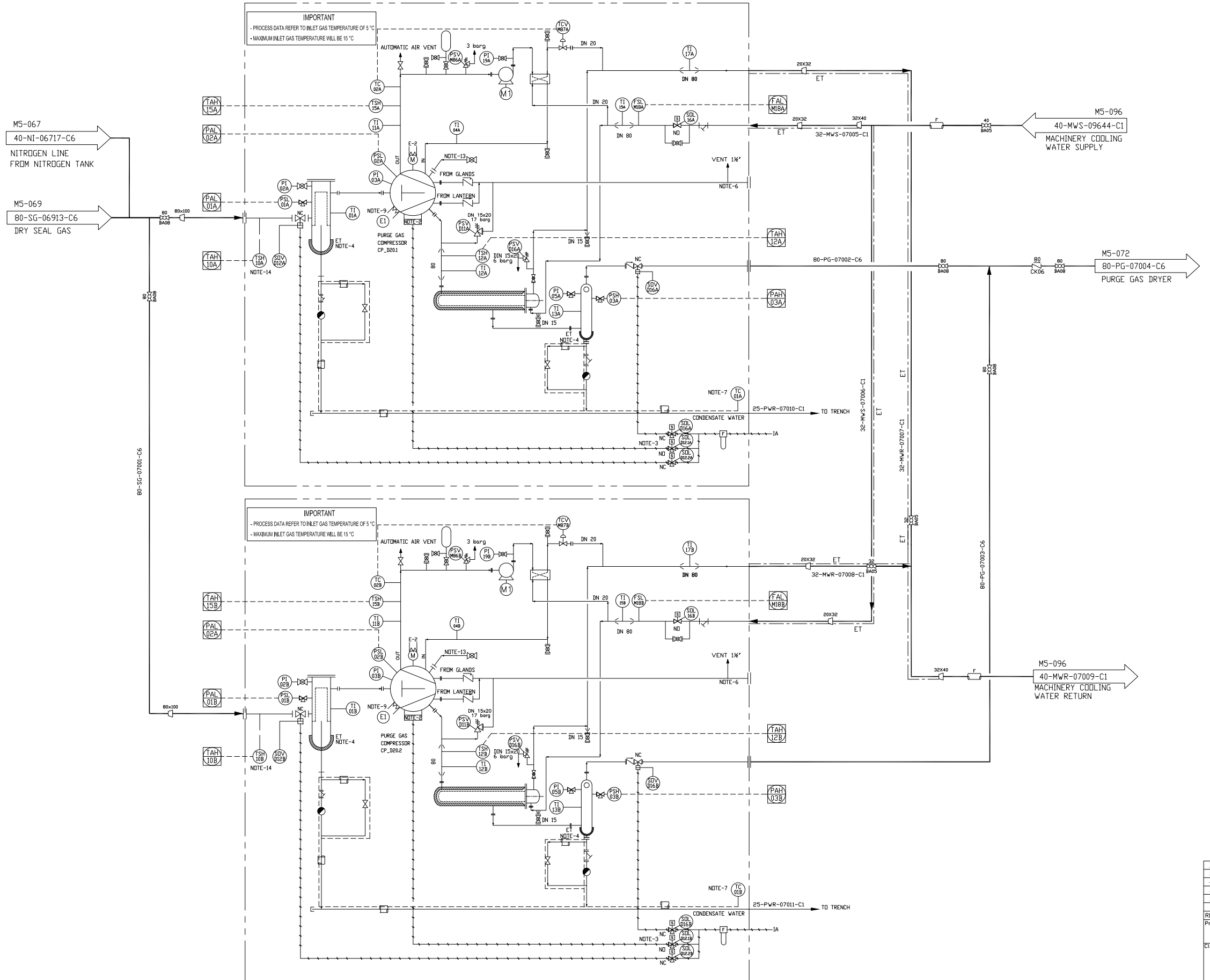

NOTES	
1	INSTRUMENTS SYMBOLS ACCORDING TO ISA RP.5.1. CODE
2	UNLOADER FORK, PNEUMATIC ACTUATION, IS INTEGRAL PART OF THE COMPRESSOR'S BODY.
3	FOR UNLOADED START ONLY
4	TRACING (HEATING CABLE) AND ISOLATION FOR BOTTOM SIDE OF SEPARATOR AND FILTER
5	ELECTRIC MOTOR WITH ANTICONDENSATION HEATER
6	LEAK GAS FROM LANTERN / GLANDES
7	TEMPERATURE CONTROLLER FOR HEATING CABLE/HEATER
8	SECONDARY COOLING STATION
9	CARTRIDGE HEATER FOR OIL,COMPLETE WITH TEMPERATURE SWITCH
10	SOLENOID VALVE ARE 24Vdc
11	CODES FOR MATERIALS : SS =stainless steel AISI 304 or 316 - CS = carbon steel galvanized
12	CONDENSATE FROM LANTERN
13	PURGING GAS INTO CRANK CASE (BEFORE COMMISIONING AND MAINTENANCE)
14	PROTECTION AGAINST INLET GAS OVER-TEMPERATURE, HIGHER THAN 33 °C

SYMBOL & LEGEND

- GLOBE VALVE
- GENERIC AIR FILTER
- "Y" STRAINER
- STEAM TRAP
- BALL VALVE
- GATE VALVE
- CHECK VALVE
- CONTROL
- SOLENOID VALVE (2 WAYS)
- SOLENOID VALVE (3 WAYS)
- VALVE WITH PNEUMATIC ACTUATOR
- (SET PRESSURE) SAFETY RELIEF VALVE
- ELECTRIC MOTOR
- INSTRUMENT CONNECTED TO CLIENT CONTROL SYSTEM VIA LOCAL JUNCTION BOX
- INSTRUMENT TYPE & TAG
- TIE-IN/TIE-OFF POINT
- INSULATION ET - ELECTRICAL TRACING
- HEATER
- MANIFOLD FOR PRESSURE INSTRUMENTS

LINE NUMBERING SYS

XXX–XXX–XXX–XXX–XX
- LINE SIZE-ON
- FLUID IDENTIFICATION
- INSULATION TYPE
- LINE NUMBER
- LINE SPEC. / MATERIAL

- PNEUMATIC SIGNAL
- TRACING & ISOLATING (PIPE)
- ELECTRICAL SIGNAL
- LIMIT OF VENDOR PACKAGE

- COMPRESSOR (TRE 700)
- EXPANSION VESSEL
- CARTRIDGE FILTER
- SEPARATOR
- WATER PUMP
- SHELL AND TUBE HEAT EXCHANGER
- PLATE HEAT EXCHANGER

REV.	DATE	DESCRIPTION	PURPOSE OF ISSUE	PREPARE	CHECK	APPROVE
Z	06/2019	AS BUILT	ASB	KHALILPOOR	SHAGHAGHI	MOHAMMADZADEH
5	01/2017	ISSUE FOR CONSTRUCTION	IFC	MMTE	SHAGHAGHI	MOHAMMADZADEH
4	10/2015	ISSUE FOR CONSTRUCTION	IFC	KHALILPOOR	PARVANI	KIOMARSI
3	03/2015	ISSUE FOR CONSTRUCTION	IFC	KHALILPOOR	PARVANI	KIOMARSI
2	09/2014	ISSUE FOR CONSTRUCTION	IFC	KHALILPOOR	PARVANI	KIOMARSI
1	08/2014	ISSUE FOR APPROVAL	IFA	KHALILPOOR	PARVANI	KIOMARSI

Project: KOWSAR GISD MEGA MODULE PROJECT

Client: شرکت توسعه آهن و فولاد گل گهر G.I.S.D.Co.

Contractor: MMTE MINES & METALS TECHNOLOGICAL ENGINEERING CO.

Client's Project	Project Code	Main Contractor	Area Code	Plant Group	Equipment Code	Document Type	Eng. Discipline	Serial No.
GISD	7–2	119	1002	7	AA	04	P	070

	SIGNATURE	DATE
DESIGNED	MMTE	01/2017
PREPARED	MMTE	01/2017
CHECKED	SHAGHAGHI	01/2017
APPROVED	MOHAMMADZADEH	01/2017

designation: PIPING & INSTRUMENTATION DIAGRAM
PURGE GAS COMPRESSORS CP–D20.1,2

drawing–No.: KGMMPG00M5070

repl. for: repl. by :

SCALE: AS SHOWN | REV.: Z | SIZE: A3 | SHEET: 1/1 | CONT. & PROJ. NO: 92/5499

Confidential:This document discloses proprietary information. It may not be reproduced nor disclosed any person, nor used for any purpose, except wiht the written permission of MMTE Co