejected ☐			
Response			
CONTRACTOR Rep. Name & Signature		Date	
TPA Rep. Name & Signature		Date	
COMPANY Rep. Name & Signature		Date	
Comments/Instructions			