

# JORDAN PETROLEUM REFINERY CO. LTD.

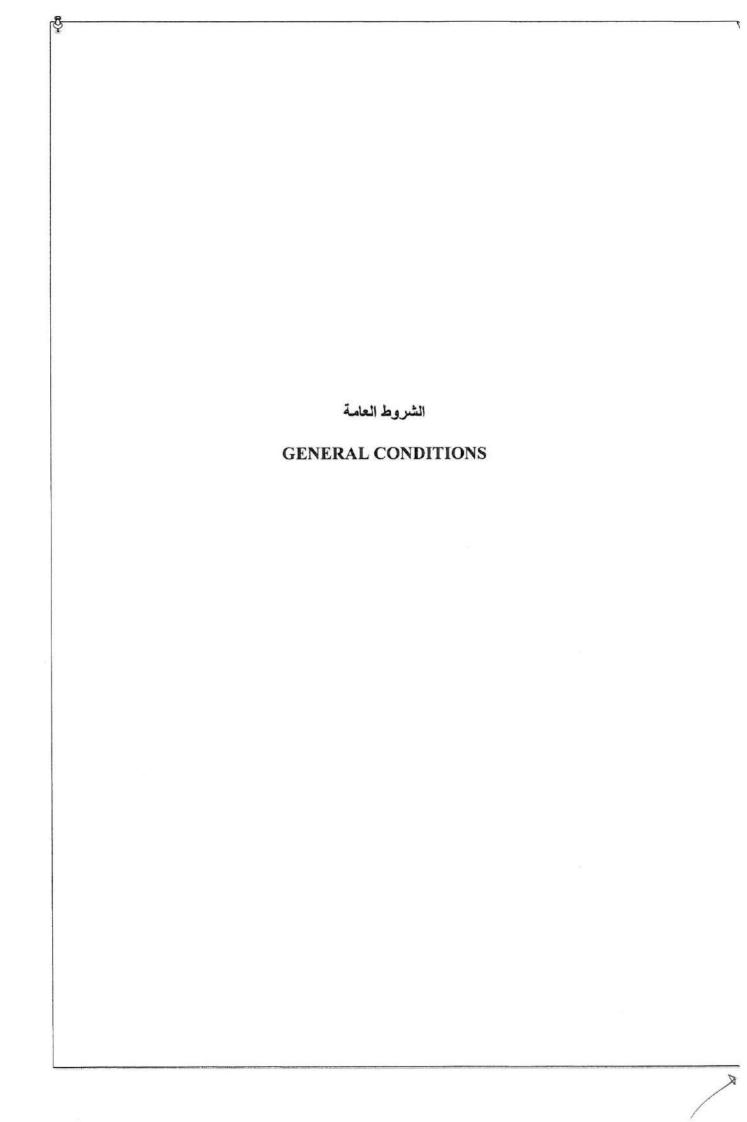
BID No.:156 /2025 Supply Of Pressure Safety Valve At Aqaba Stores – Jorden شركة مصفاة البترول الأردنية المساهمة المحدودة مناقصة رقم: 2025/156 توريد صمامات امان لخطوط النفط الخام والبنزين في مستودعات العقبة

# الفهرس

- GENERAL CONDITIONS
- COMMERCIAL OFFER FORM
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- -ATTACHMENTS

- الشروط العامة
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    - الملحقات

738



BID NO. 156/2025	JORDAN PETROLEUM REFINERY CO. LTD	
OR: 25011080	Supply Of Pressure Safety Valve At Aqaba Stores -	<b>(*</b> )
OQ: 25010549	Jorden	

### I. BID& Contract Invitation

1. The following Instructions and General Conditions are integral part of the invitation, and have the power of the purchase contract.

The listed conditions hereunder are binding for the tenderers, unless otherwise is stated in the documents.

Offers (technical & commercial) shall be submitted in triplicate, in English language, including the following details, before the CLOSING DATE on Thursday 04<sup>th</sup> DEC of 2025, at 15:00 PM (Jordan Local Time).

### 2. Identifications:

The Company: Jordan Petroleum Refinery Company Ltd., (JPRC).

The Manager: Chief Executive Officer.

The Contractor: The successful Tenderer/Supplier/ Manufacturer.

**The Tenderer:** The participant in BID (Company Owner).

### 3. Offers shall include the following:

- A. Printed price and clearly written in figures and capital letters. (Currency shall be stated in words not in abbreviations).
- B. Clearly stated price for unit and total price.
- C. Freight Terms: On the basis of FOB, CFR. Aqaba Sea Port, CPT Amman (QAIA) Air Port, Zarqa Free Zone, DDP at our stores / JPRC.
- **D.** Valid for (60) days, at least, from closing date, unless otherwise stated, and also fixed during the completion period.
- E. Delivery time: the shortest delivery period is to be stated in your offer.
- F. Country of origin / shipment: origin of goods, delivery place and port of shipment.
- G. Any extra optional and / or additional services to the required specifications must be clearly detailed & priced.
- H. Manufacturer's name and full address.
- I. Packing: Proper and secure seaworthy packing and / or according to BID requirement. Details of packing shall also be stated.
- 4. Catalogues: Operation, maintenance and spare parts manuals, as well as any necessary leaflets and information shall be submitted in English language, all shall comply with BID documents requirements, if any.
- 5. Spare Parts: Tenderer shall provide separate, detailed, itemized priced spare parts list recommended for (two) years operation under normal circumstances in addition to other requirements of BID documents, if any.

The tenderer shall guarantee and shall secure to the COMPANY the guarantees of the manufacturers for the supply of spare parts for 15 years after commissioning of equipment.

- 6. Samples: Tenderer shall submit, with his offer, samples for offered materials if necessary or requested.
- 7. Required Certificates: Test Reports Laboratory certificate, API, Baseeffa, UL listing, FM approvals, Mill Test Certificate, Third Party Inspection Certificates and/or as required by BID documents, codes, etc.
- 8. The Tenderer guarantees that materials are to be supplied brand new, updated in design, free from any failure, fault, damage, or defects in material, design, or manufacturing, and of latest model, unless the offer states otherwise.
- 9. Offers shall not include charges for Insurance.
- 10. Partial award shall be acceptable by the Tenderer; otherwise, the COMPANY has the right to disregard the offer. Separate price is required for each item.
- Any items or accessories necessary to have the offered system/ equipment complete in every respect shall be quoted even if they are not mentioned in this standard specification, noting that failure of the Contractor to do so shall be at his full responsibility, and the said equipment / system shall be rectified as necessary at the Contractor's own expense.
- 12. The COMPANY is not obliged to award on any offer or the lowest offered prices.
- 13. The COMPANY has the right to cancel any part or the whole BID without justifications.
- 14. The COMPANY has the right to increase or decreases the required quantities by (±25 %) depending on the COMPANY's requirements.
- 15. The COMPANY is **not bound** to consider any offer which does not follow closely BID requirements.
- 16. The COMPANY shall be exempted from serving **notarial notice/s** on the tender.
- The Tenderer is required to provide qualification documents with his offers.

  These documents shall include details of his production and general catalogues, and explain, in detail, his experience in same required equipment and projects, and provide reference lists including customers/refineries to which he delivered similar equipment and projects, dates, and contract values. The COMPANY has the right to disregard any offer, which may be received from unqualified Tenderers and / or Manufacturer. The COMPANY shall not accept any responsibility or liability of any type or any kind in any way whatsoever.
- 18. The Tenderer shall submit all documents, which show financial statement of the supplier for the latest three years including balance sheet and profit and loss accounts with the offer.
  - If Qualification Form is attached to the BID documents it shall be completely filled by the Tenderer and submit with the offer
- 19. It is the full responsibility of the Tenderer to provide all required information during the offering stage, where any lack or misguidance of the required information provided by the Tenderer shall be considered a cause of rejection of his offer.
- 20. Payment method:
  - A- Payment shall be made either by Letter of Credit, CAD. NET 30 DAYS or COD. (All Bank commissions or fees outside JORDAN shall be borne by the Successful Tenderer(s).
  - B- Payment in advance is not acceptable.
  - C- All external bank charges including confirmation commissions or fees of L/C shall be borne by the **Successful Tenderers** exception of the initial internal banking charges for opening L/C, which shall be borne by the JPRC.
  - D- The following paragraphs shall be part of L/C when shipping by sea:
    - 1. Certificate issued by the owners, carriers, master, charterers or agent of the vessel, certifying that the carrying vessel is classified 100 Al or equivalent and is a (P&I Club) member.

- Certificate issued by the owners, carriers, master, charterers or agent of the vessel, certifying that the carrying vessel is subject to International Safety Management Code (ISM) and International Shipping and Port Security Safety Code (ISPS) and carries valid Safety Certificate.
- 3. Upon delivery, a signed commercial invoice in 3 original & 3 copies indicating delivery terms shall be provided.
- **4.** Full set of at least (2/2) long form original clean (on board) bill(s) of lading on the printed forms of carrier issued or endorsed to the order of issuing bank, showing full name and address of the shipping company agent or his representative in the country of destination.
- 21. Instructions of the Central Bank: All parties to this transaction are advised that where the U.S., EU, UN impose specific sanctions against certain countries, entities and individuals banks may be unable to process a transaction that involves a breach of such sanctions, and authorities may require disclosure of information.

### II. Successful Tenderer/ Supplier shall be responsible for the following:

- 1. All the documents pertaining to the General Conditions, Specifications, Drawings and any Annexes shall form an integral part of the agreement/contract/purchase order.
- 2. After awarding, any change in the offered specifications shall not be acceptable.
- 3. Performance guarantee (bank guarantee) equal (10%) of the total amount through a local Jordanian bank. shall be submit within (10) days of award of tender, to guarantee that materials will be supplied according to BID specifications and conditions, submitted offer on this tender, and related correspondences as well as to guarantee that the whole consignment will be delivered within the specified period.

This guarantee must be valid for period of (12) months after receipt the materials and matching at our stores unless otherwise is stated, subject to extension when required and payable partially or totally to COMPANY at first demand.

Copy of bank guarantee text is herewith attached.

If the Successful Tenderer/ Supplier refuse the letter of award or not submitting the performance bond for any reason, The COMPANY has the right to confiscate the bid bond amount and the supplier will not be allowed to participate in future tenders.

- 4. (6) per one thousands of Contract value shall be paid to cover revenue stamps to be paid to the Ministry of Finance according to prevailing Jordanian law. The total sum shall be paid within (10) ten days after the date of award letter to avoid delay penalty, or deduct it from the purchase order.
- 5. Accept the **purchase order** based on the submitted offer, in addition to all other conditions, which will be agreed upon by the COMPANY and Successful Tenderer, as an obligatory contract for both parties.
- 6. No assigning of the awarded BID (partially or totally) to any other supplier without the prior written consent from the COMPANY.
- 7. All original shipping documents (commercial invoice, AWB, B/.L, LWB), detailed packing list, EURO 1 Certificate if applicable) in the name of JPRC, and shall be delivered to our BANK/ JPRC immediately from dispatching of the goods to avoid delay in Jordanian Customs Department.

- 8. Upon delivery packing list (1) original and (5) copies showing number of packages / cartons / rolls/pallets / gross weight and the contents of each package /carton/roll/pallet/ net weight separately.
- All materials to be supplied from European countries shall be included with EURO 1 Certificate with shipping documents.
- 10. All materials to be supplied from USA shall be shipped directly from USA to Jordan according to Jordanian Customs Department rules; so any customs duty will be exempt due to implementation of customs agreement between USA and JORDAN.
- 11. Successful Tenderer shall be responsible for all applicable additional charges as **Taxes**, **VAT** in any country outside Jordan.
- Delivery delay liquidated damages: in the event that the Supplier failed to supply the required materials, equipment and necessary documents within the specified delivery period, which prevents putting in service of the equipment, the sum of JOD (20) per day or any part thereof shall be paid by the supplier to COMPANY. (Not exceeding 5 % of contract value).
- 13. In case delay or missing of submitting any of the shipping documents to the bank, which leads to storage fees or any custom fees on the goods from JORDAN CUSTOMS DEPARTMENT, all these charges shall be paid by the supplier.
- 14. As the contract is a Jordanian one, any dispute arising between COMPANY and the Contractor on the interpretation or execution of the contract, which can't be solved amicably, shall be governed by and construed in accordance with **Jordanian laws**, and shall be referred to arbitration. Arbitration shall be conducted in Arabic, or English translated into Arabic. The venue of arbitration shall be in Amman Jordan.
- 15. The COMPANY, through cashing the guarantees shall not be deemed to have waived any of its rights under the Contract. For BID performance purpose, the local agent and the Contractor are jointly and severally liable. The COMPANY has the right to claim its rights legally against either party, or both of them, in case they do not comply with any of the BID conditions.
- 16. The COMPANY has the right to reject of any supplied materials which not in conformity with the required specification, and shall hold the supplier liable for any damage resulting there from including taxes, custom fees, clearance fees ...etc.)
- 17. Transshipment is not acceptable.
- 18. If the defect or function failure can't be corrected, the Contractor / Supplier shall promptly replace said equipment (free of charge) or remove the equipment with refund the full purchase price
- 19. Return copy of purchase order, which considered as a formal contract signed & stamped by an authorized person (beneficiary) within (48 hours).

### III. Important Notes For Tenderers:

- 1. Offers shall be submitted in two separated, closed and sealed envelopes (One original and two copies) indicating clearly contents of each envelope as follows:
  - The 1st envelope shall include the technical offer and qualification documents.
  - The 2nd envelope shall include the **commercial offer**.
- 2. Name and address of Tenderer is to be printed on closed and sealed envelope in addition to BID number and closing date. Noting that different offers shall be treated separately.
- Offers by e-mail are only acceptable on:
   E-mail (<u>JPRC.SubTenders@jopetrol.com.jo</u>),
   Offers by telephone are strictly prohibited.
- 4. Any questions regarding the BID shall be addressed in writing to: EMAIL: (TENDER.INQUIRIES@JOPETROL.COM.JO)
- Tenderer is not permitted to contact and or meet and or visit any one of the technical team during BID study stage without prior post coordination and written approval by Chief Executive Officer or Executive Director of Refinery or Purchasing Manager.
- 6. Any offer after the closing date shall not be accepted.
- 7. The offers must be signed and stamped by the Tenderer; otherwise, it shall be disregarded. In addition, shall be submitted to the COMPANY as prepared and arranged by the manufacturer.
- 8. Tenderers shall provide the COMPANY with the name and full address of the Agent or Representative / Regional office in Jordan and his registration number, if available.
- 9. Local Agent shall submit a valid Career License and Registration Certificate with the offer.

**INDITION NOT REQUIRED** ■ NOT REQUIRED

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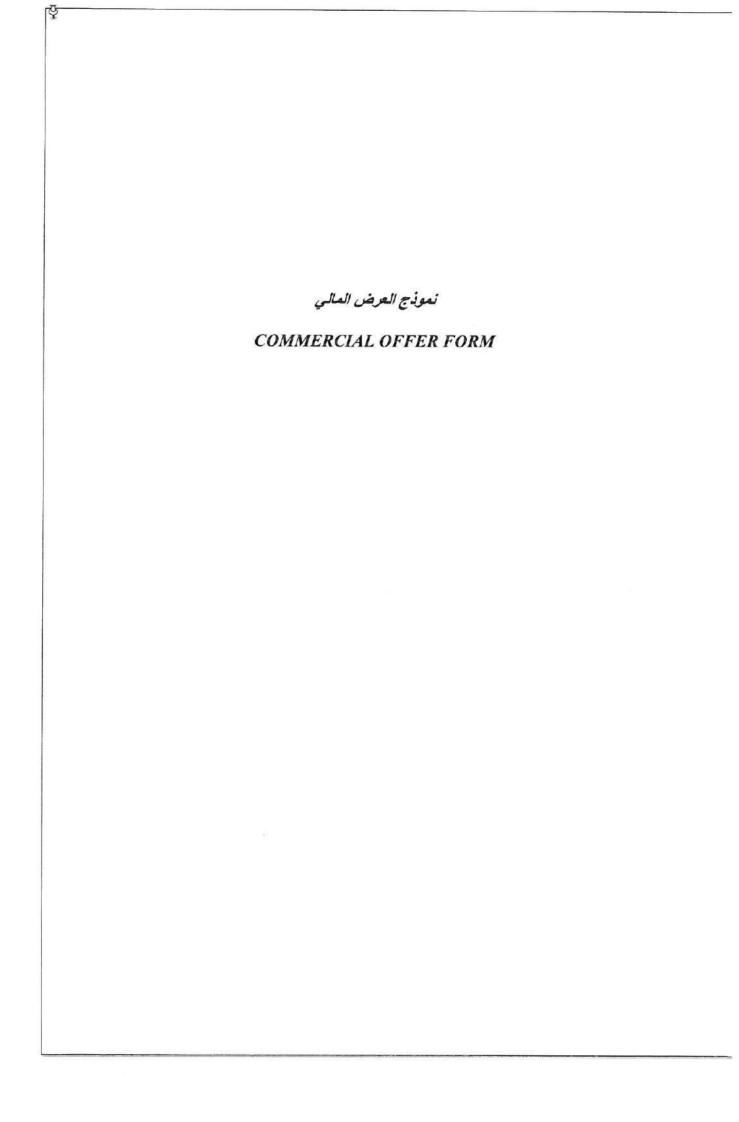
# نموذج معلومات المورِّد والوكيل

مناقصة رقم 2025/156

# SUPPLIER & LOCAL AGENT INFORMATION

BID no. 156/2025

الوكيل المحلي	المسوية	المعلومات المطلوبة
Local Agent	Supplier	
		الاسم التجاري
		Commercial Name
		أسماء مالكي الشركة
		Owner name
		اسم مدير الشركة
		Director /Manager Name
		هاتــق
		Tel, No:
		فاكس
		Fax no:
		هاتف خلوي
		Mobile:
		رخص مهان
		Profession License Certificate
		سجل تجاري
		Trading Registration Certificate
		راس مال الشركة
		Company Capital
		البنك
		Reference Bank
		مجموع الإيرادات السنوية
		Turnover
		مجموع حقوق المالكين
		Owners Equity



# **COMMERCIAL OFFER**

BID NO: 156/2025

					Filled By The ractor
Item No.	Description	Unit	Quantity	Currency :- □ \$ □ £ □ €	
				Unit Cost	Total Cost
1	Pressure Safety Valve	EA	10		

TOTAL IN WRITTEN	TOTAL:	

SIGNATURE :-

COMPANY'S STAMP-



Freight Handling

Unit Unit Price Currency Code Order No Type Line No

Supplier Offer Supplier Offer Original

Ordered Quantity

THE ATTCHMENT (5 - PAGES) SHALL BE CONSIDERED AS PART OF THE PURCHASE ORDER.

**Delivery Instructions** 

Description

ACCORDING TO ATTACHMENT NO.1

PRESSURE SAFETY VALVE

Number

Line

Purchasing Manager:

Remarks of Purchasing Department:

25011080 OR

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# JORDAN PETROLEUM REFINERY CO. LTD



Date: 13/10/2025

Attachment No. (1) -OR ATTACHMENT



# PART 1 - GENERAL:

- This specification applies to safety relief valves which opens automatically to prevent a predetermined gauge pressure being exceeded and which re-close after decrease in pressure.
- Pressure safety relief valves are required to be installed at crude oil and gasoline 1.2 lines as thermal relief valves; these valves shall be according to the specifications mentioned in this specification.
- Design and manufacture shall comply with applicable requirements of ASME code 1.3 section VIII.

#### Following shall be submitted in the offer: 1.4

- Data sheets, design calculation and selection sheet.
- Detailed dimensional drawings and cross-sectional drawings for each component with respect to fixed datum line.
- Type approval certificates with related test report.
- Other certificates and documents of the offered.
- Manufacturing standard.
- Breakdown prices and Net Price.
- Delivery Time and terms.
- Guarantee and warranty.
- Validity of the offer.

#### DESIGN CODES AND REFERENCES 1.5

# ASTM International (ASTM)

- 1. A 105 Carbon steel forgings for piping applications.
- 2. A 139 Electric Fusion (Arc) welded steel pipe (NPS 4 and over)
- 3. A 234 Piping fittings of wrought carbon steel and alloy steel for moderate and elevated temperatures.

#### B. ASME/ANSI:

- 1. B 16.5 Pipe flanges and flanged fittings.
- 2. B 16.11 Forged steel fittings, socket welding and threaded
- 3. B 16.20 Metallic gaskets for pipe flanges, ring joint, spiral and jacketed.
- 4. B 36.10 Welded and seamless wrought steel pipe.

#### **API Standards:** C.

- 1. API 520 Sizing, Selection, and Installation of Pressure-Relieving Devices in Refineries
- 2. API 526 Flanged Steel Pressure-relief Valves
- 3. API 527 Seat Tightness of Pressure Relief Valves
- 4. API 576 Inspection of Pressure Relieving Devices
- 5. API 598 Valve inspection and testing

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# JORDAN PETROLEUM REFINERY CO. LTD



Date: 13/10/2025

# Attachment No. (1) -OR ATTACHMENT



#### D. ISO Standards:

- 1. ISO 4126-1 Safety devices for protection against excessive pressure-Part 1 – safety valves.
- 2. ISO 5208 industrial valves; pressure testing of valves
- 3. ISO 5209 General purpose industrial valves; marking.

#### E. **European Directives and Standards:**

1. 97/23/EC – pressure equipment directive (PED)

#### F. European Norm (EN):

- 1. EN 19 Industrial valves marking of metallic valves.
- 2. EN 10204 Metallic products Types of inspection documents.

Spare parts for subject safety valves shall include the following:

No.	description	Required No.
1.	Base	1 No.
2.	Disc	1 No.
3.	Spring	1 No.
4.	Set of gaskets	1 No.
5.	Other parts recommended by manufacturer	1 Set

# PART 2 - PRODUCTS.

### DESIGN.

Full lift safety valve.

- Direct loaded with spring A.
- В. Closed bonnet, cap and lifting lever
- C. Flanges RF acc. to ANSI B 16.5
- Free of asbestos, FCKW and PCB.

#### 2.2 SURFACE PREPARATION

Valves shall be provided with a coating system suitable for outdoor conditions.

#### 2.3 MATERIALS.

- Material of construction shall be according to API526-Sec.3
- Body: Cast steel A 216 WCB or 105
- Internal parts: Austenitic stainless-steel A 352 CF8 MC C.
- Seal: PTFE or Viton, seals shall be suitable to the specified service.

#### 2.4 QUALITY ASSURANCE.

Acceptances and tests

- Inspection and shop tests shall be accordance with API526-Section 4.
- Test certificates according to DIN EN 10204 3.1

#### 2.5 ACCEPTANCE CERTIFICATE.

Acceptance certificate acc. to DIN EN 10204 - 3.1

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### JORDAN PETROLEUM REFINERY CO. LTD ZARQA SITE



Date: 13 /10/2025

Attachment No. (1) -OR ATTACHMENT

### 2.6 IDENTIFYING MARKING.

A. The valves shall be marked according to EN 19.

### 2.7 DOCUMENTATION

The supplier shall provide the following with the required valves documents in a digital format and as a hard copy in English language:

- A. Paragraph 1.4 page 1/5.
- B. Operation and maintenance guidelines and manuals.
- C. Factory tests report.
- D. Declaration of conformity according to PED 97/23/EC.
- E. Material certificate EN10204 3.1 (body, disc, nozzle)
- F. Certificate of Origin

### PART 3- TRANSPORTATION.

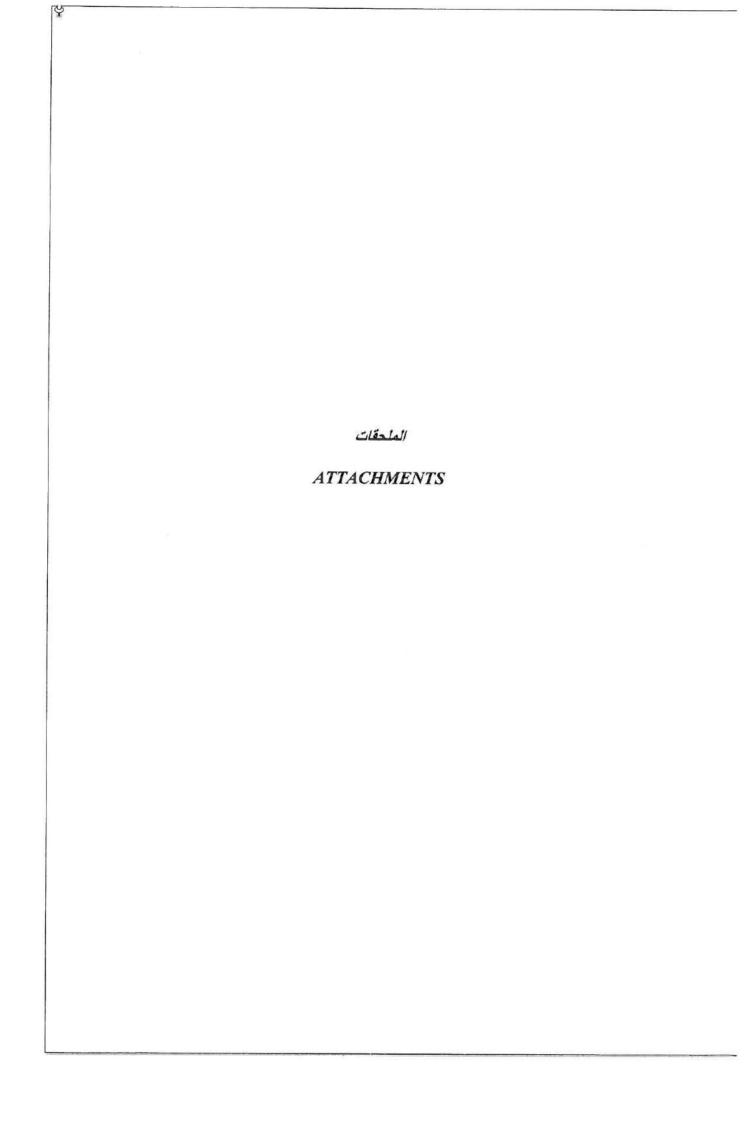
- A. Shipment requirements and preparation shall comply with API526-Sec.4
- B. All material and equipment shall be packed in an adequate way to avoid corrosion or loss during transport and interim storage on the construction site.
- C. Flanges are to be sealed with plastic caps.
- D. Special manufactures' instructions shall be followed.
- E. Manufacturer, product type and item number shall be marked on the package.
- F. Transportation of packing and documents shall be <u>CPT (Queen Alia International Airport)</u>.

S.N   1   2   3   4   4   5   6   6   7   7   8   9   10   11   12   13   14   15   16   (17   18   19   (17	PAGE: 4/5  Field Name TAG SUPPLIER FABRICATION TYPE PCS DESIGNATION PROCESS LINE OR EQUIP SYMBOL CONSTRUCTIONAL TYPE SEAT TYPE BALANCING BELLOW BONNET TYPE BODY MATERIAL NOM DIAM (mm) INLET X OUTLET INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Data PSV-710, 711,712,713,714, & 715  6 Thermal Relief valve / Conventional Process crude line Spring loaded Full nozzle  Closed  Carbon steel 3/4" X 1" Flange 3/4" 150 #, ANSI 16.5 RF, ANSI 16.5 Flange 1" 150 #, ANSI 16.5 RF, ANSI 16.5 3/4" X 0.71 X 1"  Stainless steel Stainless steel Carbon steel
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5   16   7   7   8   8   9   10   11   12   13   14   15   16   17   18   19   19   19   19   19   19   19	DESIGNATION PROCESS LINE OR EQUIP SYMBOL CONSTRUCTIONAL TYPE SEAT TYPE BALANCING BELLOW BONNET TYPE BODY MATERIAL NOM DIAM (mm) INLET X OUTLET INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Thermal Relief valve / Conventional Process crude line Spring loaded Full nozzle  Closed  Carbon steel 3/4" X 1" Flange 3/4" 150 # , ANSI 16.5 RF, ANSI 16.5 Flange 1" 150 # , ANSI 16.5 RF, ANSI 16.5 SF, ANSI 16.5 SF, ANSI 16.5 SF, ANSI 16.5 Carbon steel  Stainless steel Carbon steel
6   7   7   8   8   9   10   11   12   13   14   15   16   17   17   18   19   19   19   19   19   19   19	PROCESS LINE OR EQUIP SYMBOL CONSTRUCTIONAL TYPE SEAT TYPE BALANCING BELLOW BONNET TYPE BODY MATERIAL NOM DIAM (mm) INLET X OUTLET INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Process crude line Spring loaded Full nozzle  Closed  Carbon steel 3/4" X 1" Flange 3/4" 150 # , ANSI 16.5 RF, ANSI 16.5 Flange 1" 150 # , ANSI 16.5 RF, ANSI 16.5 SF, ANSI 16.5 SF, ANSI 16.5 SF, ANSI 16.5 Carbon steel Carbon steel
7 8 9 1 10 11 11 12 13 14 14 15 16 16 17 18 19 19 12 22 23 12 23 12 25 72 26 19 27 28 19 30 13 1 13 2 13 3 3 4 2 3 3 3 4 2 1 10 10 10 10 10 10 10 10 10 10 10 10 1	CONSTRUCTIONAL TYPE SEAT TYPE BALANCING BELLOW BONNET TYPE BODY MATERIAL NOM DIAM (mm) INLET X OUTLET INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Closed  Carbon steel 3/4" X 1" Flange 3/4" 150 # , ANSI 16.5 RF, ANSI 16.5 Flange 1" 150 # , ANSI 16.5 RF, ANSI 16.5 Stainless steel Carbon steel
8 9 1 10 11 11 12 13 14 15 16 00 17 18 19 00 21 00 22 10 22 23 10 10 10 10 10 10 10 10 10 10 10 10 10	SEAT TYPE BALANCING BELLOW BONNET TYPE BODY MATERIAL NOM DIAM (mm) INLET X OUTLET INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Closed  Carbon steel
9   10   11   12   13   14   15   16   17   18   19   19   19   19   19   19   19	BALANCING BELLOW BONNET TYPE BODY  MATERIAL NOM DIAM (mm) INLET X OUTLET INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Carbon steel
10   1   1   1   1   1   1   1   1   1	BONNET TYPE BODY  MATERIAL  NOM DIAM (mm) INLET X OUTLET INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Carbon steel
11 12 13 14 15 16 17 18 19 20 21 22 23 24 24 25 26 27 28 29 30 31 32 33 34	MATERIAL NOM DIAM (mm) INLET X OUTLET INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Carbon steel
11	MATERIAL  NOM DIAM (mm) INLET X OUTLET  INLET NOZZLE THREAD FLANGE  FLANGE ND NP STANDARD  FLANGE FACING STANDARD  OUTLET NOZZLE THREAD FLANGE  FLANGE ND NP STANDARD  FLANGE FACING STANDARD  ORIFICE DESIGNATION  TRIM  SEAT & DISC  GUIDE & RING (S)  SPRINGS  BELLOWS  ACCESSORIES  LEVER PLAIN OR PACKED	3/4" X 1" Flange 3/4" 150 # , ANSI 16.5 RF, ANSI 16.5 Flange 1" 150 # , ANSI 16.5 RF, ANSI 16.5 3/4" X 0.71 X 1"  Stainless steel Stainless steel Carbon steel
12	NOM DIAM (mm) INLET X OUTLET INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	3/4" X 1" Flange 3/4" 150 # , ANSI 16.5 RF, ANSI 16.5 Flange 1" 150 # , ANSI 16.5 RF, ANSI 16.5 3/4" X 0.71 X 1"  Stainless steel Stainless steel Carbon steel
12	NOM DIAM (mm) INLET X OUTLET INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	3/4" X 1" Flange 3/4" 150 # , ANSI 16.5 RF, ANSI 16.5 Flange 1" 150 # , ANSI 16.5 RF, ANSI 16.5 3/4" X 0.71 X 1"  Stainless steel Stainless steel Carbon steel
13   14   14   15   16   16   17   18   19   19   19   19   19   19   19	INLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Flange 3/4" 150 # , ANSI 16.5  RF, ANSI 16.5  Flange 1" 150 # , ANSI 16.5  RF, ANSI 16.5  3/4" X 0.71 X 1"  Stainless steel  Stainless steel  Carbon steel
14   1   15   16   17   18   19   19   19   19   19   19   19	FLANGE ND NP STANDARD FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	3/4" 150 # , ANSI 16.5  RF, ANSI 16.5  Flange  1" 150 # , ANSI 16.5  RF, ANSI 16.5  3/4" X 0.71 X 1"  Stainless steel  Stainless steel  Carbon steel
15   16   17   18   19   19   19   19   19   19   19	FLANGE FACING STANDARD OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	RF, ANSI 16.5 Flange 1" 150 # , ANSI 16.5 RF, ANSI 16.5 3/4" X 0.71 X 1"  Stainless steel Stainless steel Carbon steel
16 (1) 17   17   18   19 (2)   20   21   22   23   24   25   26   27   28   29   30   31   32   33   34   34   34   34   34	OUTLET NOZZLE THREAD FLANGE FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Flange 1" 150 # , ANSI 16.5 RF, ANSI 16.5 3/4" X 0.71 X 1"  Stainless steel Stainless steel Carbon steel
17   18   19   19   19   19   19   19   19	FLANGE ND NP STANDARD FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	1" 150 # , ANSI 16.5 RF, ANSI 16.5 3/4" X 0.71 X 1"  Stainless steel Stainless steel Carbon steel
18   19   0   19   19   19   19   19   19	FLANGE FACING STANDARD ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	RF, ANSI 16.5 3/4" X 0.71 X 1"  Stainless steel Stainless steel Carbon steel
19 (20 1) 21 (22 1) 22 (23 1) 24 (25 1) 26 (27 1) 28 (29 1) 30 (31 1) 32 (33 1) 34 (31 1) 34 (31 1)	ORIFICE DESIGNATION TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	3/4" X 0.71 X 1"  Stainless steel Stainless steel Carbon steel
20 3 21 0 22 3 23 1 24 1 25 26 6 27 28 1 29 30 31 32 33 34 3	TRIM SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Stainless steel Stainless steel Carbon steel
20 3 21 6 22 3 23 1 24 1 25 26 6 27 28 1 29 30 31 32 33 33 33 34	SEAT & DISC GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Stainless steel Carbon steel
21 (22 (32 (32 (32 (32 (32 (32 (32 (32 (32	GUIDE & RING (S) SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Stainless steel Carbon steel
22 3 1 2 3 1 2 4 1 2 5 1 2 6 1 1 2 7 2 8 1 8 1 1 2 9 1 3 1 3 2 1 3 3 3 4 3 3 4 3 1 3 4 3 1 4 1 1 1 1 1	SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Carbon steel
22 3 1 2 3 1 2 4 1 2 5 1 2 6 1 1 2 7 2 8 1 8 1 1 2 9 1 3 1 3 2 1 3 3 3 4 3 3 4 3 1 3 4 3 1 4 1 1 1 1 1	SPRINGS BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Carbon steel
23   1   24   25   7   26   1   27   28   1   29   30   31   32   33   34   34   34   34   34   34	BELLOWS ACCESSORIES LEVER PLAIN OR PACKED	Annually on Spanish A control ( A control
24   125   26   16   17   17   17   17   17   17   1	ACCESSORIES LEVER PLAIN OR PACKED	Dankad
24   125   26   16   17   17   17   17   17   17   1	LEVER PLAIN OR PACKED	Dooked
25 / 26   1   27   28   1   29   30   31   32   33   34   34   34   34   34   34		
26   1   27   28   1   29   30   31   32   33   34   34   34   34   34   34		1 acked
27	ADJUSTING SCREW	
27 (28   19   29   30   31   32   33   34   34	GAG	
28   1   29   30   31   32   33   34   34   34   34   34   34	DESIGN BASIS	
29   30   31   32   33   34   3	CODE	API RP-520+521
29   30   31   32   33   34   3	DESIGNED FOR FIRE OR OPERATING CONDITIONS OPERATING CONDITIONS	Thermal Expansion
30   31   32   33   34   3	FLUID	Crude Oil
31 32 33 34	REQUIRED CAPACITY M³/H TF/H	
32 33 34	OPER, PRESS, GAGE	
33 34	RELIEVING GAGE	14
34	OPER. TEMP. oC RELIEVING oC	35°C, 55 °C
		The state of the s
	SP.GR MOL.WT	0.86
PARTICIPATE TO THE PER	VISCOSITY AT O.T. cSt.	6
	CONST BACK PRESS kg/cm² (G)	1.5
	DEVELOPED BACK PRESS.GAGE	
	SPRING SET PRESSURE GAGE	12,5
39	OVER PRESSURE %	10
	ORIFICE AREA	
	ORIFICE AREA DESIGNED cm <sup>2</sup>	0.70
	SELECTED cm <sup>2</sup>	0.71
10.0	NOTES	V
42	* Non ADI standard size	
REV I	* Non API standard size	
0	* Non API standard size  DATE	BY

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*	JORDAN PETROLEUM REFINERY CO LTD	SAFETY RELIEF VALVE SPECIFICATION SHEET
	PAGE: 5/5	REF. DWG NO.
S.N	Field Name	Data
1	TAG	PSV-116,117,118 &119
2	SUPPLIER	10111011111100110
3	FABRICATION TYPE	
4	PCS	4
5	DESIGNATION	Thermal Relief valve / Conventional
6	PROCESS LINE OR EQUIP SYMBOL	Process lines
7		Spring loaded Full nozzle
	CONSTRUCTIONAL TYPE	Spring loaded Full hozzle
8	SEAT TYPE	
9	BALANCING BELLOW	01
10	BONNET TYPE	Closed
	BODY	
11	MATERIAL	Carbon steel
12	NOM DIAM (mm) INLET X OUTLET	3/4" X 1"
13	INLET NOZZLE THREAD FLANGE	Flange
14	FLANGE ND NP STANDARD	3/4" 150 # , ANSI 16.5
15	FLANGE FACING STANDARD	RF, ANSI 16.5
16	OUTLET NOZZLE THREAD FLANGE	Flange
17	FLANGE ND NP STANDARD	1" 150 # , ANSI 16.5
18	FLANGE FACING STANDARD	RF, ANSI 16.5
19	ORIFICE DESIGNATION	3/4" X 0.71 X 1"
	TRIM	THE COURT WAS DESCRIPTION WHO IS
20	SEAT & DISC	Stainless steel
21	GUIDE & RING (S)	Stainless steel
22	SPRINGS	Carbon steel
23	BELLOWS	Carbon steel
23	ACCESSORIES	
24		Packed
24	LEVER PLAIN OR PACKED	Packeu
25	ADJUSTING SCREW	
26	GAG	
- Castie	DESIGN BASIS	101 DD 500 501
27	CODE	API RP-520+521
28	DESIGNED FOR FIRE OR OPERATING CONDITIONS	Thermal Expansion
	OPERATING CONDITIONS	
29	FLUID	Gasoline
30	REQUIRED CAPACITY M3/H TF/H	
31	OPER. PRESS. GAGE	
32	RELIEVING GAGE	14
33	OPER. TEMP. oC RELIEVING oC	35°C, 55 °C
34	SP.GR MOL.WT	0.78
35	VISCOSITY AT O.T. cSt.	1.5
36	CONST BACK PRESS kg/cm² (G)	1.5
37	DEVELOPED BACK PRESS.GAGE	
38	SPRING SET PRESSURE GAGE	12,5
39	OVER PRESSURE %	10
38	ORIFICE AREA	10
40		0.70
40	ORIFICE AREA DESIGNED cm²	
41	SELECTED cm <sup>2</sup>	0.71
10.5	NOTES	
42	* Non API standard size	
	Experimentaria	ny .
REV	DATE	BY

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#### PERFORMANCE GUARANTEE

MESSRS: JORDAN PETROLEUM REFINERY CO. LTD P.O.8OX 1079 AMMAN-JORDAN DEAR SIRS. AT THE REQUEST OF MESSRS..... (HEREINAFTER CALLED "THE ACCOUNTEE"), WE HEREBY ISSUE IN YOUR FAVOUR OUR L/G NO. ..... AS FOLLOWS: WE.....,AMMAN / JORDAN IRREVOCABLY AND UNCONDITIONALLY HEREBY UNDERTAKE TO PAY YOU WITHOUT DELAY ON YOUR FIRST WRITTEN DEMAND AND NOTWITHSTANDING OPPOSITION OR OBJECTION BY THE ACCOUNTEE WITHIN THE VALIDITY OF THIS GUARANTEE, THE AMOUNT OF..... ..... IN RELATION TO TENDER NO. FOR THE SUPPLY OF..... THIS GUARANTEE SHALL REMAIN VALID UNTIL ...... AND THE VALIDITY OF THIS GUARANTEE SHALL BE RNEWED AUTOMATICLLY AND WILL NOT BE CANCALLED WITHOUT YOUR WRITTEN CONSENT (ON THE

ACCOUNTEE OWIN EXPENSE)