



- NOTES:
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 - ALL ELEVATIONS ARE SPECIFIED FROM EQUIPMENT T.L. ± 0.00
 - ALL THICKNESS SHOWN IN THE DRAWING ARE INTENDED AS MINIMUM AF
 - UNLESS OTHERWISE NOTED OUTSIDE PROJECTIONS OF NOZZLES ARE MEASURED FROM EXCHANGER HORIZONTAL C.L. TO THE FLANGES CONTACT FACE. FACE OF RADIAL FLANGES ON SHELL SHALL BE PARALLEL TO C.L.
 - FLANGES FACING TO BE IN ACCORDANCE WITH ASME B.16.5 FOR 24" OR LESS AND ASME B.16.47 SERIES A FOR LARGER.
 - FLANGES FACE FINISHING ARE SERRATED WITH 125 TO 250 MICRO INCH ROUGHNESS AS PER ASME B16.5 FOR 24" AND LESS. ALSO ASME B16.47 SERIES "A" FOR MORE THAN 24".
 - GASKETS SHALL BE SPIRAL WOUND WITH FLEXIBLE GRAPHITE FILLER 4.5MM, HOOP SS316, INNER & OUTER RING SS316.
 - BOLT HOLES FOR FLANGES SHALL BE STRADDLED TO NORTH-SOUTH AND/OR EQUIPMENT C.L.
 - ALL SHARP CORNERS WILL BE ROUNDED OFF.
 - 0.5 BARG ALLOWABLE PRESSURE DROP HAS BEEN CONSIDERED FOR PASS PARTITION DESIGN.
 - TUBE BUNDLE IS REMOVABLE AND THE CLEARANCE OF BUNDLE TO SHELL IS 3.2 MM IN DIAMETER.
 - UN-FACTORED LOADS HAS BEEN APPLIED FOR LOAD COMBINATION AS PER ASCE-7 2010
 - FOR MORE SAFETY 10% CONTINGENCY FACTOR IS CONSIDERED ON BASE LOADS CALCULATIONS. SO, OVER LOADS MAY CHANGE THE LOADS & MOMENTS.
 - SETTING BOLTS HAVE 300 MPa TENSILE ALLOWABLE STRESS AND 180 MPa SHEAR ALLOWABLE STRESS AS MINIMUM.
 - ALL REINFORCED PAD HAVE 1/4" NPT TELLTAL HOLE WHICH WILL BE PLUGGED WITH GREASE AFTER THE HYDRO TEST.
 - ALL REINFORCED PAD WILL BE AIR LEAK TESTED AT 1 BARG BY USING SOAP SOLUTION.
 - PAINTING WILL BE PERFORMED BASED ON "SURFACE PREPARATION AND INTERNAL/EXTERNAL PAINTING PROCEDURE DOC. NO. BK-GCS-MF-120-QC-PR-0004"
 - PWHT WILL BE PERFORMED BASED ON "PWHT PROCEDURE DOC NO. BK-GCS-MF-120-QC--PR-0006".
 - ALL PRESSURE PARTS BUTT WELDED JOINTS ARE FULLY RADIOGRAPHED.
 - ALL WELDS ARE CONTINUOUS UNLESS OTHERWISE NOTED.
 - WHERE IN ISOLATED CASES REINFORCING PADS COVER VESSEL WELD SEAMS THESE WILL BE GROUND FLUSH AND FULLY RADIOGRAPHED FOR A DISTANCE OF 100MM MEASURED EACH SIDE OF THE COVERED WELD AREA PRIOR TO THE ATTACHMENT OF THE PAD.
 - ALL INTERNAL WELDS WILL BE SMOOTH GRINDED.
 - VESSEL HAS BEEN DESIGNED FOR FIELD HYDROTEST IN CORRODED CONDITION.
 - ALL WET PART MATERIALS MEET "SPECIFICATION FOR MATERIAL REQUIREMENTS IN SOUR SERVICE DOC NO. "BK-GNRL-PEDCO-000-PI-SP-0008"
 - ALL PRESSURE PARTS ARE NORMALIZED AND COMPLY WITH NACE MR0175/ISO 15156.
 - THE EQUIPMENT IS LOCATED ON SKID AND ELEVATION OF T.O.G. WILL BE FINALIZED LATER.
 - WILL BE FINALIZED BY INTERNAL MANUFACTURER LATER.
 - THE #1 LIFTING LUG IS ONLY FOR LIFTING OF CHANNEL AND THE #2 LIFTING LUGS IS FOR LIFTING OF COMPLETE EXCHANGER.
 - ALL MATERIALS DIRECTED WELDED TO PRESSURE PARTS, IS SAME AS SHELL.

ABBREVIATIONS & LEGEND			
T.L	TANGENT LINE	N	NORMALIZED
B.L	BASE LINE	P.W.H.T.	POST WELD HEAT TREATMENT
C.O.G.	CENTER OF GRAVITY	R.F.	RAISED FACE
EL.	ELEVATION	S.R.	STRESS RELIEVE
F.B.	FLAT BAR	S.F.	STRAIGHT FLANGE
L.L.H.	LIQUID LEVEL HIGH	T.L	TANGENT LINE
L.L.H.H.	LIQUID LEVEL HIGH HIGH	T.O.G.	TOP OF GROUTING
L.L.L.	LIQUID LEVEL LOW	W.N.	WELDING NECK
L.L.L.L.	LIQUID LEVEL LOW LOW	L.W.L.	LONGITUDINAL WELDING LINE
N.L.L.	NORMAL LIQUID LEVEL	C.W.L.	CIRCUMFERENTIAL WELDING LINE
M.A.W.P.	MAX. ALLOWABLE WORKING PRESSURE	L.W.N.	LONG WELDING NECK
M.D.M.T.	MIN. DESIGN METAL TEMP.	R.T.	RADIOGRAPHY TEST
D.P.	DESIGN PRESSURE	INT.	INTERNAL
J.E.	JOINT EFFICIENCY	EXT.	EXTERNAL
L.	LIQUID	H.P.P.	HIGHEST POINT OF PAVING
V.	VAPOR	THK.	THICKNESS
DWG	DRAWING	N.A.	NOT APPLICABLE

VO1	MAR.2025	ISSUED FOR APPROVAL	MFS	M.FAKHARIAN	S.FARMAZPOUR	***	REV.	DESCRIPTION	BY	DATE	BY	DATE
VO0	DEC.2024	ISSUED FOR APPROVAL	MFS	M.FAKHARIAN	S.FARMAZPOUR	***			CHECKED		REV.	APPR.
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EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES							PETROIRAN DEVELOPMENT COMPANY					
DRAWING TITLE: GENERAL ARRANGEMENT FOR LEAN GLYCOL GAS H.E. (B-800)							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION							BY: DATE:					
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.	BUDGET REF	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
NTS	AS	BK-GCS-MF-120-ME-DW-0023		2 OF 2	VO1							