NOTES:

1. PADDLE BLIND AND START-UP STRAINER FLANGE WILL BE CONSTRUCTED TO THE SAME THICKNESS (INCLUDING GASKETS). AFTER START-UP IS COMPLETE, THE START-UP STRAINER (SUPPLIED BY VENDOR) WILL BE REMOVED AND REPLACED WITH PADDLE BLIND
2. 40ø VALVE AND HOSE CONNECTION ON CYLINDER DRAIN TO BE INSTALLED IN THE HORIZONTAL RUN OF PIPE COMING FROM COMPRESSOR BEFORE PIPE ENTERS TRENCH.
3. INTER CONNECTION PIPING IS NOT FINALIZED YET THAT THEY WILL BE IN OUR SCOPE OF SUPPLY OR IN KOBEL CO. SCOPE OF SUPPLY.
4. SHALL BE SUPPLIED BY SWITCH GEAR SUPPLIER.

SYMBOL LIST		
SYMBOL	NAME	REMARKS
PI	PRESSURE INDICATOR	
PS	PRESSURE SWITCH	
PIS	PRESSURE INDICATOR WITH SWITCH	
PDS	PRESSURE DIFFERENCE SWITCH	
PDIS	PRESSURE DIFFERENCE INDICATOR WITH SWITCH	
PIC	PRESSURE INDICATOR CONTROLLER	
PT	PRESSURE TRANSMITTER	
TI	TEMPERATURE INDICATOR	
TS	TEMPERATURE SWITCH or THEMOSTAT	
TIS	TEMPERATURE INDICATOR WITH SWITCH	
TA	TEMPERATURE ALARM	
TE	THERMO COUPLE	
TT	TEMPERATURE TRANSMITTER	
FIT	FLOW INDICATOR WITH TRANSMITTER	
FIS	FLOW INDICATOR WITH SWITCH	
FA	FLOW ALARM	
VE	VIVRATION ELEMENT	
VT	VIVRATION TRANSMITTER	
LI	LEVEL GAUGE	
LS	LEVEL SWITCH	
⋈	GATE VALVE	
⋈	GLOVE VALVE	
⋈	CHECK VALVE	
	SIGHT GLASS	
	EXPANSION JOINT	
	PUMP	
	FILTER	
	SLEEVE JOINT	
	TRANSMITTER (PNEUMATIC)	
	CONNECTION BOX	
	ELECTRIC HEATER	
	NOISE INSULATION	
	INSTRUMENT AIR LINE	
	INSTRUMENT ELECTRICAL LEAD	
	LOCALLY MOUNTED INSTRUMENT	
	INSTRUMENT MOUNTED ON LOCAL GAUGE BOARD	
	INSTRUMENT MOUNTED ON LOCAL GAUGE BOARD(REAR)	
	INSTRUMENT MOUNTED ON CENTRAL PANEL(REAR)	
	INSTRUMENT MOUNTED ON DCS	

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 — شرکت مهندسی فن آور معادن و فلزات — 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	008

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

designation: PIPING & INSTRUMENTATION DIAGRAM
PROCESS GAS COMPRESSOR CP-A51.1

drawing-No.: KGMMPG00M5008

repl. for: repl. by:

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

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