filter

Sample connection

Prepared for: PA6578 REV03

Date: 2025.05.10

COMMENTED



Unit 1, No. 102, Karimkhan Zand BLVD, Tehran – Iran

Tel – Fax: +9821-88832570

Website Address: www.PetroartanPart.com

Email Address: info@petro-artan.com

Revision: 03



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| Lec          | hnical | Offer |

Project: Southern Adish Gas Condensate Refinery ADISH

MR No.: SACR-DE-GEN-PI-MRQ-5541-03

outhern Adish Condensate Refinery Company

Date: 2025.05.10 Ref. No.: PA6578 Doc. No.: Rev.: 03

## **Technical Offer For Sample Connection**

# PETRO ARTAN PART

| 03   | 2025.05.10 | I.F.A       | М.КООНІ         | M.Khedri | M.Mahmoudi Asl |
|------|------------|-------------|-----------------|----------|----------------|
| 02   | 2025.04.18 | I.F.A       | H.Sheikh Shoaie | M.Khedri | M.Mahmoudi Asl |
| 01   | 2025.04.12 | I.F.A       | H.Sheikh Shoaie | M.Khedri | M.Mahmoudi Asl |
| 00   | 2025.03.09 | I.F.A       | H.Sheikh Shoaie | M.Khedri | M.Mahmoudi Asl |
| Rev. | Date       | Description | Prepared        | Checked  | Approved       |

Unit 1, No. 102, Karimkhan Zand BLVD, Tehran – Iran, Tel – Fax: +9821-88832570



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Project: Southern Adish Gas Condensate Refinery ADISH

Southern Adish Condensate Refinery Company

MR No.: SACR-DE-GEN-PI-MRQ-5541-03

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| 1    | × |   |    |       |    |   |   |        | 32   |          |   | × |        |   |   |   |        |
| 2    | × |   |    |       |    |   |   |        | 33   |          |   | × |        |   |   |   |        |
| 3    | × |   |    |       |    |   |   | N. /   | 34   |          |   | × |        |   |   |   | 4      |
| 4    | × |   |    |       |    |   |   |        | 35   |          |   |   | ×      |   |   |   |        |
| 5    | × | M |    |       |    |   |   |        | 36   |          |   |   | ×      |   |   |   |        |
| 6    | × |   |    |       |    |   |   |        | 37   |          |   |   | ×      |   |   |   |        |
| 7    | × |   |    |       |    |   |   |        | 38   |          |   |   | ×      |   |   |   |        |
| 8    | × |   |    |       |    |   |   |        | 39   |          |   |   | ×      |   |   |   |        |
| 9    | × |   |    |       |    |   |   |        | 40   |          |   |   | ×      |   |   |   |        |
| 10   | × |   |    |       |    |   |   |        | 41   |          |   |   | ×      |   |   |   |        |
| 11   | × |   |    |       |    |   |   |        | 42   |          |   |   | ×      |   |   |   |        |
| 12   | × | × |    |       |    |   |   |        | 43   |          |   |   |        |   |   |   |        |
| 13   | × |   |    |       |    |   |   |        | 44   |          |   |   |        |   |   |   |        |
| 14   | × |   |    |       |    |   |   |        | 45   |          |   |   |        |   |   |   |        |
| 15   | × |   |    |       |    |   |   |        | 46   |          |   |   |        |   |   |   |        |
| 16   | × |   | ×  |       |    |   |   |        | 47   |          |   |   |        |   |   |   |        |
| 17   | × |   |    |       |    |   |   |        | 48   |          |   |   |        |   |   |   |        |
| 18   | × |   |    |       |    |   |   |        | 49   |          |   |   |        |   |   |   |        |
| 19   | × |   |    |       |    |   |   |        | 50   |          |   |   |        |   |   |   |        |
| 20   | × |   |    |       |    |   |   |        | 51   |          |   |   |        |   |   |   |        |
| 21   | × |   |    |       |    |   |   |        | 52   |          |   |   |        |   |   |   |        |
| 22   | × |   |    |       |    |   |   |        | 53   |          |   |   |        |   |   |   |        |
| 23   | × |   |    |       |    |   |   |        | 54   |          |   |   |        |   |   |   |        |
| 24   |   | × | ×  |       |    |   |   |        | 55   |          |   |   |        |   |   |   |        |
| 25   |   | × | ×  |       |    |   |   |        | 56   |          |   |   |        |   |   |   |        |
| 26   |   | × | ×  |       |    |   |   |        | 57   |          |   |   |        |   |   |   |        |
| 27   |   | × | ×  |       |    |   |   |        | 58   |          |   |   |        |   |   |   |        |
| 28   |   | × | ×  |       |    |   |   |        | 59   |          |   |   |        |   |   |   |        |
| 29   |   | × | ×  |       |    |   |   |        | 60   |          |   |   |        |   |   |   |        |
| 30   |   | × | ×  |       |    |   |   |        | 61   |          |   |   |        |   |   |   |        |
| 31   |   |   | ×  |       |    |   |   |        | 62   |          |   |   |        |   |   |   |        |

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### Sample Connection

Project: Southern Adish Gas Condensate Refinery



Southern Adish Condensate Refinery Company

MR No.: SACR-DE-GEN-PI-MRQ-5541-03

Date: 2025.05.10 Ref. No.: PA6578 Doc. No.: Rev.: 03

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# PETRO ARTAN PART



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Southern Adish Condensate Refinery Company

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### 1. Introduction

Petro Artan Part Company is a knowledge-based manufacturing company that has 4 integrated factories and 460 experienced personnel. Relying on the knowledge of its technical managers and personnel and R&D technical team, this company produces the following items for use in the oil, gas, refining, petrochemical, power plant and steel industries of the country.

Types of high pressure and precision instrument connections (Tube & Pipe Fitting)

Types of strainers (strainers)

Types of filtration systems (Separation & Filtration System) and filter elements (Filter Elements)

## ✓ Types of sampling systems (Sample Connection & Sample Cooler & Sample Point)

Types of light tanks such as (Condensate Pot, Piping Pot)

Types of flanges

All kinds of instrumentation valves and piping (Valves)

It should be noted that the use of Petro Artan Part Company in the extraordinary items is present in the vendor list of the prestigious lists such as MOP and NPC and they perform various services that provide the services of many industries of the country.

For information about some of these projects, refer to the satisfaction tab on this site.

www.Petro artan Part.com



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Southern Adish Condensate Refinery Company

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Date: 2025.05.10 Ref. No.: PA6578 Doc. No.: Rev.: 03

### 1.1. Overview

Petro Artan Part Co. conducted different and successful projects during the years. Some of the Main products are listed below:

Heat Exchanger

Strainer

Cyclone

### **✓** Sample connection

Tank

Coalescer

Reactor

Vessel

Mesh Pad Demister

Separator's



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### 2. Glossary

### **Buyer:**

In this proposal, the project client that owns and operates the project is Southern Adish Gas Condensate Refinery.

#### Seller:

In this proposal, the company that is responsible to procure the subject equipment through the official contract with Buyer is Petro Artan Part Co.

### Third Party Inspector/Authorized Inspection Agency:

Independent inspection bodies who are responsible for inspection of equipment in accordance with the subject materials of this specification.

### Language:

All required documents will be provided in English.

### 3. Item List

| Tag No.      | Sampling Type | Accessories   | QTY. |
|--------------|---------------|---|------|
| SC-D-501-003 | TYPE D        | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1    |
| SC-D-505-002 | TYPE D        | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1    |
| SC-D-505-003 | TYPE D        | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1    |
| SC-D-505-004 | TYPE D        | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1    |
| SC-D-509-001 | TYPE D        | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1    |

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### Sample Connection

Project: Southern Adish Gas Condensate
Refinery

NEW TAG TO BE ADDED.

ADISH

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Adish Condensate Belinens Company

| SC-D-509-002  | TYPE D       |   |    |
|---------------|--------------|---|----|
| SC-D-530-002  | TYPE D       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-D-530-003  | TYPE D       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-D-523-001  | TYPE D       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-D-523-002  | TYPE D       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-D-523-003  | TYPE D       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
|               | TOTAL QUANTI | TY TYPE D 11  | 10 |
| 525-SE-001    | TYPE E       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| 525-SE-002    | TYPE E       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| 525-SE-003    | TYPE E       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-E-509-002B | TYPE E       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-E-509-005B | TYPE E       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
|               | TOTAL QUANTI | TY TYPE E   | 5  |
| SC-F-501-001  | TYPE F       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-F-501-002  | TYPE F       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-F-501-005  | TYPE F       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-F-501-006  | TYPE F       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-F-501-007  | TYPE F       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |
| SC-F-509-001  | TYPE F       | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |



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ADISH
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| SC-F-509-003  | TYPE F      | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
|---------------|-------------|---|---|
| SC-F-509-004  | TYPE F      | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-F-509-005  | TYPE F      | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
|               | TOTAL QUANT | ITY TYPE F  | 9 |
| SC-12-517-001 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-002 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-004 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-006 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-008 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-010 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-012 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-014 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-015 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-016 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-020 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-022 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-023 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |
| SC-12-517-029 | TYPE 12     | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1 |



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|------------------|------------------|---------|----------------------|---------|---------|--|
| S                | C-12-517-033     | TYPE 12 | VALVE, FITTING, TUBI |         | 1       |  |

| SC-12-517-033          | TYPE 12 VALVE, FITTING, TUBING, HOSE AN QUICK CINNECTION, SKID |   | 1  |  |  |
|------------------------|--|---|----|--|--|
| SC-12-517-035          | TYPE 12  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
|                        | TOTAL QUANTI   | TY TYPE 12  | 16 |  |  |
| SC-14-517-003          | TYPE 14  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
| SC-14-517-005          | TYPE 14  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
| SC-14-517-009          | TYPE 14  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
| SC-14-517-011          | TYPE 14  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
| SC-14-517-013          | TYPE 14  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
| SC-14-517-021          | TYPE 14  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
| SC-14-517-025          | TYPE 14  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
| SC-14-517-030          | TYPE 14  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
| SC-14-517-031          | TYPE 14  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
|                        | TOTAL QUANTI   | TY TYPE 14  | 9  |  |  |
| SC-17-517-026          | TYPE 17  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
| SC-17-517-027          | TYPE 17  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
| TOTAL QUANTITY TYPE 17 |  |   |    |  |  |
| SC-20-517-024          | TYPE 20  | VALVE, FITTING, TUBING, HOSE AND QUICK CINNECTION, SKID | 1  |  |  |
|                        | TOTAL QUANTI   | TY TYPE 20  | 1  |  |  |



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### 4. Scope of Supply

Referring to the subject inquiry, our scope of work involves the design, fabrication, and delivery of 52 sets of **Sample Connection** in compliance with the Technical Specifications and documents provided.

This scope of supply is as per clauses <u>3</u> of Material Requisition for Sample connection Document Numbers SACR- DE-GEN-PI-MRQ-5541-03.

#### 4.1. Exclusions

#### 4.2. Deviations

## Please see attachment 1

### 4.3. Codes and Standards

| Spec No. and Description  |
|---|
| ASME/ANSI B 31.8: Gas Transmission and Distribution Piping System |
| ASME B16.5 for size up to 24"                                     |
| ASME B16.47 series "B" for size over 24"                          |
| NACE MR0175 / ISO 15156-1   |

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### 4.4. Commissioning & pre-commissioning Spare Parts

Commissioning spare parts are not required.

### 4.5. <u>Two Years Spare Parts</u>

Two years spare parts as per below specification is included in our scope of supply.

Sample Bottle: 100% for each tag.

### 5. Scope of Work

PAP is responsible for the design works, supply of materials, fabrication, shop assembling, shop inspection and tests, guarantee, painting, packing, transportation and satisfactory operation of the entire unit to the extent of the PAP supply.

The PAP have overall responsibility for the coordination with his Sub-Vendor, and for the proper execution of any accessory item assembly, testing, delivery and any other service defined herein.

This scope of work is as per clauses 4 of Material Requisition for Sample Connection Document number SACR- DE-GEN-PI-MRQ-5541-03 exactly which includes the below main items:

| Items                                | Required by CLIENT | Proposed<br>by Vendor<br>(Note 4) | Remarks |
|--------------------------------------|--------------------|-----------------------------------|---------|
| Engineering Design and Documentation | (X)                | (X)                               |         |
| Manufacturing and Assembling         | ( )                | (X)                               |         |
| PIM (pre-inspection meeting)         | ( )                | (X)                               |         |
| 4. Procurement                       | ( )                | (X)                               |         |
| 5. Process, mechanical guarantee     | ( )                | (X)                               |         |



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Inspection and Testing at shop ( ) (X) Painting at shop (Included rust prevention for storage) ( ) (X) Packing, Protection, Marking and Color Coding ( ) 8. (X) Shipping and Transportation (Included unload to 9. ( ) (X) export port) according to Delivery Conditions 10. Certification (Included Test Report) ( ) (X) 11. Training of Owner's Personnel (If applicable) ( ) (X) ( ) 12. Documentation as per the requirements of this (X) specification 13. Rust prevention for storage (X) 14. Spare part ( ) (X) (X) 15. Guarantee ( ) 16. Others specified in this Requisition (X)

### 6. Documentations

Our documentation will be prepared and will be submitted in accordance with the standard specifications. Regarding demister products, we provide the customers with technical documents including general arrangement drawing, ITP/QCP and if necessary manufacturing procedures.

All documentations and drawings will be performed as per clause 6 of MRs "Documents shall be submitted by vendor" as minimum.

- General arrangement drawing
- As built drawing
- Inspection and test procedure



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- Final data book
- Material certificate
- Name plate drawing
- Progress report
- Packing list

#### 7. Technical and Fabrication Data

Technical data and material specifications of the goods, which are stated in our scope of supply, are in accordance with ASME and the technical specification and documents.

The required raw material will be procured brand new unused according to international standards and mill test certificates will be submitted as per EN10204-3.1. In this regard, our sub-vendor list is attached in appendix D. Some parts of fabrication activities are described as bellow:

#### 7.1. Welding

Welding will be done according to the confirmed WPS's and PQR's by qualified and certified welders and column, GMAW, GTAW and SMAW processes in accordance with applicable standards.

### 7.2. Rolling

Roll bending will be done by our four Rollers roller, 3.2-meter breadth rolling machine at our site. The capacity of above-mentioned machine is up to 50-mm thickness at 3.2 meter width.

#### 7.3. Hydrostatic Test

Hydrostatic test will be done in accordance with applicable standard and project specification.

### 8. Inspection Procedure

Inspection procedure shall be performed in accordance with the requirements of specifications of Inspection which will be submitted prior to manufacturing (such as PQR), by considering the



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Regulations for quality control inspection procedures.

### 9. Sand Blast and Painting

External surfaces of the vessels are sand blasted and painted as per client's painting specification. Doc. No: **Not Specify** 

### 10. Packing

Packing of the goods will be done according to professional standards and in a safe manner in order to prevent damage during transport.

### 11. Delivery

Delivery of the goods, which are stated in our scope of supply, will be in accordance with the following conditions:

### 11.1. Place of Delivery:

Manufacturing site is PETRO ARTAN PART factory located at SAFADASHT Iran. Delivery of the goods will be Ex-works.

### 11.2. Time of Delivery:

Within 6 months after placement of the official order and receiving the down payment considering 14 days for client's approval on technical documents.

### 12. Guarantee

Vendor will guarantee the operation of the equipment to the specified design conditions. Vendor will warrant the engineering, materials and workmanship of the equipment for a period of 12 months after successful start-up or eighteen (18) months after shipping whichever comes earlier. Under this warranty, all materials, parts, and assemblies found to be defective during the guarantee period shall be replaced by Vendor. Vendor shall also, if required, supply the services of an



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experienced engineer to supervise the necessary repairs and replacements.

### 13. Quality Control/ Quality Assurance

Petro Artan Part Company is committed to providing goods and services which are fit for their intended purpose and confirm to the requirements of the company organization and its clients.

To satisfy these commitments, the company has established quality control procedures as applicable to the nature of the goods and services provided by the company.

Directors and departmental heads are required to ensure that all employees are fully apprised of all necessary procedures, work instructions and technical data to enable them to perform their specific tasks in a systematic and effectively controlled manner which is readily capable of being monitored for conformity.

NACE and all the materials fully comply with the requirements of SACR-DE-GEN-PI-SPC-0029 and NACE MR0175/ISO 15156 respectively.



### Sample Connection

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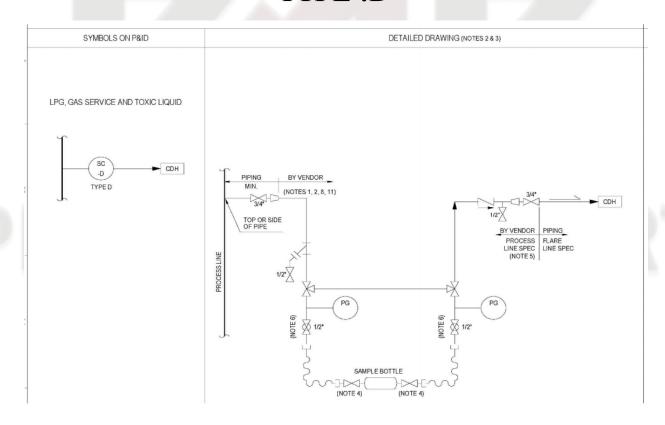
Southern Adish Condensate Refinery Company

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### 14. Appendices

### 14.1. Appendix A: P & ID

### TYPE:D





### Sample Connection

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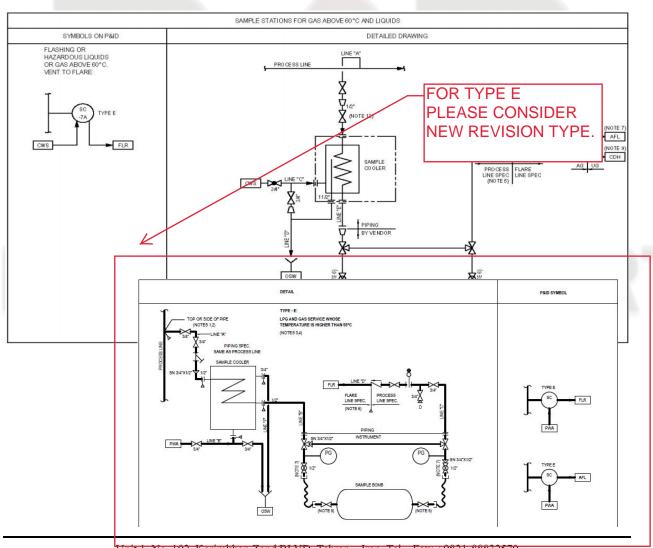
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### TYPE :E



Unit 1, No. 102, Karimkhan Zand BLVD, Tehran – Iran, Tel – Fax: +9821-88832570



### Sample Connection

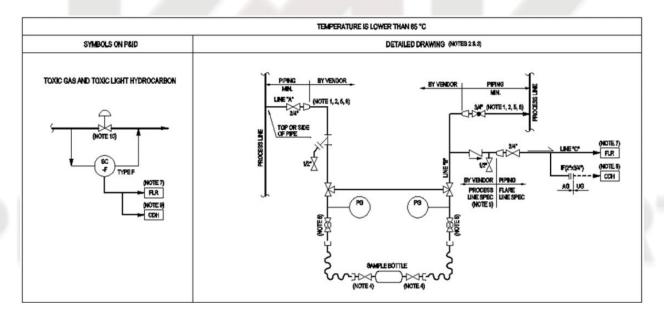
Project: Southern Adish Gas Condensate Refinery

**ADISH** 

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### TYPE: F





### Sample Connection

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**ADISH** 

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Doc. No.:

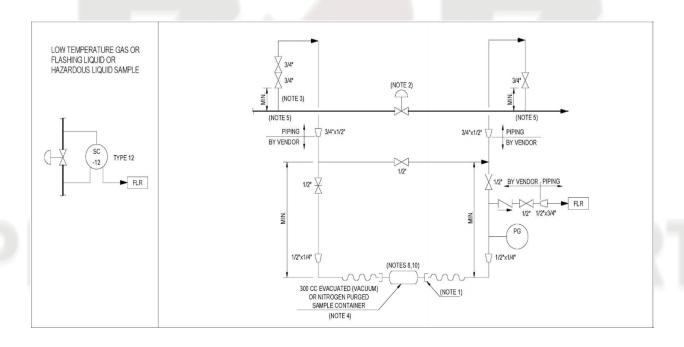
Southern Adish Condensate Refinery Company

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### **TYPE: 12**





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### **Technical Offer**

### Sample Connection

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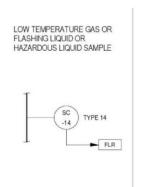
Doc. No.:

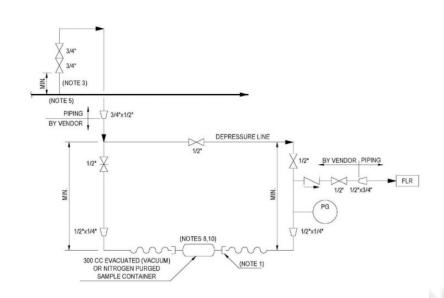
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### **TYPE: 14**







Ref. No.: PA6578

Date: 2025.05.10

### **Technical Offer**

### Sample Connection

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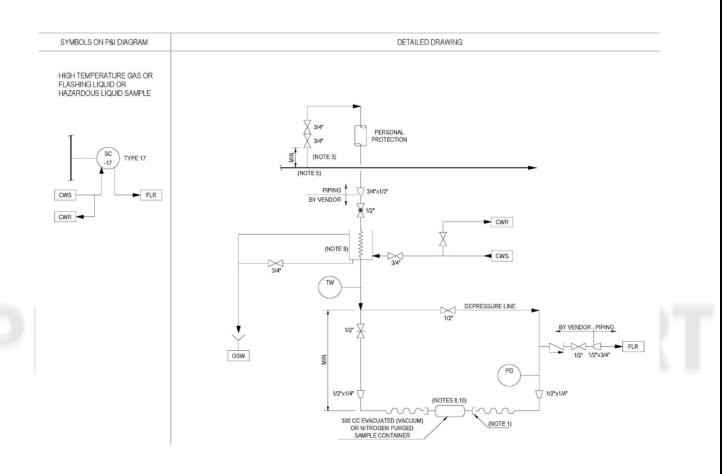
MR No.: SACR-DE-GEN-PI-MRQ-5541-03

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### **TYPE: 17**





### Sample Connection

Project: Southern Adish Gas Condensate Refinery

**ADISH** 

MR No.: SACR-DE-GEN-PI-MRQ-5541-03

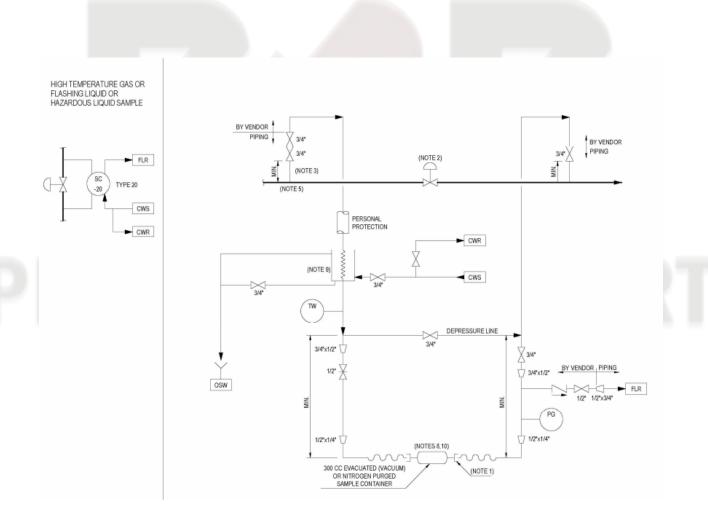
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### **TYPE: 20**



Unit 1, No. 102, Karimkhan Zand BLVD, Tehran – Iran, Tel – Fax: +9821-88832570



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Please check vendor's clarification sheet.

14.2. **Appendix B: MTO** 

### General Notes:

#### Purchaser's Notes:

- -Material of all components should be specified
- -Length of flexible hose should be specified
- -Pressure Gauge specification should be added
- -All tubing and fittings in ASTM A182 F316L
- -Cabinet Dimensions and material should be added

### Confirmed.

#### Confirmed.

- -Pressure gauge datasheet is provided in Attachment1.
- -Confirmed.
- -Detailed DWG will be submitted after P.O.



### Sample Connection

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### Special Notes:

### Following items should be added:

- 1-Flange for Inlet 3-way Ball Valve t connection
- 2-Flange for Outlet connection
- 3-3 way Ball Valve
- 4-2 Way Ball Valve
- 5-Cylinder Relief Valve (Rupture disk)
- 6-Instrumentation Quick Couplings
- 7-Heavy Duty Cylinder Valve (Needle Valve)
- 8-Strainer Filter
- 9-Globe Valve
- **10-Personal Protection**
- 11-Sample Water Cooler

- 1-Confirmed.
- 2-Confirmed.
- 3- For Types D, E, F is considered. However for other types please refer vendor's clarification document in attachment.2.
- 4- Confirmed
- 5-According to MTO, Cylinder's needle valves are equipped with rupture Disc.
- 6-Confirmed
- 7-Confirmed
- 8- For Types D, F is considered. However for others please check the vendor's clarification document in attachment.2.
- 9- As mentioned in vendor's clarification document in attachment.2, needle valve will be provided instead of pre sample cooler globe valve.
- 10- Confirmed. For 17 and 20 types pre sample cooler personnel protection is considered. However for type E please refer to vendor's clarification document in attachment.2.
- 11- Confirmed. For 17 and 20 types sample cooler is considered. However for type E please refer to vendor's clarification document in attachment.2.



### Sample Connection

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|      |   | TYPE D                                       | )              |                    |             |     |
|------|---|--|----------------|--------------------|-------------|-----|
| Item | Description                                   | Material                                     | Size(inch)     | Class              | Connection  | Qty |
| 1    | Inlet and Outlet<br>Reducing Threaded Flange  | A182 F316L                                   | 3/4" x<br>1/2" | #150<br>or<br>#300 | RF          | 2   |
| 2    | Y Type Strainer with drain valve              | A182 F316L                                   | 1/2"           | #3000              | OD          | 1   |
| 3    | 3 Way Ball Valve, Seat:<br>PTFE, Trim: SS316L | A182 F316L                                   | 1/2"           | #3000              | OD          | 2   |
| 4    | TEE   | A182 F316L                                   | 1/2"           | #3000              | Female - OD | 2   |
| 5    | Pressure Gauge                                |  | As Per Attac   | hment 1            |             | 2   |
| 6    | 2 Way Gauge Manifold                          | A182 F316L                                   | 1/2"           | #3000              | NPT F x M   | 2   |
| 7    | Needle Valve with Repture<br>Disc             | A182 F316L                                   | 1/4"           | #3000              | NPT F x M   | 2   |
| 8    | 2 Way Ball Valve, Seat:<br>PTFE, Trim: SS316L | A182 F316L                                   | 1/2"           | #3000              | OD          | 4   |
| 9    | Quick Coupling                                | A182 F316L                                   | 1/2"           | #3000              |             | 2   |
| 10   | Sampling Cylinder                             | Body: A312<br>TP316L<br>Cap : A403<br>WP316L | 2"             |                    |             | 1   |
| 11   | Flexible Hose - L: 600 mm                     | Inner PTFE<br>Outer SS 316L                  | 1/2"           | #3000              |             | 2   |
| 12   | Check Valve, Poppet Type                      | A182 F316L                                   | 1/2"           | #3000              | OD          | 1   |



### Sample Connection

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|      | TYPE E                                     |   |                |                 |            |     |  |  |
|------|--|---|----------------|-----------------|------------|-----|--|--|
| Item | Description                                | Material  | Size(inch)     | Class           | Connection | Qty |  |  |
| 1    | Reducing Threaded Flange                   | A182<br>F316L                                     | 3/4" x<br>1/2" | #150 or<br>#300 | RF         | 2   |  |  |
| 2    | 3 Way Ball Valve, Seat: PTFE, Trim: SS316L | A182<br>F316L                                     | 1/2"           | #3000           | OD         | 2   |  |  |
| 3    | Needle Valve with Rupture Disc             | A182<br>F316L                                     | 1/4"           | #3000           | NPT F x M  | 2   |  |  |
| 4    | 2 Way Ball Valve, Seat: PTFE, Trim: SS316L | A182<br>F316L                                     | 1/2"           | #3000           | OD         | 3   |  |  |
| 5    | Quick Coupling                             | A182<br>F316L                                     | 1/2"           | #3000           |            | 2   |  |  |
| 6    | Sampling Cylinder                          | Body:<br>A312<br>TP316L<br>Cap:<br>A403<br>WP316L | 2"             |                 |            | 1   |  |  |
| 7    | Flexible Hose - L: 600 mm                  | Inner<br>PTFE<br>Outer SS<br>316                  | 1/2"           | #3000           |            | 2   |  |  |
| 8    | Check Valve, Poppet Type                   | A182<br>F316L                                     | 1/2"           | #3000           | OD         | 1   |  |  |



### Sample Connection

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Southern Adish Condensate Refinery Company

|      |   | TYPE F                                      |                |                 |                |     |
|------|---|---|----------------|-----------------|----------------|-----|
| Item | Description                                   | Material                                    | Size(inch)     | Class           | Connection     | Qty |
| 1    | Reducing Threaded Flange                      | A182 F316L                                  | 3/4" x<br>1/2" | #150 or<br>#300 | RF             | 3   |
| 2    | Y Type Strainer with drain valve              | A182 F316L                                  | 1/2"           | #3000           | OD             | 1   |
| 3    | 3 Way Ball Valve, Seat:<br>PTFE, Trim: SS316L | A182 F316L                                  | 1/2"           | #3000           | OD             | 2   |
| 4    | TEE   | A182 F316L                                  | 1/2"           | #3000           | Female -<br>OD | 2   |
| 5    | Pressure Gauge                                |   | As Per Attac   | hment 1         |                | 2   |
| 6    | 2 Way Gauge Manifold                          | A182 F316L                                  | 1/2"           | #3000           | NPT F x M      | 2   |
| 7    | Needle Valve with Rupture<br>Disc             | A182 F316L                                  | 1/4"           | #3000           | NPT F x M      | 2   |
| 8    | 2 Way Ball Valve, Seat:<br>PTFE, Trim: SS316L | A182 F316L                                  | 1/2"           | #3000           | OD             | 4   |
| 9    | Quick Coupling                                | A182 F316L                                  | 1/2"           | #3000           |                | 2   |
| 10   | Sampling Cylinder                             | Body: A312<br>TP316L<br>Cap: A403<br>WP316L | 2"             |                 |                | 1   |
| 11   | Flexible Hose - L: 600 mm                     | Inner PTFE<br>Outer SS 316                  | 1/2"           | #3000           |                | 2   |
| 12   | Check Valve, Poppet Type                      | A182 F316L                                  | 1/2"           | #3000           | OD             | 1   |



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|      | <b>TYPE 12</b>                                |  |                |                 |                |     |  |
|------|---|--|----------------|-----------------|----------------|-----|--|
| Item | Description                                   | Material                                     | Size (inch)    | Class           | Connection     | Qty |  |
| 1    | Reducing Threaded Flange                      | A182 F316L                                   | 3/4" x<br>1/2" | #150 or<br>#300 | RF             | 2   |  |
| 2    | TEE   | A182 F316L                                   | 1/2"           | #3000           | Female -<br>OD | 1   |  |
| 3    | Pressure Gauge                                | A  | As Per A       | ttachment 1     |                | 1   |  |
| 4    | 2 Way Gauge Manifold                          | A182 F316L                                   | 1/2"           | #3000           | NPT F x M      | 1   |  |
| 5    | Needle Valve with<br>Rupture Disc             | A182 F316L                                   | 1/4"           | #3000           | NPT F x M      | 2   |  |
| 6    | 2 Way Ball Valve, Seat:<br>PTFE, Trim: SS316L | A182 F316L                                   | 1/2"           | #3000           | OD             | 4   |  |
| 7    | Quick Coupling                                | A182 F316L                                   | 1/4"           | #3000           |                | 2   |  |
| 8    | Sampling Cylinder                             | Body: A312<br>TP316L<br>Cap : A403<br>WP316L | 2"             |                 |                | 1   |  |
| 9    | Flexible Hose - L: 600 mm                     | Inner PTFE<br>Outer SS<br>316                | 1/4"           | #3000           |                | 2   |  |
| 10   | Check Valve, Poppet Type                      | A182 F316L                                   | 1/2"           | #3000           | OD             | 1   |  |



### Sample Connection

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| TYPE 14 |   |  |                |                 |                |     |  |
|---------|---|--|----------------|-----------------|----------------|-----|--|
| Item    | Description                                   | Material                                     | Size<br>(inch) | Class           | Connection     | Qty |  |
| 1       | Reducing Threaded<br>Flange                   | A182 F316L                                   | 3/4" x<br>1/2" | #150 or<br>#300 | RF             | 2   |  |
| 2       | TEE   | A182 F316L                                   | 1/2"           | #3000           | Female -<br>OD | 1   |  |
| 3       | Pressure Gauge                                |  | As Per Att     | achment 1       |                | 1   |  |
| 4       | 2 Way Gauge Manifold                          | A182 F316L                                   | 1/2"           | #3000           | NPT F x M      | 1   |  |
| 5       | Needle Valve with<br>Rupture Disc             | A182 F316L                                   | 1/4"           | #3000           | NPT F x M      | 2   |  |
| 6       | 2 Way Ball Valve, Seat:<br>PTFE, Trim: SS316L | A182 F316L                                   | 1/2"           | #3000           | OD             | 4   |  |
| 7       | Quick Coupling                                | A182 F316L                                   | 1/4"           | #3000           |                | 2   |  |
| 8       | Sampling Cylinder                             | Body: A312<br>TP316L<br>Cap : A403<br>WP316L | 2"             |                 |                | 1   |  |
| 9       | Flexible Hose - L: 600 mm                     | Inner PTFE<br>Outer SS 316                   | 1/4"           | #3000           |                | 2   |  |
| 10      | Check Valve, Poppet<br>Type                   | A182 F316L                                   | 1/2"           | #3000           | OD             | 1   |  |

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### Sample Connection

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| TYPE 17 |   |   |                |               |                |     |
|---------|---|---|----------------|---------------|----------------|-----|
| Item    | Description                                   | Material                                    | Size(inch)     | Class         | Connection     | Qty |
| 1       | Reducing Threaded Flange                      | A182 F316L                                  | 3/4" x<br>1/2" | #150 or #300  | RF             | 2   |
| 2       | Needle Valve                                  | A182 F316L                                  | 1/2"           | #3000         | OD             | 1   |
| 3       | Sample Cooler                                 | A106 Gr.B                                   | 6"             |               |                |     |
| 4       | 2 Way Ball Valve, Seat:<br>PTFE, Trim: SS316L | A182 F316L                                  | 3/4"           | #3000         | OD             | 3   |
| 5       | Threaded Flange                               | A182 F316L                                  | 3/4"           | #150 or #300  | RF             | 3   |
| 6       | Thermowell Pot, L=200 mm                      | Body: A312<br>TP316L<br>Cap: A403<br>WP316L |                |               |                |     |
| 7       | Thermowell                                    |   | As Per A       | ttachment 1   |                | 1   |
| 8       | Thermometer                                   | As Per Attachment 1                         |                |               | 1              |     |
| 9       | TEE   | A182 F316L                                  | 1/2"           | #3000         | Female -<br>OD | 1   |
| 10      | Pressure Gauge                                |   | As per attac   | hed Datasheet |                | 1   |



### Sample Connection

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Southern Adish Condensate Refinery Company

| 11 | 2 Way Gauge Manifold                          | A182 F316L                                   | 1/2" | #3000 | NPT F x M | 1 |
|----|---|--|------|-------|-----------|---|
| 12 | Needle Valve with Rupture<br>Disc             | A182 F316L                                   | 1/4" | #3000 | NPT F x M | 2 |
| 13 | 2 Way Ball Valve, Seat:<br>PTFE, Trim: SS316L | A182 F316L                                   | 1/2" | #3000 | OD        | 3 |
| 14 | Quick Coupling                                | A182 F316L                                   | 1/2" | #3000 |           | 2 |
| 15 | Sampling Cylinder                             | Body: A312<br>TP316L<br>Cap : A403<br>WP316L | 2"   |       |           | 1 |
| 16 | Flexible Hose - L: 600 mm                     | Inner PTFE<br>Outer SS<br>316                | 1/4" | #3000 |           | 2 |
| 17 | Check Valve, Poppet Type                      | A182 F316L                                   | 1/2" | #3000 | OD        | 1 |
| 18 | Personnel Protection                          |  |      |       |           |   |



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| TYPE 20 |  |   |                |                 |                |     |
|---------|--|---|----------------|-----------------|----------------|-----|
| Item    | Description                                      | Material  | Size(inch)     | Class           | Connection     | Qty |
| 1       | Reducing Threaded Flange                         | A182<br>F316L                                     | 3/4" x 1/2"    | #150 or<br>#300 | RF             | 3   |
| 2       | Needle Valve                                     | A182<br>F316L                                     | 1/2"           | #3000           | OD             | 1   |
| 3       | Sample Cooler                                    | A106<br>Gr.B                                      | 6"             |                 |                |     |
| 4       | 2 Way Ball Valve,<br>Seat: PTFE, Trim:<br>SS316L | A182<br>F316L                                     | 3/4"           | #3000           | OD             | 5   |
| 5       | Threaded Flange                                  | A182<br>F316L                                     | 3/4"           | #150 or<br>#300 | RF             | 3   |
| 6       | Thermowell Pot,<br>L=200 mm                      | Body:<br>A312<br>TP316L<br>Cap:<br>A403<br>WP316L |                |                 |                |     |
| 7       | Thermowell                                       | As Per Attachment 1                               |                |                 |                | 1   |
| 8       | Thermometer                                      | As Per Attachment 1                               |                |                 | 1              |     |
| 9       | TEE  | A182<br>F316L                                     | 1/2"           | #3000           | Female -<br>OD | 1   |
| 10      | Pressure Gauge                                   |   | As per attache | ed Datashee     | et             | 1   |



### Sample Connection

Project: Southern Adish Gas Condensate Refinery



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Southern Adish Condensate Refinery Company

| 11 | 2 Way Gauge<br>Manifold                          | A182<br>F316L                                     | 1/2" | #3000 | NPT F x M | 1 |
|----|--|---|------|-------|-----------|---|
| 12 | Needle Valve with Rupture Disc                   | A182<br>F316L                                     | 1/4" | #3000 | NPT F x M | 2 |
| 13 | 2 Way Ball Valve,<br>Seat: PTFE, Trim:<br>SS316L | A182<br>F316L                                     | 1/2" | #3000 | OD        | 2 |
| 14 | Quick Coupling                                   | A182<br>F316L                                     | 1/4" | #3000 |           | 2 |
| 15 | Sampling Cylinder                                | Body:<br>A312<br>TP316L<br>Cap:<br>A403<br>WP316L | 2"   |       |           | 1 |
| 16 | Flexible Hose - L:<br>600 mm                     | Inner<br>PTFE<br>Outer SS<br>316                  | 1/4" | #3000 |           | 2 |
| 17 | Check Valve, Poppet<br>Type                      | A182<br>F316L                                     | 1/2" | #3000 | OD        | 1 |
| 18 | Personnel Protection                             |   |      |       |           |   |



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### **Technical Offer**

### Sample Connection

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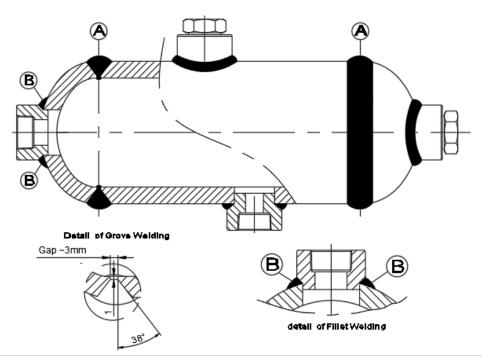
ADISH

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| NDE         |                 |      |     |     |  |
|-------------|-----------------|------|-----|-----|--|
| Weld Symbol | SCH             | V.T  | P.T | RT  |  |
| А           | V-Groove WELD   | 100% | -   | 10% |  |
| В           | PJP+FILLET WELD | 100% | 10% | -   |  |

|                | Welding Data |          |           |             |              |    |  |
|----------------|--------------|----------|-----------|-------------|--------------|----|--|
| Weld<br>Symbol |              |          |           |             |              |    |  |
| Α              | NO           | 8/ 1/6&5 | GTAW+SMAW | A5.9 & A5.4 | ER316L/E316L | 1G |  |
| В              | NO           | 8/1/6    | GTAW      | A5.9        | ER316L/316L  | 2F |  |



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Project: Southern Adish Gas Condensate Refinery

**ADISH** 

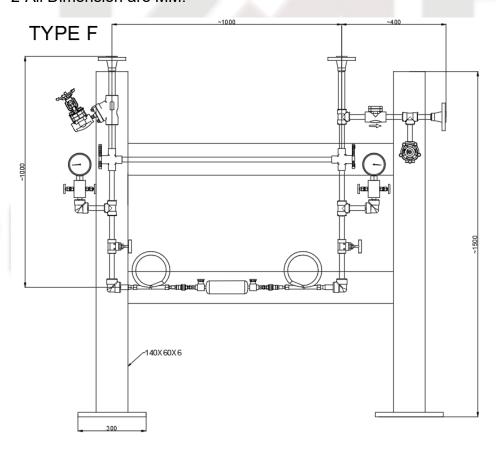
MR No.: SACR-DE-GEN-PI-MRQ-5541-03

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### Appendix C: DWG

### Note:

- 1-All Dimension are approximate.
- 2-All Dimension are MM.



Unit 1, No. 102, Karimkhan Zand BLVD, Tehran – Iran, Tel – Fax: +9821-88832570



### Sample Connection

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Southern Adish Condensate Refinery Company

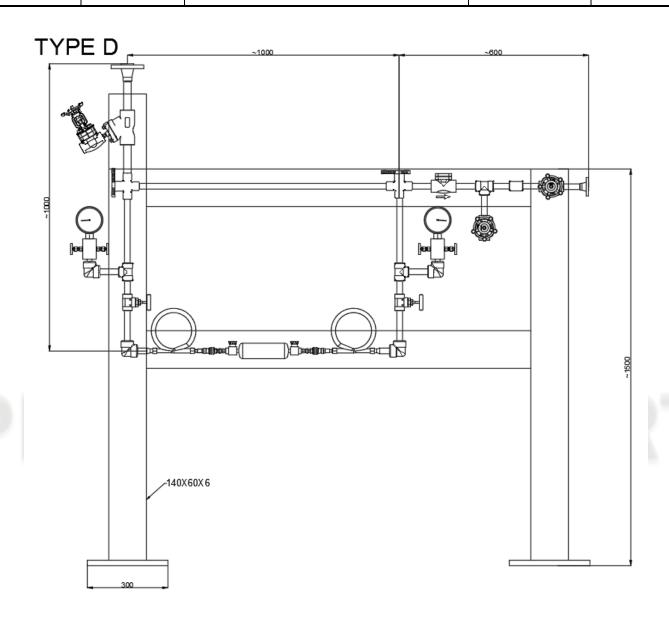
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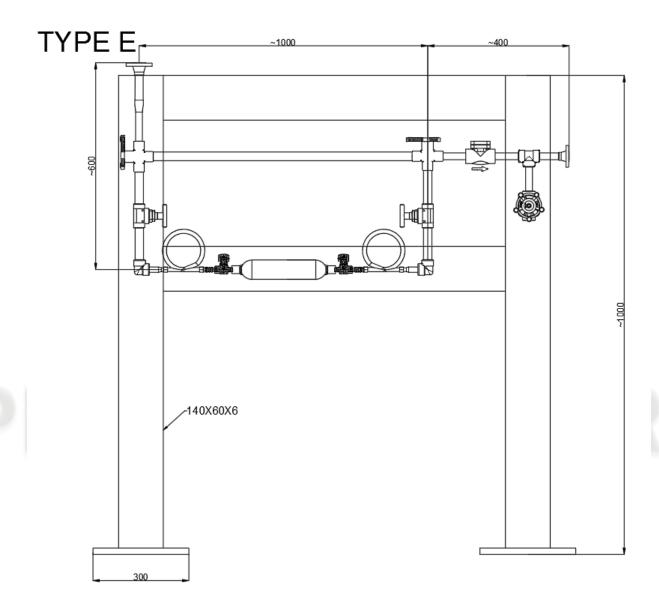


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outhern Adish Condensate Refinery Company

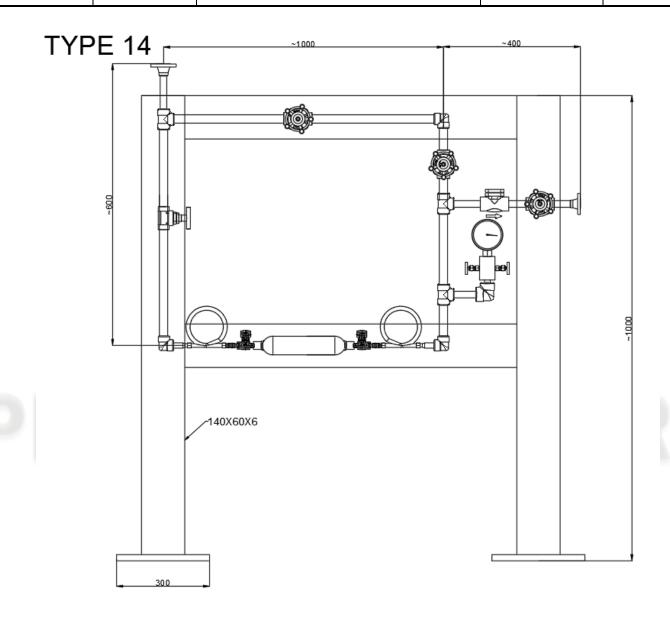
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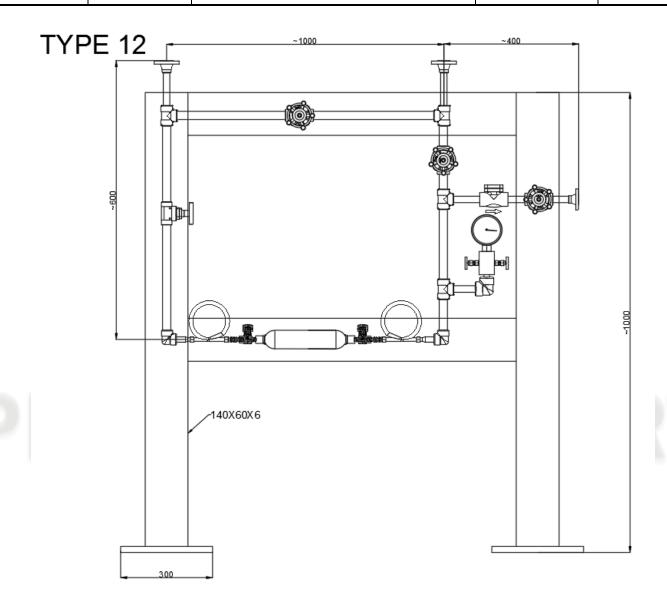


Southern Adish Condensate Refinent Com-

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### Sample Connection

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Southern Adish Condensate Refinery Company

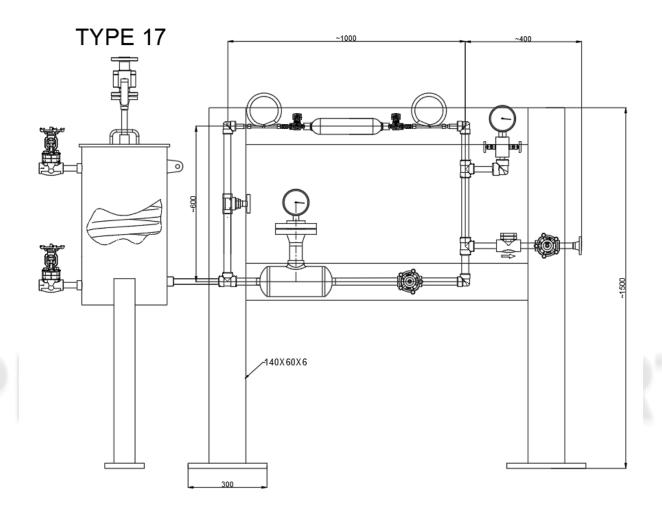
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