## HOOK UP DRAWING

## Instrument Comments:

Bill of Material shall be considered as a table.

HY Reply: Noted.

- Reference Document with latest revision shall be specified.

HY Reply: Noted.

Hook-up for all filed instruments like valves shall be considered.

HY Reply: Noted.

- Pressure instrument hook-up for gas and liquids shall be specified.

HY Reply: Noted.

- Tag and instrument quantities shall be compatible with Datasheet.

HY Reply: Noted.

Nace Items shall be counted as separate code.

HY Reply: Noted.

Quantities in table and tag numbers are not Compatible, Recheck?

HY Reply: Noted.

Gauge glass hook-up to specify?

HY Reply: Noted.

- VE, ZE,ZT, TE, .... hook-up to be specified.

HY Reply: Noted.

REV. DATE P.O.I. PREP. CHK. APP. AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

PROJECT NO.:

EPC CONTRACTOR:

EPC CONTRACTOR:

EPC CONTRACTOR:

DESCRIPTION

REV. DESCRIPTION

BY DATE BY DATE

THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH
THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF

N.I.S.O.C./ FIELDS

BINAK OILFIELD DEVELOPMENT

COMPANY

DEVELOPMENT

COMPANY

DATE

BINAK OILFIELD DEVELOPMENT

SURFACE WORK PACKAGES

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

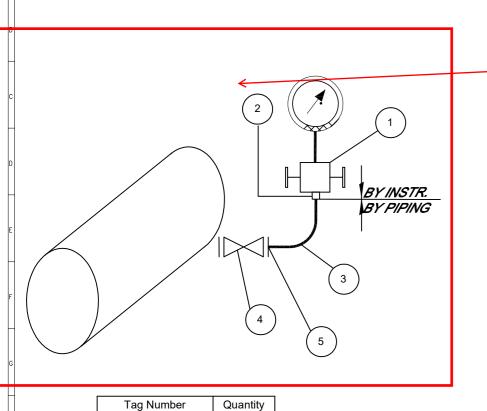
NI.S.C. AS BK-GCS-HY-120-IN-DW-0007 01 0F 08 1/20

16 17 18 19 20 21 22 A0

HAVAYAR

Note :

Legend:



3 3

3

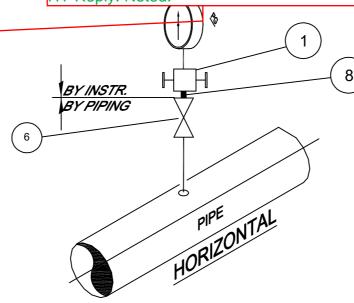
3

PG-2190A/B/C

PG-2191A/B/C PG-2193A/B/C

PG-2194A/B/C

What does this schematic mean? where is the process connection of instrument devices? HY Reply: Noted.

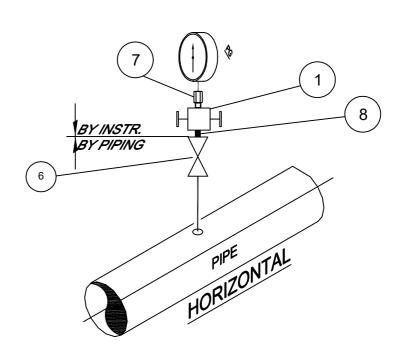


Tag Number	Quantity
PG-2200A/B/C	3
PG-2202A/B/C	3
PG-2201A/B/C	3
PG-2204A/B/C	3
PG-2205A/B/C	3
PG-2208A/B/C	3

Total QTY. shall be rechecked with quantitiy of gauges. HY Reply: Noted.

Tag Number	Quantity
PG-2200A/B/C	3
PG-2202A/B/C	3
PG-2201A/B/C	3
PG-2204A/B/C	3
PG-2205A/B/C	3
PG-2208A/B/C	3

SIZE OR CONNECTION TOTAL QTY. ITEM QTY DESCRIPTION MATERIAL REMARK MANIFOLD,3 WAY 2 VALVE 1 1/2"NPTF x1/2"NPTF **AISI 316SS** 36 BY INSTRUMENT 1/2"NPTF x1/2"NPTF AISI 316SS 12 BY INSTRUMENT 2 UNION 1 3 2" Gate Valve, CL800, SW ASTM A105 12 BY PIPING 1 Gate Valve, CL800, SW ASTM A105 6 BY PIPING 4 1/2" Socket-Welding Elbow, .R 90°,#6000 ASTM A105 12 BY PIPING 5 2" WITH 1/2"NPT HOLE BLIND FLANGE, #150 ASTM A105 12 BY PIPING AISI 316SS BY INSTRUMENT 7 1/2" **SNUBER** 6 8 1/2"NPTM x1/2"NPTF ADAPTER AISI 316SS BY INSTRUMENT



Tag Number	Quantity
PG-2206A/B/C	3
PG-2207A/B/C	3

The way of over-protector installation to be shown. HY Reply: Noted. Installation in Liquid and gas services to be separated. HY Reply: Noted.

BY DATE CHECKED REV. APPR. REV. DATE P.O.I. PREP. CHK. APP.

Note :

Legend:

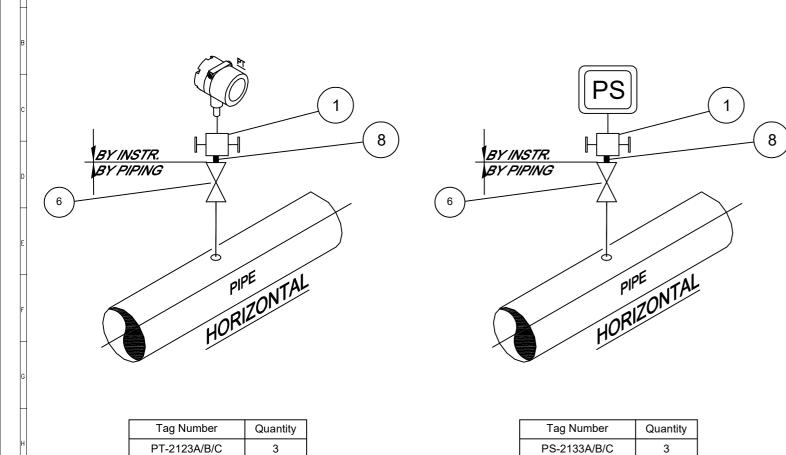
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES PROJECT NO.: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES EPC/EPD CONTRACTOR PETROIRAN

HIRGAN ENERGY DEVELOPMENT

N.T.SC.

	HIRGAN	ENERGY -	DESIGN & INSPECTION	PEDCO C	OMPANY		DATE	SCAI	E	DRAWIN	IG BY	CHECKED	BY P	PROJECT	ENG.
		COI	(PANTES												
<b>A</b>	DRAWING	TITLE:	HOOK UP DRAW	ING			NO CO	NSTRUCTIO	N PER	MITTED	UNLES	S DRAWIN	G APP	ROVED	
HAVAYAR							APPROVED	FOR CON	STRUCT	TON	BY:		DATE	:	
	SCALE	SIZE	DRAWI	NG NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIA	L NO.	SHEE	ET REV	ISION

02 OF 08



PT-2124A/B/C

PT-2133A/B/C

PT-2132A/B/C

PT-2201A/B/C

PT-2100A/B/C

PT-2210A/B/C

PT-2211A/B/C

3

3

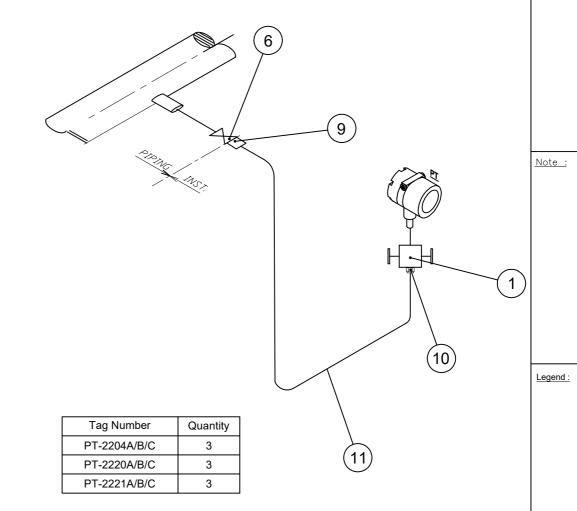
3

3

3

3

3



HAVAYAR

ITEM	QTY	SIZE OR CONNECTION	DESCRIPTION	MATERIAL	TOTAL QTY.	REMARK
1	1	1/2"NPTF x1/2"NPTF	MANIFOLD,3 WAY 2 VALVE	AISI 316SS	42	BY INSTRUMENT
6	1	1"	Gate Valve, CL800 , SW	ASTM A105	42	BY PIPING
8	1	1/2"NPTM x1/2"NPTF	ADAPTER	AISI 316SS	36	BY INSTRUMENT
9	1	1" MPTFx 1 /2 Tube	Male Connector	AISI 316SS	9	BY INSTRUMENT
10	1	1/2" FPTFx 1 /2" Tube	Female Connector	AISI 316SS	9	BY INSTRUMENT
11	7m	1/2"OD	TUBING - WALL THICKNESS 0.065"	AISI 316SS	21m	BY INSTRUMENT

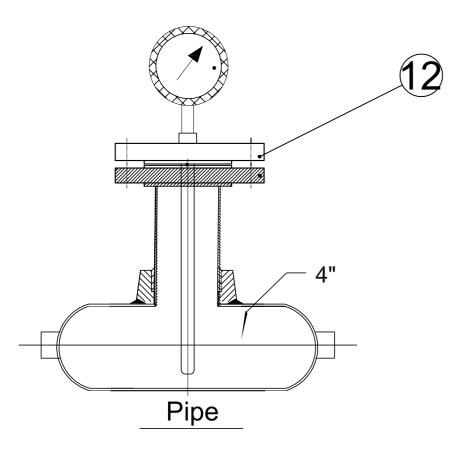
PS-2204A/B/C

PS-2220A/B/C

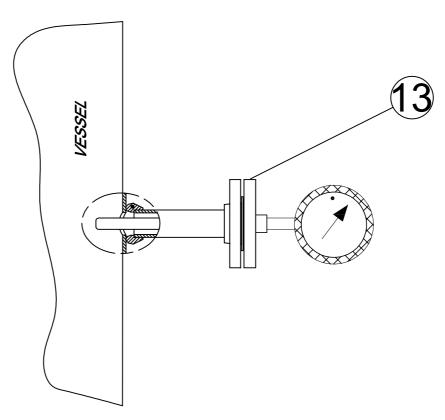
3

3

																	Ρ
																	_
							REV.	IN.	ESCRIPTION	a l	BY	1	DATE	BY		DATE	
V00	APR.2024	IFR	HAVAYAR Co	M.FAKHARIAN	S.Faramarzpour		Mar.	DESCRIPTION		`	(	HECKE	)	RE	V. AF	PPR.	
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.	ىد	وب ميباشــــ	ق نفست خيز جنم	ملــی منــاط	به شسرکت	اس متعلسق	ــه و حق اقتبــــ	خه ايس نقش	ــه نــــ	اصل و کلیـ	٥
PROJE	T NAME:	BINAK OILFIELD	DEVELOPM	ENT SURFAC	E WORK PACK	AGES			HE ORIGINAL THE CO	PYRIGE	T THER	EIN ARE	THE SOLE	PROPER			
PROJE	T NO.:						4				N.I.S.	0.C./	FIELDS				
EPC C	ONTRACTOR:		EPC/E	PD CONTRAC	etor: PETROIRA DEVELOPA								LOPMEN CKAGES	IT .			R
HIRG	AN ENERGY -		n n	PEDCO	COMPANY		DA	TE	SCAL	E	DRAWI	NG BY	CHECKE	D BY I	PROJI	ect eng.	
	CO	MPANIES															
DRAWII	IG TITLE:	HOOK UP DRA	WING				1	NO COI	NSTRUCTIO	N PE	RMITTEL	UNLES	S DRAWI	NG APE	PROV	ED	_
		2302 01 22					APPI	ROVED	FOR CONS	TRUC	TION	BY:		DATE	i:		
SCAL	SIZE	DRA	WING NO.		SHEET NO	. REV.	BUDGET	REF.	LOCATION	SIZE	CLASS	SERI	AL NO.	SHE	ET	REVISION	_
NTSC		BK-CCS-H	Y-120-IN-	DW-0007	03.00.08	1/00											2



Tag Number	Quantity	U Length(m)
TG-2204A/B/C	3	150
TG-2205A/B/C	3	150
TG-2206A/B/C	3	150
TG-2210A/B/C	3	150
TG-2211A/B/C	3	150
TG-2221A/B/C	3	150
TG-2215A/B/C	3	150
TG-2216A/B/C	3	150
TG-2212A/B/C	3	150
TG-2213A/B/C	3	150
TG-2214A/B/C	3	150



Tag Number	Quantity	U Length(m)
TG-2190A/B/C	3	400
TG-2193A/B/C	3	400
TG-2217A/B/C	3	400

HAVAYAR

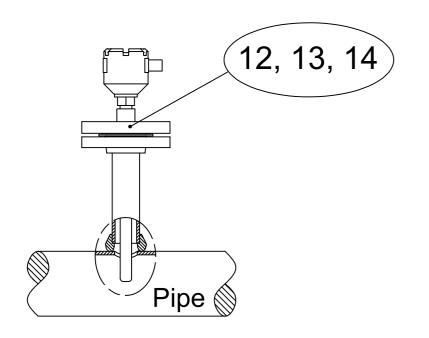
ITEM	QTY	SIZE OR CONNECTION	DESCRIPTION	MATERIAL	TOTAL QTY.	REMARK
12	1	1/2"NPTF x1/2"NPTF	THERMOWELL - #300 - CON:1/2 NPT - U: 150 mm	AISI 316SS	33	BY INSTRUMENT
13	1	1/2"NPTF x1/2"NPTF	THERMOWELL - #300 - CON:1/2 NPT - U: 400 mm	AISI 316SS	9	BY INSTRUMENT

BY DATE BY DATE V00 APR.2024

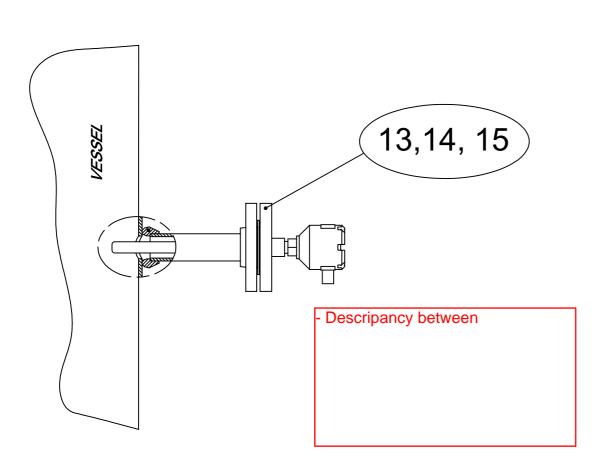
REV. DATE CHECKED REV. APPR. P.O.I. PREP. CHK. APP. AUT. اصل و کلیسه نسخه این نقشمه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباد THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES PROJECT NO.: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES EPC CONTRACTOR EPC/EPD CONTRACTOR: PETROIRAN DEVELOPMENT COMPANY DRAWING TITLE: NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED HOOK UP DRAWING APPROVED FOR CONSTRUCTION BY: SCALE SIZE DRAWING NO. SHEET NO. REV. BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION BK-GCS-HY-120-IN-DW-0007 04 OF 08

<u>Note</u>:

Legend:



Tag Number	Quantity	U Length(m)
TT-2194A/B/C	3	400
TT-2204A/B/C	3	150
TT-2203A/B/C	3	200
TT-2213A/B/C	3	Hold
TT-2214A/B/C	3	N/A
TT-2215A/B/C	3	N/A
TT-2216A/B/C	3	N/A
TT-2217A/B/C	3	N/A
TT-2218A/B/C	3	N/A
TT-2219A/B/C	3	N/A
TT-2220A/B/C	3	N/A
TT-2191A/B/C	3	400



Tag Number	Quantity	U Length(m)
TT-2122A/B/C	3	250
TT-2123A/B/C	3	250
TT-2132A/B/C	3	200
TT-2133A/B/C	3	200

Tag Number	Quantity	U Length(m)
TS-2191A/B/C	3	400
TT-2194A/B/C	3	400

ITEM	QTY	SIZE OR CONNECTION	DESCRIPTION	MATERIAL	TOTAL QTY.	REMARK
12	1	1/2"NPTF x1/2"NPTF	THERMOWELL - #300 - CON:1/2 NPT - U: 150 mm	AISI 316SS	3	BY INSTRUMENT
13	1	1/2"NPTF x1/2"NPTF	THERMOWELL - #300 - CON:1/2 NPT - U: 400 mm	AISI 316SS	12	BY INSTRUMENT
14	1	1/2"NPTF x1/2"NPTF	THERMOWELL - #300 - CON:1/2 NPT - U: 200 mm	AISI 316SS	9	BY INSTRUMENT
15	1	1/2"NPTF x1/2"NPTF	THERMOWELL - #300 - CON:1/2 NPT - U: 200 mm	AISI 316SS	6	BY INSTRUMENT

PROJECT NO.:							THE COPYRIGI	N.I.S.O.C			OF	
PROJE	PROJECT NAME: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES							THE ORIGINAL AND				
REV.	DATE	P.O.I.	PREP.	CHK.	APP.	AUT.	ىد	لى مناطق نفت خيز جنوب ميبائــــ	لسق بـه شــرکت م	و حق اقتبساس متعا	نسخه ايس نقشسه	و کلیسه
V00	APR.2024	IFR	HAVAYAR Co	M.FAKHARIAN	S.Faramarzpour		REV.	DESCRIPTION	CHE	CKED	REV.	APPR
							REV.	DESCRIPTION	BY	DATE	BY	D/

Note :

Legend:

BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES

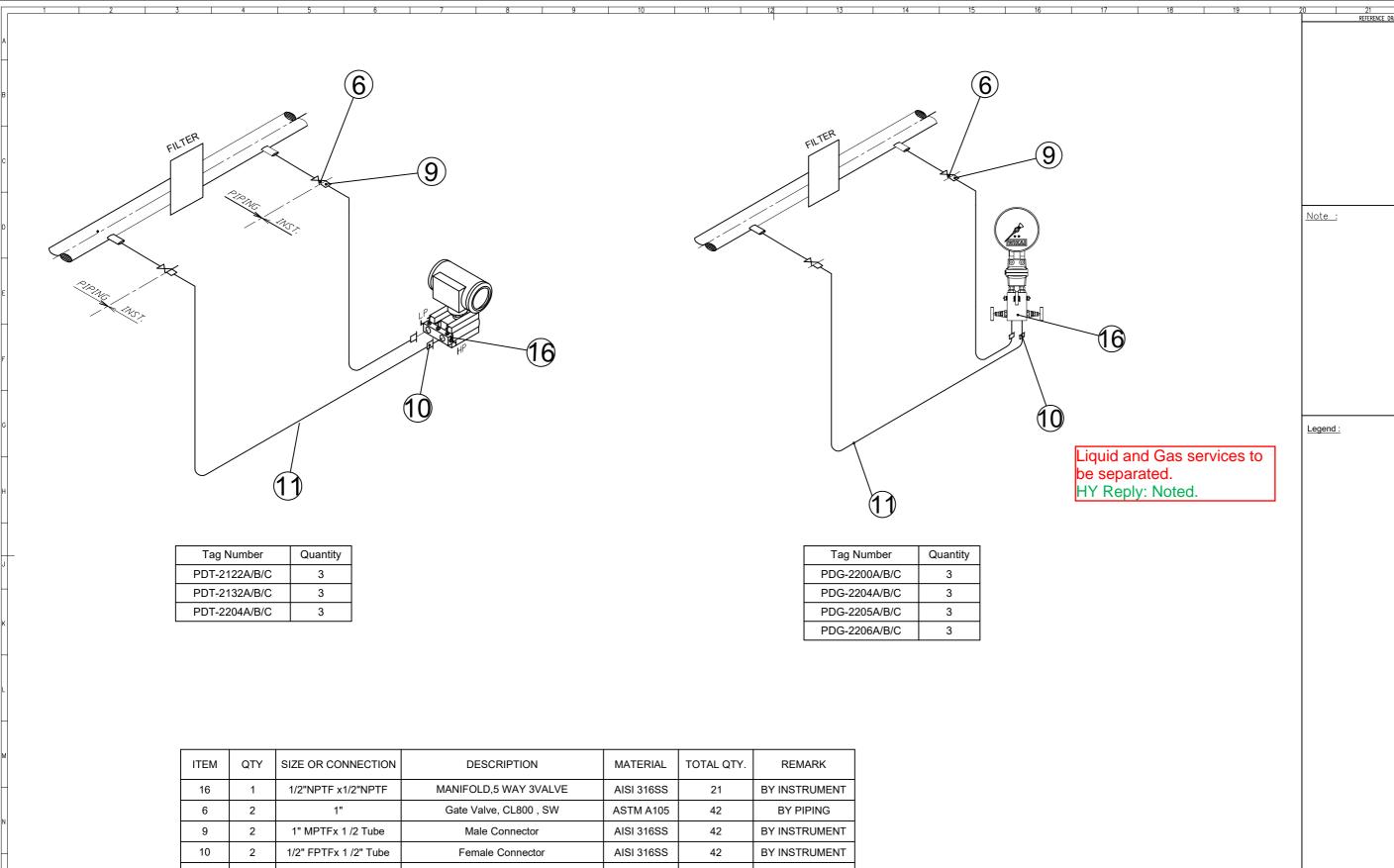
EPC/EPD CONTRACTOR:

BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES PETROIRAN DEVELOPMENT

COMPANY NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

HAVAYAR

SCALE SIZE DRAWING NO. SHEET NO. REV. BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION BK-GCS-HY-120-IN-DW-0007



6 2 1" Gate Vaive, CL800 , SW ASTM A105 42 BY PIPING
9 2 1" MPTFx 1 /2 Tube Male Connector AISI 316SS 42 BY INSTRUMENT
10 2 1/2" FPTFx 1 /2" Tube Female Connector AISI 316SS 42 BY INSTRUMENT
11 7m 1/2"OD TUBING - WALL THICKNESS 0.065" AISI 316SS 49 BY INSTRUMENT

| PROJECT NAME: | PARK OLIFIED | PETROIRAN | PETROIRAN

HAYAYAR

HIRGAN ENERGY - DESIGN & INSPECTION COMPANY

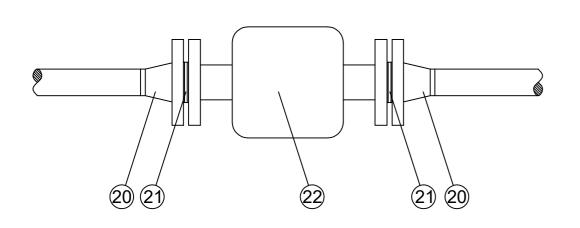
DRAWING TITLE: HOOK UP DRAWING

DATE SCALE DRAWING BY CHECKED BY PROJECT ENG

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

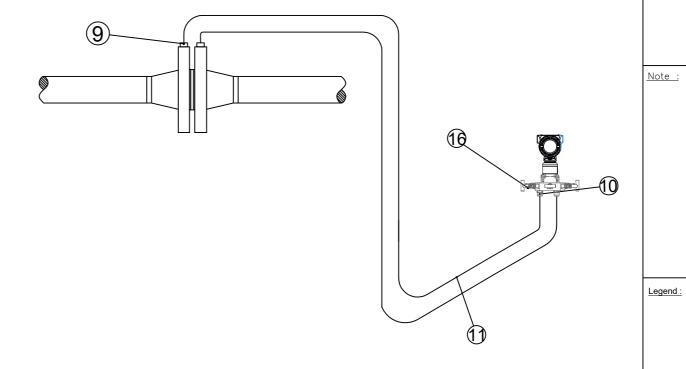
20 21 22 A0





Tag Number	Quantity
FI-2200A/B/C	3
FI-2201A/B/C	3
FI-2202A/B/C	3
FI-2203A/B/C	3

ITEM	QTY	SIZE OR CONNECTION	DESCRIPTION	MATERIAL	TOTAL QTY.	REMARK
20	2	1/2"	W.N. FLANGE - #150	AISI 316SS	8	BY PIPING
21	2	1/2"	GASKET - SPIRAL WOUND - #150	ASTM A105	4	BY PIPING
22	2	1/2"	FLOW INDICATOR - FLG - #150	AISI 316SS	4	BY PIPING

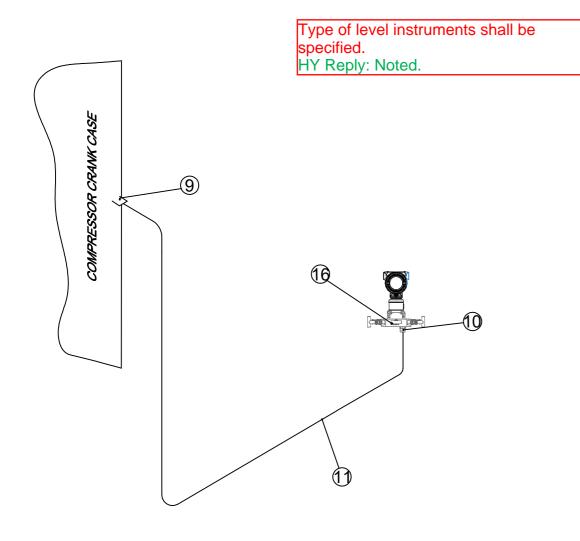


Tag Number	Quantity	
FT-2121A/B/C	3	
FT-2131A/B/C	3	
FT-2206A/B/C	3	

ITEM	QTY	SIZE OR CONNECTION	DESCRIPTION	MATERIAL	TOTAL QTY.	REMARK
9	2	1" MPTFx 1 /2 Tube	Male Connector	AISI 316SS	6	BY INSTRUMENT
10	2	1/2" FPTFx 1 /2" Tube	Female Connector	AISI 316SS	6	BY INSTRUMENT
11	2x7 m	1/2"OD	TUBING - WALL THICKNESS 0.065"	AISI 316SS	42	BY INSTRUMENT
16	1	1/2"NPTF x1/2"NPTF	MANIFOLD,5 WAY 3VALVE	AISI 316SS	3	BY INSTRUMENT

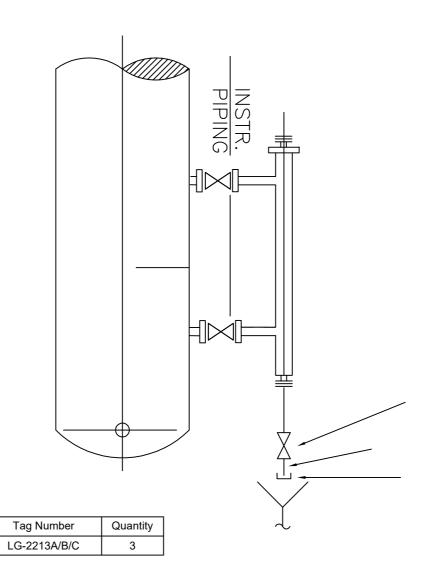
BY DATE BY DATE V00 APR.2024

REV. DATE CHECKED REV. APPR. P.O.I. PREP. CHK. APP. AUT. اصل و کلیے نسخہ این نقشیہ و حق اقتیباس متعلیق به شارکت ملی مناطق نفیت خیز جنوب میباث THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES PROJECT NO.: BINAK OILFIELD DEVELOPMENT SURFACE WORK PACKAGES EPC CONTRACTOR EPC/EPD CONTRACTOR: PETROIRAN DEVELOPMENT COMPANY HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES DRAWING TITLE: NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED **HAVAYAR** APPROVED FOR CONSTRUCTION BY: SCALE SIZE DRAWING NO. SHEET NO. REV. BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION BK-GCS-HY-120-IN-DW-0007 07 OF 08



Tag Number	Quantity
LT-2213A/B/C	3
LT-2200A/B/C	3

ITEM	QTY	SIZE OR CONNECTION	DESCRIPTION	MATERIAL	TOTAL QTY.	REMARK
9	1	1" MPTFx 1 /2 Tube	Male Connector	AISI 316SS	6	BY INSTRUMENT
10	1	1/2" FPTFx 1 /2" Tube	Female Connector	AISI 316SS	6	BY INSTRUMENT
11	7 m	1/2"OD	TUBING - WALL THICKNESS 0.065"	AISI 316SS	42	BY INSTRUMENT
16	1	1/2"NPTF x1/2"NPTF	MANIFOLD,5 WAY 3VALVE	AISI 316SS	6	BY INSTRUMENT



ITEM	QTY	SIZE OR CONNECTION	DESCRIPTION	MATERIA L	TOTAL QTY.	REMARK
18	1	1/2"NPTM x1/2"NPTM	NIPPLE ,#6000	AISI 316SS	3	BY INSTRUMENT
17	1	1/2 " NPTM	END CAP	ASTM A 105	3	BY INSTRUMENT
3	1	2"	Gate Valve, CL800 , SW	ASTM A105	3	BY PIPING

HAVAYAR

, SW	1	STM 105	3	E	BY PIPIN	IG											
_																_	
$\dashv$											$\dashv$		+	-		+	
$\dashv$											$\dashv$	BY	<del> </del>	DATE	BY	+	DATE
V00	APR.2024		IFR	HAVAYAR Co	M.FAKHARIAN	S.Faramarzpour		REV.	DE	SSCRIPTIO	×		HECKEL	,	RE	V. Al	PR.
REV.	DATE		P.0.I.	PREP.	СНК.	APP.	AUT.	اصل و کلیسه نسخه این نقشمه و حق اقتیساس متعلسق به شرکت ملی مناطق نفت خیز جنوب میباشسد									
ROJEC	NAME:	1	BINAK OILFIELI	DEVELOPE	MENT SURFAC	E WORK PACE	CAGES			HE ORIGINA THE CO	PYRIGH	T THERE	IN ARE	HIS DRAW THE SOLE FIELDS	PROPE		
EPC CO	NTRACTOR:			EPC/E	PD CONTRAC	PETROIRA  DEVELOP								LOPMEN	T		
HIRGA			n & inspecti	ON B	PEDCO	COMPANY	7	DA'	TE	SCAL	E	DRAWII	NG BY	CHECKE	D BY	PROJ	ECT ENG.
		COMPANIES	3														
RAWIN	TITLE:		HOOK UP DR	AWING				1	NO CON	STRUCTIO	N PER	MITTED	UNLES	S DRAWI	NG AP	PROV	ED
								APPR	COVED	FOR CONS	TRUCT	ION	BY:		DATI	E:	
SCALE	SIZE		DR4	WING NO.		SHEET N	o. REV.	BUDGET	REF.	LOCATION	SIZE	CLASS	SERL	AL NO.	SHE	ET	REVISION
N.T.SC.	A3			Y-120-IN-	DW-0007	08 OF 0											
16		17		18		19	1 2	20		21 Software	Auto	ond	22	Tie No Drawina	1.dwa	A(	)

Note:

Legend :