

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 Pars Oil & Gas Company
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0 Class:3

NATIONAL IRANIAN OIL COMPANY
SOUTH PARS GAS FIELD DEVELOPMENT
PHASE 14



TOMBAK-ONSHORE FACILITIES
DETAIL DESIGN

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DOCUMENT NUMBER : DB-14-999-7600-0407-I
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	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

TABULATION OF REVISED PAGES

Page	D0	D1	D2	D3	D4	Page	D0	D1	D2	D3	D4
1.	X					36.	X				
2.	X					37.	X				
3.	X					38.	X				
4.	X					39.	X				
5.	X					40.	X				
6.	X					41.	X				
7.	X					42.	X				
8.	X					43.	X				
9.	X					44.	X				
10.	X										
11.	X										
12.	X										
13.	X										
14.	X										
15.	X										
16.	X										
17.	X										
18.	X										
19.	X										
20.	X										
21.	X										
22.	X										
23.	X										
24.	X										
25.	X										
26.	X										
27.	X										
28.	X										
29.	X										
30.	X										
31.	X										
32.	X										
33.	X										
34.	X										
35.	X										

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

TABLE OF CONTENTS

1. PURPOSE
2. TERMS AND DEFINITIONS
3. SCOPE
4. GENERAL
5. RESPONSIBILITIES AND WARRANTIES
6. PREPARATION FOR PACKING
7. HEAVY LIFT OUT OF GAUGE EQUIPMENT
8. CONTAINERIZATION
9. MARKING INSTRUCTIONS AND STORAGE CODE
10. PACKING LIST
11. PACKING INSPECTION - PACKING PERFORMANCE
12. SHIPPING INSTRUCTION

ATTACHMENT NO.1

PURCHASER'S Logistics Organization

NO.2 Freight Forwarder's Organization

NO.3 Notice of Vendor's Responsible Personnel for Transportation

NO.4 Safety Data Sheet

NO.5 Preliminary Shipping Information for Space Booking

NO.6 Commercial Invoice

NO.7 Certificate of Origin

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0 Class:3

ANNEX	I	MAIN SHIPPING MARK
ANNEX	II	EQUIPMENT STORAGE CODE
ANNEX	III	MARKING SPECIFICATION
ANNEX	IV	PACKING LIST
ANNEX	V	PACKING FOR PIPING MATERIAL
ANNEX	VI	PACKING FOR STRUCTURAL STEEL
ANNEX	VII	PACKING STYLE CRITERIA
ANNEX	VIII	(NOT USED)
ANNEX	IX	EUROPEAN INDUSTRIAL PACKING SPECIFICATION (SEI) - 1999

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

1. PURPOSE

This document applies for using as an instruction for PACKING, MARKING AND SHIPPING in accordance with CONTRACT, POGC-801-84-240.

2. TERMS AND DEFINITIONS

- Supplier: The Company to whom a purchase order or contract has been placed by the contractor.
- Contractor: I.P.M.I

3. SCOPE

The supplier shall prepare pack and mark all supplies in accordance with the present INSTRUCTION for PACKING, MARKING AND SHIPPING.

4. GENERAL

- 4.1 Packing means to efficiently and effectively protect goods, in supplier's time schedule, for a period up to 18 months starting from site delivery. Packing shall be sufficient to withstand, without irritation, rough handling during loading/unloading, sea and/or inland transport, bad handling during transit, and storage depending on their type. Supplies are to be protected against both mechanical damage(shocks, rupture, breakage, loss or pilfering) and corrosion(rain, salty atmosphere, etc.,)
- 4.2 Equipment and materials must be export packed as per European Industrial Packaging Specification such as SEI 1999 EDITION. Categories of packing are defined in the last 1999 Edition of SEI.
- 4.3 Packing procedure and packing list shall be submitted to contractor for approval, and have to get approval prior to commencing the packing work and notifying the packing inspection application.
- 4.4 Packing list, packing note and marking of the packages shall be in English.

5. RESPONSIBILITIES AND WARRANTIES

- 5.1 Supplier shall be responsible for compliance with these instructions and the choice of category for packing, according to the nature of the supplies and transport facilities used.
- 5.2 Company and Contractor reserves the right to inspect the packing at any time, and to reject it when it does not meet packing requirements.
- 5.3 Supplier shall be responsible for the accuracy of the weights and dimensions declared, and marking of packages. The packing list shall be in strict conformity with the packing content.
- 5.4 All costs incurred in connection with missing or damaged supplies caused by non-compliance with these instructions shall be charged to the supplier.
- 5.5 After notification by contractor, supplier shall take immediate action for the replacements of such missing or damaged supplies within an acceptable time schedule, at supplier's own cost.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

- 5.6 Supplier shall be responsible for recommendations for storage of the supplies for 12 months according to site conditions. Any damage incurred due to faulty or missing recommendations shall be borne by the supplier.
- 5.7 Supplier shall be responsible for any loss or damage caused through wrong marking.

6. PREPARATION FOR PACKING

Prior to packing, equipment shall be protected under supplier's responsibility as hereunder described and not limited to:

6.1 GENERAL

- 6.1.1 The goods shall be dried, cleaned internally and externally, removed from all welded spatter, scale, rust, cuttings, fittings, etc., as well as any all foreign material.
- 6.1.2 Protection against environmental corrosion caused by extremes of humidity, condensation, rain, dust, sand, salted air and sea spray shall be provided.
- 6.1.3 Critical wearing surfaces, highly stressed parts, and highly finished surfaces shall be further cleaned by dipping or brushing with a suitable product
- 6.1.4 The goods being delivered by partial unit or partially dismantled shall be furnished with suitable markings required for assembly and installation at the Site.
- 6.1.5 Unless otherwise specified, after hydrotesting, operation, and/or performance test, all fluids, i.e., lubricating oil, fuel oil water, etc, shall be completely drained from all tanks, vessels, jacketing, piping, etc, and wiped or blown dry.
- 6.1.6 When the packing is carried out in boxes and/or crates, the metal or plastic corners at the slinging points shall be used.
- 6.1.7 The piping material will be packed as per Annex V.
- 6.1.8 Specific points due to the requirements of the destination, nature of the goods, terms of the contract etc., will be specified separately.
- 6.1.9 If the order stipulates that the shell is to be treated with anti-corrosive and/or painted, the equipment must be handled with particular care. If the order stipulates that the high alloy steel is to be treated with acid cleaning, the equipment must be protected by Vinyl wrapping after cleaning.
- 6.1.10 Protection against environmental corrosion caused by extremes of humidity, condensation, rain, dust, sand, salted air and sea spray shall be provided for a transport and storage time of 12 months.
- Machined surface, unpainted carbon steel parts (For example valve), bolts and nuts, etc. shall be coated with heavy grease or other acceptable rust preventatives. Those shall maintain a protective coating for minimum eighteen (18) months so long as the coating is not burned, dissolved or mechanically rubbed off.
- 6.1.11 The structural steel will be packed as per ANNEX VI.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

6.1.12 Batteries shall be shipped dry with electrolyte packed separately and shall include charging instruction.

6.2 SMALL PARTS, TOOLS AND SPARES PARTS

6.2.1 Small loose parts

Small loose parts shall be tagged and packed in a separate, sturdy wooden box. Any such box shall be shipped with main equipment, being securely attached to the main skid or within the main box and marked as "Small Loose Parts". Secure attachment consists of steel strapping or bolting. Tying or wiring are prohibited.

6.2.2 Special tools

Tools shall be packed in an individual, rugged wooden box and marked as "special tools".

6.2.3 Spare parts for commissioning, start-up and for 2 years operation.

Each category of spare parts shall respectively be packed in an individual rugged wooden box, packed separately and marked:

- commissioning, start-up (COMMISSIONING SPARES)
- two years maintenance (OPERATING SPARES)

7. HEAVY LIFT OUT OF GAUGE EQUIPMENT

7.1 DIMENSIONS AND WEIGHT

Equipment which characteristics exceed of the following criteria shall be classified as OUT OF GAUGE or HEAVY LIFT, :

Length	:	12	m
Width	:	2.5	m
Height	:	2.5	m
Weight	:	20	MT

7.2 INTERNAL SUPPORT

For large size of equipment, such as, columns, reactors, pressure vessels, stack/chimney etc., supplier shall provide internal supports to prevent deformation.

7.3 LOAD DISTRIBUTION

As far as transport drawings issued by supplier are confirmed, supplier shall control the adequacy of the supports and/or saddles and ensure that load distribution now fixed at 10 tonnes/m² (to be confirmed in due time), is in compliance with contractor's nominated Freight Forwarder Requirements with respect to road, rail and sea transportation and unloading port requirements.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.: D0 Class: 3

In case supplier has the responsibility to deliver on a CPT site basis, supplier shall take into consideration, prior to saddle fabrication the maximum load distribution allowed with respect to local means of transportation and handling and port requirements.

In case of CFR nominated port delivery term basis, supplier shall liaise with contractor's nominated Freight Forwarder with respect to local load distributions tolerance prior to saddle fabrication.

7.4 PREPARATION OF SEA FASTENING OPERATIONS

For any contractual delivery terms stated on the purchase order (EX WORKS, FOB, FCA etc.), the supplier shall carry out the preparation of sea fastening according to the instructions which will be given by the shipping company through contractor's forwarder and the following.

The unpacked equipment shall be prepared for sea fastening operations and be equipped as follows:

- a. Lifting lugs to be calculated, defined and shown on the transport drawing. They will be used for any handling operations onto trucks for road transportation and onto vessels for sea transportation and onto wagon for rail transportation; wireguard included.
- b. Lashing points shall be calculated in order to support all forces crosswise, lengthwise, and so on. They will be clearly marked on the equipment and transport drawings.
- c. When the specificity of equipment requires utilization of special tools, such as lifting beams, slings, etc., for handling operations, the supplier SHALL PREPARE A LIST OF SPECIAL TOOLS WHICH WILL BE PROPOSED FOR contractor's approval and imperatively included in the purchase order.

The supplier shall be responsible for the non-observance of the above.

8. CONTAINERIZATION (OR OFFSHORE SUPPLY)

Instrument and sophisticated electrical Panels shall be stuffed in dry container in order to protect from damage. When packing cargo is made by wooden box or crate, Vendor shall try to make a package less than following dimensions for container carriage.

20FT container: 550 x 220 x 205cm (L x W x H)

40FT container: 1150 x 220 x 205cm (L x W x H)

At supplier's cost, the supplier or their packer shall carry out the stuffing operation of goods into container when required.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

9. MARKING INSTRUCTION AND STORAGE CODE

Markings for each package shall be in accordance pattern in ANNEX I.

9.1 TYPE AND SIZE OF GRAPHICS

Packages and case will be marked with indelible black paint resistant to sea water.

Marking must be perfectly legible with the contrasting colour.

Marking Specification for Boxes, Crates and Shrink - Wrapped Packages as per indication ANNEX III

Ex.: If the background to be marked is "black" or "dark colour", the marking should be "White".

Stencil on two opposite sides and the top of each package in clear characters at least 40 mm high (where case size permits, otherwise use optimum size for each package dimension).

N.B. : Metal tags or labels must be stamped or indelibly marked with full shipping marks and must be securely attached, welded or riveted to all loose, bundles or uncrated items.

Cable drums: On the two flanges

Dimension of case or packages will be indicated in cm and the weight in kg. No other units shall be used.

9.2 STORAGE CODE

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

- X** -► Crates or Packages to be stored outside
- XX** -► Crates or Packages to be stored under cover / or open shed
- XXX** -► Crates or Packages to be stored in covered or closed premises
- XXXX** -► Crates or Packages to be stored in air conditioned closed premises

Refer to Equipment Storage code in ANNEX II

9.3 PACKING NUMBER

In principle, the package number within the main shipping mark of each package shall be as follows:

Project _____ ^{XXX}

Identification

Abbreviated Vendor's name _____ ^{XXX}

(Single abbreviation only is allowed)

Serial number for package _____ ^{001 of xxx}

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0	Class: 3

Abbreviated Vendor's name shall be used after confirmation from contractor.

The first number is being that of the order in the batch, then after oblique, the last number being the total in the batch. For example, for a batch of 100 packages:

First package no. : 001 of 100 & Last package no. : 100 of 100.

Boxes to be included inside a package shall be numbered with a sub number on the surface of box.

For example, if the package number of the outside box is xxx-(xxx)-001 of 010, the inside box number shall be xxx-(xxx)-001 of 010-1 and up.

9.4 INTERNATIONAL STANDARDS SYMBOLS

9.4.1 For handling

All boxes and crates shall also be marked with appropriate international standard symbols for handling as shown in the French Industrial Packaging Specification SEI 1999 EDITION.

All boxes and crates are to be marked clearly on all low sides:

"HANDLE WITH CARE" and "RIGHT SIDE UP"

In addition, each box shall be marked "KEEP DRY" on all four sides.

In the case of packages with a single gross weight totalling 2,000kgs and/or height of more than 1 m, the centre of gravity shall be clearly marked with the symbol on two adjoining sides.

For all items of equipment with an eccentric centre of gravity, this symbol shall be marked at the bottom, side and top of the package.

The slinging points shall be marked with a chain symbol.

9.4.2 For dangerous goods

Packages containing goods as per statutory regulations on the packing and transport of dangerous goods are to be marked on all sides with appropriate labels in conformity with IMDG / ADR / RID / IATA regulations.

N.B.: INCORRECT MARKING:

It is expressly understood that the supplier shall be responsible for all expenses caused by improper or wrong marking contents.

10. PACKING LIST

10.1 The packing list will be prepared on contractor's standard forms and will show the summary of the content of each package.

10.2 NUMBERING OF PACKING LIST

- Only one packing list number shall be provided by contractor's expediting for each definite batch of goods.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0	Class:3

- This P.L.N. (Packing List Number) will be marked on the packages and on the shipping documentation and used as unique number to facilitate the tracking.
- The same number will be shown on the release for packing list issued by contractor's expediting when the batch is technically accepted.

10.3 Two (2) copies of the packing list in waterproof plastic envelope must be securely nailed under a steel sheet on the outer surface of the first package of the batch with the associated detailed item list corresponding to the package, as per indication in ANNEX IV.

10.4 The description of detailed item list of the packing list must correspond exactly to the detailed contents of the package.

The expression "accessories for" or "batch of nuts and bolts" for example, are formally forbidden.

10.5 Two (2) copies of the detailed item list shall be placed in waterproof plastic envelope inside of each package. Another copy in a waterproof plastic envelope shall be placed outside of the package under a steel sheet.

10.6 Above mentioned shipping documentation shall be in English.

11. PACKING INSPECTION - PACKING PERFORMANCE

11.1 The packing inspection will be confirmed by contractor in due time. It shall take place at supplier's designated premises, as per the following procedure:

- Packing styles shall be according to ANNEX VII
- Cases and/or crates shall be left open
- Shrink wrapped plastic covering or vacuum plastic covering operations to be in stand by.
- Packing lists and packing notes to be handed over to entitled inspector.
- For marking control
- For compliance examination of cases contents.

11.2 consequently, supplier shall:

- After technical acceptance of equipment by contractor, define the expected necessary packing preparation period.
- Prior to scheduled packing inspection date, provide contractor's Expediting department with packing lists and packing notes.
- Advise by fax contractor Expediting department, stating expected date and location of packing acceptance to be performed by contractor's representative.
- Do shrink wrapping operation as well as vacuum sealing.
- Do closing of cases and/or crates together with incorporation of the appropriate packing lists and packing notes.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

12. SHIPPING INSTRUCTION

12.1 ADDITIONAL DEFINITION FOR SHIPPING INSTRUCTION

12.1.1 PURCHASER

Party/company of CONTRACTOR who issue purchase order to VENDOR under the name of Consortium Members

12.1.2 VENDOR

VENDOR means that company(ies) who supplies CARGO under purchase order issued by CONTRACTOR

12.1.3 FREIGHT FORWARDER

A Company(ies) who is nominated by PURCHASER for Air and Ocean Transportation of CARGO for South Pars Gas Field Development Phase 14 Project.

12.1.4 SITE

SITE means the area where the plant is located and situated at Bandar Assaluyeh in Iran.

12.1.5 CARGO

Equipment, Materials, Components, Accessories and/or Spare Parts procured by CONTRACTOR

12.1.5.1 GENERAL CARGO

GENERAL CARGO means the CARGO that its weight and dimension is less than 20 metric tons and does not exceed 12m in length, 2.5m in width and 2.5m in height per package.

12.1.5.2 HEAVY and/or OVER DIMENSION CARGO

HEAVY and/or OVER DIMENSION CARGO means the CARGO that its weight or dimension is bigger or heavier than GENERAL CARGO.

12.1.6 CONTRACTUAL DELIVERY DATE

The date of delivery which is stipulated in the purchase order

12.1.7 CARGO READINESS

CARGO READINESS means the situation that CARGO can be forwarded to the contractual delivery place agreed between PURCHASER and VENDOR as well as ready for delivery to the project site.

12.2 PURCHASER'S RIGHTS AND OBLIGATION FOR SHIPMENT

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	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

12.2.1 Instruction

PURCHASER and/or his FREIGHT FORWARDER reserve the right to issue the adequate instructions for shipment to the VENDOR so that the work will meet PURCHASER's requirement. PURCHASER may, if necessary, coordinate the work between the VENDOR and PURCHASER's FREIGHT FORWARDER and/or Shipping companies. PURCHASER's instructions and coordination shall not relieve the VENDOR of any his obligations under the Purchase Order.

12.2.2 Purchaser's Logistics Organization

PURCHASER establishes his transportation supervisory organization as shown In ATTACHMENT NO.1. The VENDOR shall keep in close contact with PURCHASER's person in charge to perform the transportation work smoothly.

12.2.3 Space Booking

PURCHASER books the space of the Transportation Means for Cargo-Transportation by use of FREIGHT FORWARDER based on "Preliminary Shipping Information for Space Booking", which is as shown in ATTACHMENT NO.5, prepared and provided by the VENDOR.

12.2.4 Notice of Transportation Schedule

After booking the space of Transportation Means, PURCHASER or PURCHASER's FREIGHT FORWARDER shall inform the Vendor of the Transportation Schedule including the name of vessel (or air craft), ETA delivery place (or port) and/or Loading place (or port).

12.2.5 Pre-Shipment Inspection (PSI)

If OWNER or Iranian authorities request PURCHASER to perform PSI, PURCHASER shall coordinate among concerned parties, such as OWNER, VENDOR and Company of Inspection.

12.2.6 PURCHASER will select FREIGHT FORWARDER for the Transportation of the Cargo.

12.3 FREIGHT FORWARDER'S OBLIGATION FOR SHIPMENT

FREIGHT FORWARDER arranges the Transportation Means according to the agreement with PURCHASER, and coordinates the shipment between PURCHASER, carrier and/or VENDOR.

The Scope of FREIGHT FORWARDER is as follows:

- Space booking of the vessel based on the "Preliminary Shipping Information for Space Booking" made by VENDOR. Notify to VENDOR of the arranged vessel and necessary information so that VENDOR may make shipment smoothly.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0	Class:3

- Payment of ocean freight to the shipping company and obtaining all originals and some copies of Bill of Lading and dispatch them to PURCHASER.
 - Sending a copy of Bill of Lading to VENDOR for VENDOR's collection of payments upon request by VENDOR.
 - Getting VENDOR's Certificate of Origin as per designated description for this project on behalf of PURCHASER.
 - Getting other "Required Shipping Document", if so requested by PURCHASER.
- PURCHASER's FREIGHT FORWARDER's Organization for this project is given In ATTACHMENT NO.2.

12.4 VENDOR'S OBLIGATION FOR SHIPMENT

VENDOR shall follow the FREIGHT FORWARDER's instruction and fully comply with his requests as if the same instructions/requests were made by PURCHASER.

12.4.1 Vendor's Responsible Personnel for Transportation

Within two (2) weeks after receipt of the Purchase Order, the Vendor shall send the information as shown in ATTACHMENT NO.3 to PURCHASER as shown in ATTACHMENT NO.1.

12.4.2 Export License and/or Other Necessary Permits

In case any export licenses and/or other necessary permits, authorization etc. are required by the authorities concerned in the exporting country for the shipment, VENDOR must obtain such licenses, etc. before Cargo Readiness date by VENDOR's own cost and risk.

If any assistance of PURCHASER for this matter is required, VENDOR shall notify PURCHASER of the details within two (2) weeks after receipt of purchase order and/or letter of intent issued by PURCHASER.

12.4.3 Transportation Aids

12.4.3.1 Special Traverse

The VENDORS, who supply large quantities of steel plates for tankage or very large equipment such as air cooled heat exchanger or equipment that balancing Center of Gravity is hard and dangerous without Special Traverse for lifting, shall provide the special lifting traverses to be used at both the ports of loading and discharging by Vendor's own cost and risk.

12.4.3.2 Lifting Lugs

The VENDOR who supplies heavy equipment, package type boilers or equipment shall provide lifting lugs on the equipment itself by VENDOR's own cost and risk.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

12.4.4 Trade Terms

The trade terms used on the Purchase Order shall be governed and interpreted under the Provisions of INCOTERMS 2000.

Besides VENDOR shall note that it is interpreted that the following costs for shipment shall be for account of VENDOR, in case that the trade terms is FOB, unless otherwise agreed between VENDOR and PURCHASER.

- Export Customs Clearance
- Export License, if required
- All Inland Transportation Charges from Vendor's Shops to alongside of Vessel, Container Yard or Airport including Pick up Charges.
- Container Drayage Charge/Empty Container Drayage Charge.
- Vanning Work/ Vanning Charge for Container Transportation, if any
- CFS (Container Freight Station) Charge for Container Transportation, if any
- All Charges related with Packing and Marking
- Terminal Handling Charge for Container Transportation

In case that FREIGHT FORWARDER pays for the above costs on behalf of VENDOR, those costs shall be compensated by VENDOR to FREIGHT FORWARDER.

12.4.5 Delivery of Cargo

12.4.5.1 Pier Delivery Instructions

After completion of the packing inspection, VENDOR shall contact the FREIGHT FORWARDER for pier delivery instruction. The pier delivery instructions shall not be issued by the FREIGHT FORWARDER unless the FREIGHT FORWARDER receives the shipping documents from the VENDOR. VENDOR shall not release Materials until he receive pier delivery instructions from the FREIGHT FORWARDER.

The FREIGHT FORWARDER shall be authorized to question VENDOR at any stage for the latest delivery information on CARGO on behalf of PURCHASER for smooth shipment.

12.4.5.2 Shipment

- VENDOR shall make shipment on the vessel to be designated by PURCHASER's FREIGHT FORWARDER. The FREIGHT FORWARDER designates the vessel only for shipping arrangement. PURCHASER has nothing to do with any damage and/or losses to the Materials under his custody.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0	Class:3

- In case the contract is made on CFR or CIF terms. VENDOR shall ship CARGO at berth terms in loading/discharging port on the conference liner vessel or direct airline which arrives at destination earliest and whose whole derrick can handle the capacity of cargo weight.
- As far as CARGO can be transported by containers, a container vessel will be arranged for shipment. In this case, all relating charges for shipment such as CFS charges, container tax, THC and etc at the shipping port shall be borne by VENDOR.

12.4.5.3 Partial Transportation (Delivery, Shipment)

Vendor shall deliver CARGO covered by one requisition number in complete set. Partial Transportation (Delivery, Shipment) is basically prohibited unless otherwise specially accepted by PURCHASER. Accessories, special tools and spare parts for erection & commissioning and two (2) years operation spare parts must be shipped together with CARGO.

If partial shipments are allowed by PURCHASER and parts of the order are shipped, VENDOR shall mark as "first partial shipment", "second partial shipment" on the packing list. For the last shipment covering the remainder of the order, VENDOR shall mark "final shipment" on the packing list.

12.4.5.4 Short Shipment

Unless otherwise partial shipment is allowed by PURCHASER, any remaining un-shipped CARGO after VENDOR's final shipment shall be basically delivered on DDP (INCOTERMS 2000) by air. The VENDOR, upon receipt of details, such as duty, warehouse charges, inland transportation charges & etc. paid in importing country, shall remit the same charges to PURCHASER, in case that PURCHASER pay such expenses in advance.

12.4.5.5 Required Shipping Documents

VENDOR shall submit the shipping documents and information specified in the Article 12.5 hereof

12.4.5.6 Demurrage

As it is mentioned general term and conditions of purchase, in the event that a delay in loading caused by VENDOR results in retention of the vessel, VENDOR shall be liable for any charges for shipment, if any change in the information including the cargo volume and/or delivery

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0	Class:3

schedule causes extra cost such as the charges for Cancellation, Dead Space, Demurrage and/or Detention, trailer waiting charges, terminal handling charges etc.

12.4.5.7 Storage at the Port of Export

As it is mentioned general terms and conditions for purchasing, should PURCHASER not provide a Transportation Means at the date of shipment, VENDOR shall undertake to store the CARGO for thirty (30) days at VENDOR's expenses and risk from the date of shipment advised by PURCHASER. (Details refer to the general terms and conditions for purchasing).

12.4.5.8 Pre-shipment Inspection (PSI)

Vendor shall grant inspector(s) for PSI to access to vendor's shops or his sub-supplier's shops. Besides, vendor shall assist inspector or purchaser to perform PSI and shall follow the Inspector's instructions for performance of PSI.

12.5 REQUIRED SHIPPING DOCUMENTS AND INFORMATION FROM THE VENDOR

12.5.1 Heavy Weight and/or Over-Dimensioned Cargo List and Cargo Sketch

Within sixty (60) days after the issuance of purchase order, the VENDOR shall submit two (2) copies of "Heavy and/or Over-dimensioned Cargo List and Cargo Sketch" giving the data concerning net/gross weight, measurement, center of gravity, position of skids, lifting lugs and etc., to PURCHASER by fax first and Express Courier Service.

12.5.2 Cargo Handling Direction

In case that CARGO requires the special attention as to handling and/or temperature, etc., during the whole transportation and storage, two (2) copies of Cargo Handling Directions shall be submitted to PURCHASER within ninety (90) days prior to the scheduled shipment

12.5.3 Dangerous and Poisonous Goods

Ninety (90) days before Cargo Readiness date, Vendor shall fill up the necessary information in the ATTACHMENT NO.4 including "IMCO Class" and "UN No." and submit it together with the following documents and information to PURCHASER's Head Office if the Vendor will export dangerous or poisonous goods, defined in IMCO(Inter-Governmental Maritime Consultative Organization) Code:

- ATTACHMENT NO.4 Safety Data Sheet which is filled up by Vendor

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

- Contents explanation of chemical and hazardous Cargo
- Detailed explanation on the CARGO including packing style and packing specification
- Catalogue showing the name and quality of the CARGO, etc.

12.5.4 Preliminary Shipping Information

Forty five (45) days before Cargo Readiness date, the VENDOR shall send "Preliminary shipping information for Space Booking" as shown in ATTACHMENT NO.5 to PURCHASER Head Office and to the FREIGHT FORWARDER by fax or e-mail. If only a short time is allowed between the date of the Purchaser Order and the required delivery date, the VENDOR shall prepare and submit this information within ten (10) days after receipt of Purchaser Order.

The VENDOR's "Preliminary Shipping Information" shall contain at least the following items:

- Expected date of release for shipment (delivery date)
- Material list to be shipped
- Estimated gross weight and dimensions per package. If the gross weight & dimensions cannot be estimated per a package, the estimated total gross weight and measurement per shipment is acceptable.
- Amount of the CARGO to be delivered (if partial shipments are made, the amount shall be declared on a prorated basis)
- Instructions for loading, unloading, handling and special precautions to be observed for storage.

If the notice of any change in cargo volume and/or delivery schedule is given to PURCHASER and/or PURCHASER's FREIGHT FORWARDER too late for PURCHASER and/or PURCHASER's FREIGHT FORWARDER to correct the necessary arrangement, PURCHASER shall have the right to file a claim against VENDOR for extra cost, such as dead freight or demurrage.

12.5.5 Detailed Packing List and Commercial Invoice (Draft)

Fifteen (15) days before Cargo Readiness date, the VENDOR shall send PURCHASER and PURCHASER's FREIGHT FORWARDER the following documents signed by VENDOR by fax or e-mail first and by courier service. VENDOR shall use the format as shown in ATTACHMENT NO.6 & ANNEX IV for preparation of these documents.

	<u>PURCHASER</u>	<u>FREIGHT FORWARDER</u>
• Commercial Invoice	1 Copy	
• Packing List	1 Copy	1 Copy

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

12.5.6 Certificate of Origin

Three (3) days before Cargo Readiness date and before the documents are certified by Chamber of Commerce and be legalized by the Iranian Consulate Commercial Section, VENDOR shall prepare and send the drafts of Certificate of Origin to PURCHASER Head Office for PURCHASER's review and/or comment by Fax or e-mail first and by courier service. Vendor can use the format as shown in ATTACHMENT # 7 for preparation of Certificate of Origin.

12.5.7 Dispatch of Shipping Documents

Three (3) days prior to on-board of CARGO, by Fax or E-Mail and by Express Courier Service

	<u>PURCHASER (EOR)</u>	<u>FREIGHT FORWARDER</u>
• Commercial Invoice (Final)	1 Copy	
• Packing List (Final)	1 Copy	1 Copy
• Certificate of Origin (Final)	1 Copy	

12.5.8 Final Shipping Documents for Payment

VENDOR may present the Final Shipping Documents to the Bank or PURCHASER within the agreed period between PURCHASER and Vendor in accordance with the terms and conditions of Letter of Credit (or Purchase Order).

Besides, within three (3) days after On-Board date, the Vendor shall dispatch the following "Final Shipping Documents" to PURCHASER's head office for pre-review by fax (or e-mail) first and by courier service.

The list of Final Shipping Documents is subject to the terms and conditions of the Project specification issued by the Project Owner. Final shipping document list shall include the following documents as a minimum:

- Signed commercial invoice in 1 original and 3 copies,
- Signed detailed and final packing list in 1 original and 3 copies,
- Certificate of origin certified by chamber of commerce in 1 original and 3 copies,
- Inspection release note (IRN) issued by purchaser's inspector or 3rd party inspector designated purchaser in 1 original and 3 copies,
- Vendor's Factory Inspection Certificate in 1 original and 3 copies,
- Vendor's guarantee certificate in 1 original and 3 copies,
- Required documents will specified in each "Purchase Order"

In case that VENDOR does not compensate for the costs which have been paid by FREIGHT FORWARDER, on behalf of VENDOR under FOB terms. PURCHASER shall hold payment until the compensation will be made by VENDOR.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

12.6 PREPARATION OF TRANSPORTATION DOCUMENTS

12.6.1 Common Respects

12.6.1.1 Consignee, Notify Party and Description of Bill of Lading (or Airway Bill), Commercial Invoice, Packing List, Certificate of Origin, and Others

Consignee Name : NIOC / POGC

Address : To be informed later

Notify Party Name & Address : To be informed later

Stipulate following phrases in all shipping documents:

- NIOC SOUTH PARS PROJECT PHAASE 14,

- Final Destination: Pars Special Energy & Economic Zone (Assaluyeh)

12.6.1.2 Shipper Name of Bill of Lading (or Airway Bill), Commercial Invoice, Packing List, Certificate of Origin, and Others

Shipper Name & Address : To be informed later

Address : To be informed later

12.6.2 Certification by Chamber of Commerce

Chamber of Commerce which certifies the transportation documents shall be that of the country in which Manufacturer's shop is located unless the separate instruction is given to VENDOR by PURCHASER.

12.6.3 Bill of Loading

For FOB delivery, Bill of Lading shall be marked with "Freight Prepaid" and Freight will be paid through PURCHASER's FREIGHT FORWARDER.

12.6.4 Commercial Invoice

Commercial Invoice shall be duly signed by Vendor's authorized representative with the following affidavit and statement. "We hereby certify that the equipment and/or materials listed herein are of (Country of Origin) origin and/or manufacture and the amounts quoted are true and correct."

If there is any advance payment for the purchasing items, Commercial Invoice shall show the full amount as well as amount of advance payment already settled and the net amount payable under the invoice.

12.6.5 Packing List

It shall list only those items actually being transported (delivered). Items previously transported or items to be transported in the future shall not be listed.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

It shall be prepared by the MS Excel (Version 2003 or equivalent) in attached sample format and sent to PURCHASER by e-mail or fax when VENDOR applies for packing inspection for PURCHASER's review and check.

In preparing the packing list, the name of CARGO should be same as those described in Purchase Order, even if VENDOR has his own name for CARGO ordered by PURCHASER.

The packing list should include the following information as a minimum.

- Project Name: South Pars Gas Field Development, phase 14
- Purchase Order and Requisition number
- Consignee name and address
- Destination
- Item or tag number and item name
- Detailed description of every item in each package
- Quantities of each item or subassembly required for complete shipment
- Gross and net weight (KGS) of each package
- Size (CM) I Dimension (Dimension in centimetre) of each package
- Number of package in the shipment
- Origin of item
- Harmonized system code number (HS Number)

12.6.6 Required Documents and Submission Schedule Etc.

VENDOR shall prepare and submit following number of the documents in accordance with designated schedule and method shown as under:

Required Documents And Information	Submission Schedule	Required Number	Submission Method	Remarks
12.5 .1 Heavy weight and/or Over Dimensioned Cargo List and Cargo Sketch (If applicable)	Within 60 days After PO. Date	2 copies	By E-mail Or by FAX	VENDOR's form is acceptable.
12.5 .2 Cargo Handling Direction (If applicable)	By 90 days Prior to the scheduled shipment	2 copy	By E-mail Or by FAX	VENDOR's form is acceptable.
12.5 .3 Dangerous and Poisonous Goods	By 90 days Before Cargo	1 copy	By E-mail Or	VENDOR must fill up necessary Information in the

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	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

(If applicable)	Readiness date		by FAX	Attachment NO.4 including "IMCO Class" and "UN No. "
12.5 .4 Preliminary shipping information	By 45 days before cargo Readiness	1 copy	By E-mail Or by FAX	Please refer to Attachment NO. 5.
12.5 .5 Detail Packing List Commercial Invoice Certificate of Origin (Draft)	By 15 days before Cargo Readiness data	1 original +3 copies	By E-mail Or by FAX	To be prepared in Excel of Microsoft 2000.
12.5.6 Storage instruction (if any) Packing list and detailed item list	With cargo	2 Copies	With cargo	
12.5 .7 Certificate of origin	By 3 days after On- Board data	1 certified Original	At first by fax or e-mail and by courier service	
12.5 .8 Final Shipping Documents For Payment Commercial Invoice Packing List Certificate origin Inspection Certificate	By 3 days after On- Board data	According to P.O.	At first by fax and e-mail for pre-review and by courier	To be prepared in Excel of Microsoft 2000.

12.7 ATTACHMENTS

The following attachments are parts of this Shipping Instruction

ATTACHMENT NO.1 PURCHASER'S Logistics Organization

NO.2 Freight Forwarder's Organization

NO.3 Notice of Vendor's Responsible Personnel for Transportation

NO.4 Safety Data Sheet

NO.5 Preliminary Shipping Information for Space Booking

NO.6 Commercial Invoice

NO.7 Certificate of Origin

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

ATTACHMENT NO.1

PURCHASER'S LOGISTICS ORGANIZATION

1. I.P.M.I (SAMPLE)

PROCUREMENT TEAM

1)

Person in Charge : Mr. *(To be issued later)* / Project Procurement Manager

Address : *(To be issued later)*, Tehran, Iran

Telephone : *+(To be issued later)*

Facsimile : *+(To be issued later)*

E-mail address : *(To be issued later)*

2)

Person in Charge : Mr. *(To be issued later)* / Traffic Coordinator

Address : *(To be issued later)*, Tehran, Iran

Telephone : *+(To be issued later)*

Facsimile : *+(To be issued later)*

E-mail address : *(To be issued later)*

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

ATTACHMENT NO.2

FREIGHT FORWARDER'S ORGANIZATION

1. Appointed Freight Forwarder for Ex-ASIA CARGO

Name : *(To be issued later)*
 Address : *(To be issued later)*
 Person in Charge : *(To be issued later)*
 Telephone : *+(To be issued later)*
 Facsimile : *+(To be issued later)*
 E-Mail Address : *(To be issued later)*

2. EUROPE Agent for Ex-EUROPE CARGO

Name : *(To be issued later)*
 Address : *(To be issued later)*
 Person in Charge : *(To be issued later)*
 Telephone : *(To be issued later)*
 Facsimile : *(To be issued later)*
 E-Mail Address : *(To be issued later)*

3. JAPAN Agent for Ex-JAPAN CARGO

Name : *(To be issued later)*
 Address : *(To be issued later)*
 Person in Charge : *(To be issued later)*
 Telephone : *(To be issued later)*
 Facsimile : *(To be issued later)*
 E-Mail Address : *(To be issued later)*

4. SINGAPORE Agent for Ex-SINGAPORE CARGO

Name : *(To be issued later)*
 Address : *(To be issued later)*
 Person in Charge : *(To be issued later)*
 Telephone : *(To be issued later)*
 Facsimile : *(To be issued later)*
 E-Mail Address : *(To be issued later)*

Remark: Details are will be informed later,

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

ATTACHMENT NO.3

NOTICE OF VENDOR'S RESPONSIBLE PERSONNEL FOR TRANSPORTATION

TO : I.P.M.I

Name of Vendor and Agent : *(To be issued later)*
Person in Charge : *(To be issued later)*
Address : *(To be issued later)*
Telephone : *(To be issued later)*
Facsimile : *(To be issued later)*
E-Mail Address : *(To be issued later)*

We are pleased to inform you of the following information at your request in "Transportation Instruction to Vendor"

1.

Purchase Order No.	Description	Quantity
Fabricator / Sub Vendor	:	<i>(To be issued later)</i>
Address	:	<i>(To be issued later)</i>
Telephone	:	<i>(To be issued later)</i>
Facsimile	:	<i>(To be issued later)</i>
E-Mail Address	:	<i>(To be issued later)</i>

2.

Manager of Transportation : *(To be issued later)*
Person in Charge : *(To be issued later)*
Telephone : *(To be issued later)*
Facsimile : *(To be issued later)*
E-Mail Address : *(To be issued later)*

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

ATTACHMENT NO.4

SAFETY DATA SHEET					
Name of company:					Ref. No. Date
Communication in case of accident Name of person Tel:					
PACKAGE STYLE, ETC.					
Job. No.		Req. No.		Item No.	
Contents				Package No.	
Chemical Formula					
Classification by Regulation				UN No. I	
IMCO CODE			Fire Service Law		
Net Weight		Net Capacity		Filling Pressure	
Service					

NATURE OR PROPERTY

Appearance		Ignition Temperature	
Odor		Boiling Point	
Specific Gravity		Freezing Point	
Vapor Density		T L V	
Flammable Limit		Oral Toxicity (LD50)	
Flash point			

MAIN HAZARDS

Explosion and Flammability:	
Reactivity:	
Health Hazard:	

EMERGENCY PROCEDURE

Fire	How to Extinguish Extinguishing Agents. Etc.	
Leakage	How to clean Neutralization Agents. etc.	
Protective Clothing	Types of Gas-Mask, etc.	
Acute Toxic	Emergency Measures, Antidote, etc.	

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

ATTACHMENT NO.5

TO	:	I.P.M.I	Date	:
Attn	:	Mr. <i>(to be issued later)</i> / Project Procurement Manager	Ref. No.	:
C.C	:	Mr. <i>(to be issued later)</i> / Traffic Coordinator	PAGE	:
1 OF 2				

Subject: **Preliminary Shipping Information for Space Booking**
SOUTH PARS GAS FIELD DEVELOPMENT PHASE 14

We hereby send I.P.M.I the Preliminary Shipping Information for Space Booking as below according to the Transportation Instruction No . xxxxxx.

P.O Number	:	
Requisition No.	:	
Cargo Description	:	Details as per attached Cargo Details
Total Number of Packages	:	Packages
Total Net Weight	:	KGS
Total Gross Weight	:	KGS
Total Measurement	:	M3
Port of Loading	:	

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0	Class:3

SAMPLE

Cargo Details

Req. No	Item No.	Description	Q'ty	No. of PKG	PKG Style	Net W.T (Kqs)	GW (Kqs)	Dimension (L x Wx H-CM)
DI-14-1300- XX-XXXX	SHM-018	2no REACTOR TOP DAVIT	1	XXX-S-001 OF 010	WOODEN SKID	92,700	93,300	1828 x 408 x 339
	SHM-019		1	XXX-S-002 OF 010	WOODEN BOX	4,090	4,500	550x 180x 150

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

ATTACHMENT NO.6

COMMERCIAL INVOICE

Shipper/Exporter		No. & date of invoice			
For account & risk of Messers		Remarks			
Notify party					
Port of loading	Final destination				
Carrier	Sailing on or about				
Marks and numbers of PKGS	Description of Goods	Quantity	Unit-price	Amount	

CONTRACT No. POGC-801-84/240 South Pars Phase 14 NIOC / POGC	
Pars Special Economic and Energy Zone	
LOADING PORT	:
DISCHARGING PORT	:
FINAL DESTINATION	:
P/O NO	: (PURCHASER ORDER NUMBER)
DESCRIPTION OF CARGO	: (GENERAL MATERIAL NAME)
PACKAGE NO.	: (SERIAL) OF (TOTAL)
GROSS WEIGHT	: KGS
DIMENSION	: (L) CM x (W) CM x (H) CM
MADE IN	:
BRUSSEL'S CUSTOMS TARIFF NO.	:
BENEFICIARY NAME	:

NIOC SOUTH PARS PROJECT PHASES 14
Final Destination: Pars Special Energy & Economic Zone (Assaluyeh)

Signed by
VENDOR'S COMPANY NAME MENTIONED IN
PURCHASE ORDER

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

ATTACHMENT NO.7

CERTIFICATE OF ORIGIN

1. Exporter (Name, address, country)		CERTIFICATE OF ORIGIN Issued by XXXXX CHAMBER OF COMMERCE & INDUSTRY
2. Consignee (Name, address, country)		
		3. Country of Origin
4. Transport details		5. Remarks
6. Marks & numbers; number and kind of packages; description of goods		7. Quantity
CONTRACT No. POGC-801-84/240 South Pars Phase 14 NIOC / POGC LOADING PORT : DISCHARGING PORT : FINAL DESTINATION : P/O NO : DESCRIPTION OF CARGO : PACKAGE NO. : GROSS WEIGHT : DIMENSION : MADE IN : BRUSSEL'S CUSTOMS TARIFF NO. : BENEFICIARY NAME : (PURCHASER ORDER NUMBER) (GENERAL MATERIAL NAME) (SERIAL) OF (TOTAL) KGS (L) CM x(W) CM X (H) CM NIOC SOUTH PARS PROJECT PHASES 14 Final Destination: Pars Special Energy & Economic Zone (Assaluveh)		
8. Declaration by the Exporter. The undersigned, as an authorized signatory, hereby declares that the above-Mentioned goods were produced or manufactured in the country shown in box 3. (Signature) (Name)		9. Certification The undersigned authority hereby certifies that the goods described above originate in the country shown in box 3 to the best of its knowledge and belief _____ Authorized Signatory Certificate No.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

ANNEX I

MAIN SHIPPING MARK



Pars Special Economic and Energy Zone

CONTRACT NO.	:	
LOADING I DISCHARGING PORT	:	
FINAL DESTINATION	:	
PACKAGE NO.	:	
P/O NO.	:	
DESCRIPTION OF CARGO	:	
GROSS WEIGHT	:	KGS
DIMENSION	:	(L) X (W) X (H) CM
MADE IN	:	
BRUSSEL'S CUSTOMS TARIFF NO.	:	
BENEFICIARY NAME	:	

In case of airfreight shipment the above mentioned specifications remain the same, but instead of point of entry the marking shall be:

AIRPORT OF DESTINATION	: TO BE INFORMED LATER
FOR DELIVERY TO	: TO BE INFORMED LATER

Two copies of packing lists are to be attached the outside of each packing in waterproof plastic cover underneath a nailed plate In the case of equipment, which is dispatched unpacked. this plate should be welded on the metal parts (spot welding) or attached permanently to the package in another way depending on the material. One copy of the packing list is to be placed in a clearly visible point in the boxes/crates in a waterproof plastic cover.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

ANNEX II

EQUIPMENT STORAGE CODES

	STORAGE IN AIR CONDITIONED WAREHOUSE	STORAGE IN WAREHOUSE	STORAGE OUTDOOR WITH COVERS	STORAGE OUTDOOR WITHOUT COVERS
STRUCTURAL STEEL - Panels, beams, columns, grating - Bolting - Material for civil work		xxx		x x
EQUIPMENT - Towers, vessels, kiln, mills, air coolers, boilers - Pumps, compressors, blowers, fans, mixers, reducers - Tower and vessels internals - Bolting and special small items - Packaged units - Mechanical parts		xxx xxx	xx xx xx	x
PIPING - Flanges, fitting 10" and smaller than 10" - Valves 6" and smaller than 6" - Pipe and remaining valves, fittings and flanges - Gaskets and bolting - Welding rods		xxx xxx xxx xxx		x
INSTRUMENTATION I LABORATORY - Cable tray and supports - Control room panels, racks, cabinets and associated instruments - All other items	xxxx	xxx	xx	
ELECTRICAL - Cable reels, conduits and cable tray - Electrical motors designed for outside service - Electrical motors designed for inside service - Supporting steel, stanchion, saddles, etc. - Lightning equipment - Panel boards, racks cabinets and associated electrical - Transformers - U.P S, batteries - All other materials	xxxx xxxx	xxx xxx xxx	xx xx xx	x

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

	STORAGE IN AIR CONDITIONED WAREHOUSE	STORAGE IN WAREHOUSE	STORAGE OUTDOOR WITH COVERS	STORAGE OUTDOOR WITHOUT COVERS
REFRACTORY LINING - Refractory liquid, mortar, castables, mixes, ceramic fibers expended polystyrene, paper adhesive coating, paints.. - Dense fire bricks, steel parts, insulating fire bricks and blocks		xxx	xx	
INSULATIONS - Ceramic fibre and calcium silicate material. Metal sheeting - Mineral wool blankets, supporting rings fasteners, banking ..		xxx xxx		
PAINTING, THINNERS. etc - All material		xxx		
CIVIL - Anchor bolts - Reinforcing steel - Cement (in bags), bricks		xxx	xx	x
CHEMICAL & CATALYST - Catalysts, alumina balls, molecular sieves		xxx		

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

ANNEX III

MARKING SPECIFICATION

Mark		Ink		Mark Location	Size	Remark
		Color	Material			
Main Shipping mark		Black	High quality Waterproof Ink or oil paint	Both sides and top	Optimum Size For each Package	
Care Mark	Sling Mark and Center of Gravity mark	Red	High quality Red Waterproof Ink or Oil paint	Both sides	Optimum Size for Each Package	
	Other marks			Top mark: both Sides and ends Others: both Ends		
Approximate weight		Black	High quality Waterproof Ink or Oil paint	Both sides, Ends, and top	15cm and over	Only for packages Exceeding 5 tons: Hand writing is Permissible: unit Shall be of tons
I.P.M.I		Red, Black	High quality Waterproof Ink or Oil paint	Both sides, Ends, and top	Minimum Diameter 20cm	
Packing list cover		Yellow Letters On black Back-Ground	Enamel	Upper part of One end	L= 14cm W = 18cm	Do not overlap With care mark: Use template

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

ANNEX IV

PACKING LIST

Packing list No.:

Shipper/Exporter		No. & date of invoice			
For account & risk of Messers		Remarks:			
Notify party					
Port of loading	Final destination				
Carrier	Sailing on or about				
Marks and numbers of PKGS	Description of Goods	Quantity	Net weight	Weight Gross	Measurement

CONTRACT No. POGC-760-801-84/240 South Pars Phase 14 NIOC / POGC	
LOADING PORT : DISCHARGING PORT : FINAL DESTINATION : P/O NO : DESCRIPTION OF CARGO : PACKAGE NO. : GROSS WEIGHT : DIMENSION : MADE IN : BRUSSEL'S CUSTOMS TARIFF NO. : BENEFICIARY NAME :	: : : : (PURCHASER ORDER NUMBER) : (GENERAL MATERIAL NAME) : (SERIAL) OF (TOTAL) : KGS : (L) CM x (W) CM x (H) CM : : :

NIOC SOUTH PARS PROJECT PHASES 14
 Final Destination: Pars Special Energy & Economic Zone (Assaluyeh)

Signed by

VENDOR'S COMPANY NAME MENTIONED IN PURCHASE ORDER

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

ANNEX V

PACKING FOR PIPING MATERIAL

A. PIPES (CARBON STEEL) From 1/2" to 4"

1. PACKING IN CRATE - Refer to ANNEX VII with solid panels sides at the extremity of the crate

1.1 Physico-chemical protection:

All parts vulnerable to corrosion must be protected by the manufacturer, who will in particular take responsibility for draining, rinsing, drying, protecting and for other specific and adapted physico-chemical protection

1.2 Mechanical protection

The pipes will be immobilized by appropriate inserts fixed to the crates those 30% open ratio.

1.3 Marking

The contractual shipping marking will be fixed to the sides of the crate.

B. PIPES (CARBON STEEL) From 4" to 8" BUNDLE - (REFER TO ANNEX VII)

1. Physico-chemical protection

The pipes shall be provided with initial protection carried out by the manufacturer such as protective oil and internal protection. This protection comprises a spray-applied protective and seals ends (waterproofing, wood, metal or plastic covers) or any chemical protection perfectly adapted to the pipes proposed by the manufacturer approved by Client.

1.1 Mechanical protection

The bundling is carried out with U-IRON or crosswise planks, joined with threaded connecting rods with stop-nuts Quantities and stamping positions depend on the length, with a 120 cm spacing to prevent distortion.

C. PIPES (CARBON STEEL) >8"

1. Loose

1.1 Physico-chemical protection

Refer to above Para. A 1.1

1.2 Marking

The contractual shipping marking will be directly painted to the pipes if authorized by the contract or label affixed to the bundles.

D. STAINLESS STEEL PIPES (AND OTHER STEELS NOT ALREADY INDICATED) FITTINGS AND FLANGES STAINLESS STEEL AND OTHERS

1. CASE - CATEGORY 4 (Packing cases, See ANNEX IX)

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

1.1 Physico-chemical protection

- If needed for this type of pipes, it will be carried out by the manufacturer.
- All parts of fittings and flanges vulnerable to corrosion must be protected by the manufacturer who will in particular take responsibility for draining, rinsing, drying, protection and any adapted protection needed for transportation and storage in safe conditions.

1.2 Mechanical protection

The immobilization will be made by inserts appropriate to the dimensions of the pipes, fittings and flanges

1.2.1 Austenitic stainless steel pipes

All stainless steel pipes shall be protected against the risks of saline corrosion during cleaning, transport, fabrication, testing and/or storage

1.2.2 Sea-packing shall be used for all pieces of pipes; in case of austenitic stainless steel, the packing must also be water-proof.

E. GRP PIPES AND COMPONENTS

Shipments from the works are made in wooden cases or in special containers. Each layer of tubes is separated from the next layer by planks not more than 2 m apart. These planks are aligned vertically. The thickness of the planks must be such that the bell ends do not touch other tubes or tube ends.

It is strictly forbidden to handle GRP tubes without end protectors.

The only acceptable handling methods are:

- by hand : the tubes are handled one by one,
 - by crane : minimum 4" width wide slings of textile webbing, held spread by a bar, are used.
- Handling using end hooks is forbidden.

It is forbidden to unload a vehicle by rolling the entire load off the side.

Straight continues length of pipes shall be lifted by at least 2 slings each spaced 10 ft from centre.

F. PIPE MATERIAL PACKING

1. PIPE SUPPORT (X-BRACING)

1.1 PIPES (CARBON STEEL) >38"(Diameter) and Pipe wall thickness ≤ 30 mm.

For prevention of deformation, it shall be installed X type supporting brace using proper pipe or angle at both side of pipe And supporting bracing shall be welded on the bevel protection not on the surface of pipe material

2. Bevel protection

2.1 Pipe up to 20" pipe shall be covered with plastic cap

2.2 Pipe over 20" pipe shall be installed proper bevel protector.

3. PE/ PP COATED PIPES

3.1 Those pipes shall be packed category 4 (Packing cases. See ANNEX IX) / crate having 30% open ratio.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

ANNEX VI

PACKING FOR STRUCTURAL STEEL

1. PREPARATION OF THE STRUCTURAL STEEL

The technical identification of steelwork pieces will be made according to the instructions provided by the steel structure specification.

2. PACKING SELECTION

2.1 Categories for packing

- The structural steel will be packed as per French Industrial Packaging Specification S.E.I 1999 EDITION.
- The 3 following categories for packing will be used.

- | | | | | |
|---------------------------------------|---|---------|---|--------------------------|
| ☐ . Category 1 | : | bundles |) | See Sketch N° 2 |
| ☐ . Category 3 | : | crates |) | See Sketches N° 4, 5 |
| ☐ . Category 4 | : | cases |) | See Sketch N° 6, 7, 8, 9 |

2.1.1 Physico-chemical protection

When applicable, the structural steel pieces shall be provided with initial chemical protection proposed by the manufacturer. approved by contractor

2.1.2 Mechanical protection

☐ BUNDLE - CATEGORY 1

- ☐ Bundles shall be used for packing of standard straight shapes and built up welded shapes not likely to be subject to permanent distortion during handling operations. The packages shall be homogeneous and all parts shall be properly wedged against one another.

- ☐ The bundling is carried out with U-IRON or crosswise planks, joined with threaded connecting rods with stop-nuts. Quantities and stamping positions depend on the lengths, with a 120 cm spacing to prevent distortion.

- ☐ Remark = Placing of accessories between steel shape flanges is prohibited.

☐ CRATE - CATEGORY 3

- ☐ With solid panels sides at the extremity of the crate(refer to sketch.)

- ☐ Crates shall be used for wrought steel structures or plates, walkways, railing components. Cage components. etc., as a rule for all components likely to be subject to distortion during handling.

- ☐ The material will be immobilized by appropriate inserts fixed to the crates.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

- ☐ CASES - CATEGORY 4
- ☐ 4a /Cases with physico-chemical protection:
 - ☐ They shall be used for packing of assembling components, not shop assembled in their final position on main parts, such as short angles, gussets, wedges, etc.,. These components shall previously be grouped in series per identical structure number and coated with the shop protection provided on main parts.
- ☐ 4b / Cases with physico-chemical protection and with internal liner (waterproof)
 - ☐ They shall be used for bolting materials (screws, nuts, washers) and welding electrodes.
 - ☐ Bolting shall be properly oiled and placed in sacks prior to packing. Sacks shall be oiled prior to placing bolts. Only High Strength Friction Bolts shall be kept in their original packing (cardboard boxed).
 - ☐ The immobilization will be made by inserts appropriate to the dimensions of the each concerned type of goods.
 - ☐ Remark =all parts vulnerable to corrosion must be protected by the manufacturer who will in particular take responsibility for draining, rinsing, drying, protection and any adapted protection needed for transportation and storage in safe conditions.

1. MARKING

The contractual shipping marks will be applied as per Para. 9, and ANNEX 1 of the present "PACKING, MARKING and SHIPPING INSTRUCTIONS".

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

ANNEX VII

PACKING STYLE CRITERIA

Annex VII is prior to annex IX (SEI -1992) packing categories.

CATEGORY	ITEM	Moisture proof Full Closed Box	Water Proof Full Close Box	Crate 30% Open Type	Skid Saddle	Skid Bundle	Wooden Bundle	Steel Bundle	Bare	Shrink on Pallet	Steel Drum	Wooden Drum
1. Column, Reactor, Drum, Heat exchanger	less than 1M (D) x 2M (L)			x	x(*1)							
	More than 1M (D) x 2M (L)				x							
	Tray. Internal, Small Parts		x	x(*1)								
	Test Ring											
	Stage, ladders, Platform			x		x(*1)						
	Accessories, Spare Parts		x	x(*1)								
2. Tank	Anchor Bolt		x	x(*1)								
	Template			x			x(*1)					
	Carbon Steel Shell, Bottom, Deck, Roof Plate			x		x(*2) (*1)						
	Nonferrous Tank Materials			x		x(*1)						
	Annular Plate, Pontoon, Top Angle, Roof Structure, Girder, Stairway; 5 Tons or Less			x		x(*1) x(*1)	x					
	More Than 5 Tons											
3. Air-Cooled Heat Exchanger	Accessories, Spare Parts		x	x(*1)								
	Seal Material		x	x(*1)								
	Prefabricated Plate for Spherical Tank				x	x(*1)						
	Main Structure, Stage, Ladder; 5 Tons or Less	x				x(*1) x(*1)	x					
	More than 5 Tons											
	Accessories, Spare Parts		x	x(*1)								
	Tube Bundle						x					
	Fan Assembly		x	x(*1)								
	Driver, Small Parts		x	x(*1)								

* NOTE' The packing style of an item with two or more 'X's requires prior approval from Company.

(*1)' In case of container stuffing

(*2) . Over 5.8m length and 2.2 width

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

CATEGORY	ITEM	Moisture proof Full Closed Box	Water Proof Full Close Box	Crate 30% Open Type	Skid Saddle	Skid Bundle	Wooden Bundle	Steel Bundle	Bare	Shrink on Pallet	Steel Drum	Wooden Drum
4. Boiler, Fired Heater, Flare System	Cylindrical Body, Box-Type Body; 5 Tons or Less More than 5 Tons			x	x(*1) x							
	Stack, Duct, Structure			x	x(*1)	x(*1)						
	Fire Brick, Castable		x							x(*1)		
	Accessories, Spare Parts		x	x(*1)								
5. Pump, Compressor, Steam Turbine, Agitator	Body		x									
	Accessories, Spare Parts		x	x(*1)								
6. Package Item	Major Part		x	x(*1)								
	Accessories, Spare Parts		x	x(*1)								
7. Cooling Tower	Non-Metallic Parts		x									
	Steel Parts 5 Tons or Less More than 5 Tons			x	x(*1) x							
	Accessories, Spare Parts		x	x(*1)								
8. Laboratory Equipment	Instruments	x										
	Furniture		x									
	Such as Glassware. Laboratory Utensils		x									
9. Fire Fighting System	Fire Hydrant, Air Foam Sys. Hose, Extinguisher		x	x(*1)								
	Fire Engine		x	x(*1)								
10. Piping Materials	Pipes . HighAlloyand Nonferrous, All Size			x						x(*1)		
	.Carbon Steel, Low Alloy; 1/2 inches to 4 Inches 4 Inches over to 8 Inches 8 inches over			x		x		x(*1)	x			
	Pipes Prefabricated , HighAlloyand Nonferrous (All Size)			x						x(*1)		
	, Carbon Steel, LowAlloy; 4 inches and Less 6 inches and over			x x		x(*1)				x(*1)		
	Coated Pipe, Galv'd, Pipe Cement Lined Pipe			X x			x(*1) x(*1)			x(*1) x(*1)		

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

TEGORY	ITEM	Moisture proof Full Closed Box	Water Proof Full Close Box	Crate 30% Open Type	Skid Saddle	Skid Bundle	Wooden Bundle	Steel Bundle	Bare	Shrink on Pallet	Steel Drum	Wooden Drum
	Fitting, Flange , High Alloy and Non-ferrous(all size) , Carbon Steel, Low Alloy 4 inches and Less 6 inches and over		x	x(*1)						x(*1)		
	Valves, Strainer 4 inches and less 6 inches and over		x	x(*1)						x(*1)		
	Gaskets		x	x(*1)								
	Shop-fabricated pipe supports			x						x(*1)		
11. Civil and Architectural	Pipes					x			x(*1)			
	Rebar					x						
	Cement		x							x(*1)		
	Structural Steel					x						
	Shop-Fabricated Structures: Accessories		x				x			x(*1)		
	Interior Materials		x	x(*1)								
	Air Conditioning Equipment, Plumbing Fixtures		x							x(*1)		
	Exterior Materials Steel Ducts for Air Conditioning			x						x(*1)		
12. Instrumentation.	Panel, Power Supply system, Board Mounted Instrument and Analyzer Which are not Mounted in Weatherproof Enclosure	x	For moisture-proof packing, Vacuum cleaner shall be used to reduce the interior air pressure and nitrogen purging shall be followed									
	Flow, Temperature, Pressure, Level Instruments, Pressure, Valves, Analyzer Which is Mounted in Weatherproof Enclosure		x									
	Cables											x
	Conduit Pipe					x(*1)						
	Steel Pipe					x(*1)	x					
	Fittings / Tubes		x							x(*1)		
	Vendor's standard with Company approval	x										
	Shop-Fabricated Supports		x							x(*1)		
13. Electrical	Switchgears, Motor Control Center, Distribution Panel, Battery and Charger, Inverter ,Telephone and Alarm system		x									

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

TEGORY	ITEM	Moisture proof Full Closed Box	Water Proof Full Close Box	Crate 30% Open Type	Skid Saddle	Skid Bundle	Wooden Bundle	Steel Bundle	Bare	Shrink on Pallet	Steel Drum	Wooden Drum
	Bus Duct, Lighting Fixtures, Push-Button Station		x									
	Transformers		x									
	Conduit Pipe			x		x(*1)	Less than 0.5m ²					
	Cable											x
	Fittings		x							x(*1)		
	Cable Tray			x						x(*1)		
14. Painting	Paint		x	x(*1)								
	Thinner		x	x(*1)								
15. Insulation			x							x(*1)		
16. Chemicals Inhibitor, Lubricant	Material contained in bags		x									
	Material Contained in Steel Drum			x						x(*1)		
17. Office Equipment	Furniture		x	x(*1)								
	Precision Equipment	x										
	Stationery		x									
18. Construction. Equipment and Materials	Cable											x
	Crane:											
	Body, Counterweight Boom						x					
	Small Parts		x	x(*1)								
	Gin Pole:											
	Body						x					
	Pulley, Block, Hook, Shackle,			x								
	Small Parts											
	Engine Welder		x	x(*1)								
	Compressor		x	x(*1)								
	Temporary Generator		x	x(*1)								
	Scaffolding.											
	Board, Pipes Clamps		x	x(*1)								
	Welding Rods		x	x(*1)								
	Gas Cylinders		x	x(*1)								

* NOTE. The packing style of an item with two or more 'X's requires prior approval from Company.
x(*1) : In case of container Stuffing

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

ANNEX VIII

Not used

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0 Class:3

ANNEX XI. EUROPIAN INDUSRIAL PACKAGING SPECIFICATION

INDUSTRIAL PAKAGING SPECIFICATIONS SEI

(69 pages)

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

EDITORIAL

The Industrial Packaging Syndicate, author of the first specifications manual already corrected in 1992, wanted to integrate, in this new edition, the evolution in technology and procedures that has been recorded in the filled since the past few years.

The Technical Office of the Packaging Syndicate, composed of the best technicians and engineers coming from partner companies, has added, revised and completed the specifications where necessary.

There-of :

The presentation of the SE1 label, the conditions for its application and the guarantees that it provides can be integrated in this manual,

The logistic risks text has been developed to include, in the actual choice of packaging, the notion of final product destination, the product environment and its storage;

The different physico-chemical protections << a >> << b >> << c >> and << d >> complete the different packaging categories;

Chapter 5 <<Transport Cases>> has been revised;

Packaging in the environment constitutes a new chapter: chapter 10; the traceability and quality of it constitutes chapter 11.

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UPDATES OF MANUAL

- *DONE BY : BTEI*
- *FREQUENCY : Checked at least once a year*
- *DISTRIBUTION:- Internal and external as indicated above*
- *CAUSES : Changes of international standards and specifications or major technological development*

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Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

LIST OF REVISIONS

ISSUE		APPROVED BY	INDEX
1992	FIRST EDITION	B.T.E.I.	0
1995		B.T.E.I.	1
1999		B.T.E.I.	2

Note: HOLDERS OF THIS DOCUMENT WISHING TO RECEIVE UPDATES ARE REQUESTED TO CONTACT : S.E.I.

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	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

2.6	Category 8 Packaging of dangerous goods	28
	summary table of packaging categories	29
CHAPTER 3	PROTECTION, PACKAGING AND PACKING OF WORKS OF ART, FURNITURE AND DECORATINGRKS	30
3.1	Concerned materials	30
3.2	Protection of the state of surface - Prepacking	30
3.3	Mechanical protection	30
3.4	Packaging	31
CHAPTER 4 -	GROUPING CRITERIA	32
CHAPTER 5 -	TRANSPORT CASES	32
5.1	Wood cases	32
5.2	Plywood cases	35
5.3	Cases with panels made of particles or fibers	38
5.4	Cardboard cases	38
5.5	Recyclable packaging / technics	39
5.6	Construction of cases	39
5.7	Gripping devices	40
5.8	Treatment of wood	41
CHAPTER 6 -	CONTAMINERIZATION	42
6.1	Physico-chemical protection	42
6.2	Mechanical constraints	42
6.3	Wedging and gripping	42
CHAPTER 7 -	MARKINGS	43
CHAPTER 8 -	VOLUME OF PARCELS	45
CHAPTER 9 -	RECORDING OF EQUIPMENT AND LISTS	46
CHAPTER 10 -	PACKAGING AND ENVIRONMENT	47
CHAPTyer 11 -	QUALITY AND TRACEABILITY	48
APPENDICES:	Glossary	51
	List of standards quoted in this manual	52
	Sketches	54
	Pictograms	62
	General conditons applicable to industrial packaging bearing the S.E.I. trademark	63

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

INDUSTRIAL PACKAGING SPECIFICATIONS S.E.I.

FOREWORD

In the context of the creation of the European Market, the object of these specifications is :

- ◆ to cancel the 1992 edition and its actualized 1995 version;
- ◆ to harmonize all existing packaging and protection specifications in Europe, including SE1 France - HPE Germany - BSI ENGLAND - UN1 ITALY, etc ... ;
- ◆ to establish general conditions applicable to industrial packaging produced by service providers in the Community;
- ◆ to specify, for each type of equipment, the mechanical and physico-chemical protections to be provided according to the conditions of handling, transport and storage;
- ◆ to enable the manufacturers, dispatchers and consignees of this equipment to use the same classifications and recommendations, so as to facilitate the drafting of contracts between parties and their performance;
- ◆ and finally to have these specifications applied whatever the place of origin or destination of the equipment.

Some of the standards referred to in this document will be replaced by CEN standards.

THE SEI TRADE MARK

Instaured by professionals, the SE1 label was created after the second world war 1939 - 1945.

It held an essential role in the technological evolution for the climatic and mechanical protection of materials destined to travel throughout the globe.

This is how originally the Industrial Packaging Technical Office (B.T.E.I.) had been composed of the best technicians and engineers coming from participating companies in order to elaborate the specification techniques necessary to registrate a collective name label recorded by the INDUSTRIAL PROPERTY INSTITUTION.

The use of the SE1 label is accorded to requesting companies provided that they correspond to the conditions set by the SE1 status report.

The holders of the SE1 label have to conform to the general conditions of execution and all specifications as issued by the BTEI, without restrictions or reserves.

Monitoring of the respect of the label specifications in the European Community is performed by the VERITAS agency for all SE1 approved companies.

THE ROLE OF PACKAGING

Users are reminded that the packaging function is an essential link of the logistics chain in the actual distribution of goods.

Because of this, packaging design is to be considered as specialist's issue.

The industrial packer must offer the best possible solution to the problems induced by the logistic circuit imposed at the time of dispatch.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 Pars Oil & Gas Company	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

Protection and packaging take into account the type of transportation (truck, rail, sea, air), of transshipment, of handling, and of storage, in accordance with professional practice. They cannot eliminate the risk of damage by unforeseeable transport, handling, and environmental conditions.

Before deciding on a type of packaging, the industrial packer must gather all the essential informations for its conceptual design (see French standard H00.300 entitled "Assembly of necessary information for the definition of industrial packaging").

This study will take into account:

The product characteristics :

type - shape - dimensions - mass - centre of gravity - vulnerability to mechanical stress and physico-chemical constraints, possibilities of grouping, immobilizing and gripping.

Logistic environmental constraints:

- ◆ handling and transport conditions, equipment lifting , allowable weights and sizes for road and rail vehicles, shipping containers and holds, and aircraft trunks.
- ◆ climatic conditions in countries of destination and of countries crossed during transport.
- ◆ storage conditions.

This information allows the industrial packer to offer the best equation between suitable techniques (physico - chemical and mechanical protection), delays and costs.

Packaging manufactured according to this specification manual benefits from the guarantee offered by the SE1 label, provided that the packaging manufacturer is an approved SE1 label user. (See <<General conditions applicable to packaging bearing the SE1 label>> appendix page 64b).

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CHAPTER 1

STATEMENT OF PRINCIPLES AND RECOMMENDATIONS

*MAKING IT POSSIBLE TO DETERMINE, WITH CERTAINTY THE NATURE OF
THE PROTECTIONS AND PACKAGINGS TO USE ACCORDING TO THE TYPE OF
PRODUCT TO BE PACKAGED*

1.1 PRINCIPLES OF PHYSICO-CHEMICAL PROTECTION

Physico-chemical protection isolates from elements causing deterioration, such as:

- water
- water vapour
- salt air
- pollution of all kinds
- electrolysis phenomenon
- temperature
- sunlight
- pressure and depressure
- micro-organisms
- harmful pests, bugs or rodents
- harmful equipment, materials, and substances nearby, insofar as their presence is reported to the packing company
- radiation of all kinds (static electricity, electromagnetic phenomenon, etc ...)
- etc

The choice of the physico-chemical protection must therefore take into account the two following parameters:

- a. sensitivity of the product to be packaged to deteriorating agents
- b. climatic environment of the product during its handling, transport, and storage.

1.1.1 SENSITIVITY OF SOME PRODUCTS TO CORROSION

Products are vulnerable to chemical deterioration.

This deterioration takes the form of smudging or oxidation that may make the product unusable or alter its properties. This holds true for metallic or metal composed products as well as metal protection type packagings.

Classification of metals in order of decreasing need of protection against corrosion (as per specification US MIL P 116).

- a. Magnesium alloys of all types, bare and alterable
- b. Magnesium, bare and alterable
- c. Steel, iron and all alloys except stainless steel, bare and alterable
- d. Steel, iron, magnesium and alloys except stainless steel, bare and alterable
- e. Steel or iron plated with chromium, nickel, copper, silver or tin, for other than decorative applications
- f. Construction steel (low-alloy, high yield point)

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

- g. Silver, copper, brass, bronze, beryllium, lead, cadmium, zinc, babbitt alloys (tin, antimony, copper) and aluminum alloys (all), bare and alterable
- h. Steel or iron plated with cadmium, zinc, sheet covered with an alloy of tin and lead
- i. Stainless steel, monel metal (nickel, copper) aluminum or titanium alclad, bare and alterable
- j. Silver, copper, bronze, brass, beryllium, lead, babbitt metal, cadmium, tin and aluminum alloys (all), bare and non-alterable
- k. All decorative plating
- l. Stainless steel, monel metal, aluminum or titanium alclad , bare and non-alterable
- m. Painted surfaces

This list should not be regarded as an exhaustive classification intended to compare the corrosion characteristics of metals and alloys. It is simply given in an order, a principle that might be modified, to alert and guide those who are not yet familiarized with the general corrosion characteristics of most common metals in the choice of method protection.

Generally, the closer a material is to the head of the list, the more corrosion protection it will require during storage and transport.

It is therefore important that the customer or the builder of the equipment informs the packaging contractor of the composition of the equipment and the risk incurred.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 Pars Oil & Gas Company	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

IMPORTANT NOTE

STATE OF THE MATERIAL BEFORE THE DELIVERY TO THE PACKER

*EVERY CORROSION SENSITIVE MATERIAL OR PART OF MATERIAL
MUST BE PROTECTED DURING THEIR FABRICATION
BY AN ANTI-CORROSION PRODUCT OR SYSTEM.*

**The packer will not be able to take
the responsibility of the anti-corrosion
if the corrosion sensitive material
is delivered without protection.**

**The principal will have to indicate
if the protection applied is temporary or definitive**

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

1.1.2 CLIMATIC ENVIRONMENT OF THE PRODUCTS

(See planisphere page 16b)

Packaged products may be exposed for variable lengths of time to the climatic conditions for their place of storage or mode of transport.

1. Places of storage or modes of transport
 - a. European conditions
 - b. Maritime and other conditions
 - c. Tropical conditions
2. The duration for which the protection may have to be effective may be :
 - 6 months
 - 12 months
 - or more, under the particular contract worked out.

Packaging types will therefore be chosen according to these two parameters.

1.1.3 IMPLEMENTATION OF PHYSICO-CHEMICAL

Physico-chemical protection may take the form of :

1. contact protection
2. waterproof - rain tightness
3. protection by vapour-tight barrier
4. any other protection against degradation. (see p. 7)

1.1.3.1 a) PROTECTION - CONTACT PROTECTION

Before any contact protection is applied, it is essential for the equipment to be cleaned, i.e. made free of pollution in the form of oil, dust, moisture, oxides, fingerprints, etc.

Contact protection will then be provided, as appropriate, by one of the following products :

- P1** - Corrosion-proof substance leaving a flexible bituminous film after the evaporation of a solvent. To be used only on parts that need not be taken from stock for use.
- P2** - Corrosion-proof substance leaving an oily film after the evaporation of a solvent. Used on machine parts. Compatible with subsequent lubrication. Must be completed by wrapping in grease-proofing materials.
- P18** - Inhibitory element in state vapour, anti-corrosion product for the ferrous metal surface. It can have the following shape: powder, paper, plastic films or impregnated rubber.
- P19** - Corrosion-proof substance leaving an adherent waxy film after the evaporation of a solvent. Used on exposed machined parts. Must be removed by a petroleum solvent before the product is used.
- P20** - Corrosion-proof oil having rust-inhibiting properties in the vapour phase. Used inside closed systems (gear gases, engines, tanks, etc.).

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

This list is not exhaustive: other products may be used where appropriate.

Contact protection may or may not be completed by :

- wrapping in a neutral grease-proof material,
- blanking or covering with waterproof using a self-adhesive fabric, standard MILB 121 or NF H 00.312 entitled “ Waterproof and greaseproof soft and self - adhesive protection materials”,
- waterproof “b Protection”,
- vapourproof “c Protection”.

1.1.3.2 **b) PROTECTION - RAIN-TIGHTNESS, - WATERPROOF**

This protection is applicable each time that:

1. The material is water sensitive but unsensitive to vapour. (hygroscopic materials like the refractories, insulating materials and papers.
2. The material bears a temporary contact protection but this protection does not stand up to rain-tightness.

This protection is got thanks to the realization of a waterproof soldered bag (only for little pieces) or a undehydrated waterproof soldered cover.

The shrinkable covers which allow rain-tightness, without water proofness are comparable to this protection.

1.1.3.3 **c PROTECTION BY VAPOUR-TIGHT BARREER**

This is intended to establish and maintain the humidity inside the vapour-tight envelope below a certain level (5 g of water per m³ at 15°C) during transport and storage.

The moisture may:

- ♦ come from the inserts, staying, padding, stuffing, suspension, damping or other materials,
- ♦ come from the product itself,
- ♦ be present in the enclosure when the envelope is being closed,
- ♦ enter through the walls of the envelope.

The penetration of moisture depends on the permeability of the barrier material to the water vapour, climatic conditions and the duration of the storage.

The type of vapour-tight barriers and the quantity of dessicant will be chosen accordingly.

Nota: To check that the material does not contain humidity inside, by draining and drying up the cooling system.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

A - VAPOUR-TIGHT BARRIER

Vapour-tight barriers are chosen according to the various parameters mentioned above.

The levels of permeability to water vapour are the criterium according to which these barrier materials are chosen.

These levels are stated in grams per square meter per 24 hours at 38°C and 95% relative humidity (tropical laboratory conditions).

Table 1, for example, may be used in choosing between two materials :

- P** - Polyethylene 0.2mm thick, having a permeability to water vapour less than 5 g per square meter per 24 hours, or comparable standard (NF H 00.311-1), intitled "Heat-weldable soft materials. Polyethylene monosheet with a water stream transmission coefficient (P) between 1 g and 4 g/m²/24 hours".
- T** - Heat solderable canvas as per US MIL B 131 or NF H 00.310, intitled "Heat- weldable and soft materials with low water streamtransmission coefficient (P < 0,3 g/m²/24 hours)".

The covers will be sealed without obligation of depression.

TABLE 1

TABLE OF CORRESPONDENCE				
PACKAGING	6 MONTHS	12 MONTHS	24 MONTHS	MEAN CLIMATIC FACTOR
EUROPEAN CONDITIONS	P	P	T	F = 1, 00
MARITIME CONDITIONS AND OTHERS	P	T	T	F = 1, 50
TROPICAL CONDITIONS	T	T	T	F = 2,50

* On option

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

B -DEHYDRATING

a. Definition of the dehydrating

The bag of desiccant must be in conformity with NF H 00.321 .intitled "dehydrating Bag" or DIN 55473 OR US MIL D3464.

The French unit of desiccant is the mass of product capable of adsorbing, at 20°C +/- 3", in the specified moist atmosphere, the following quantities of water:

TABLE 2

MOIST ATMOSPHERE (R.H. IN %)	QUANTITY OF WATER ABSORBED (GRAMES°)
20	60
30	80
40	100

The apparent volume of this unit must be less than 600 cm³. One French unit of desiccant is equivalent to 16 American units.

b. Use of dehydrating

The dehydrating bags are delivered in plastic bags who contain one indicator paper permitting to check all the time their correct state.

- blue paper = correct
- pink paper = bad

These indicators must be all the time in the bag containing the dehydratings.

These bags must be kept closed until the use of the last dehydrating bag.

The bags of desiccant will be immobilized inside the packaging and care shall be taken that they are not in direct contact with the products.

To improve the effectiveness of the desiccant, the bags will be distributed as uniformly as possible inside the vapour-tight envelope.

c. Quantity of dehydrating

Experience shows that there are practically no harmful effects of moisture below 40% R.H. at 15°C, or 5 g of water per m³ of air. To maintain this value, bags of desiccant are placed inside the vapour-tight envelopes.

For storage for very long periods, periodic inspections are mandatory, and the desiccant can be replaced in the course of these inspections. For that the covers with humidity indicator will be used.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

The number of units of desiccant is calculated using the following formula :

$$nU = 0.7 p STF + XK$$

$$\text{Example : pour } p = 0,18 \text{ g/m}^2/24 \text{ h } nU = \frac{S T F}{8} + XK$$

That is to say: 1/8 U per m² for one year in European climatic conditions and one compensation of the wedging moisture.

Where :

- nU** = Is the French number of Units of desiccant to use.
- 0.7** = Is a coefficient applying to the permeability of the barrier materials, reflecting the ratio between actual and laboratory conditions of use.
- P** = Is the permeability of the material expressed in g/m²/24 hours, measured at 38°C and at 95% relative humidity.
- S** = Is the area of the barrier in m²; the area to be used is the inside surface of the first envelope regarded as tight to water vapour emanating from the product.
- T** = Is the period of storage in years.
- F** = Is the climatic factor taken from the appended figure page 16b; the factor to use is the highest encountered in the various regions through which the packaged product is to pass on its way to its ultimate destination.
- K** = Is the mass of hygroscopic insert materials, in Kilograms.
- X** = A coefficient that depends on the type of material:
 - **2** for dry wood (< 20% of humidity).
 - **1** CP < 10% of humidity.
 - **1** for hair felt, cellulose based materials, cardboard and other materials not categorized below.
 - **0,75** for agglomerated fibers (horsehair, synthetic or vegetable fiber, agglomerated with rubber).
 - **0,25** for glass fibers.
 - **0,06** for synthetic foam and rubber.

Note: The wedging material inside the vapour-tight enclosure must be non- hygroscopic insofar as possible, limiting the use of wood.

In some type of vapour-tight packaging, inert or neutral gases may be used.

The life of the protection time begins the day of the definitive delivery of the packaging to the customer and is closed at the end of the contract guarantee.

1.1.3.4 RAIN-TIGHTNESS, VENTILATION

Since condensation is caused by variations in both temperature and relative humidity (internal and external), it is important that outer packaging (protecting products liable to corrosion) should be rain tight and ventilated so as to promote the elimination of internal moisture.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

The body of the packaging, if made of wood without gaps, for categories with protection indices a, b, or c, must be lined with a moisture-resistant impervious material. The cover will be rain-tight. It may be made of :

- plywood, with joints if necessary
- or a wood/polyethylene sheet assembly held by a moisture-resistant plywood or fiber or particle board or any other product resistant to constraints stipulated above (see § 5.2 page 35 et 5.3 page 38).

At least two ventilation surfaces must be provided, one at the top and one at the bottom of the case, in opposed panels, per 10 m³ of case. Their area should be at least 20 cm² each.

The aircraft packagings must be equipped with ventilation surfaces to equalize the pressurization and depressurization.

If the case bottom has open joints, the ventilation surfaces at the bottom of the vertical panels may be eliminated.

An exception will be allowed for small cases (less than 1.50 m³) or cases that are completely filled or stuffed, for which no ventilation opening need be provided.

The ventilation surface must be protected from the rainwater

A fine-mesh screen may be placed over the ventilation surfaces, especially for tropical packaging.

It is important to check that no insert blocks the ventilation surfaces.

If a vapor-phase corrosion inhibitor is used, there must be no ventilation holes.

Some category 4 substances and products, such as glassware, ceramics, steel, stainless metals, etc ..., require no ventilation or lining in the cases.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 Pars Oil & Gas Company
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0 Class:3

CLIMATIC ENVIROMMENT

The packaged materials suffer during very variable lengths of time from the climatic conditions of their mode of transport and site of storage.

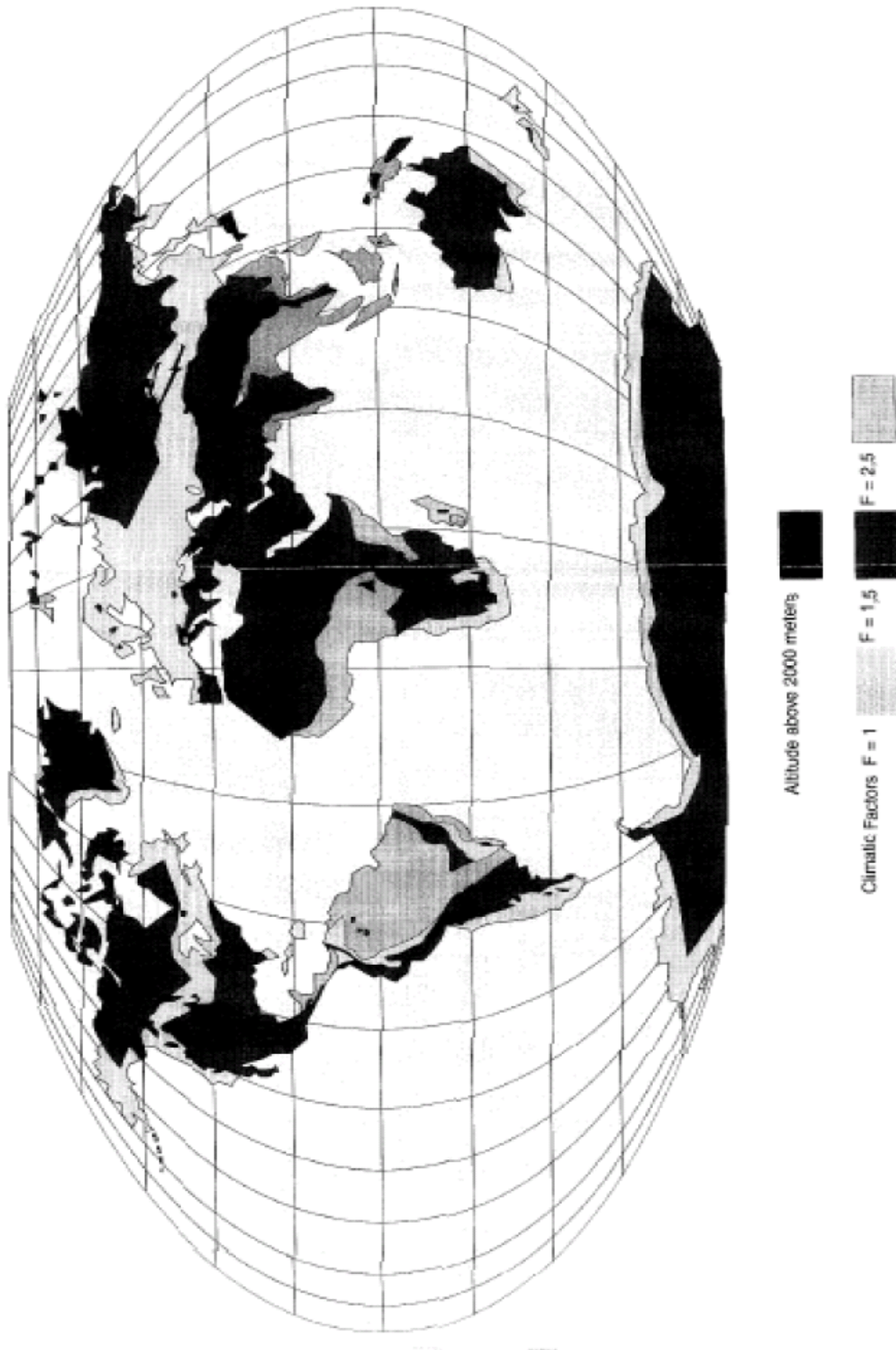
Climate factors were determined to take account of:

- The European conditions,
- The maritime conditions
- The tropical conditions

They are object to graphic representation on the planisphere opposite.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

CLIMATIC PLANISPHERE



	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

1.2 MECHANICAL PROTECTION

The purpose of mechanical protection is to isolate the product from such environmental factors as :

- the compressive stresses of staking
- the bending, torsional and shear stresses caused by staking, handling
- the impacts caused by falls during handling
- vibrations caused by transport. and transport

The choice of method of mechanical protection must be guided by the following three parameters :

- a. vulnerability of the product to mechanical stresses
- b. mechanical environment of the product during handling, transport and storage
- c. unbalance (center of gravity not at center of packaging).

1.2.1 VULNERABILITY OF PRODUCTS TO MECHANICAL STRESSES

This vulnerability may be of various kinds:

- a. Structural (for compression, bending torsional, or shear forces)
- b. Surface (sensitivity to abrasion of exterior coatings)
- c. To impacts and vibrations (resistance to the dynamic stresses caused by falls of the packaging and by vibrations during transport).

1.2.2 MECHANICAL ENVIRONMENT

This depends on the storage, handling and transport equipment used.

- a. During storage, packaging is subjected to vertical stresses during stacking. The packaging is made so as to resist to the forces applied to side panels.
- b. During handling operations, the packaging may fall. The maximum allowable height of the fall is inversely proportional to the weight of the parcel (see table 3 on page 18).
- c. During transport operations, packaging is subjected to vibrations and impacts.

These depend on the means of transport used :

- road
- rail
- sea
- air

and depend on the circuits used.

Vibrations spectra for transport circuits will be analyzed as graphs which will define the range of acceleration in comparison to the variations of the frequency of the vibrations.

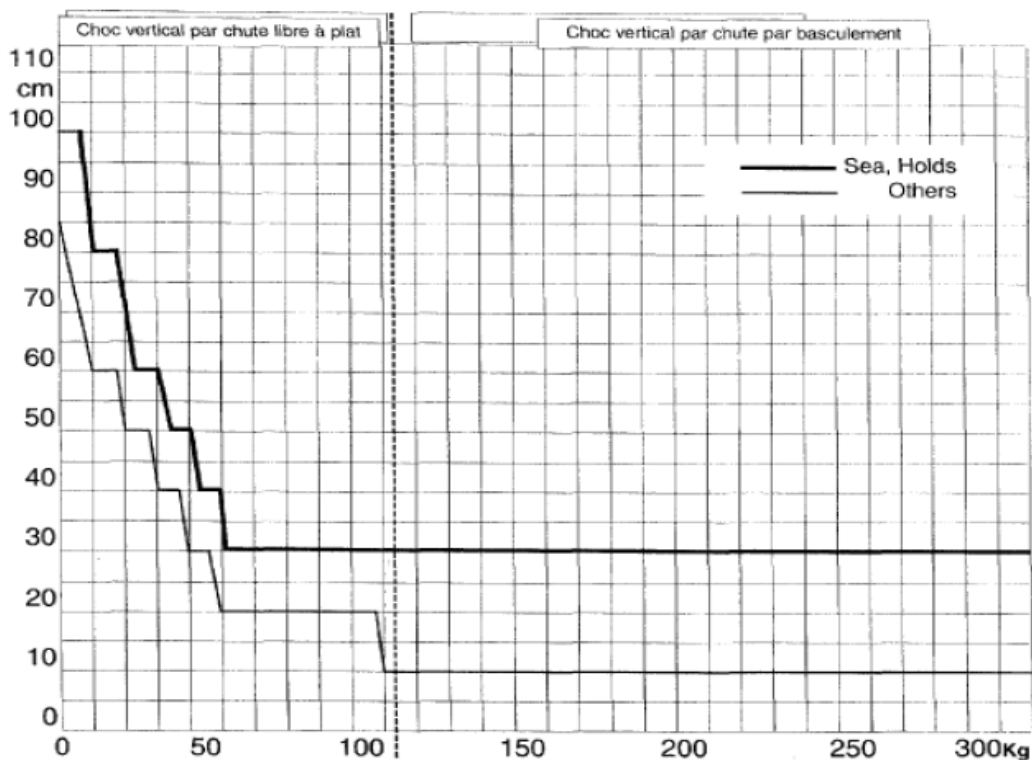
Those graphs depend for each means of transport of the:

- transport conditions (example: bad road or good surface)
- transported goods
- position of the packages in the transport.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

TABLE N° 3

EXAMPLE OF RUNNING RISK ACCORDING TO A TYPE OF TRANSPORT



1.2.3 IMPLEMENTATION OF MECHANICAL PROTECTION

Mechanical protection will therefore be of several orders:

- 1 - Protection by inserts and immobilization
- 2 - Protection against abrasion
- 3 - Protection against impacts and vibrations

1.2.3.1 PROTECTION BY WEDGING AND IMMOBILIZATION

This integrates the product with its container.

Then, the goods will have to be isolated from inner-sides of the crates by wedging in order to make possible, without any damage, for the panels of the crates to warp and to ease ventilations.

Immobilization may be affected by bolting, hooping, inserts, stuffing, etc.

1.2.3.2 PROTECTION FROM ABRASION

This prevents deterioration of the surface by abrasion and grinding.

Packaging and wrapping materials that cannot cause damage in contact with the product will be used.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

1.2.3.3 d PROTECTION FROM IMPACTS AND VIBRATIONS

A - Protection against impacts

It isolates the product from its container by suspension systems.

These systems serve for example, during impacts caused by free-falls, to decrease the acceleration of the product by absorbing the energy of the fall (say by compression of a resilient elastic material).

The materials used will therefore be chosen according to :

- the vulnerability of the product to acceleration
- the height of fall the packaging may have to withstand during storage, handling and transport.

B - Protection against vibrations

It isolates the product from its container by damping systems.

These systems screen out the vibrations caused by means of transport.

These systems are designed to attenuate the levels of vibrations.

Allowance must be made for the relations between :

- the natural frequencies of the products, and
- the natural frequencies of the packaging and of the means of transport used.

Generally, protection against impacts and protection against vibrations is provided by one and the same type of material.

C - Equipment concerned

Equipment which mechanical vulnerability rate cannot be reduced by immobilization wedging and therefore that requires a protection by hanging up or damping.

D - Application

The equipment will be immobilized inside of a support or container through a hanging up or damping system

The damping device will have to be chosen according to the geometrical characteristics of the ware (shape, weight, vulnerability), and to the technical data given by the manufacturer.

The calculated wedging and damping systems **will** be made of elastic materials, plates, blocks, corners, brace, mattresses, rubber cushions, or mechanical device working when in contact with the piece, the support or the internal crate.

Example : see chapter p 21.

1.2.3.4 WEDDING FOR INTERNAL IMMOBILIZATION

To ensure the coherence of the whole, all moving or cantilevered parts inside an item of the product must be immobilized or supported by means provided by the manufacturer.

1.3 MEANS OF CHECKING

Simple device may be fixed to packaging to detect stresses in excess of standards to which it is subjected (impacts, overturning, moisture, temperature).

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CHAPTER 2

CATEGORIES OF PACKAGING

The following categories of packaging have been chosen to allow the immobilization and the gripping of the goods : they lead to the definition of supports or containing elements which will be, according to each case, completed by physico-chemical or mechanical protectional rates.

The previous categories 5 and 6 that concerned protection rates were cancelled and replaced respectively by paragraphs “c Protection” and “d Protection”.

The methods of packaging are codified by adding the categories that define the supports and the containing elements with the protection rates.

The reading is done from the outside of the packaging to the goods.

Example, method “**3 d 4 c a**” corresponds to:

External crate	category	3
+ shockproof absorber	protection	d
+ filled-sided case	category	4
+ dehydrated waterproof	protection	c
+ contact protection on the product	protection	a

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CATEGORY 1

SADDLES AND BASES

2.1.1 PRODUCTS CONCERNED

- ◆ Oversized products that, because free of mechanical and physico-chemical vulnerability, need not be packed in crates.
- ◆ Any other products that is heavy and/or bulky and not very vulnerable.

Types of materials concerned by this category are mostly boiler made materials (columns, reactors, turning machines, condensers, tubes, etc...)

Some of these self-supporting items can be handled by slings, either directly or using existing lifting points.

Where their mechanical strength values make special self-supporting saddles necessary, a special study will be required.

(See sketch n° 1 on page 54)

2.1.2 PHYSICO-CHEMICAL PROTECTION

- 1** - No physico-chemical protection
- 1 a** - All parts vulnerable to corrosion must be protected by the manufacturer, who will in particular take responsibility for draining, rinsing, drying and protecting.
However, on express request, the packer may complete these services.
- 1 b** - Rain-tightness (shrink or stretch film or flexible film).

2.1.3 MECHANICAL PROTECTION

This will be provided by saddles made of wood, metal or possibly some combination of both, attached to the product (in particular by metallic belts).

The floor loading must not exceed 10 T/m².

- 1 d** - Material filed on its base by the mechanical absorbers.

2.1.4 MARKINGS

This will take the form of boards attached to the saddle or to the product.
(See chapter 7 p. 43)

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CATEGORY 2

BUNDLES, PALLETIZATION

2.2.1 PRODUCTS CONCERNED

Products of which the mechanical and/or physico-chemical vulnerability is not such as to require packaging in a crate or case and of which the structure allows grouping.

- ♦ The bundle will be preferred for slender parts having structures not likely to be damaged during normal handling : straight pipes, shapes, framework elements, roughs, etc.
- ♦ Pallets will be preferred for the grouping of small items not vulnerable to crushing (roughs, raw materials in slab form, parts in transport parcels).

(See sketches 2 and 3 on page 54)

2.2.2 PHYSICO-CHEMICAL PROTECTION

- 2 - No physico-chemical protection
- 2 a - All parts vulnerable to corrosion must be protected by the manufacturer, who will in particular take responsibility for draining, rinsing, drying and protecting.
However, on express request, the packer may complete these services.
- 2b - Rain-tightness (shrink or stretch film or flexible film).
- 2c - The protection will allow vapour proofness, made of water tight-barrier with adjunction of a dehydrating.

The ledging parts of the material will be protected to avoid any deterioration of the cover.

The 2c-methods are exclusively for packages on bases grouped in the container or for road transport "door to door" or for storage on site, controlled, without handling or transport. The responsibility of the packer can be set only if he was in charge of the whole operation.

2.2.3 MECHANICAL PROTECTION

2.2.3.1 BUNDLES

This may consist of arrangements such as :

- ♦ straps or iron wire around the product (used for relatively light bundles)
- ♦ U iron or wood sticks joined by nuts and bolts
- ♦ welds, etc.

NOTE : in some cases, this self-supporting product can be handled directly. Some products may necessitate special bundles, for which a special study will be required.

2.2.3.2 PALLETIZATION

Mechanical protection is provided by the platform on the bottom surface; the other surfaces are protected by shrink or stretch films or by binding with plastic or metallic straps.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

- 2d** - Use of pallets or absorbed panels for road transport or containerization without rupture of transport "door to door".

2.2.4 MARKING

This takes the form of boards fixed to the bundles or, in the case of palletization, contained in the plastic film. (See chapter 7 p 43).

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CATEGORY 3

PACKAGING IN CRATES

2.3.1 PRODUCTS CONCERNED

- ◆ Fabricated equipment of which the shape or fragility rules out saddles or bundles
- ◆ Piping, frameworks, wrought sheet and plate
- ◆ Guard rails
- ◆ Mechanical and electrical assemblies.

2.3.2 PHYSICO-CHEMICAL PROTECTION

- 3** - No physico-chemical protection.
- 3a** - All parts vulnerable to corrosion must be protected by the manufacturer, who will in particular take responsibility for the draining, rinsing, drying and protecting.
- 3b** - Protection of the equipment is limited to rain-tightness, provided by making a flexible covering enclosing the part to be protected.
- 3c** - The protection is tight to water vapour and takes the form of vapour-tight barrier in conjunction with a desiccant.
Protruding parts of the product will be covered to eliminate any risk of damage to the envelope.
Method 3c will be used only for packaging on bases for "door-to-door" by container, road transport, or for storage on site without handling or transport.

2.3.3 MECHANICAL PROTECTION

For the categories designated above, the product will be immobilized by inserts appropriate to the nature of the product and fixed to the crate:

- ◆ by the placement of a saddle or frame on the platform of the crate,
 - ◆ or by bearing against surfaces that cannot be bent out of shape.
- 3d** - Direct damping of the ware inside of a crate
- 3d2** - Damping on a dunnage board of the ware inside of the crate.
- 3d3** - External crate with an internal crate suspended in it in which the product is immobilized.
- 3 d 4** - External crate with an internal crate with filled sides. In this internal crate the product is immobilized.

2.3.4 MARKINGS

This will be in the form of boards affixed to the sides of the crates. (See chapter 7 p 43)

Note: The crate opening will be limited at 20 cm when the category 3 is used as external packaging for retail or sea transport without containerization. The option "frame crate" can be chosen for packaging grouped in containers.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CATEGORY 4

PACKAGING IN PACKING CASES

2.4.1 PRODUCTS CONCERNED

Any assembly needing mechanical and possibly physico-chemical protection; the levels of protection applied will allow for the specific sensitivity of the equipment - there are four categories.

Electric motors, electromechanical equipment, motor-reducer sets, control valves, control regulating, monitoring, and measuring cabinets, etc. Any metallic or structural part having sensitive machined surfaces.

2.4.2 PHYSICO-CHEMICAL PROTECTION

- 4 - No physico-chemical protection.
- 4 a - All parts vulnerable to corrosion must be protected by the manufacturer, who will in particular take responsibility for draining, rinsing, drying and protecting.
- 4 b - Rain-tightness (shrink or stretch film or flexible film). For the packing of some hygroscopic products that must neither be dehydrated nor moistened, welded waterproof covers will be used.
- 4 c - The protection is tight to water vapour and takes the form of vapour-tight barrier in conjunction with a desiccant.

Protruding parts of the product will be covered to eliminate any risk of damage to the vapour-tight envelope.

All accessible and corrosion sensitive accessible part must be given a surface protection (grease, rust-proof paint, anti-corrosion film, self-adhesive fabric, etc.), provided by the manufacturer or completed, on request, by the packer. Inaccessible and internal parts must be protected by the manufacturer (draining, rinsing, etc.).

Important: For air transport, it must be kept in mind that the pressure differences between the ground and in flight are such as to impose vapour-tight coverings having an internal volume about one third greater than for conventional packaging.

2.4.3 MECHANICAL PROTECTION

For all methods, the products will be immobilized inside an outer case :

- ♦ either by inserts in the case,
- ♦ or by grouping in internal crates or cases.
- 4 d - Direct damping of the ware inside of the crate with filled sides.
- 4d2 - Damping on dunnage board of the ware inside of the crate with filled sides
- 4d3 - External crate with filled sides, inside of which an internal crate is suspended. Inside of this internal crate the ware is immobilized.
- 4d4 - External crate with filled sides, inside of which an internal crate with filled sides is suspended. Inside of this internal crate the ware is immobilized.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

The external crate is made of unplanned wood with closed joints, of plywood or cardboard.

Note: This type of crate may included some plain panels or reinforcing device for handling operations.

2.4.4 MARKINGS

These will be applied directly to the surface of the case, in weatherproof ink, or on plastic or metal boards affixed to the sides of the case. (See chapter 7 p 42).

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CATEGORY 7 PACKAGING OF REELS

2.5.1 RODUCTS CONCERNED

This category consists of all cables delivered on reels by the supplier.

21.5.2 PHYSICO-CHEMICAL PROTECTION

No corrosion protection is provided for products in this category. Cable ends are protected by the supplier or, on request, by the packer.

2.5.3 MECHANICAL PROTECTION

The product is protected by lagging made of boards with closed joints in plywood, or any other process. Except otherwise stipulated, this work is done by the manufacturer or, on request, by the packer.

Barring exceptions, the product will be dispatched as is.

However, it may be grouped in crates or packing cases and be included in packaging categories N° 3 or 4.

2.5.4 MARKINGS

They will be applied directly to the surfaces, in waterproof ink, or on to moisture-proof panels that will be fixed to the sides of the reels. (See chapter 7 page 43)

CATEGORY 8 PACKAGING OF DANGEROUS GOODS

This category is applied to products classified as <<dangerous goods>>; their nature makes necessary special protection and packaging in accordance with regulations specific to the mode of transport chosen.

Air transport : OACI regulations///IATA code

Sea transport : OM1 regulations///IMDG code

Land transport : CITMD and OCTI regulations///RID and ADR codes

For the protection and packaging of these products, the manufacturer must provide all required information to the packer so that the latter can comply with the various relevant national and international regulations.

Generally, the manufacturer must provide primary packaging in conformity with regulations for his products.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.: D0 Class: 3

SUMMARY TABLE OF PACKAGING CATEGORIES					
EQUIPMENT CONCERNED	PACKAGING CATEGORY	PROTECTION			
		PHYSICO-CHEMICAL			MECHANICAL
		a Contact protection Chapter 1.1.3.1	b Rain-tightness Chapter 1.1.3.2	c Vapour- tightness Chapter 1.1.3.3	d Contact and vibration protection Chapter 1.2.3.3
Examples	Chapter 2				
Large fabricated vessels, Columns, reactors, Condensers, etc...	1- SADDLES AND BASES				
Straight piping, Frame parts, Shapes, etc...	2- BUNDLES - PALETTISATION				
Machine-welded assembly, Frame works Electrical equipment Mechanical equipment Small fabricated vessels, Piping, ect...	3- CRATES				
Electrical motors Motor reduciors Glass Data processing equipment, Automation etc...	4- PACKING CASES				
Reels of cable	7- PACKAGING OF REELS	external staving with plank, plywood, etc...			
Dangerous materials	8- PACKAGING OF DANGEROUS MATERIALS	according to regulation (AIR: IATA, SEA: IMDG, LAND: RID 1 ADR)			

KEY:

 TO DO IMPERATIVELY

Technical definitions: see pages 21 to 29
Sketchs of packaging: see appendix pages 54 and the following one, sketches n° 1 to 15

CODIFICATION

1 Packaging category

a Type of protection
Nota: The codification is made from external to internal

EXEMPLE NON LIMITATIF DE CODIFICATION D'UN EMBALLAGE

3	d	4	c	a
outer crate	damping anti-shocks	inner packing case	dehydrated sealed cover	contact protection

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CHAPTER 3

PROTECTION, PACKAGING AND PACKING OF WORKS OF ART, FURNITURE AND DECORATING

3.1 Concerned materials

Furnituring, decorating, antiques, paintings, sculptures, works of art.

Traditional methods are still used but the application of new materials will bring more safety and cleanness.

3.2 Protection of the state of surface - prepacking

The previous packaging will take account of the vulnerability of the surface of the goods.

Will be used:

- ◆ Silk-paper wrapping, muslin paper, cotton cellulose, polyethylene foam, paper, polyethylene, etc. ...
- ◆ Thick wrappings helping to avoid stamping and dividing the constraints as: expanded polyethylene, alveolar polyethylene (bubbles), crimped paper, simple-sided cardboard, wrapped woodfiber, etc ...

The grouping of the goods will be eased by using unitary packaging made of corrugated cardboard or by packing them with kraft paper, strengthened paper, hessian or plastic strip.

3.3 Mechanical protection

The protections to be set to allow a good conservation of the furniture and works of art during their transport are inherent to the material, the shape, the weight and the constitution of those objects, and will have to be prepared unitarily.

3.3.1 Seats, armchairs, sofas, furniture

After protecting the surface, those goods will be packed by stamping, wrapping or any other adapted means. This work will be carried out with appropriate materials or any other technique adapted to the furniture having to be protected. In the case of some particularly vulnerable and delicate furniture, they can be packed in rubber, forming a protecting case. The wedging will have to isolate the contact of the legs from the inner sides of the packaging.

3.3.2 Framing of the mirrors, looking glasses, pier glasses

They will be protected by a stamping of adequate thickness and shape so that a uniform aspect in "square" protects bosses and ledges. The glass parts will carry adhesive tape in order to avoid, in case of damage, that the breaks damage the parts under the glass. The adhesive tapes will not be set on the frame so that any degradation of the state of surface of this varnished, gilded or waxed frame is avoided.

3.3.3 Small or medium-sized objects of diverse shapes and materials

They will be prepared as parallelepipedal packages carried out with appropriate materials.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

3.3.4 Particularly delicate, asymmetrical objects

Polyethylene rubber or any other similar materials will be used so that they have a parallelepipedal shape.

3.3.5 Paintings on a frame

To isolate the canvas, one can either make packets or packages, or set bars on the frame, making the wedging of the goods easier.

3.3.6 Framed paintings

The protection of the frames will be done by thickness stamping and with an appropriate shape, in order to protect any moulding, boss, and ledge. The canvas will have to be without contact to the packaging.

3.3.7 Paintings of high value

The use of individual basins, in which the painting will be protected with appropriate materials, can be thought of and recommended.

3.3.8 Statues and sculptures

The size of the piece of art (weight, dimensions, shapes, material) must be taken into consideration in order to choose the best method. Pieces of medium dimension can be packaged as geometrical packages, in order to protect the leading parts. For bigger pieces, the packaging will be carried out directly in the containing element (crate) by wedging the big parts with pieces of wood covered by felt, foam, moss, etc ...

3.3.9 Crystal lusters, glassworks, pendants, etc ...

After protecting the elements, they will be suspended and firmly hung in their contents and will be then packed with the more appropriate materials. The pendants, crystal etc ... will have to bear a cover to make them stick to their support.

To make the handling of the objects of § 3.3.6 and 3.3.7 easier, it is recommended to avoid the setting of bars and the wedging in the contents.

3.4 PACKAGING

- ♦ For handling, transport or long-time storage, the packaging will protect the good from shocks and vibrations.
- ♦ According to the cases, transported by air, sea, or land, the content as a wooden or plywood crate, or cardboard crate, will be manufactured at the wished dimensions, furnished with barrier materials, the whole of it having to correspond to the standards required by the recommendations in the "Packaging methods board".
- ♦ Some use will require to examine the reusable packaging which wedging will be adapted to the shape of the objects and will be unloosable. The closings and the openings of those packaging are maneuverable without special means.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CHAPTER 4

GROUPING CRITERIA

The previous categories correspond to protection and packaging methods offering a set of protections specified in chapter II page 21

These arrangements are made to protect a part or set of parts; they constitute an elementary packaging or level of protection.

Elementary packaging units may be grouped to facilitate transport, handling and storage defined by a category and by a protection as well.

Example : Parts may be protected according to category 4c (vapour-tight barrier + desiccant + cardboard box) and this set of cardboard boxes is then grouped in a transport case (category 4).

CHAPTER 5

TRANSPORT CASES

5.1 WOOD CASES

5.1.1 GRADES OF PACKAGING WOOD

The grade of wood used for industrial packaging is based on the specifications of the converted timber regularly available from European softwood sawmills.

The following will be used (See table nos) :

- ♦ Grade **P I** : Frame or structure -for loading-bearing elements
- ♦ Grade **P2** : Cases, shuttering -for non-load-bearing elements
- ♦ Grades **OB** : Fine woodworking -can be planed
- ♦ and grade **1** : Ordinary woodworking -special frameworks

are used only for special packaging in which appearance or mechanical properties are of critical importance.

Measurement of knots.

Given the mechanical strength required, knots are measured perpendicularly to the centerline.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

TABLE 5

MINIMAL DEMANDS

CRITERIA	GRADE P 1	GRADE P 2
knots	On both faces, knots are measured according to prEN 1310, article 4.1.2. There are not taken into account on the edges. The knots < 10 mm are not taken into account. Grouped knots have to be considered as individual knots.	
tight, partly tight or dead knot	≤ 33% of the width of the piece	≤ 60% of the width of the piece
loose knot	≤ 20 mm	≤ 30 mm
rotten knot	≤ 20 mm	≤ 30 mm
double knot	Allowed	Allowed
exposed heart	Allowed on one side	Allowed on one side
unexposed heart	Allowed	Allowed
splits	Splits are taken into account on the ends, the sides and the edges. They have to be measured according to prEN 1310	
split on the side	Allowed ¹⁾	Allowed ¹⁾
double split (in the planks)	1 split on the plank ≤ 1 width of the plank	1 split on the plank ≤ 2 width of the plank
double split (in rafters and dice)	Not allowed	Not allowed
pocket of resin	Allowed on one side only	Allowed on one side only
inbark	Not allowed	Not allowed
bluishing	See ²⁾	See ²⁾
biological deterioration except the bluishing	Not allowed	Not allowed
active insect stings	Not allowed	Not allowed
unactive insect stings	Allowed until 5 holes of diameter ≤ 3 mm	Allowed until 5 holes of diameter ≤ 3 mm
wanes (without bark)³⁾	waned are measured according to prEN 1310, article 4.8.	
	Allowed until 33% of the thickness if ≤ 25% of the length of the piece, allowed on both edges of a face and ≤ 10mm at each edge.	Allowed until 50% of the thickness if ≤ 30% of the length of the piece, allowed on both edges of a face and ≤ 20mm at each edge.
1) Except where the nailing down was done (see corresponding standards of the product). 2) Mechanical properties are not modified by the bluishing. The bluishing can be avoided by braising process or other means. 3) Square wood can be defined in the standards of the products or in the contracts.		

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

5.1.2.1 THICKNESS OF WOOD

The thickness of the boards and battens used will depend on the dimensions of the cases, the weight and type of product to package and its inserts.

With allowance for these parameters, the thickness will be as follows :

TABLE 6

NET WEIGHT OF THE PRODUCT	THICKNESS OF PANEL BEFORE PLANING	THICKNESS OF BATTENS BEFORE PLANING
Until 500 kg	18 to 22 mm	18 to 22 mm
From 500 kg to 2 t	18 to 22 mm	22 to 25 mm
From 2 t to 5 t	22 to 25 mm	25 to 32 mm
From 5 t to 10 t	25 mm	25-32 mm or 38 mm
From 10 t to 15 t	25 or 32 mm	32 or 38 mm
From 15 t and beyond	32 or 38 mm	38 mm

Remark : Commercially available wood on the French market has a tolerance of +/- 2 mm, and planing, if the customer requests it, also removes 2 mm, giving true thickness slightly less than the values stated above.

Note: All cutting up of structure wood with a length < 7 m will have to be in one piece.

5.1.2.2 DIMENSIONS OF SAWN TIMBER

The dimensions are measured according to the following **standards**:

NF EN 1309-1 : Round and sawn wood. Measure method.

Part 1 : sawn wood

NF EN 1313-1 : Round and sawn wood allowed tolerances and preferential dimensions.

Part 1 : Resinous sawn wood (replace b 53-100, July 1998).

The normal lengths are in 0.50 - or 0.25 m increments from 1.50 m to 8 m.

Note : To obtain the thickness at 20% moisture specified by the standard, the fresh wood must be cut oversize.

For example: the thickness of 25, 38 and 50 mm at 20% moisture are usually sawn to 27, 41 and 54 mm respectively.

The width of the decorating planks will have to be over 100 mm.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

TABLE 7

PREFERENTIAL DIMENSIONS ACCORDING TO STANDARD prEN 12248

REFERENCE SECTION									
THICKNESS (mm)	WITH (mm)								
	75	100	125	150	175	200	225	250	300
16	x	x							
18	x	x	x	x					
22	x	x	x	x		x			
25	x	x	x	x	x	x			
32	x	x	x	x					
38	x	x	x	x	x	x	x	x	x
50	x	x	x	x	x	x	x	x	x
63	x	x	x	x	x	x	x		
75	x	x	x	x	x	x	x	x	x
100	x	x		x		x	x	x	x

Note: Other dimensions are utilisable with national standard.

5.2 POLYWOOD CASES

5.2.1 CLEATED PLYWOOD CASES

Plywood panels are increasingly used in industrial packaging. They have the following advantages :

- ◆ Lighter packaging
- ◆ More compact
- ◆ Resistant to diagonal forces
- ◆ Impermeability
- ◆ Ease of use.

Since the design of plywood cases is different from that of cases made of sawn wood, the structure of plywood cases should be designed according to :

- ◆ The mass and volume of the products
- ◆ The nature of the inserts
- ◆ The thickness of the plywood
- ◆ The number of plies.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

According to these conditions, the following thicknesses are indicated for guidance :

TABLE 8

PREFERENTIAL DIMENSIONS

NET WEIGHT OF THE PRODUCT	THICKNESS OF PANEL	THICKNESS OF BATTENS
Until 500 kg	> to 6 mm	> 18 mm
From 500 kg to 2 t	> to 10 mm	> 22 mm
From 2 t à 5 t	> to 10 mm	> 25 mm
From 5 t à 15 t	> to 12 mm	> 38 mm
over 15 t	> to 15 mm	> 38 mm

The glues used in making the plywood must be moisture-resistant.

The plywood may be given further treatment to make it resistant to fungi, insects, and termites, i.e. fungicide and insecticide treatments, required for some types of container.

The plywood, made at high temperature, have not to undergo any curative treatment. In case of traditional packaging, the assembling of the panels must be imperatively done through bars or join-covers.

TABLE 9

THICKNESS AND DIMENSIONS

NOMINAL	TOLERANCES	MINIMUM NUMBER OF PLIES
10	8,7 to 10 mm	3
12	11,1 to 12,5 mm	5
15	14,3 to 15,8 mm	5
18	17,5 to 19 mm	7

5.2.2 PREFABRICATED CASES IN PLYWOOD PANELS

The plying plywood cases are often used and have the following advantages :

- ♦ Low weight
- ♦ Maximum volume usable
- ♦ High resistance to falls
- ♦ Low glut storage
- ♦ Reduced recycling as the used components are of low volume
- ♦ General tolerances are narrowed in comparison to solid wood

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

The materials used are most of the time:

- ◆ Birch wood
- ◆ Poplar wood
- ◆ Eucalyptus plywood
- ◆ Resinous plywood

The thicknesses used are generally between 5 and 10 mm with a number 01 plies between 3 and 7 according to the quality of packaging.

The sticking will have to be of grades ii or III

The plying cases is put together with steel bars fastened or riveted in the plywood or in metal, tissue or plastic hinges. the obtained hardness is all the higher as the assembling is resisting along the tides.

The used poils and the construction of plywood influence the characteristics of the cases.

The plying plywood packaging offers equally a very high resistance to static loads (piling). For the more than 30 kg loads, the packaging are provided with pallets or bottom-pallets added as a result of study.

STANDARDS AND CLASSIFICATION OF THE PLYWOOD

One will have to try and stick to the following standards :

EUROPEAN

- EN 315 : Plywood - Dimension tolerances.
- EN 314-1 and 2 : Plywood - Quality of the sticking
 - Part 1 : Test metod
 - Part 2 : Requirements
 - Grade II semi-external
 - Grade III external.

FRENCH :

- AFNOR NF B 54-154 : Plywood with plied - Type of sticking
 - Definition - Tests - Qualification.
- AFNOR NF B 54.160 : plywood with plies (general use)
 - Dimensional - Characteristics of the panels.
- AFNOR NF EN 635 - 1,2 and 3 (old norms NF B 54-170 -1 and 2)
 - Plywood - Classification according to the aspect of the sides

ENGLISH:

- BRITISH STANDARDS BS 6566 : Sticking WBP or MR
- BRITISH STANDARDS BS 6566 - Class II

GERMAN :

- DIN 63705

AMERICAN :

- APA PS 1.83
- APA PS 1.83 - Grade C-D GROUP 1

RUSSIAN :

- RGOST AO.55.71 : Russian birchwood panel

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

5.3 CASES WITH PANELS MADE OF PARTICLES OR FIBERS

The use of woodpanels is allowed.

The OSB panels will have to correspond to the standards for mechanical resistance and those for moisture resistance.

The thickness that will have to be taken into account will be as a minimum of the advised for plywood cases.

The conception of the cases will be identical to the conception of plywood cases.

The use of fiber panels will not be used to produce covers for tropical packaging cases. Risks of moisture will have to be taken into account in order to choose or not moisture resisting panels.

STANDARDIZATION

- OSB :
 - NF EN 300: Panels with thin, long and orientated sheets (OSB) Definitions, classifications and requirements. OSB/3 and OSB/4
- FIBERS
 - NF EN 310: Wood panels. Determination of the elasticity module in flexion and flexion resistance.
 - NF EN 317 : Panels with particules and fibers panels. Determination of the swelling in thickness after water immersion.
 - NF EN 322 : Wood panels. Determination of the moisture.
 - NF EN 323 : Wood panels. Determination of the density.
 - NF EN 324 :Wood panels. Determination of the dimension of the panels
 - Part 1 : Determination of the thickness, width and length
 - Part 2 : Determination of the square and os the rectitude of the edges.

5.4 CARDBOARD CASES

This consists essentially of two-layer or three-layer cardboard.

Several grades may be used, depending on the volumes and net weights of the products to be packaged.

These grades are measured in "kg" or in "tests", which are indices of dynamic perforation and vertical compression.

Some cardboards are "moisture resistant".

The cardboard packaging is reserved for packaging that is not in contact with moisture, for elementary packaging put together then in wood cases or packaging for deliveries "Door to Door" in a lorry or a sea container, without breaking of load, or air transport without outside storage.

Example of boxes :

- Cardboard boxes, two or three layer, with wooden battens ("wrap around")

Sketch 11 in appendix on page 52

Assembly made of cardboard and wood.

The prefolded cardboard, in a single piece, forms the sides, bottom, and cover. Assembly is done by stapling the corners with wooden battens.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

The wood must must have a splitting capacity of maximum 22%.

Cardboard boxes, two or three layer, on wooden pallets.

Sketch 12 in appendix on page 52.

The body is made of a prefolded skirt, all cardboard, that may have a bottom with flaps.

The assembly is stapled or hooped to a wooden pallet and covered (before hooping) with a stapled prefolded cardboard cover.

See document FEFCO : "International code for Cardboard Packaging" available at :

37, rue d'Amsterdam - 75008 Paris

Tel : (33) 01 53 20 60 80 - Fax (33) 01 42 82 97 07

STANDARDIZATION:

- ◆ NF H 13 - 000: Cardboard packaging. Vocabulary.
- ◆ NF Q 12 - 008: Cardboard and paper. Corrugated cardboard.
Characteristics of the corrugated cardboard with simple and double slots for packing.
- ◆ NF Q 12 - 009: Cardboard and paper. corrugated cardboard.
Characteristics of the corrugated cardboard with a triple slot for packing.

5.5 RECYCLABLE PACKAGING / TECHNICS

In some cases, the packaging may be reusable and is designed to provide full protection during the logistical cycles to which the products contained will be exposed.

These containers incorporate all necessary protection and are generally designed for a specific use.

Internally, they may have general-purpose or specific inserts, or damping systems.

Externally, they include all accessories and markings necessary for their logistical functions.

Tightness is provided by the very nature of the rigid envelope and the joint plane.

According to the degree of protection required, the envelope may be :

- ◆ plywood panels,
- ◆ laminated polyester, polyethylene, ABS or other plastic,
- ◆ metallic panels,
- ◆ cardboard.

The packaging will have to product and according to a technical specification of the needs. They generally have to have a previous qualification.

5.6 CONSTRUCTION OF CASES

Among the types of packaging, several types of cases, each having its own design features, are distinguished.

For each type, it is possible to distinguish various ways of production, which will depend on the characteristics of the product to be packaged and how it is handled, transported and stored.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

Three main classes of cases are distinguished :

1 - Platform or bell case (sketch 6 in appendix, page 55).

Making it possible to position, protect and immobilize the product on the platform before the panels are assembled.

2 - Assembled cases (sketch 8 in appendix page 55).

The panels are assembled before the packaging operation.

3 - Special cases (sketch 14 in appendix page 56).

Folding, take-down and other packing cases.

Barring special waivers, all platform or case bottoms will have seals to facilitate handling. Their positions and dimensions must comply with AFNOR standard H 20.008 Gripping device (see § 5.7 under mentioned).

See table and sketch in appendix pages 54 to 56 in appendix .

Slinging structures will take account of the gross mass and will be positioned according to the centre of gravity.

- ♦ All cases exceeding 5 T gross mass will have iron angles at their slinging points.
- ♦ To avoid the wrenching of side panels during handling by fork-lift truck, when the said panels are fitted, their bottoms should be raised 5 to 10 mm above the bottom of the platform.

5.7 GRIPPING DEVICES

DIMENSIONS

GROSS MASS OF PACKAGING	DEVICES	
	HEIGHT (mm)	WIDTH
From 100 kg à 5 t From 5 t à 15 t over 15 t	> 95 > 120 > 140	in all cases the width shall be at least equal to the eight

According to standard NF H 20-008 : Gripping devices for individually handled packaging to be sent.

The packaging devices shall not be of a piling of more than two elements. Their breadth will be at least equal to their height.

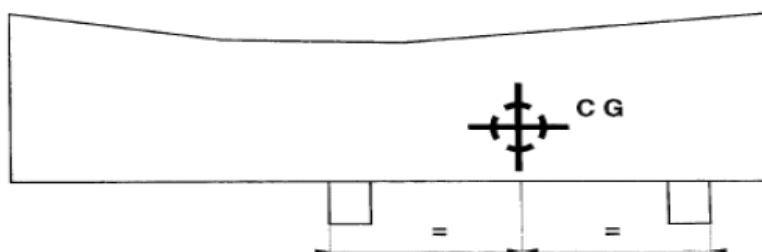
ARRANGEMENT

An opening for slings, of at least 90 mm, shall be provided at each end of the largest dimension of the packaging. (See note below)

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 Pars Oil & Gas Company	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

- ◆ For packaging having a mass of less than 2T and a length of 980 mm or more, or having a mass of more than 2T and a length between 980 mm and 1.190 mm the distance between the gripping devices must be at least 590 mm. (transpallets).
- ◆ For packaging having a mass of more 2T and a length of 1.190 or more, the distance between the gripping devices must be at least 800 mm.

When the centre of gravity is more than 20% of the dimensions of the parcel from the centre of the length of the parcel, the gripping devices must be arranged accordingly (sketch below).



Note: Those conditions are not compulsorily applicable to the pallets-cases.

5.8 TREATMENT OF WOOD

The use of sawn wood packaging materials is subject to regulations and requirements in some countries.

For example :

- ◆ Australia and New Zeland strictly require curative treatments and the presentation of the corresponding phyto-medical certificates.
- ◆ The United States of America and some tropical countries require a preventive treatment for which a certificate must be provided.

When in doubt, it is wiser to question the customer or to ask the official representatives of the countries in question for confirmation.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CHAPTER 6 CONTAINERIZATION

This concept of filling containers does not involve an industrial packaging method the way it has been defined in the previous categories, but a complementary way of packing, handling, transporting and buckling goods.

The container, for air or sea freight, is not to be considered a packaging but most of all an auxiliary means of handling products for the service of a transit agent, or shipping company, doing only the haulage therefore not responsible for the wedging of the ware.

6.1 PHYSICO-CHEMICAL PROTECTION

The container is not waterproof. There is a high risk of internal condensation due either to the ware itself or to the temperature variations.

It is therefore crucial to elevate any carton packages off the floor of the container in order to avoid water damage (for example : putting packages on pallets inside the Container).

A physico-chemical protection is essential for all corrosion sensitive goods.

6.2 MECHANICAL CONSTRAINTS

The mechanical constraints for general use closed containers (GP or DRY) are of a different nature (height of piles being limited inside the containers), the crates or the contents of the ware can be of lighter structure under the condition that the container be forwarded directly from the sender to the consignee, "Door to Door".

When the route is not direct, the cases must be accorded to the usual standards.

6.3 WEDGING AND GRIPPING

The packer being responsible for the stowing inside of the container, he has to take all necessary precautions so that the crates of goods are wedged and the proper stowing carried out.

He should keep in mind the maximum weight allowed for the goods, their proper adjustment and the centre of gravity of the container. The wedging can be carried out by nailing blocks of wood on the bottom or on the vertical sides of the container.

The container is lifted with staps, iron ribbons, cables or chains with adjusters and hooking to the stowing rings existing on the container. The ISO standards (containers) impose external dimensions, Therefore it is very important, in either case, to be in contact with the transporters or the forwarding agents in order to know the tight dimensions, because they are different from one container to one another.

See tables and drawings on pages 57 to 61.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

7.2 SPECIAL CONDITIONS

a/ Climatic conditions :

The packaging, in a vapour-tight barrier, will be marked, in English always, in black ink on the cover:

“EQUIPMENT IN VAPOR-TIGHT ENCLOSURE - DO NOT OPEN.”

b/ Dangerous substances :

Couply with the legislation in force.

Nota : APPLICATION OF THE EUROPEAN STANDARD NF EN 20780/ISO 780 Packagings. Pictograms about the handling of goods. (see pages 62-63).

PICTOGRAM 1: is0 7000/n° 0621	To use only for breakable goods
PICTOGRAM 2: is0 7000/n° 0622	To use only for packaged material in shape of balls.
PICTOGRAM 3: is0 7000/n° 0623	Must be used when the reference position of the packaging is not obvious.
PICTOGRAM 7: is0 7000/n° 0626	To use only when the packaging cannot withstand bad weather. For instance : the cardboard packaging for “door-to door” or air forwarding.
PICTOGRAM 8: is0 7000/n° 0627	To use only when the centre of gravity of the packaging is carried off more than 20% of the geometrical axis.
PICTOGRAM 11 : is0 7000/n° 0630	This pictogram can be stretched to the limits of the number of the piled packages.
PICTOGRAM 13: is0 7000/n° 0632	This pictogram allows to show the limits of mini, maxi, or mini and maxi temperature.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CHAPTER 8

VOLUME OF PARCELS

Manufacturers must take into consideration the gauge requirements of means of transport and transit in the states and countries in which the packaged equipment is transported.

For European road transport, the usual gauge is :

- ◆ Total train length : 15.50 m
- ◆ Overall width : 2.50 m
- ◆ Overall height : 4.00 m

For sea transport, containers comply with ISO standards. (see sketch in appendix pages 57 to 61).

For air transport, the dimensions of parcels must take account of the type of aircraft.

Possibility of containers or pallets. '(see sketch in appendix page 58).

For rail transport, gauge specific to each country.

For river transport increasingly used for oversized loads.

In all cases, oversized loads, whatever the mode of transport, necessitate a special study.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

CHAPTER 9

RECORDING OF EQUIPMENT AND LISTS

The packaging operations are performed by the packer on the basis of the data provided by the manufacturers and the carriers (consignment note, delivery voucher, list).

This information must enable the packer to identify the equipment without possessing any special technical knowledge. Because of this, the manufacturer's identifications must be correctly fixed to each item and must rigorously match the information in the notes.

The packer's check of quantities is applied only to equipment that are counted under normal working conditions.

If pre-packaged parts are delivered, the packer's check can only be of the pre-packaging units, the numbers of which must be clearly stated on the delivery vouchers.

The check of the appearance of the visible parts of equipment (for scratches, deformation, breakage, traces of impacts, traces of oxidation) will be performed when it is taken in charge.

The packer *is* required to communicate to the manufacturer the contents of each parcel.

At the manufacturer's request, the packer may prepare the parcel vouchers and packing list :

- ◆ either on forms supplied by the manufacturer
- ◆ or on neutral forms.

For each parcel, the identifications, the destination of the equipment, and the weights and dimensions must be recorded.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

CHAPTER 10

PACKAGING AND ENVIRONMENT

10.1 WASTE

The word “waste” meaning “all residuous in the course of a production, a transformation or utilization, all substance, material or good bound to be left away”.

In the case of an industrial packaging we find :

- ♦ fabrication falls,
- ♦ materials for unusable packaging,
- ♦ packaging materials coming from unpacking,
- ♦ broken or unusable goods, etc ...

10.2 DOCUMENTS

Act n° 75633 of July 15 1975 concerning waste disposal and material recovery.

Decree n° 94609 of 13 July 1994 concerning waste and material recovery and also package waste where the holders are not the families.

The directive 94/62/CE of the European Parliament and council of 20 December 1994 concerning packaging and packaging waste.

Decree n° 98638 of July 1998 taking into account the requirements tied to environment in the creation and fabrication of the packages (J.O. of 25 July 1998).

These documents are available upon request at S.E.I.

10.3 APPLICATION

Contrary to household package waste that have to be treated by the municipality and that the cost of recycling are taken care of by the packaging manufacturer, the same operation concerning industrial packaging are taken care of by the last user that abandons them.

The same is true for waste coming from the maters of the packages.

The only authorized way of elimination for the package wastes are :

- ♦ the reutilization
- ♦ recycling
- ♦ energetic valorisation

Keeping in mind the different ways of valorization, the Decree does not require a systematic sorting of package, but it is interesting to negotiate some waste of value by sorting them before the collection by spevilinear companies.

It is each person's duty to settle a contract with the collector companies or directly with the recycling companies, holders of waste having to justify the valorization of their packaging waste to the state agents.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

Holders that produce a weekly volume inferior to 1.13 m3 of package waste are not subject to this obligation, since it will be the responsibility of the community in charge of removing household waste.

In practice, a municipality that increases the value of the waste, can take charge of the package waste of a bigger volume as any other recycling organization, upon approval of these valorisations.

10.4 OBLIGATIONS

Article 2 of the French decree stipulate that :

The only authorized ways to eliminate packaging waste (defined earlier) are :

Valorisation by the re-employment, recycling or any other means aimed at achieving reusable material or energy.

The holders of packaging waste (defined earlier) should :

- a/ either initiate their own valorization in an approved area,
- b/ either give away the exploitational contract of an approved area under the same conditions,
- c/ or give away by contract to a recognized intermediary insuring a transport, trading or waste brokerage activity.

CHAPTER 11

QUALITY - TRACE ABILITY

11.1 QUALITY

11.1.1 GENERAL PHILOSOPHY

Concerning the quality of provisions accomplished, the first responsibility falls on to the personnel to whom the job is confined.

Obtaining quality is through good management on all levels thanks to a proper analysis of duties to be accomplished and good appropriation with strict application of the specifications.

The definition of necessary competence, the choice and the training of the suitable personnel, use of adequate material are important criteria essential for achieving quality.

The quality procedures should enable to verify that each provision has been carried out satisfactorily and that the safety measures have been taken. As a result, they have to have a documented proof that the quality required has been obtained.

11.1.2 PROCEDURES AND INSTRUCTIONS

The organization of the quality must be done through. formalization of orders including the organization procedures, technical specifications and all instructions necessary to the realization of the provisions

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

11.2 TRACEABILITY

PACKAGES				
CUSTOMER PART NUMBER:				
RESERVED TO THE DESCRIPTION OF THE CONTENT FOR 1 - 2 - 3 - 4 CATEGORIES				
PACKAGING				
CATEGORY	PHYSICO-CHEMICAL PROTECTION			MECHANICAL PROTECTION
	a	b	c	d
SELF-CONTROL				
Types of control	in accordance	Types of control	in accordance	
Deck (Robust conception)		Cover (umbrella)		
Over elevation of The panels		Waterproof cover		
Brace - Corner iron		Dehydrating		
		Quantity:		
Crate fitting		Markings		
Waterproof qualities of the cover		Centre of gravity		
Holes of ventilation		LOGO S.E.I.		
Absorption		Marking of the cover (take the inscription in English)		
Protection against contacts				
DATE: SIGNATURE:				OK ☐ NO ☐

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

ANNEXES

GLOSSARY
 LIST OF STANDARDS QUOTED IN THIS MANUAL
 SKETCHES
 PICTOGRAMS
 GENERAL CONDITIONS APPLICABLE TO INDUSTRIAL
 PACKAGING BEARING THE S.E.I. TRADEMARK

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

LEXIQUE				
ENGLISH	FRENCH	Mark	Page	Sketches
Angle iron	Cornière	N-P	55	9
Batten	Barre	G	55	6
Belt	Ceinture	A	54	1
Bottom	Fond	I	55	6
Bracket	Équerre	O	55	7
Bundle	Fardeau		54	2
Cleated	Barre à l'anglaise		55	8
Crate	Claire-voie		54	4
Cross lath	Écharpe	U	54	5
End	Bout	M	55	6
Film	Film	C	54	3
Folding	Pliante		56	14
Fork opening	Passage de fourches		54	3
Frame crate	Harasse		54	5
Grouping	Unitisation		54	3
Lagging	Douage		54	3
Lid	Couvercle	F	55	6
Longitudinal member		J	55	6
Pallet	Palette	D	54	3
Platform	Cloche		55	4
Prop	Chandelle	Q	54	9
Reel	Touret		56	15
Rib	Ame ou Écrasement	R	55	9
Saddle	Berceau		54	1
Side	Côté	H	55	6
Sill	Semelle	K	55	6
Skid	Skid	S	55	9
Spacer	Entretoise	L	55	6
Strap	Feuillard	B	54	3
Structure	Structure	J-L	55	6

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

LISTE OF STANDARDS QUOTED IN THIS BOOK BY ORDER OF APPEARANCE

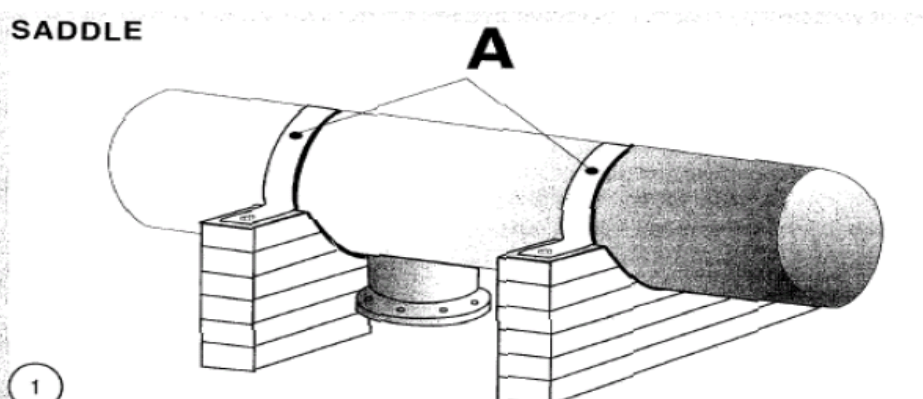
STANDARDS	HEADINGS	PAGES
NF H 00-300	List of information for industrial packaging definition	p. 6
US MIL P 116	Classification of metals by increasing order of their need of protection against corrosion	p. 7
NF H 00-312	Waterproof and greaseproof soft and self-adhesive protection materials	p. 11
US MIL B 121	Heat-weldable soft materials. Polyethylene monosheet with a water stream transmission coefficient (P) between 1 g and 4 g/m ² /24 hours	p. 12
NF H 00-311-1	Heat-weldable and soft materials with low water stream transmission coefficient (P < 0,3 g/m ² /24 heures).	p. 12
NF H 00-321	Dehydrating bag	
DIN 55473		
US MIL D3464		p. 13
EN 1309-1	Round sawn and unsawn woods.	
NF EN 1309-1	Method for dimensions measure. Part 1 : sawn	p. 34
EN 1313-1	Round sawn and unsawn woods. Allowed tolerances and preferential dimensions Partie 1 :Resinous sawn wood (replaces B 53-100)	p. 34
NF EN 1313-1	Preferential dimensions of the sawing (project)	p. 35
prEN 12248	Plywood - Tolerances on dimensions	
EN 315		p. 37
NF EN 315		
EN 314-1 et 2	Plywood - Quality of the sticking	
NF EN 314-1	Part 1 : Test method	
NF EN 314-2	Part 2 : Requirements	
	Classe II Semi-external	
	Classe III External	p. 37
NF B 54-154	Polyplywood (General use)	
	Dimensional characteristics of the panel	p. 37
NF EN 635-1 et 2	Polyplywood - Classification according to the aspect of sides	p. 37
BS 6566	Sticking of the plywood	p. 37
DIN 63705		p. 37
APA PS 1.83		p. 37
GOST AO.55-71	Russian burckwood panels	p. 37

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

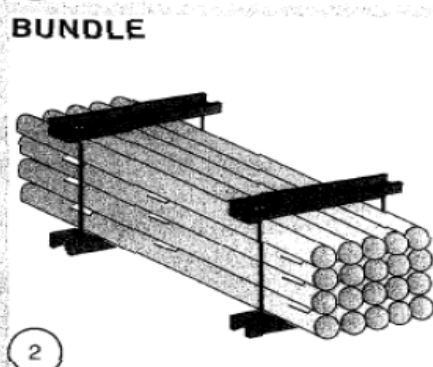
STANDARDS	HEADINGS	PAGES
EN 300	Panels with thin, long and oriented sheets (OSB)	
NF EN 300	Definitions, classifications and demadings.	
	OSB/3 and OSB/4	p. 38
EN 310	Wood panels.	
NF EN 310	Determination of the elasticity module in flexion and the flexion resistance	p. 38
EN 317	Particule panels and fiber panels	
NF EN 317	Determination of the swelling in thickness after immersion in water	p. 38
EN 322	Wood panels.	
NF EN 322	Determination of the dampness	p. 38
EN 323	Wood panels.	
NF EN 323	Determination of the density	p. 38
EN 324 1 et 2	Wood panels.	
NF EN 324 1 et 2	Determination of the dimensions of the panels: Part 1 : determination of the thickness, width and length Part 2 : determination of the bevelling and the straightness of the edges	p. 38
NF H 13-000	Cardboard packagings - Vocabulary	p. 39
NF Q 12-008	Paper and cardboard - Corrugated cardboard Characteristics of the simple and double corrugated cardboard	p. 39
NF Q 12-009	Paper and cardboard - Corrugated cardboard - Characteristics of the treble cardboard	p. 39
NF H 20-008	Device to grip the individually handled packagings	p. 40
EN 20780	Packagings. pictograms about to the handling	
NF EN 20780	of the goods	
ISO 780		p. 43

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

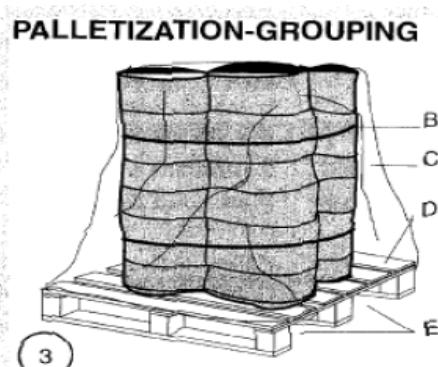
SADDLE



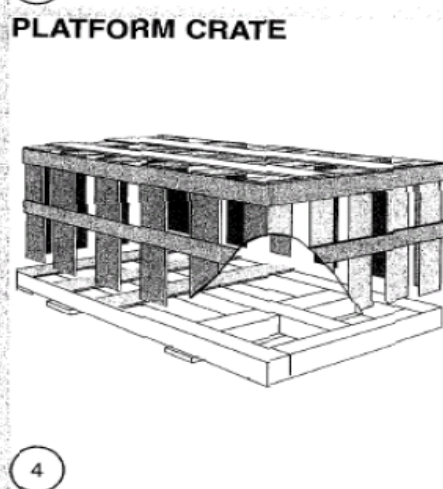
BUNDLE



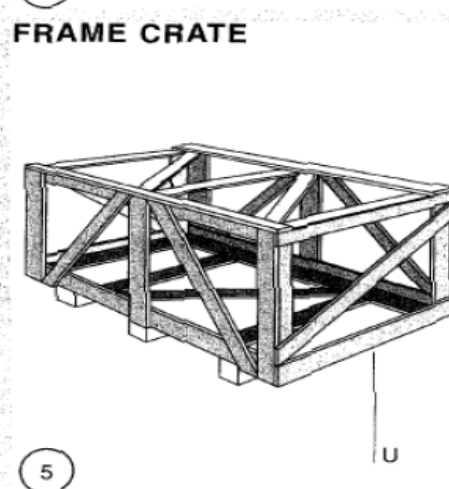
PALLETIZATION-GROUPING



PLATFORM CRATE



FRAME CRATE

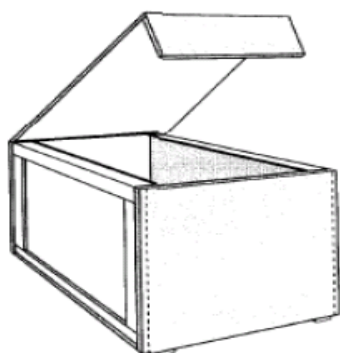


	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

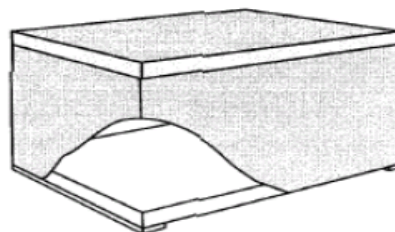


	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

WRAP-AROUND CARDBOARD BOX PLATFORM CARDBOARD BOX

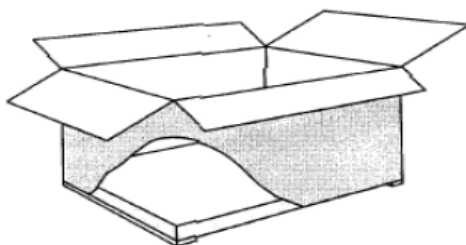


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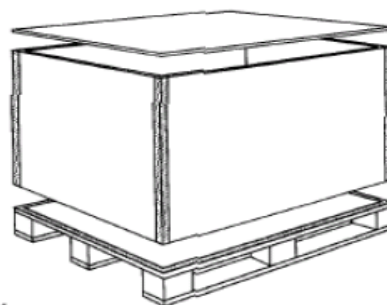
12

CARDBOARD BOX



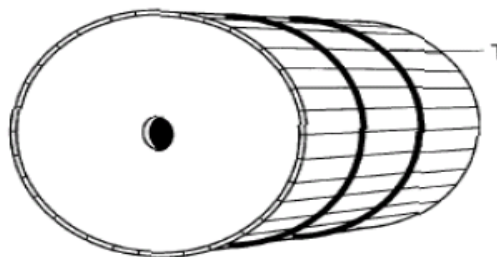
13

FOLDING PACKING CASE



14

REEL



15

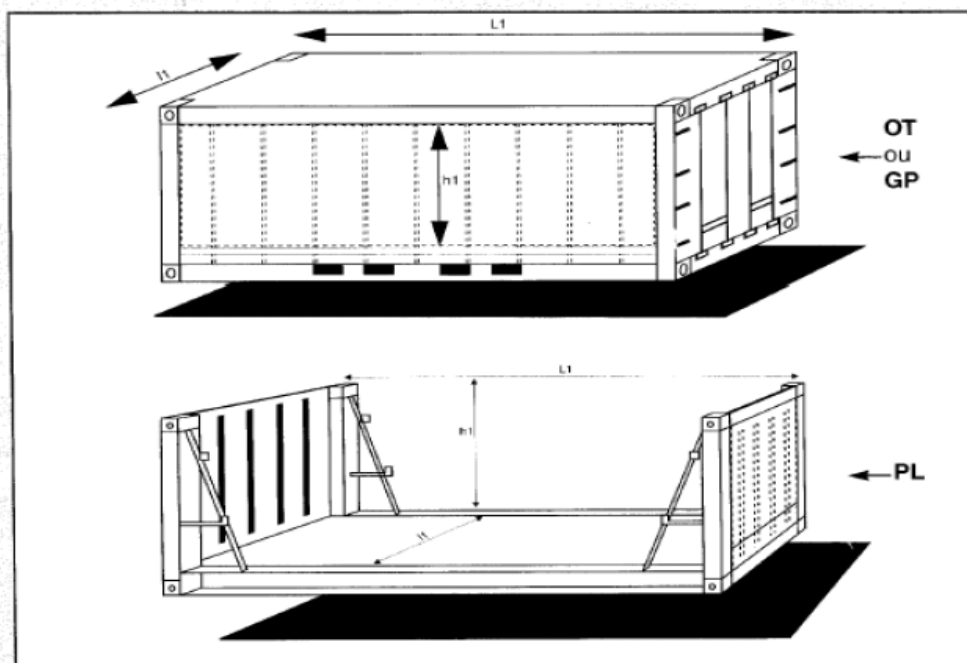
	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

EXAMPLES OF SHIPPING CONTAINERS

ISO CONTAINERS		20'x8'x8'6"	40'x8'x8'6"	20'x8'x8'	20'x8'x8'6"	40'x8'x9'6"	20'x8'x8'6"	40'x8'x8'6"
SIZE AND TYPE		20 OT	40 OT	20 GP GP (2000)	20 GP (2200)	40 GP	20PL	40PL
INSIDE DIMENSIONS								
LENGTH	L1	5867	11998	5867	5867	11998	5840	12000
WIDTH	I1	2330	2330	2330	2330	2330	2060	2060
HEIGHT	h1	(1)	(1)	2197	2350	2350	2170	1950
DOOR OPENING DIMENSIONS								
WIDTH		2286	2286	2286	2286	2286		
HEIGHT		2261	2261	2134	2261	2261		
HEIGHT UNDER LONGITUDINAL MEMBER		(1)	(1)					
MAXIMUM GROSS MASS (kg)								
Containers built after 86		24000	30480	24000	24000	30480	30480	36000

(1) These dimension are not standardized. Standard IS 668 states that they must be as large as possible.

Notes: OT = Open Top
GP = General Purpose
PL = Platform (FLAT)

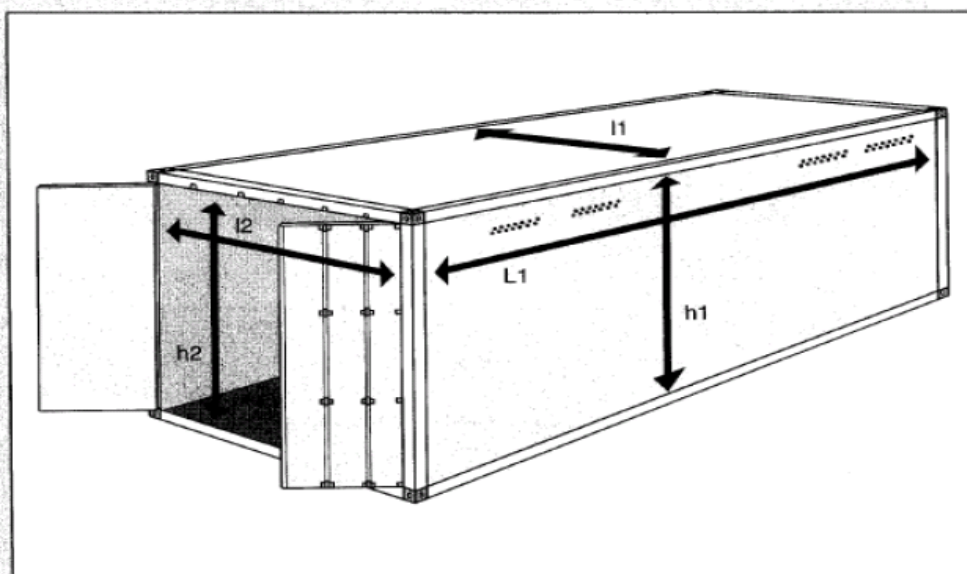


	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

SHIPPING CONTAINER FOR GENERAL PURPOSE: GP

GP: Container for General Purpose		CONTAINERS I.S.O.			
		20' x 8' x 8'	20' x 8' x 8'6"	40' x 8' x 8'6"	40' x 8' x 9'6"
SIZE AND TYPE		20 GP	20 GP	40 GP	40 HC**
INSIDE DIMENSION *					
LENGTH	L1	5867	5867	11998	(1)
WIDTH	l1	2330	2330	2330	(1)
HEIGHT	h1	2197	2350	2350	(1)
DOOR OPENING DIMENSIONS*					
WIDTH	l2	2286	2286	2286	(1)
HEIGHT	h2	2134	2261	2261	(1)
MAXIMUM GROSS MASS * (kg)					
Containers built after 86	24000	24000	30480	(1)	

(1) These dimension are not standardized. Standard IS 668 states that they must be as large as possible.
* Code according to the countries.
** HC: Hight Club or Jumbo (containers with higher dimensions)



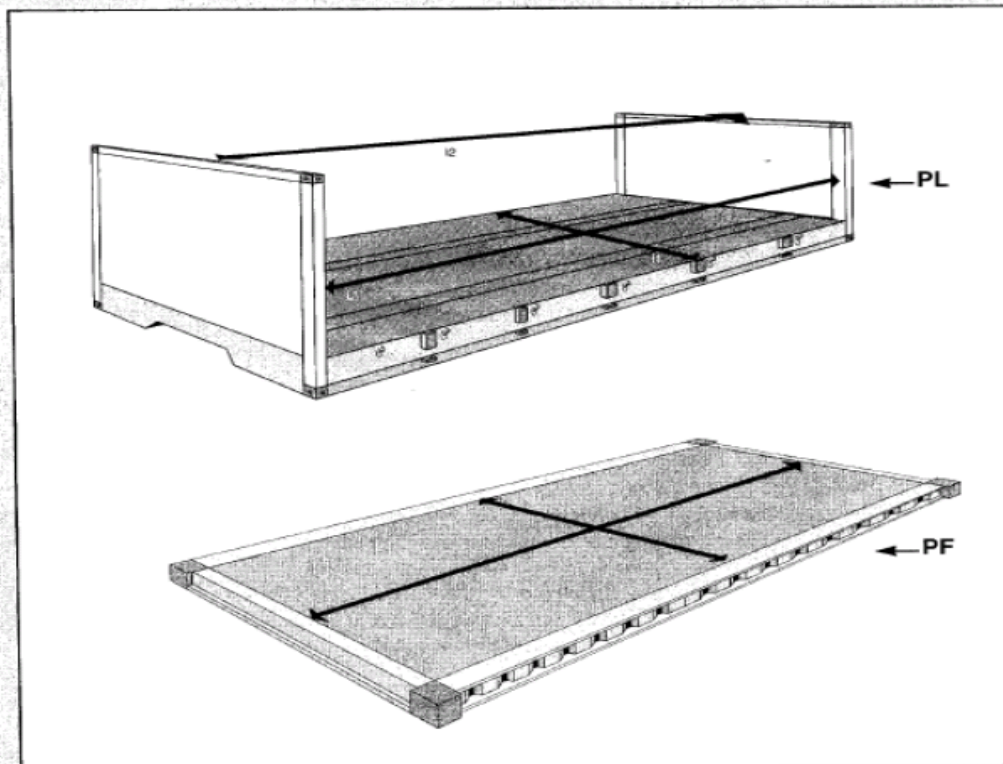
NOTE: For all complementary information, refer to the shipping transports or the specialized forwarding companies.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

PLATFORM SHIPPING CONTAINER: PL / PF

PL: Platform type container (FLAT) PF: Platform container		CONTAINERS I.S.O.			
		PLATFORM (PL)		PLATFORM (PF)	
		20' x 8' x 8.6"	40' x 8' x 8.6"	20' x 8'	40' x 8'
SIZE AND TYPE		20 PL	40 PL	20 PF	40 PF
INSIDE DIMENSIONS *					
LENGTH	L1	5840	12000	(1)	(1)
WIDTH	l1	2060	2060	(1)	(1)
HEIGHT	h1	2170	1950		
MAXIMUM GROSS MASS * (kg)					
Containers built after 86	30480	36000	24000	30480	

(1) These dimension are not standardized. Standard IS 668 states that they must be as possible.
* Code according to the contries.



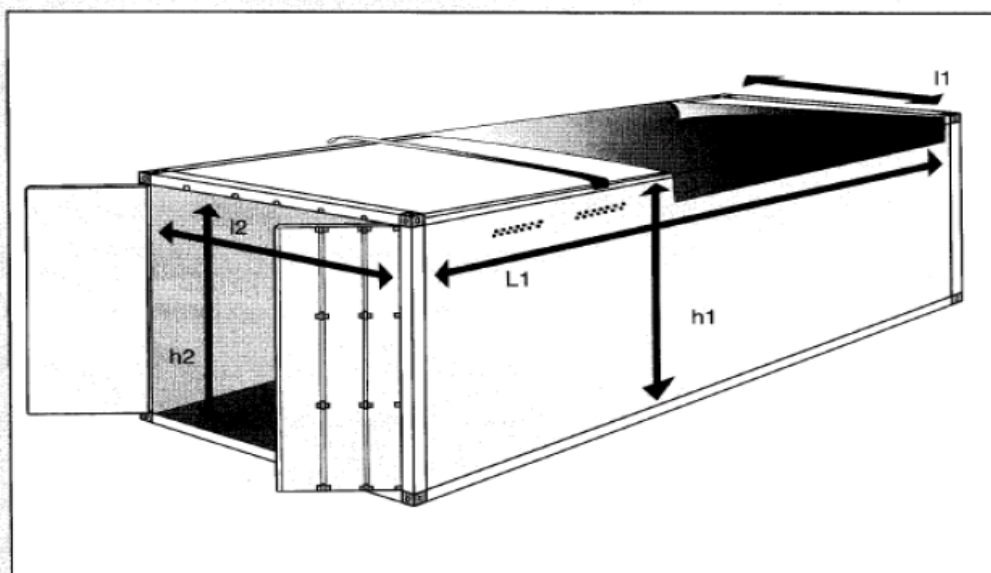
NOTE: For all complementary information, refer to the shipping transports or the specialized forwarding companies.

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Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

OPEN TOP SHIPPING CONTAINER: OT

OT: OPEN TOP CONTAINER		CONTAINERS I.S.O.	
		20' x 8' x 8'6"	40' x 8' x 8'6"
SIZE AND TYPE		20 OT	40 OT
INSIDE DIMENSIONS*			
LENGTH	L1	5867	11998
WIDTH	I1	2330	2330
HEIGHT	h1	(1)	(1)
DOOR OPENING DIMENSIONS *			
WIDTH	I2	2286	2286
HEIGHT	h2	2261	2261
HEIGHT UNDER LONGITUDINAL MEMBER	h3	(1)	(1)
MAXIMUM GROSS MASS * (kg)			
Containers built after 86		24000	30480

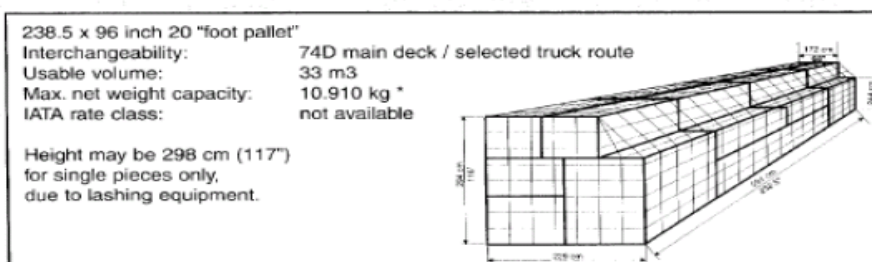
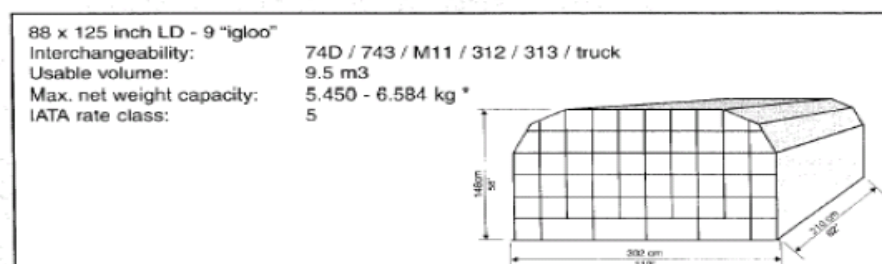
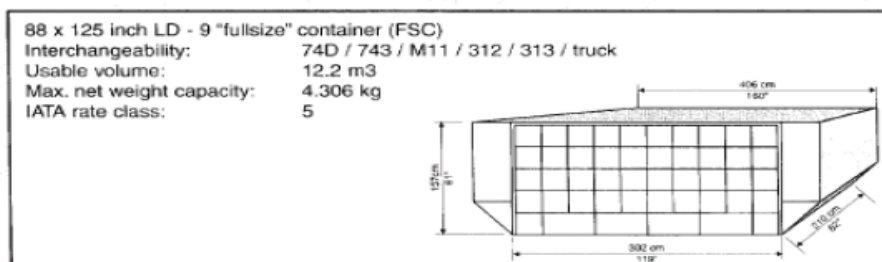
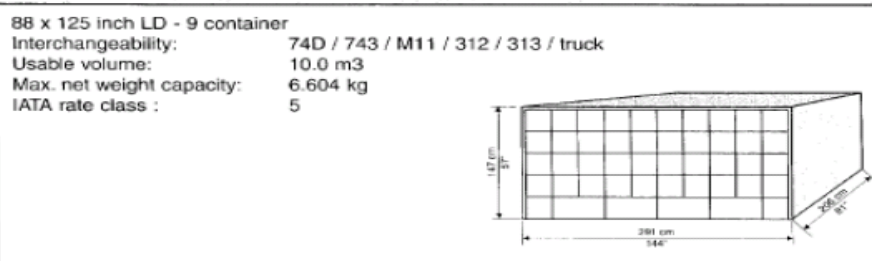
(1) These dimension are not standardized. Standard IS 668 states that they must be as possible.
 * Code according to the countries



NOTE: For all complementary information, refer to the shipping transports or the specialized forwarding companies.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

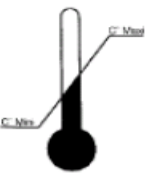
EXAMPLE: AIRCRAFT CONTAINER AND PALLET



	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

key	symbol	function
1 fragile handle with care	 iso 7000/n°0621	indicates: a) that the content of the transport packaging is fragile b) that it must be handled with care
2 use no hooks	 iso 7000/n°0622	indicates that hooks may not be used to lift the transport packaging
3 top	 iso 7000/n°0623	indicates correct upright position of transport packaging
4 keep away from heat	 iso 7000/n°0624	indicates that the transport packaging must be kept away from heat
5 keep away from heat and radioactivity	 iso 7000/n°0615	indicates that the content of the packaging may be damaged or made completely unusable by heat or penetrating radiation
6 sling here	 iso 7000/n°0625	shows where slings should be attached to lift the transport packaging

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

key	symbol	function
7 keep away from moisture	 iso 7000/n°0626	indicates that the transport packaging must be kept in a dry environment
8 centre of gravity	 iso 7000/n°0627	indicates the centre of gravity of the transport packaging
9 do not roll	 iso 7000/n°0628	indicates that the transport packaging must not be rolled
10 no trolley this side	 iso 7000/n°0629	identifies locations on transport packaging where trolleys or trucks must not be placed
11 storage limits	 iso 7000/n°0630	indicates limited storage capability of transport packaging
12 clamp sides	 iso 7000/n°0631	shows where clamps should be placed for handling of transport packaging
13 temperature limits	 iso 7000/n°0631	indicates temperature limits between which transport packaging must be kept

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.: D0	Class: 3

**GENERAL CONDITIONS
APPLICABLE
TO INDUSTRIAL PACKAGING
BEARING THE S.E.I. TRADE MARK**

MARS 1999



THE TRADE MARK S.E.I.

Specifications Manual of the Industrial Packaging 64b

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 Pars Oil & Gas Company	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0	Class:3	

DEFINITION OF THE GUARANTEE

ARTICLE I

The contracts for industrial packagings, signed under guarantee of the S.E.I. trademark, are bound by the general conditions stipulated below:

The trademark S.E.I. registered on the 22 July 1968 under number 50182 (registered at the I.N.P.I. under number 760923) and which renewal of registration was carried out on the 22 Juin 1978 under number 283019 (registered at the I.N.P.I. under number 1.054.749), and the 7 Juin 1998 under number 931.969 (registered at the I.N.P.I. under number 158.28.20), is the ownership of the Syndicate for Industrial Packaging who concedes the use of this trademark to their members who have got the consent of the Direction Committee

The production of an industrial packaging under the S.E.I. trademark is certified true guarantee to the technical specifications enacted by the Engineering service for Industrial Packaging(E.IS.I.P.).

This guarantee is a duty exclusively, for the packer himself: the appending of the S.E.I. trademark does not imply any engagement or obligation from the Syndicate for Industrial Packaging.

ARTICLE II

The guarantee of a good technical execution is a duty for the packer insofar as the whole process is totally taken upon by the manufacturer, holder of the trademark, and especially, the choice of the type of packaging the process of packaging the goods, the wedging, closing and hooping of the packaging.

EXCLUSION OF THE GUARANTEES

ARTICLE III

The guarantee cannot be referred to and the packer must not bear any responsibility in case of damage of the goods or materials:

- a - if the type of packaging was imposed to the industrial packer by the user or his customer,
- b - if all or some of the material or packaging and protection products were imposed, applied or supplied by the user of his customer,
- c - if incomplete or false information about the goods or ware to pack were given,
- d - if the information about the transport conditions of the goods were hidden, mistaken or incomplete,
- e - if the damage concerns the goods or materials inside of the empty delivered packagings,
- f - if the damage occurred to the goods or materials is due to corrosion or oxidation, or to any inherent defect of the thing, and if the customer's order did not bear "waterproof packaging",
- g - if the damage is the result of the inherent defect of the thing.

ARTICLE IV

The guarantees given for the packagings produced under cover of the S.E.I. trademark become lapsed:

- a - in case of any abnormal conditions of stocking of transport (excessive temperatures, abnormal pressures, magnetic or radioactive elements, etc..) that can damage the packaged goods or materials and/or their packagings, unless the packer was aware of those written abnormal conditions and accepted the risks, what the customer will have to prove, .

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

b - in case of, as a result of corrosion or fire agents, or any parasites etc..., the packaging is partly or totally damaged by external factors, without questioning of the quality.

In case the quality of the packaging is disputed, the legal proof lies with the customer of the packer.

DURATION OF THE GUARANTEE

ARTICLE V

The guarantee of the S.E.I. trademark lasts during the travel for which the packaging was conceived until the packaging is opened, which has to be carried out at last in the month after the arrival of the goods to destination.

In case the transportation of the packaged ware is stopped, the guarantee of the "S.E.I" trademark shall not exceed two months after the date of notifying of the completion of the packaging.

ARTICLE VI

The guarantee of the S.E.I. trademark, linked to the execution of a "waterproof packaging", covers, with reservation of the articles II and III above, the anti-corrosion protection of the packaged goods. This guarantee lasts one year from the date of notifying of the completion of the packaging and can continue for another delay, but after a special request from the customer, accepted by the packer. When this allotted time is spent, the packer cannot refer to his guarantee any longer.

ARTICLE VII

The guarantee of the S.E.I. trademark that legally ends when the allotted time is spent, will be compulsorily suspended when the packaging is opened, if the opening is made before the allotted time by anyone, including, if necessary the customs.

SETTING OF THE GUARANTEE, STATEMENTS AND NOTIFICATIONS

ARTICLE VIII

The guarantee can be set to if the damage is found before the end of the delay of guarantee on the condition that this damage is established and that the packer is aware of this written damage through a registered letter, in a delay of five days after the first opening, the report having to be made by an expert of the Court or a law official.

The packer keeps the right to establish, or to have established on site, by any expert or person sent by him, the causes and the nature of the declared damage and the customer undertakes to give all facilities in this regard.

In case of successive or spread out contracts, any delay in the statement of the damage will cause the forfeiture of the guarantee for packaging or wedging of same type if, as a result of this delay, the packer was not aware of the possible damage or to cover it up.

PRESCRIPTION OF THE GUARANTEE

ARTICLE IX

According to a formal agreement, any action against the packer is prescribed for a one year delay valid from the time the offending packaging was first opened.

Regarding the damage that occurred while the goods are in charge of the packer, the prescription delay of one year is valid from the day when the damage were known from the customer or reported to the customer by the packer.

Regarding the damage done to goods packed in a "waterproof packaging", made under cover of the S.E.I. trademark, the prescription delay of one year is valid from the last day of the granted guarantee and on the condition that the first opening related in the article VIII above had occurred within the delay guaranteed, and any opening subsequent to this delay puts an end to any claim.

	PACKING, MARKING AND SHIPPING INSTRUCTIONS	 NIOC <i>Pars Oil & Gas Company</i>
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I	Rev.:D0 Class:3

AMOUNT OF THE GUARANTEE

ARTICLE X

In all cases the responsibility of the industrial packer working under the guarantee of the S.E.I. Trademark would have to be set into action, whether during the packing process or as a result of a deficit or an imperfection of the packaging, the guarantee will not exceed :

- 500 F. (five hundreds Francs) per kilo, of given or packed goods,
- with maximum 500.000 F (five hundred thousand Francs) per package, crate or packing case,
- and a maximum 1.000.000 F (one million Francs) per damage,
- the indemnity cannot go beyond the original value of the goods, including packaging and transportation.

It is formally agreed that the responsibility of the packer is limited to the direct damage to property, to the formal exclusion of any claim for commercial, moral or indirect prejudice.

ARTICLE XI

If the customer considers that the amounts stipulated in article X above constitute an insufficient limit of responsibility, this limit can be modified on the condition that a written, formal and previous statement is made.

ARTICLE XII

The defined responsibilities in the guarantee are normally covered by the insurance policies compulsorily taken out by the packer that holds the S.E.I. trademark.

In the case that the customer, according to the provisions of article XI above, wishes to raise the limit of responsibility stipulated in article X above, a special complementary insurance can be subscribed but on the condition that a written, previous and formal request is made, and for each process a request must be made.

INFORMATION OF THE CUSTOMER

ARTICLE XIII

The present general conditions for producing industrial packaging are continuously to the disposal of any user who requires the making of the packagings under cover of the S.E.I. trademark.

In case new technical specifications in the production of industrial packaging under the S.E.I. trademark were carried out, or in case of part modifications, a minimum delay of the one month will be kept before they are put into practice, in order to have time to get the customer thoroughly informed.

ARTICLE XIV

Any user, at any time, can require from the Direction Committee of the S.E.I. trademark to have the list of the packaging companies authorized to avail themselves of the trademark and the list of the Statutes and the Regulation of the Trademark.

CLEARANCE AND STORAGE

ARTICLE XV

The packer can postpone or refuse the delivery or can refuse to take in charge in his workshops goods or materials which packaging cannot be immediately used.

According to a formal agreement, the packed goods will have to be cleared by the customer at last fifteen days after their forwarding by the packer, with a clearance note.

Beyond this delay, any storage operation will be considered out of the provisions about the packaging contract itself and on the condition of a written formal statement.

Consequently, any storage operation, or supplementary provision will be dealt, in return of a distinct remuneration, with in one or more specific and private contracts that will be settled either with the packer himself, or, should the occasion arise, with companies of a third party .

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 Pars Oil & Gas Company	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

TRANSPORT AND HANDLING

ARTICLE XVI

Any transport, displacement and handling of goods or materials, carried out in any place and made necessary by the making of a packaging carried out under cover of the S.E.I. trademark, are an accessory to the packaging contract and therefore, are, in the same limits, subject to the guarantees stipulated in the articles above.

Any transport or transport commission, are not considered an accessory to the packaging contract and are not subject in any case of the provisions above

It is case, in particular, of long distance transport that cannot in any case be considered an accessory to packaging operations or be included in the packaging contract.

ARTICLE XVII

In case of, as a result of mistaken statements, or because there was not any special instructions, about the weight, nature, specific fragility, sling raise, special wedging, means of access to use, workshops themselves, etc..., the handling would cause any damage to the goods or materials, the provisions of article XVI above would not be put into practice.

PREROGATIVE OF THE JURISDICTION

ARTICLE XVIII

Any variance at, either the settlement of the invoices, or the right carrying out of the given work, will be the exclusive competence of the Court of the registered office of the packaging company, even in case of appeal at guarantee or in case there are many defendants.

Any amicable derogation to the present conditions cannot be invoked as a precedent..

Ouvrage édité par JJA GRAPHIC 01 46 67 99 66
pour le compte du Syndicat de l'Emballage Industriel (S.E.I.)

	PACKING, MARKING AND SHIPPING INSTRUCTIONS		 NIOC <i>Pars Oil & Gas Company</i>	
Contract No.: POGC 653-89-35	Doc. No.: DB-14-999-7600-0407-I		Rev.:D0	Class:3

INDUSTRIAL PACKAGING

SPECIFICATIONS MANUAL

SEI

Cahier des charges de l'Emballage Industriel 69