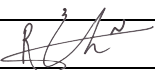
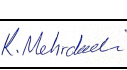


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Specification For Packing, Marking and Shipping

							
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[Appendix H: International Standard Symbols Table](#)

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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

The purpose of this procedure is to define the minimum requirements to be followed by VENDORS for packing, marking and shipping documentation for equipment and material on the PROJECT.

This procedure covers all GOODS to be supplied by VENDORS.

1.3 Key Definitions

Owner	National Iranian Oil Company (NIOC)
	Pars Oil and Gas Company (POGC)

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Company	Petropars Ltd. (PPL)
Contractor	Iran Shipbuilding & Offshore Industries Complex Co. (ISOICO)
ENGINEER	SLT International;
GOODS	means all or part of the articles, materials, equipment, supplies, documents and other things or any of them described in the PURCHASE ORDER to be supplied by VENDOR.
PACKING COMPANY	means any PERSON selected by VENDOR to perform the packing & marking operations.
PROJECT	means South Pars Phase 11 HP mode development project
PURCHASER	means any PERSON designated as such in the PURCHASE ORDER.
VENDOR(S)	means any CONTRACTOR's and/or SUBCONTRACTORS' supplier(s) of CONTRACTOR item(s).

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;
CA	Certifying Authority;
CRS	Comment Response Sheet;
IDC	Inter Discipline Check;
IFA	Issued For Approval;
IFR	Issued For Review;
DC	Document Controller;
EM	Engineering Manager;
EDMS	Engineering Document Management System;
LE	Lead Engineer;
PM	Project Manager;
QA	Quality Assurance;
SOW	Scope Of Work;

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TBA	To Be Advised;
TBC	To Be Confirmed;
WHP	Well Head Platform;
CoG	Center of Gravity;
CPY	COMPANY;
N/A	Not Applicable;
PO	PURCHASE ORDE;
RFP	Release For Packing;

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.

The following codes and standards are applicable:

- [1] ISO 445:2013 Pallets for materials handling – Vocabulary
- [2] ISO 668:2013 Series 1 freight containers – Classification, dimensions and ratings
- [3] ISO 6346:1995 Freight containers – Coding, Identification and Marking
- [4] API-RP-5L1 Recommended Practice for Railroad Transportation of Line Pipe
- [5] API-RP-5LT Recommended Practice for Truck Transportation of Line Pipe

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 documents listed below:

- [6] SP11-10-D-10-4-003 Specification for Preservation and Storage Requirements
- [7] P11-10-D-10-4-002 Specification for Spare Parts Requirements
- [8] SP11-10-D-10-4-004 Minimum Requirements for Vendor Documents

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Specific requirements for packing and marking may be found in the project particular specifications for equipment and material. In case of discrepancy with the present specification, **VENDOR** shall immediately seek clarification from **PURCHASER**.

1.5.4 Company General Specifications

The following Company specifications shall apply:

[9] GS-EP-PLR-406 Packaging and transportation of line pipes

Specific requirements for packing and marking may be found in the Company General Specifications which are listed in the dedicated Project Documents relevant to the **GOODS**. In case of discrepancy with the present specification, **VENDOR** shall immediately seek clarification from **PURCHASER**.

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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

3.1 Purpose

This procedure provides a certain number of general standards which represents the minimum requirements the VENDOR and / or the PACKING COMPANY shall follow for the packing and protection of the GOODS unless otherwise specified in the equipment specification or in the PURCHASE ORDER. It provides also the minimum requirements that the VENDOR shall follow for marking and shipping documentation.

Adherence to these instructions shall in no way absolve or relieve VENDOR of any responsibility or obligation outlined in the PURCHASE ORDER or the equipment specification.

The packing shall be carried out in accordance with the transportation conditions (by sea, road and/or air means), and shall be realized in compliance with the best-established practice for overseas construction jobs and in accordance with the present directives.

The parcels shall be strong enough to support without damage transportation and several handlings. Packing and marking shall take into account the environmental conditions that they will experience during transport and on the field.

The GOODS must be effectively protected against corrosion, and preserved prior to packing. The adequate protection shall be determined by VENDOR according to the type of GOODS and the means of transport actually used, the duration of transport, the storage conditions on Site, and shall comply with the minimum requirements of document ref.[1].

Important:

- Unless otherwise specified, the GOODS shall be properly preserved and protected for a one-year-storage period as a minimum.
- In no case shall material concerning several orders be packed in one single parcel.
- Packing, and segregation thereof for spare parts shall also conform to the requirements of document ref. [2].

Packing of the GOODS for shipment is only authorized when the Release for Packing (RFP) note, associated Punch List(s) (relevant to Engineering Documentation status, manufacturing and testing) and Packing List(s) are issued and accepted by PURCHASER accordingly.

Line pipe is excluded from the scope of this document: marking is addressed in document ref. [8], packing and transportation are addressed in references [9], [4] and [5].

3.2 Finalities

All materials are subject to certain fragility due to physico-chemical and mechanical risks of their own. Therefore, each material shall have its particular protection and packing taking into account:

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- Different transportation they will go through (vibrations, shock, etc...)
- Transshipment, handling and lifting
- Storage for more or less long periods in the open air.

3.3 Lifting Devices

Specified, installed and used lifting devices / equipment shall be marked with the relevant SWL (Safe Working Load), and shall be delivered to PURCHASER complete with certificates of appropriate validity.

The lifting equipment shall be in compliance with all local regulations which can be different depending on the place where they shall be used.

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4. PACKING FOR SEA TRANSPORTATION

The VENDOR shall proceed under its own responsibility and according to the general practice to the sea packing or sea protection of their supply.

This procedure does not cover sea fastening. VENDOR shall however be responsible to comply with the instructions which will be given, after PURCHASE ORDER award, by PURCHASER.

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5. PACKING FOR AIR TRANSPORTATION

Air transport will be exceptional, and will be used only:

- For goods which are highly sensitive to shock or vibrations, such as computers, electronic instruments, or those of small dimensions and weight
- For material urgently required on Site

Packing for air transported goods shall fulfill as a minimum the requirements of this procedure. In addition, the following features shall be taken into account when packing:

- Numerous consecutive handlings by means of motorized equipment (lift trucks, trans-pallets, etc...)
- In order to optimize the existing transport facilities (passenger or cargo aircraft), the dimensions of the parcels must be adaptable to the pallets used.

The height of the parcels shall not exceed 1.60m unless prior approved by PURCHASER

Each part contained in the said package shall be protected to take the above conditions into account so as to allow partial unpacking of cases or packages.

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6. TYPES OF PACKING AND PROTECTION RECOMMENDED ACCORDING TO TYPE OF MATERIAL

6.1 Pallets (according to standard ISO 445:2013 ref. [3]) or equivalent internationally recognized standard)

- Concerned materials

Every material delivered in pallets such as certain products in bags, bricks, etc.

- Protection
 1. Against humidity: plastic coating.
 2. Mechanical:
 - Corners reinforcement through metallic or iron angles
 - Face protection to be insured by bituminous paper or cardboard
 - The whole pallet being fixed by iron strips.

6.2 Bundles (Appendix 1, references A1 and A2)

Constitution of bundles strapped by metallic strips, or dunnage in order to avoid deformation:

- either by strips belting the bundle if it is not too heavy
- or by U bars tied together by threaded rods with nuts and lock nuts
- or by wedges, intermediate or circular wooden pieces to ensure protection against sharp edges and rigidity of the sets, the wedges being tied together by nails, bolts or strips.
- Concerned materials
 - straight pipes of 6 to 13 m long
 - steel bars
 - plain sheets
 - structural steel
 - Structures.
- Protection
 - Against corrosion: to be made in accordance with the particular conditions of the order. Note that pipes for oxygen conveyance must be degreased before delivery.
 - Mechanical:
 - threaded ends shall be protected by threaded ferrules
 - if necessary, ends shall be supplied with metallic plastic or wooden protective ferrules.

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- when handling stainless steel pipes:
- do not use steel slings,
- do not hook up pipes by their ends,
- use leather straps.

6.3 Reels (Appendix 1 - reference A3)

➤ Concerned materials

Materials of abnormal dimensions, heavy weight, not fragile or needing mechanical or physico-chemical protection such as furnace elements, boilers, reactors, columns, spheres, towers, exchangers, tanks, etc...

➤ Protection

- Against corrosion: cleaning and coating are to be made in accordance with the particular conditions of the order. A good protection of orifices and machined parts shall be done by plugging or by applying coating products. Utilization of a corrosion inhibitor will be recommended in certain cases.
- Mechanical: Wooden or metallic cradles with belts made of flat steel bars attached through turnbuckles to the cradles.

NOTE:

In every case, **VENDOR** shall provide lifting devices (rings, fittings or hooks) in definite and easily spotted points for sling lifting.

When belting by flat steel bar or by cradle, it is necessary to place another material avoiding friction such as felt, rubber or plastic in between the material and the belt.

Moreover, if it is not possible to use a crane hook for handling, **VENDOR** shall supply for the transportation duration, the necessary accessories such as lifting beam, slings, ropes, etc...

Frames for shaped steel sheets (Appendix 3)

In order to avoid shaped steel sheets deformation during transportation and handling, they should be laid on top of one another with intermediate shims inside a rigid frame.

Such frame shall have padeyes for easy handling by hooks and slings.

6.4 Crates (Appendix 4)

➤ Concerned materials

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Vessels with external elements not allowing the utilization of cradles or barge transportation such as piping, air coolers, steel structures, footbridges, guard rails, steel plates, etc...

➤ Protection

- Against corrosion:

- to be made in accordance with the particular conditions of the order and in every case:
- Machined parts which shall be wrapped in adhesive plastic Contact surfaces of metallic structural parts which shall be protected by a corrosion resistant material
- Pipe ends which shall be coated with Kraft paper or jute cloth or fitted with ferrules.
- Mechanical (anti-shocks): material shall be steadied either directly on the crate bottom tray or by means of cradles. Another wedging must be made on the cover tray for complete immobilization.

6.5 Full packing cases (Appendix 5 and 6)

➤ Concerned materials

Sets requesting mechanical protection against shocks and eventually physicochemical protection such as machined pieces, small fragile piping, mechanical parts, valves, fittings, bolts, hand tools, insulation material, glass parts.

➤ Protection

- Against corrosion:

- machined parts are to be wrapped with an adhesive plastic coating
- tools, valves, accessories are to be wrapped in paper with corrosive inhibitor
- bolts and nuts shall be greased and wrapped in jute bags according to size.

- Mechanical: wooden case with one face planed, joined edge to edge, with bituminous Kraft paper for internals with an overlapping coating. The cover shall be made of 2 layers of wood bituminous Kraft paper in between the 2 layers.

6.6 Groove and Torque Wooden Package

➤ Concerned Materials

Those requiring physico-chemical protection such as electric material (motors, panels, equipment) electro-mechanical generators, electronics, electro-pumps, control valves, motorized reducing gears.

➤ Protection

- Against corrosion: material shall be placed inside plastic bags with dehydrating products. Machined parts shall be protected by a waterproof plastic film.

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- Mechanical: wooden case with both faces planed and grooved, with waterproof paper for internal coating. The cover shall be made of 2 layers of planed and grooved wood with an overlapping bituminous Kraft paper in between the 2 layers. Mobile pieces inside the equipment shall be tightly fixed to the structures.

6.7 Protective Packing

- Concerned materials
- Fragile materials such as:
 - pressure gauges, vacuum meters, thermometers
 - measuring and control equipment
 - control panels, electronic equipment, laboratory equipment, electric material, glass equipment
 - instrumentation in general such as gauges, transmitters, meters, controllers, etc...
- Protection
- Against corrosion and humidity: plastic bags and dehydrating products. Cases are to be coated internally with bituminous Kraft paper.
- Mechanical: material shall be fixed on shock absorbers or in an internal case placed on shock absorber. Shock absorbers may be springs, wedges, mats, expanded plastics, etc... Mobile pieces and delicate components shall be blocked before packing.

Cases shall be planed, grooved and tongued: cover shall be made of 2 layers of wood with an overlapping bituminous Kraft paper in between the two layers.

6.8 Steel Barrels

- Concerned materials

Chemical products, coal, tar, catalysts, powders, chemical reactives, coils, etc...

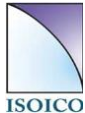
- Protection

Closure sealed in order to avoid any loss or moisture penetration.

6.9 Containers

Containers used for grouping parcels shall be in accordance with standard ISO 668: 2013 - ref. [4].

The use of containers shall be subject to prior agreement from PURCHASER; containerization is a method of shipment, not a packing device, and shall therefore in no way relieve VENDOR from its obligations to adequately pack the GOODS.

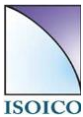
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6.10 Special Containers (Appendix 7)

- Valuable turbine rotors shall be packed in pressurized hermetic sealed

containers filled with low pressure dry air or nitrogen. These containers shall be fitted accordingly with Relative Humidity and/or N2 pressure control indicators.

- Computer hardware and software equipment must be packaged and transported in accordance with manufacture instructions

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7. PACKING CASE FABRICATION

7.1 Quality of Wood

Compact and dry fir wood or any similar wood available in the country shall be used or even phenolic treated Douglas fir wood reinforced by fir boards.

Wood shall have the following essential characteristics:

- dryness: about 20 %
- diameter of vicious or unstable knots will be less than half of the board width
- free of cracks longer than 30 cm
- flaws acceptance on condition they do not include bark and within the following limits :
- length: 1/5 of the length of the wooden piece
- width: 1/2 of the width of the wooden piece
- thickness: 1/4 of the thickness of the wooden piece
- Board thickness and rail thickness shall be in accordance with the case weight and dimensions. It shall be in accordance with the type of material packed and the way it is steadied inside the packing.

In accordance with these parameters, the following parameters are given as guidance:

Gross weight before planing	Board thickness before planing	Rail thickness
up to 500 kgs	18 to 22 mm	18 to 22 mm
from 500 kgs to 2 tons	18 to 22 mm	22 to 27 mm
from 2 tons to 5 tons	22 to 27 mm	27 to 32 mm
from 5 tons to 10 tons	27 mm	27-32 mm or 40 mm
from 10 tons to 15 tons	27 to 32 mm	32 or 40 mm
from 15 tons and over	32 to 40 mm	40 mm

7.2 Case Fabrication

7.2.1 Crates (Appendix 4)

Data to be followed and concerning wood thicknesses and reinforcements are identical to those previously indicated. Crates shall be erected in such a way that empty surfaces will match filled surfaces (Appendix 4, reference D2).

Anyway, material placed inside the cases or crates shall be covered with a polyethylene bag specially treated to be tight against sun and heat and to prevent rain or water jet infiltration.

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7.2.2 Full Packing Cases (Appendix 5)

Boards must be placed side by side or joined by male and female interlocks having a minimum depth of 11 mm especially if sea travelling is forecast through traditional ships where several handlings are expected. Board's width shall not exceed 250 mm or be less than 120 mm.

Up to 500 kg net weight and if the length is limited to 2,50 m and if the contained material allows it, cases may be built without bottom timber beam. Such beams shall be replaced by supporting rails 25 mm thick for the walls and 40 mm thick for the bottom. Distance between rails: one meter along case length.

Supporting rails shall have a minimum width of 80 mm. Bottom boards shall have 30 mm thickness (Appendix 5, reference E1).

Over a net weight of 500 kg, cases shall be provided with longitudinal timber beams at their bottom. Their cross section shall be in accordance with the type of packed material and its weight (Appendix 5, reference E2).

Concerning timber beams and reinforcing bars the following data is used:

- up to a net weight of 1,000 kg, use pieces of 80 x 80 mm cross section
- from 1,000 kg up to 1,500 kg, use pieces of 100 x 100 mm cross section
- from 1,500 kg up to 6,000 kg, use pieces of 120 x 120 mm cross section
- from 6,000 kg up to 9,000 kg, use pieces of 200 x 200 mm cross section
- from 9,000 kg up to 20,000 kg, use pieces of 200 x 200 mm cross section.

Spacing between bars shall be from 800 to 2000 mm. This spacing shall nevertheless be in accordance with the dimensional, qualitative and constructive characteristics of the contained material.

Ends of reinforcing elements shall be beveled at 45° to facilitate lifting slings insertion. Beneath the case, small rails 40 to 50 mm thick shall be placed as spacing pieces to protect the case against the lifting slings.

Position and length of such rails shall be established in accordance with the case length and its center of gravity.

7.2.3 Cases of more than 5 tons (Appendix 6)

For cases for loads weighting more than 5 tons net weight, it is recommended to place iron angles where the lifting slings are to be applied.

The walls and the cover may also be made out of Douglas fir phenolic marine plywood but will have a fir structure of 40 x 120 mm minimum.

Cases shall be always internally coated with bituminous paper of high impermeability capable to withstand strong temperatures variations, whatever be the protection adopted for the contained material.

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7.3 Plywood Utilization

Plywood panels may be used for packing instead of saw wood.

Panel thickness will depend on the cases dimensions and weight and will depend also on the density of the goods, the structure of the case and the way it is steadied.

Plywood quality shall be that one which can withstand humidity. In accordance, the following data is given as guidance:

- gross weight up to 500 kgs: thickness 6 to 8 mm
- from 500 kg to 5 tons: thickness 10 mm
- from 5 tons to 15 tons: thickness 12 mm
- over 15 tons: thickness 15 mm

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8. PACKAGES – SKIDS

A skid consists in a liftable and transportable assembly. Bearing structures will, therefore, be made up of standard rolled sections or box girders.

Structure calculation shall take into account the whole skid design life, especially the very short and stressful periods that constitute shipment.

Skids shall be provided with the necessary slings, lifting beams, shackles, etc... for crane handling.

8.1 Shipping Preparation

Equipment shall be protected as follows:

- Mobile elements shall be immobilized.
- Measuring and control equipment which are too fragile for transportation, shall be dismantled, packed separately, carefully marked and shipped with the module.
- Valves, control valves and other equipment, dismantled for the hydraulic tests and replaced by plugs, shall stay dismantled but will be packed separately, carefully marked and shipped with the skid.
- Tanks and pipes shall be emptied and dried.
- Stainless steel elements shall be mechanically protected and protection shall be in accordance with the steel type.
- All the openings shall be closed and protected against shocks.
- Flanges and screwed fittings shall be mechanically protected and also rustproof protected.
- Equipment such as electric motors, relay panels, MCC shall be heated by their own equipment or by provisional means.
- If the internal equipment requests an inert atmosphere, this atmosphere shall be introduced and maintained in the module or in the compartment of the module where this equipment is housed. Monitoring and control of the inert atmosphere shall be available.
- In the same way, if the equipment inside the module requests air conditioning, this air conditioning shall be maintained through an external source of energy.
- Enough desiccant material shall be placed inside certain equipment such as motors, pumps, valves, etc...

8.2 Slings and Lifting Accessories

As soon as the module reaches a certain weight (over ten (10) tons), it is recommended to fit the module with its slings, shackles, with the pins blocked and eventually with the lifting beam as soon as it leaves the VENDOR workshop.

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This necessitates that the structure and the sea-fastening be designed to this effect.

This arrangement will prove to be most efficient especially when there are several crane handlings.

8.3 Weight Control - Center of Gravity

Major skids installed on the Project are subject to Weight Control along the project development, until weighing is performed at VENDOR shop, prior shipment.

Center of Gravity (CoG) will be determined through calculation but verified through weighing.

In certain cases, the lifting padeyes will be welded only after the practical determination of the center of gravity.

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9. SPECIAL REGULATIONS

9.1 Steadying

All packed material shall be internally steadied in an adequate manner in order to avoid any displacement during transportation.

9.2 Protective Products

When transporting material coated with protective products, VENDOR and/or Company in charge of the packing shall indicate the effective duration of the protective material and give all information pertaining to good transportation of the merchandise.

9.3 Protection Against Humidity

Hot sealed plastic bags, composed of cloth, aluminum and a double layer of polyethylene, shall be used for material such as panels, electric gears, hydraulic gears and similar ones which are much affected by humidity.

Introduction of dehydrating products (as silica gel) will maintain above mentioned material in an atmosphere having less than 35 % relative humidity and relative humidity sight glassed control indicator shall be provided accordingly. Polyethylene bags must not be used.

Polyethylene bags can be used only as open covers to allow free air circulation. These covers shall be special for protection against heat and sun and will serve only to protect material against rain and water jets.

9.4 Fork Pockets

For all parcels which cannot be manually handled, special pockets shall be provided to allow the handling with fork-lift trucks.

9.5 Trimming Points

As far as possible and particularly for parcels uneasy to handle manually, trimming points shall be provided, preferably at the higher angles of the parcels in order to avoid damage to the packings when trimming operations are carried out for transportation.

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10. MARKING

Packages and case shall be marked as defined hereafter. Typical marking is given in Appendix 9.

All marks shall be in English language.

10.1 Type and size of the graphics

- Packages and cases will be marked with indelible paint resistant to weather conditions and to seawater. Markings shall be clear and legible.
- The height of letters and numbers must be 40 mm if the package size allows it. For packages or cases up to 1,50 m³, the height of letters and numbers will be 20 or 30 mm depending on the package size.
- Dimension of cases or packages will be indicated in cm and the weight in kg. No other units shall be used.
- Slings points shall be marked on all sides for packages / equipment weighing more than two (2) tons.

10.2 Package marking location

The marking shall be applied to the two opposite large sides and the top of each package, using weather-proof black marking paint. If the background to be marked is black or dark colour, the marking should be applied in contrasting colour (i.e. white).

For all material / equipment parts which are dispatched unpacked, on skid supports or as bundles, the marking must be applied to each side on an additional metal plate which is strongly attached to the item (if necessary, with fixing straps).

As a general rule marking is to be carried out as follows:

Cases: on two opposite sides and on the top of each case, on the case itself.

Crates: on two opposite side: in an area previously filled for this purpose (no plywood or metal tags) and on the top.

Packages: for apparatus and/or tubes on cradles, for bundles and all unpacked material / equipment, the marking will be affected on two opposite sides of the package itself, or on the metal plates, welded or riveted on two opposite sides for the package.

Cable reels: on the two flanges

10.3 Storage code

The type of storage code to be printed on the two opposite sides of each package is specified as follows:

X: package to be stored outside in open air

XX: package to be stored under cover or open shed

XXX: package to be stored in covered or closed premises

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XXXX: package to be stored in air-conditioned premises

10.4 Package numbering

The package number within the main shipping mark of each package shall be as follows:

Packing list number ... (assigned by VENDOR for a complete shipment - or each partial shipment).

Package Number ../..

Numbering of different packages in the same batch will be as follows: the first number being that of the order in the batch, then, of and then, the last number being the total in the batch for an example for a batch of 5 packages, they will be marked from "1 of 5" to "5 of 5".

10.5 International standard symbols

All packages shall be marked with the appropriate international standard symbols for handling and transport as per standard ISO 780 extracts given in Appendix 8.

10.6 Dangerous substances

Comply strictly with the legislation in force - VENDOR to inform PURCHASER in advance

10.7 Main shipping mark specification

In addition to standard information (net weight, gross weight, dimensions), the following marks have to be stenciled:

- Purchase Order number
- Package number / number of packages
- Purchase item number

10.8 Incorrect marking

It is expressly understood that VENDOR shall be responsible for any and all consequences caused by improper or wrong identification or marking such as incorrect weight, mispositioning of center of gravity, and/or wrong destination or description, etc.

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11. SHIPPING

All shipping documentation is to be provided in English language.

11.1 Sending of documents

All documents should be transmitted to PURCHASER Representative(s) as nominated in the PURCHASE ORDER.

11.2 Advanced shipping documentation

VENDOR shall provide a preliminary packing list (evidencing the number of packages, weights and measurements of each, and storage codes) in the form as per Appendix 10, and no later than the date specified in the VDRS included in the MATERIAL REQUISITION.

In addition to the request here above, for heavy lift equipment only, VENDOR is requested to provide transportation drawings (all documents in three (3) copies each) for heavy or oversized packages exceeding:

- weight: 20 T
- length: 12 m
- width: 2.50 m
- height: 2.40 m

With the following indications:

- three-plane view of material / equipment,
- actual position of all nozzles and protruding parts,
- net and gross weights, overall dimensions,
- position of the center of gravity on the three planes,
- Slings points on material / equipment or packages in all planes.
- For very heavy packages only: support dimensions and positions shall also be indicated for unpacked equipment as well as a calculation sheet for supports may be required

11.3 Final shipping documentation

No less than four (4) weeks prior to the expected date of availability of the GOODS (Ex-Works, ready for shipment), VENDOR shall ensure that the following documentation is made available to PURCHASER:

11.3.1 Final Packing List

The packing list issued by the VENDOR must be filled in on the attached form (as per Appendix 10), and will show the summary of the content of each package.

Alternatively, VENDOR's form could be used if approved by PURCHASER.

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Two (2) copies of packing list in waterproof plastic envelope shall be nailed under a galvanized steel cover on the outer surface of package number “1 of X”.

One original + four (4) copies shall be mailed to PURCHASER.

11.3.2 Packing Note

The packing note one (1) per package issued by VENDOR must imperatively filled in on the attached form (as per Appendix 11), and will show the exact detailed content of the package. Alternatively, VENDOR's form could be used if approved by PURCHASER.

Two (2) copies of related packing note shall be placed in a waterproof plastic envelope inside each package.

One original + four (4) copies shall be mailed to PURCHASER.

11.3.3 Certificate of origin

One (1) original + two (2) stamped copies stating the country of origin of material / equipment duly signed and legalized by the Authorities.

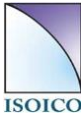
11.3.4 Shipping invoice

Shipping invoice: 1 original + three (3) copies of shipping invoice evidencing:

- PURCHASER's name and address
- PROJECT Name
- Purchase Order number
- P.O.'s item number and Project Tag Number.
- VENDOR name and address.
- Quantities of shipping material / equipment with the currency of the Purchase Order (per each partial shipment).
- Material / equipment commercial description as per Purchase Order (per each partial shipment).
- Weights (net and gross in Kg) and measurements.
- Place and terms of delivery.
- Unit and total values (Ex works).
- Customs tariff number(s) and country of origin of material / equipment.
- Vendor's authorized signature.

11.3.5 Hazardous cargoes / trucks and others

Hazardous cargo certificate (when applicable only) : two (2) copies of such certificate duly filled on the proper form (IMCO and/or RID/ADR) shall be mailed to PURCHASER.

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All hazardous cargoes shall be identified by the appropriate hazard class and technical or proper shipping name.

11.3.6 Other shipping documents

Additional documents may be required to transport the equipment / material (transport attestation, attestation for specific goods etc.).

These shall be prepared by the VENDOR and made available to PURCHASER, in compliance with the laws of the country of departure and/or of destination, or any requirement communicated after PURCHASE ORDER award by PURCHASER.

In particular, VENDOR shall provide all certificates necessary for importation and use of the GOODS in Iran taking into account all relevant Iranian regulations.

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12. GUARANTEE

Mechanical guarantee against workmanship and defective material shall be provided for 18 months from date of operation or 36 months from date of delivery (whichever is earlier) or as specified in Purchase Order.

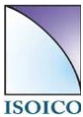
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Appendices

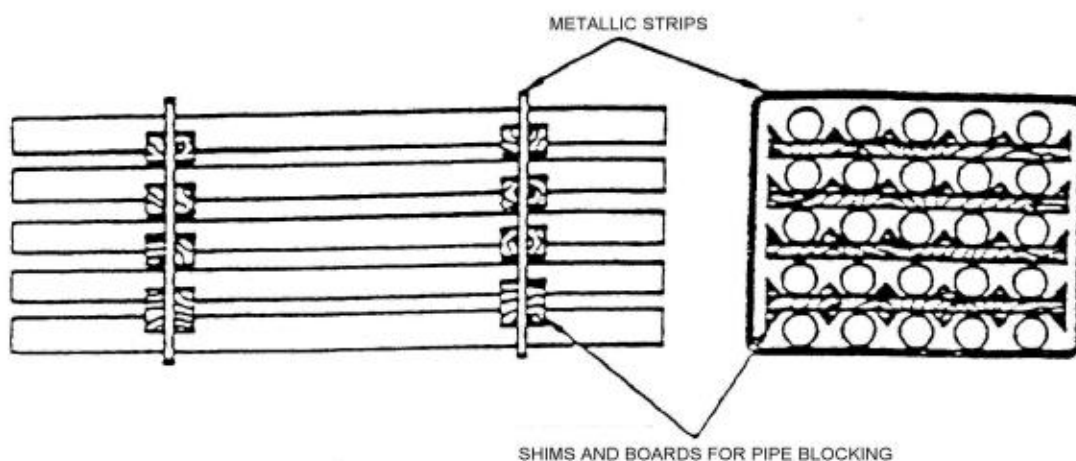
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Appendix A

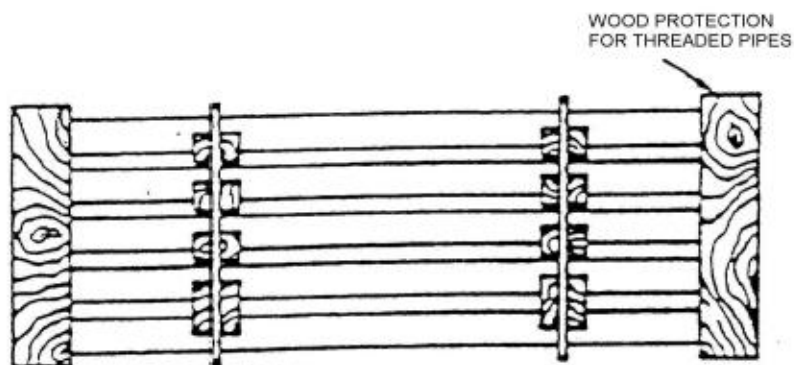
Pipes and Reels

 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	
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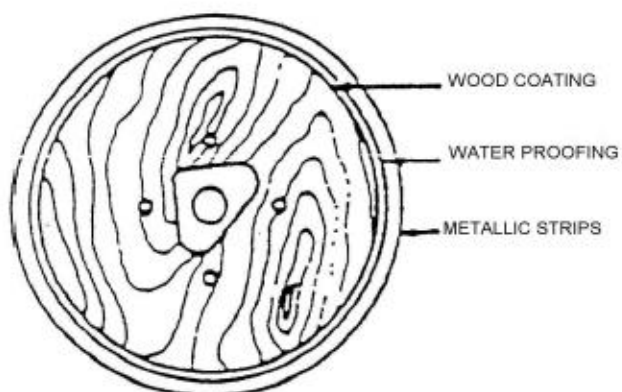
APPENDIX A : PIPES AND REELS



Reference A 1 - PIPE FIXATION



Reference A 2 - THREADED PIPE FIXATION



Reference A 3 - REEL

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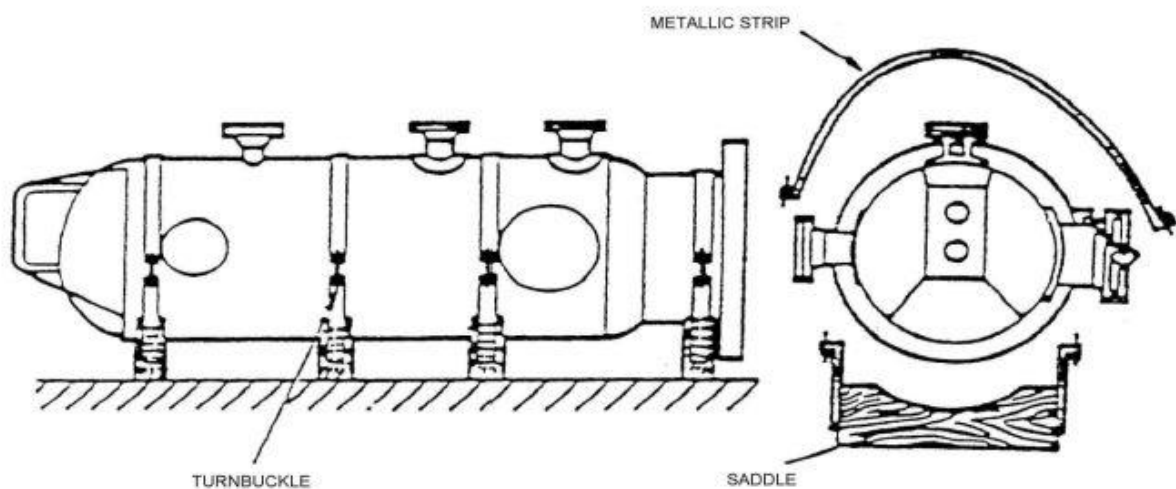
Appendix B

Cradles for Cylindrical Equipment

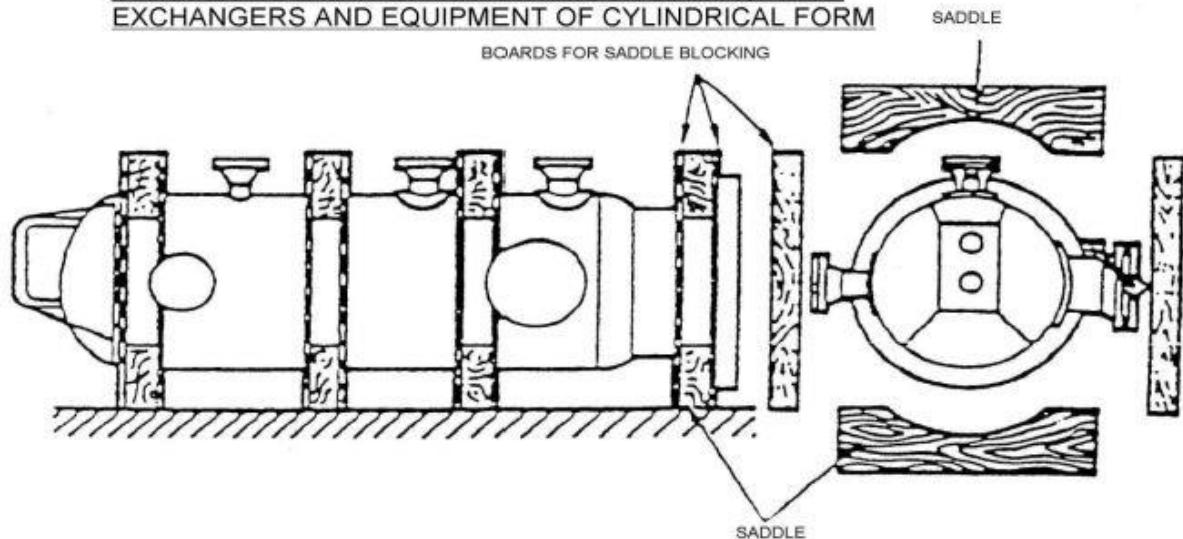
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APPENDIX B : CRADLES FOR CYLINDRICAL EQUIPMENT

Reference B1 -CRADLE FOR TANKS COLUMNS AND HEAT EXCHANGERS



Reference B2 - CRADLE FOR TANKS, COLUMNS, HEAT EXCHANGERS AND EQUIPMENT OF CYLINDRICAL FORM



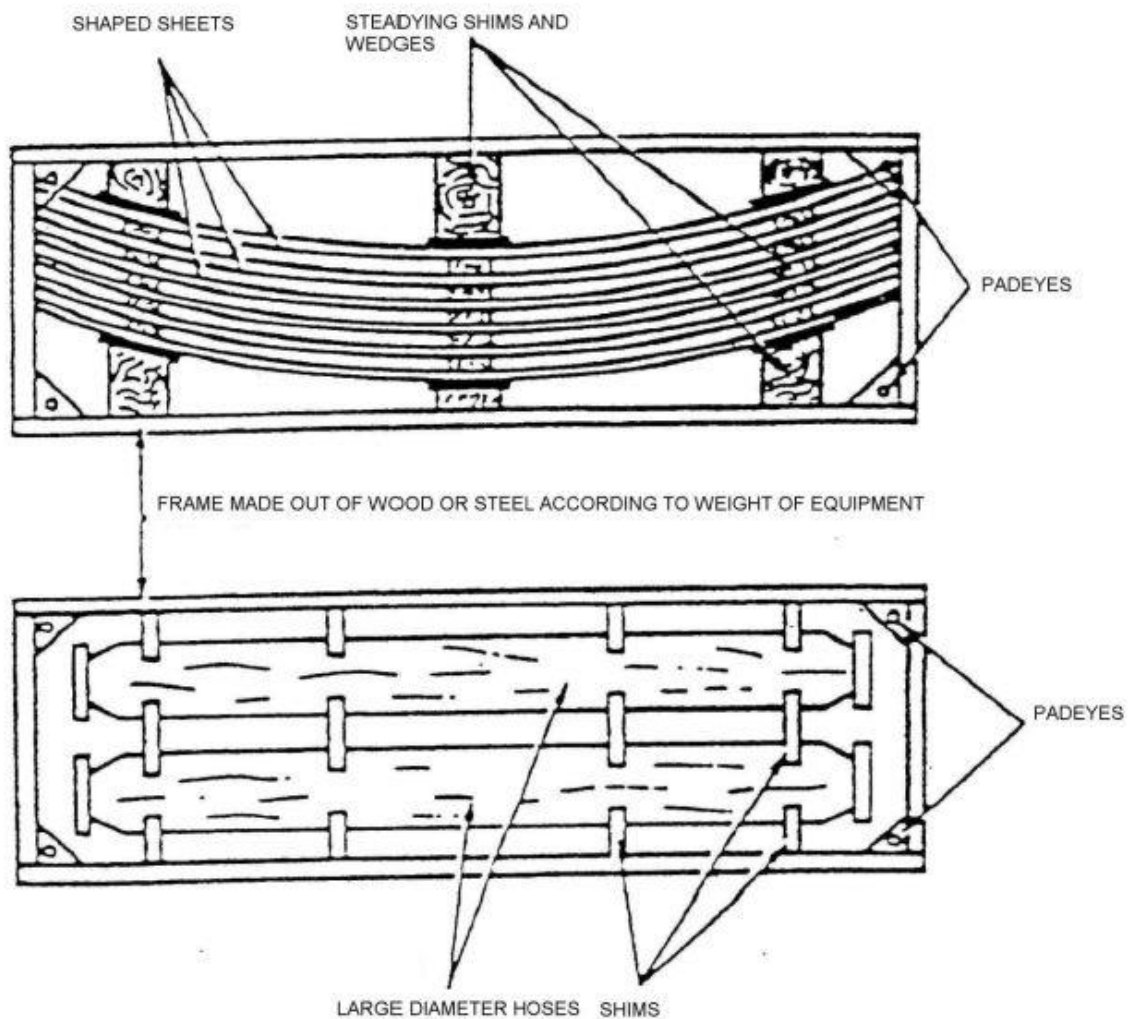
		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11	
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Appendix C

Frames

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APPENDIX C : FRAMES



IMPORTANT NOTE /

- Specify on the frame, with indelible paint, if handling shall be :
- through slings and spears
 - by fork lift truck. In that case specify the fork position.

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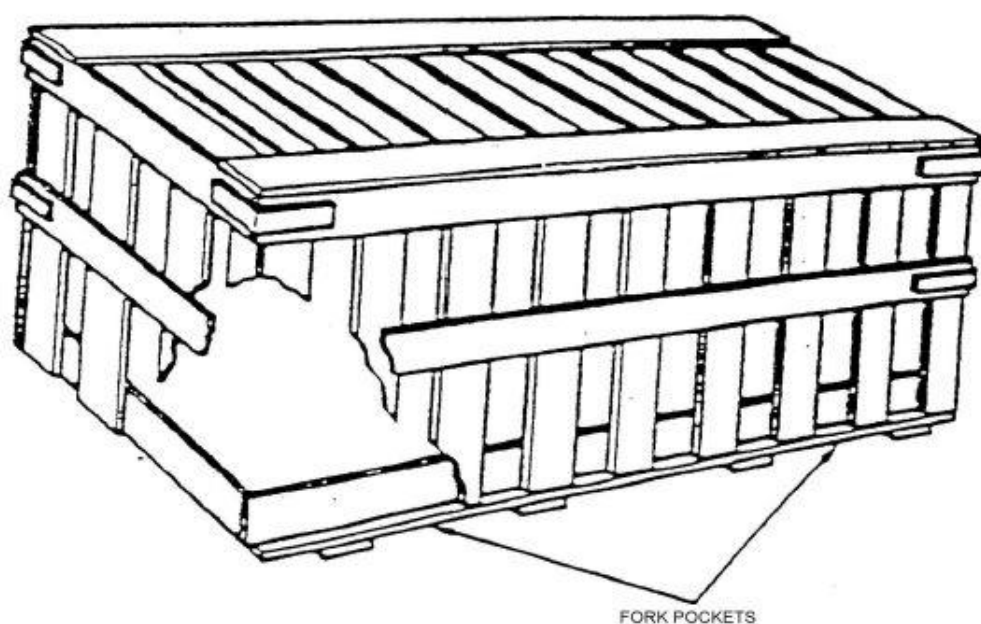
Appendix D

Crates

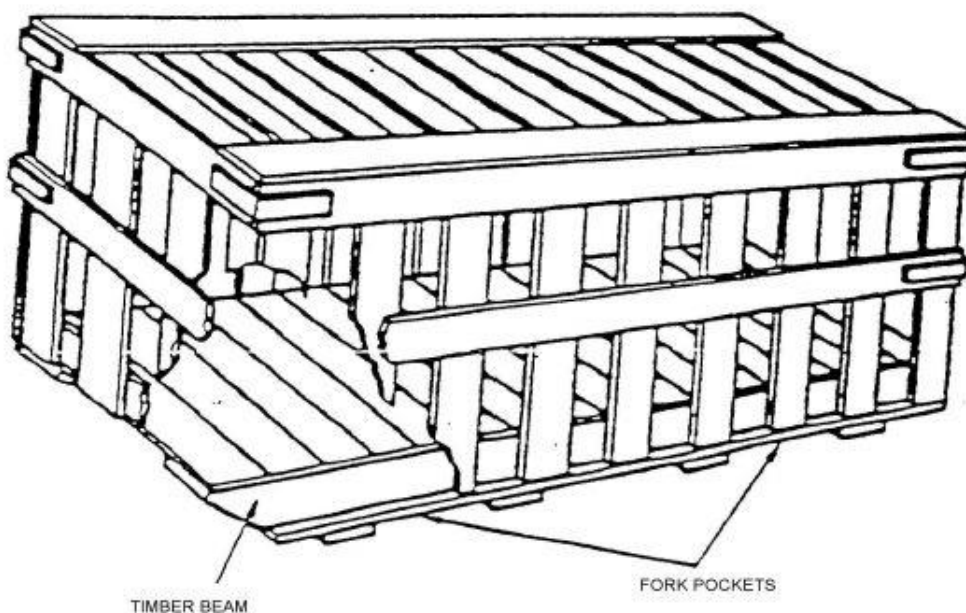
		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)		
				
SP11-10-D-10-4-001-D1	Specification For Packing, Marking and Shipping			Appendix D
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APPENDIX D : CRATES

Reference D1 - UP TO 500 KG (WITHOUT TIMBER BEAM AT THE BOTTOM)



Reference D2 - OVER 500 KG (WITHOUT TIMBER BEAM AT THE BOTTOM)



		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)		
				
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				Class: 2

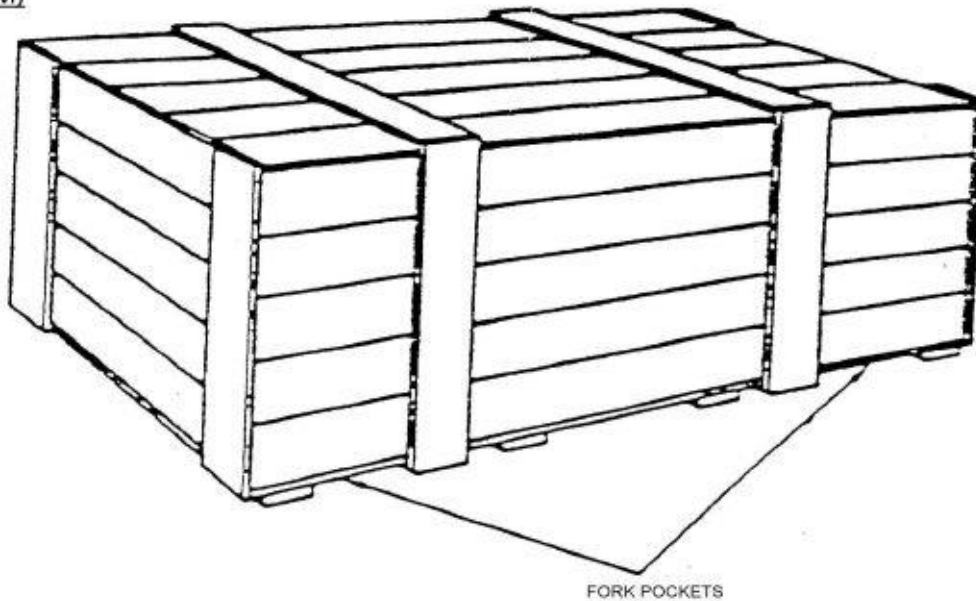
Appendix E

Full Packing Cases

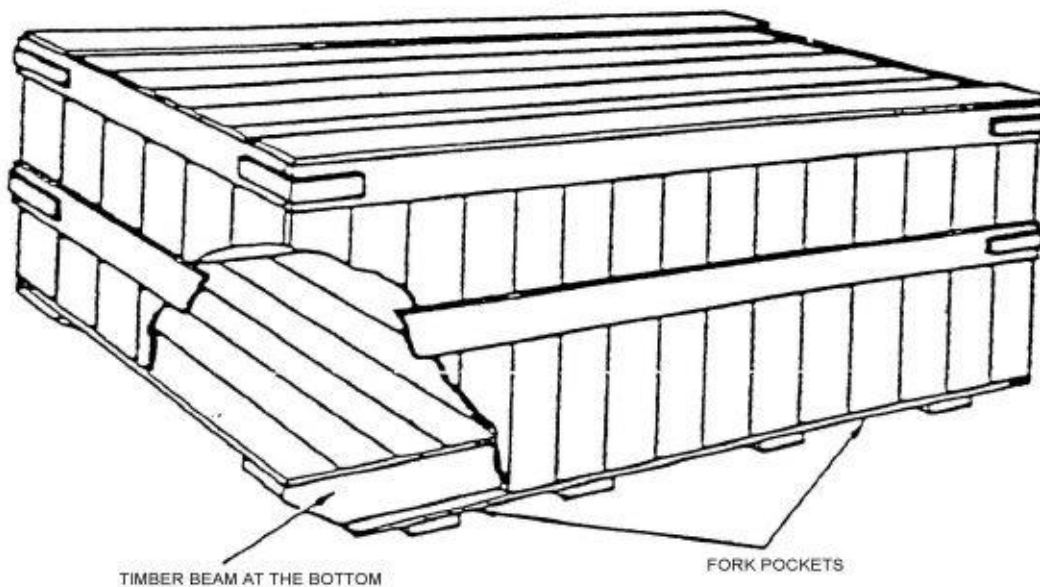
 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	 N.I.O.C. <i>Pars Oil & Gas Company</i>
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APPENDIX E : FULL PACKING CASES

Reference E1 - CASE FOR LOADS UP TO 500 KG (WITHOUT TIMBER BEAM AT THE BOTTOM)



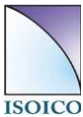
Reference E2 - CASE FOR LOADS OVER 500 KG (WITH TIMBER BEAM AT THE BOTTOM)



		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11	
		EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	
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		Class: 2	

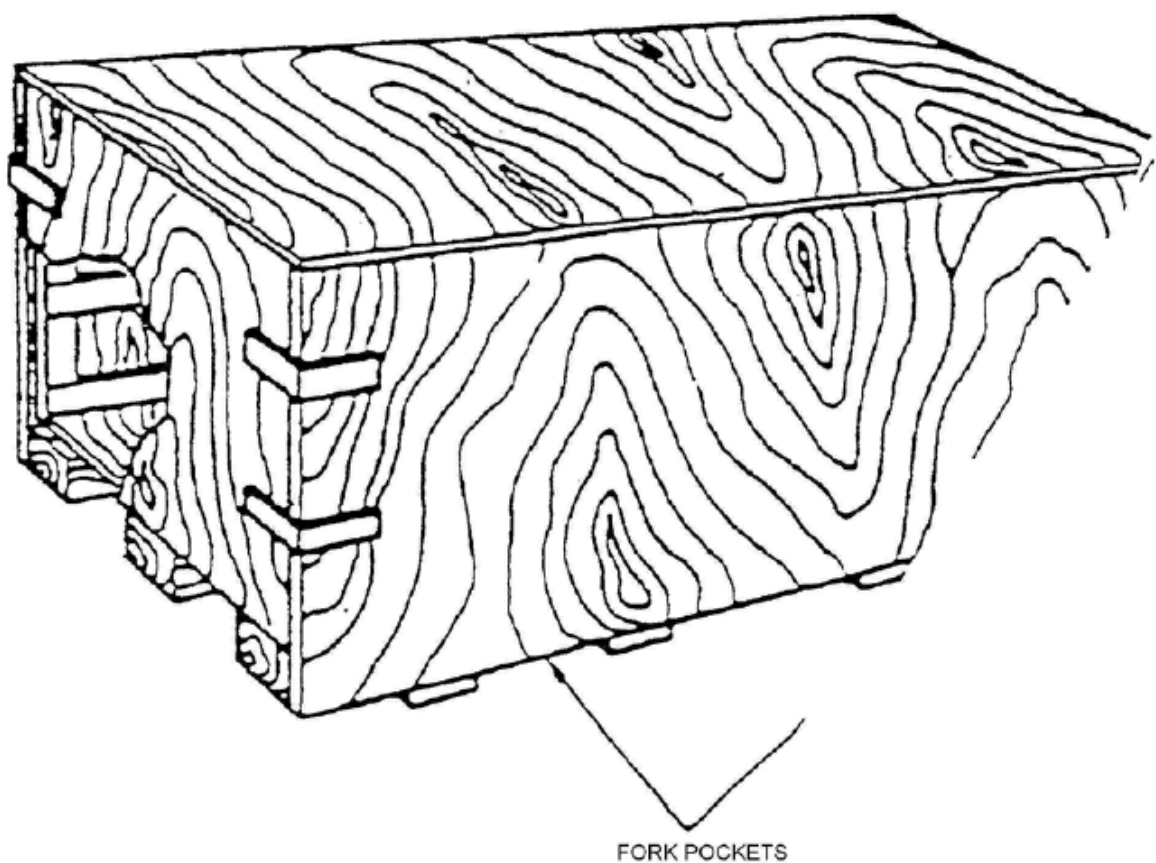
Appendix E

Cases for Loads Over 5 Tons

 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	
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APPENDIX F : CASES FOR LOADS OVER 5 TONS

GROOVE AND TORQUE WOODEN CASE ONLY OR PLYWOOD CASE



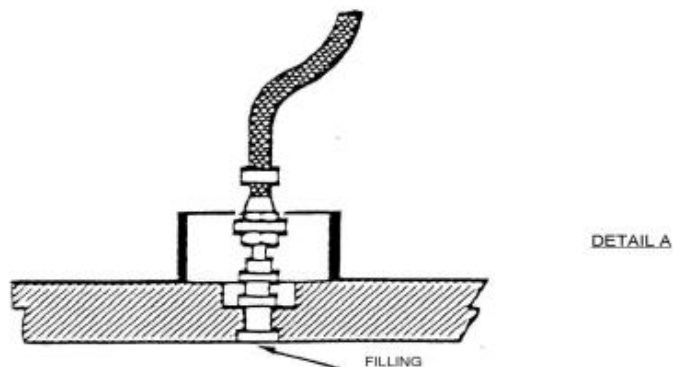
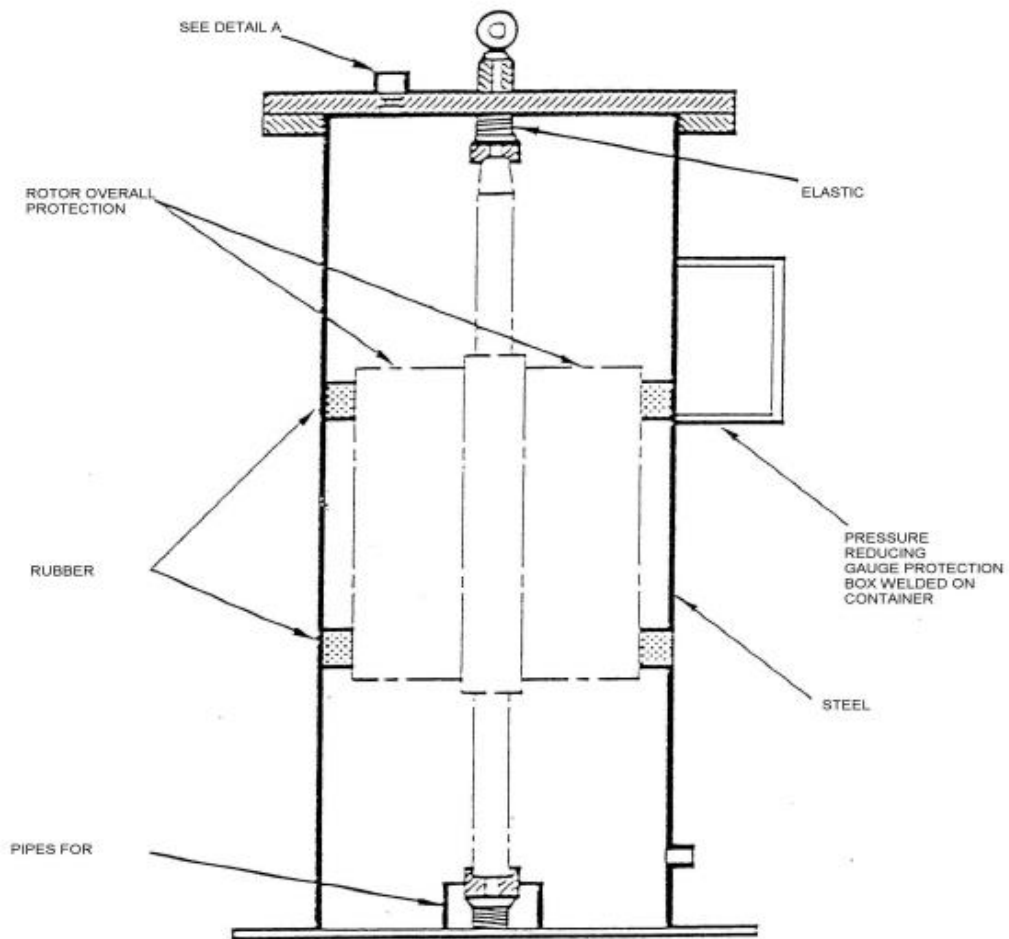
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Appendix G

Container with Inert Atmosphere

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APPENDIX G : CONTAINER WITH INERT ATMOSPHERE



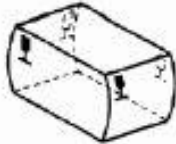
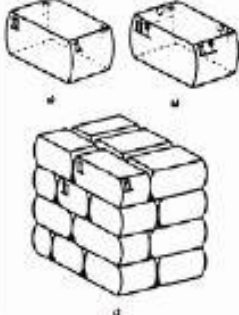
 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	
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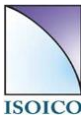
Appendix [H](#)

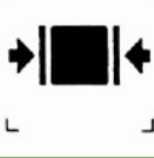
International Standard Symbols Table

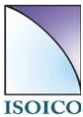
 		SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	
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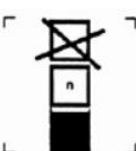
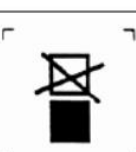
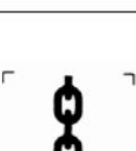
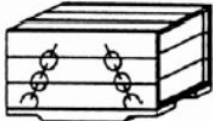
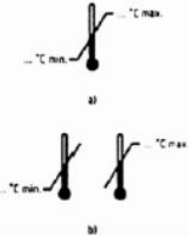
APPENDIX H : INTERNATIONAL STANDARD SYMBOLS TABLE

No.	Instruction / Information	Symbol	Meaning	Reference/Remarks
1	FRAGILE		Contents of the transport package are fragile therefore it shall be handled with care.	ISO 7000, No. 0 621 Example of application: 
2	USE NO HAND HOOKS		Hooks are prohibited for handling the transport package.	ISO 7000, Nr 0 222
3	THIS WAY UP		Indicates correct upright position of the transport package.	ISO 7000, No. 0 623 Example of application: 
4	KEEP AWAY FROM SUNLIGHT		Transport package shall not be exposed to sunlight.	ISO 7000, No. 0 624
5	PROTECT FROM RADIOACTIVE SOURCES		Contents of the package may deteriorate or may be rendered totally unusable by penetrating radiation.	ISO 7000, No. 2 401

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No.	Instruction / Information	Symbol	Meaning	Reference/Remarks
6	KEEP AWAY FROM RAIN		Transport package shall be kept away from rain	ISO 7000, No. 0 626
7	CENTRE OF GRAVITY		Indicates the centre of gravity of the transport package which will be handled as a single unit.	See 2.4.1 and 2.4.3 ISO 7000, No. 0 627 Example of application: 
8	DO NOT ROLL		Transport package shall not be rolled.	ISO 7000, No. 2 405
9	DO NOT USE HAND TRUCK HERE		Hand trucks shall not be placed on this side when handling the transport package.	ISO 7000, No. 0 629
10	USE NO FORKS		Transport package should not be handled by forklift trucks.	ISO 7000, No. 2 406
11	CLAMP AS INDICATED		Clamps shall be placed on the sides indicated for handling the transport package.	See 2.4.1 ISO 7000, No. 0 631

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Nr.	Instruction / Information	Symbol	Meaning	Reference/Remarks
12	DO NOT CLAMP AS INDICATED		Transport package should not be handled by the clamps on the sides indicated.	ISO 7000, No. 2 404
13	STACKING LIMIT BY MASS		Indicates the maximum stacking load permitted on the transport package.	ISO 7000, No. 0 630
14	STACKING LIMIT BY NUMBER		Maximum number of identical packages which may be stacked on one another, where "n" is the limiting number	See 2.4.4 ISO 7000, No. 2 403
15	DO NOT STACK		Stacking of the transport package is not allowed and no load should be placed on the transport package.	ISO 7000, No. 2 402
16	SLING HERE		Slings shall be placed where indicated for lifting the transport package.	See 2.4.1 und 2.4.3 ISO 7000, No. 0 625 Example of application: 
17	TEMPERATURE LIMITS		Indicates temperature limits within which the transport package shall be stored and handled.	ISO 7000, No. 0 632 Example of application: 

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Appendix I

Marking

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Appendix J

Packing List

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Appendix K

Packing Note

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APPENDIX K: PACKING NOTE

PACKING NOTE

DATE:
VENDOR:
PACKING LIST N°:

						PAGE /
CONTRACT:		PACKAGE N°:				
CLIENT:		EQUIPMENT				
PO N°:						
Net weight, Kg	Gross weight, Kg	Length, Cm	Width, Cm	Height, Cm	Volume, m3	

ITEM N° of PO	DETAILED DESCRIPTION OF THE PACKAGE CONTENT	QUANTITY

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Appendix L

Storage Code

		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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				Class: 2

APPENDIX L: STORAGE CODES

	STORAGE IN AIR CONDITIONED PREMISES	STORAGE IN COVERED OR ENCLOSED PREMISES	STORAGE UNDER COVER OR OPEN SHED	STORAGE OUTDOOR WITHOUT COVERS
STORAGE CODES	xxx	xxx	xx	x
STRUCTURAL STEEL				
Beams, Tubulars, Grating				X
Bolting		X		
EQUIPMENT				
Vessels, S&T Heat Exchangers			X	
Pumps		X		
Internals		X		
Bolting and special small items		X		
Mechanical parts		X		
PIPING				
Flanges and Fittings ≤ 10"		X		
Valves ≤ 6"		X		
Pipes and remaining Valves, Fittings & Flanges			X	
Gaskets and Bolting		X		
INSTRUMENTATION & TELECOMS				
Control Room Panels, Racks, Cabinets and associated Instruments	X			
Cable Trays and supports			X	
All other items	X			
ELECTRICAL				
Electrical Motors		X		
Panel Boards, Racks, Cabinets and associated Electrical equipment	X			
Cable Reels, Cable Trays and supports			X	