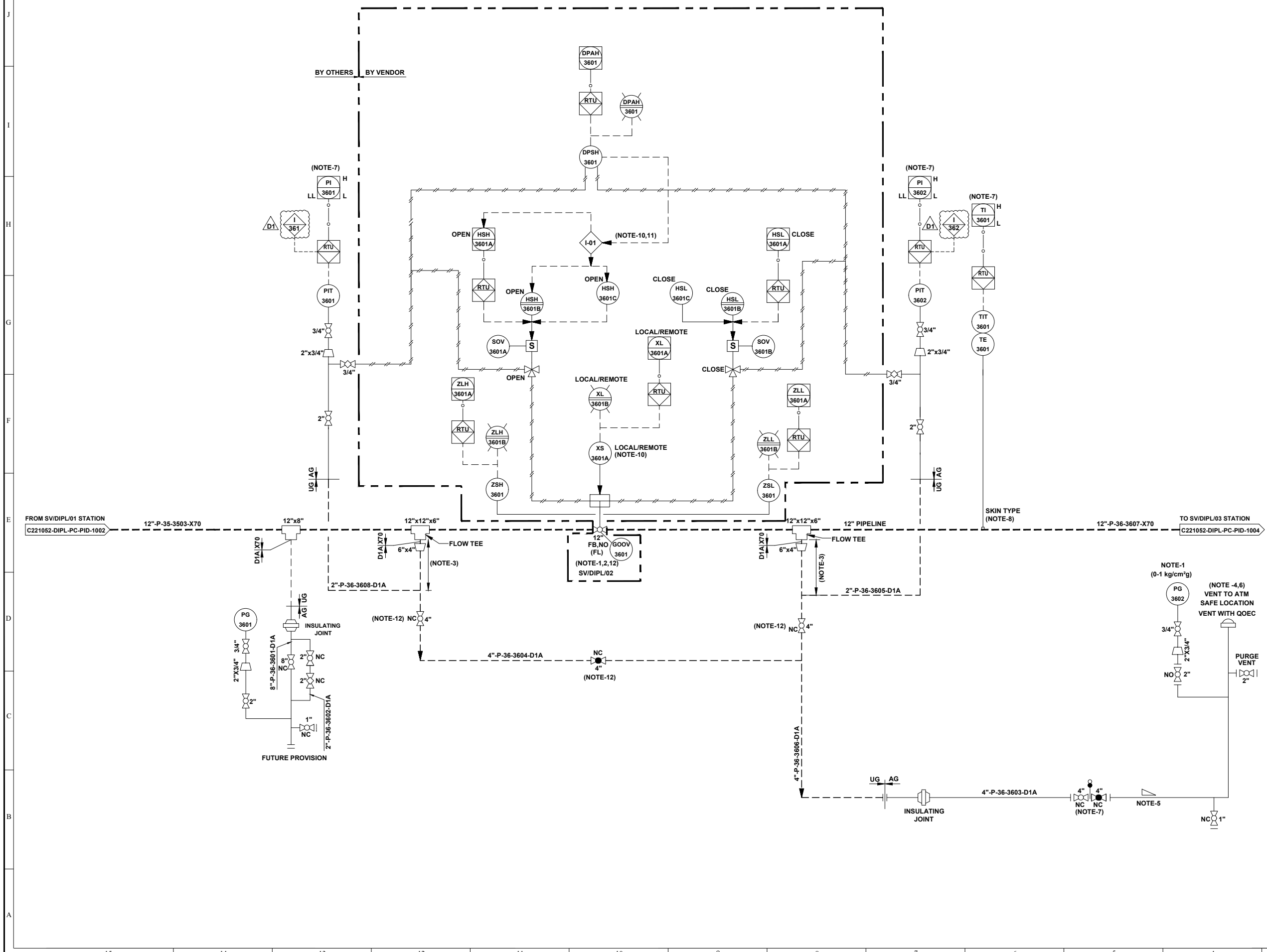


3		2		1	
REFERENCE DRAWINGS					
DRAWING TITLE			DRAWING NUMBER		
P&ID LEGENDS			C221052-00-PC-LGD-1001 TO 1005		
GENERAL NOTES:-					
1. ALL LINE NUMBERING AND EQUIPMENT TAG NUMBERING SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".					
2. ALL INSTRUMENT TAG NUMBER SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL" .					
3. ALL BALL VALVE IN PIPELINE EXCEPT IN MAIN LINE (PIGGABLE) SHALL BE REDUCED BORE TYPE					
NOTES :-					
1. LOW RANGE PRESSURE GAUGE (0-1 kg/cm²g) SHALL BE PROVIDED WITH GAUGE SAVER.					
2. DISTANCE SHALL BE AT LEAST EQUAL TO THE LENGTH OF THE LONGEST INTELLIGENT PIG.					
3. BRANCH VALVE SHALL BE LOCATED AT MINIMUM DISTANCE.					
4. DEPRESSURIZATION VALVE SHALL BE LOCATED IN SUCH A WAY THAT PG-3405 AND TIT-3401 CAN BE READ DURING VENTING.					
5. VENT SHALL BE WITH QOEC.					
6. ADEQUATE SLOPE TO BE MAINTAINED IN HORIZONTAL SECTION OF PIPE IF ANY FOR LOW POINT DRAIN CONNECTION.					
7. JUMPERS SHALL BE PROVIDED ACROSS ALL FLANGES.					
8. PG-3407 SHALL HAVE A RANGE OF (0-5 kg/cm²g) SHALL BE PROVIDED WITH GAUGE SAVER AND LEAST COUNT OF 0.1 kg/cm²g. .					
9. PROVISION OF A TROLLEY WITH PUSH ROD & PULLING LINE SHALL BE CONSIDERED TO ASSIST LOADING OR REMOVAL OF PIGS FROM THE SCRAPPER TRAP.					
10. GAS DETECTORS TO BE PROVIDED IN DOWN WIND DIRECTION NEAR PIG BARRELS TO MONITOR LEAKAGE FROM FAILURE PRONE EQUIPMENTS PARTS,ACCESSORIES,VALVE & PIPES.					
11. VALVE POSITION SHALL BE FAIL LAST.					
12. ALL VENTS SHALL BE PROVIDED MIN. 3M HIGH FROM NEAREST HIGHEST OPERATING PLATFORM OR NEARBY STRUCTURE WITHIN 15M WHICHEVER IS HIGHER. NON SPARKING MATERIAL (BRASS) SHALL BE USED FOR FLAPPER TYPE VENT CONNECTION.					
13. QUICK OPENING END CLOSURE TYPE DOOR CANNOT BE OPENED UNLESS PIG BARREL AND CONNECTED PIPING IS FULLY DEPRESSURIZE.					
14. NECESSARY I/O's & SIGNAL FOR INTERFACE WITH SCADA SHALL BE DEVELOPED SEPARATELY.					
15. ACTUATOR DETAILS OF GOOV CONTROL LOGIC SHALL BE AS PER P&ID.					
16. PIG SIGNALER CONNECTION SHALL BE CLAMP ON TYPES.					
17. THERMO PAD SHALL BE WELDED TYPE.					
HOLDS:-					
1. PSVs INLET & OUTLET SIZE ARE UNDER HOLD. SHALL BE FINALISED POST RECEIPT OF VENDOR DATA.					
INTER LOCK :					
<div><div><div>1</div><div>341</div></div><div>VALVE GOOV-3401 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION INLET.</div></div>					
<div><div><div>1</div><div>342</div></div><div>VALVE GOOV-3401 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION OUTLET.</div></div>					
<div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div></div> <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> 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





		15	
K	SV STATION		
	TAG NO	SV/DIPL/02	
	SERVICE FLUID	NATURAL GAS	
	DESIGN PRESSURE	92 kg/cm ² g	
	DESIGN TEMPERATURE	-29 °C TO 65 °C	
	OPERATING PRESSURE	37 kg/cm ² g	
	OPERATING TEMPERATURE	0°C TO 55°C	

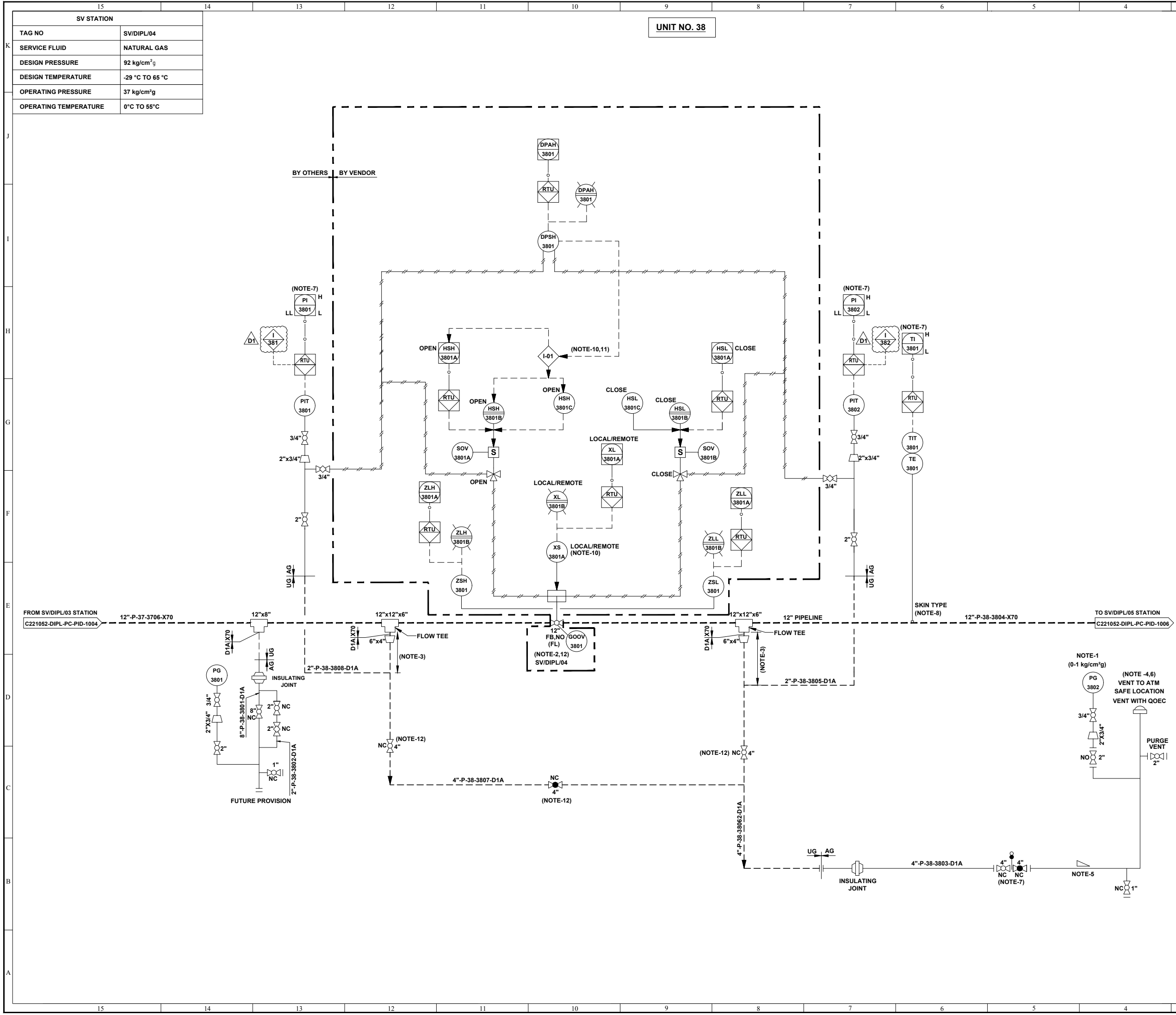
UNIT NO. 36



REFERENCE DRAWINGS

DRAWING TITLE		DRAWING NUMBER	
P&ID LEGENDS		C221052-00-PC-LGD-1001 TO 1005	
GENERAL NOTES:-			
1. ALL LINE NUMBERING AND EQUIPMENT TAG NUMBERING SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".			
2. ALL INSTRUMENT TAG NUMBER SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".			
3. ALL BALL VALVE IN PIPELINE EXCEPT IN MAIN LINE (PIGGABLE) SHALL BE REDUCED BORE TYPE			
NOTES :-			
1. LOW RANGE PRESSURE GAUGE (0-1 kg/cm²g) SHALL BE PROVIDED WITH GAUGE SAVER.			
2. VALVE SHALL BE FAIL TO STAY FAIL LAST TYPE.			
3. MINIMUM DISTANCE SHOULD BE EITHER 1.5D OR 1 METER, WHICHEVER IS HIGHER.			
4. VENT SHALL BE LOCATED AT SAFE DISTANCE (MIN. HEIGHT OF 3.0M ABOVE THE HEIGHT WORKING PLATFORM FALLING WITHIN 15.0M RADIUS VENT) AS PER PNGRB GUIDELINES.			
5. LOW POINT DRAIN SHALL BE PROVIDED ON DEPRESSURIZATION LINE AT MINIMUM DISTANCE FROM RISER PIPE OF VENT. ADEQUATE SLOPE TO BE MAINTAINED IN HORIZONTAL SECTION OF THE PIPE FOR LOW POINT DRAIN CONNECTION.			
6. VENT SHALL BE WITH QOEC.			
7. DEPRESSURIZATION VALVE SHALL BE LOCATED IN SUCH A WAY THAT PIT 3601/3602 & TIT-3601 ON TRANSMITTER CAN BE READ DURING VENTING.			
8. THERM PAD SHALL BE WELDED TYPE.			
9. JUMPER SHALL BE PROVIDED ACROSS ALL FLANGES.			
10. LOCAL / REMOTE			
<div><div></div><div>COMMAND ACCEPTED FROM SCADA / PANEL IN LOCAL / MAIN CONTROL ROOM.</div><div>COMMAND ACCEPTED FROM FIELD ONLY.</div></div>			
11. THIS INTERLOCK IS PROVIDED TO INHIBIT THE OPENING OF VALVE FROM REMOTE AS WELL AS LOCAL IN CASE OF HIGH DIFFERENTIAL PRESSURE (> 3.0 kg / cm²) ACROSS THE VALVE.			
12. BURIED VALVE WITH STEM EXTENSION.			
INTER LOCK :			
<div><div><div>I</div><div>361</div></div><div>VALVE GOOV-3601 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION INLET.</div></div> <div><div><div>I</div><div>362</div></div><div>VALVE GOOV-3601 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION OUTLET.</div></div>			
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REFERENCE DRAWINGS				
DRAWING TITLE		DRAWING NUMBER		
P&ID LEGENDS		C221052-00-PC-LGD-1001 TO 1005		
GENERAL NOTES:-				
1. ALL LINE NUMBERING AND EQUIPMENT TAG NUMBERING SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL". 2. ALL INSTRUMENT TAG NUMBER SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL". 3. ALL BALL VALVE IN PIPELINE EXCEPT IN MAIN LINE (PIGGABLE) SHALL BE REDUCED BORE TYPE				
NOTES :-				
1. LOW RANGE PRESSURE GAUGE (0-1 kg/cm ² g) SHALL BE PROVIDED WITH GAUGE SAVER. 2. VALVE SHALL BE FAIL TO STAY FAIL LAST TYPE. 3. MINIMUM DISTANCE SHOULD BE EITHER 1.5D OR 1 METER, WHICHEVER IS HIGHER. 4. VENT SHALL BE LOCATED AT SAFE DISTANCE (MIN. HEIGHT OF 3.0M ABOVE THE HEIGHT WORKING PLATFORM FALLING WITHIN 15.0M RADIUS VENT) AS PER PNGRB GUIDELINES. 5. LOW POINT DRAIN SHALL BE PROVIDED ON DEPRESSURIZATION LINE AT MINIMUM DISTANCE FROM RISER PIPE OF VENT. ADEQUATE SLOPE TO BE MAINTAINED IN HORIZONTAL SECTION OF THE PIPE FOR LOW POINT DRAIN CONNECTION. 6. VENT SHALL BE WITH QOEC. 7. DEPRESSURIZATION VALVE SHALL BE LOCATED IN SUCH A WAY THAT PIT 3701/3702 & TIT-3701 ON TRANSMITTER CAN BE READ DURING VENTING. 8. THERM PAD SHALL BE WELDED TYPE. 9. JUMPER SHALL BE PROVIDED ACROSS ALL FLANGES. 10. LOCAL / REMOTE <div style="margin-left: 40px;">  </div> 11. THIS INTERLOCK IS PROVIDED TO INHIBIT THE OPENING OF VALVE FROM REMOTE AS WELL AS LOCAL IN CASE OF HIGH DIFFERENTIAL PRESSURE (> 3.0 kg/ cm ²) ACROSS THE VALVE. 12. BURIED VALVE WITH STEM EXTENSION.				
INTER LOCK : 				
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  </div> <div> VALVE GOOV-3701 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION INLET. </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: center;">  </div> <div> VALVE GOOV-3701 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION OUTLET. </div> </div>				
				
D1	27.09.22	ISSUED FOR DESIGN	SP	AD SKP
C3	24.06.22	ISSUED FOR HAZOP	HS	AD AKP
C2	23.05.22	ISSUED FOR APPROVAL	HS	AD SKP
C1	13.05.22	ISSUED FOR CLIENT REVIEW	HS	AD SKP
B1	04.05.22	ISSUED FOR IDC	HS	AD SKP
REV.	DATE	DESCRIPTION	PREP.	CHKD. APPD.
CLIENT:				
 INDRADHANUSH GAS GRID LIMITED				
PMC:				
 VCS QUALITY SERVICES PVT. LTD.				
PROJECT:				
NORTH EAST GAS GRID PHASE-III OF IGGL				
TITLE:				
P&ID FOR SV/DIPL/03 CUM RECEIPT TERMINALT STATION AT KOHIMA				
SCALE: N.T.S		TOTAL NO. OF SHTS: 1 OF 1		
SIZE	JOB NO.	DRAWING NUMBER		REV.
A1	C221052	C221052-DIPL-PC-PID-1004		D1



REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NUMBER
P&ID LEGENDS	C221052-00-PC-LGD-1001 TO 1005

GENERAL NOTES:-

- ALL LINE NUMBERING AND EQUIPMENT TAG NUMBERING SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".
- ALL INSTRUMENT TAG NUMBER SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".
- ALL BALL VALVE IN PIPELINE EXCEPT IN MAIN LINE (PIGGABLE) SHALL BE REDUCED BORE TYPE

NOTES :-

- LOW RANGE PRESSURE GAUGE (0-1 kg/cm²g) SHALL BE PROVIDED WITH GAUGE SAVER.
- VALVE SHALL BE FAIL TO STAY FAIL LAST TYPE.
- MINIMUM DISTANCE SHOULD BE EITHER 1.5D OR 1 METER, WHICHEVER IS HIGHER.
- VENT SHALL BE LOCATED AT SAFE DISTANCE (MIN. HEIGHT OF 3.0M ABOVE THE HEIGHT WORKING PLATFORM FALLING WITHIN 15.0M RADIUS VENT) AS PER PNGRB GUIDELINES.
- LOW POINT DRAIN SHALL BE PROVIDED ON DEPRESSURIZATION LINE AT MINIMUM DISTANCE FROM RISER PIPE OF VENT. ADEQUATE SLOPE TO BE MAINTAINED IN HORIZONTAL SECTION OF THE PIPE FOR LOW POINT DRAIN CONNECTION.
- VENT SHALL BE WITH QOEC.
- DEPRESSURIZATION VALVE SHALL BE LOCATED IN SUCH A WAY THAT PIT 3801/3802 & TIT-3801 ON TRANSMITTER CAN BE READ DURING VENTING.
- THERMOWELL SHALL BE WELDED TYPE.
- JUMPER SHALL BE PROVIDED ACROSS ALL FLANGES.
- LOCAL / REMOTE

COMMAND ACCEPTED FROM SCADA / PANEL IN LOCAL / MAIN CONTROL ROOM.

COMMAND ACCEPTED FROM FIELD ONLY.

- THIS INTERLOCK IS PROVIDED TO INHIBIT THE OPENING OF VALVE FROM REMOTE AS WELL AS LOCAL IN CASE OF HIGH DIFFERENTIAL PRESSURE (> 3.0 kg/ cm²) ACROSS THE VALVE.
- BURIED VALVE WITH STEM EXTENSION.

INTER LOCK :

1

381

VALVE GOOV-3801 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION INLET.

1

382

VALVE GOOV-3801 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION OUTLET.



REV.	DATE	DESCRIPTION	PREP.	CHKD.	APPD.
D1	27.09.22	ISSUED FOR DESIGN	SP	AD	SKP
C3	24.06.22	ISSUED FOR HAZOP	HS	AD	AKP
C2	23.05.22	ISSUED FOR APPROVAL	HS	AD	SKP
C1	13.05.22	ISSUED FOR CLIENT REVIEW	HS	AD	SKP
B1	04.05.22	ISSUED FOR IDC	HS	AD	SKP

CLIENT:

INDRADHANUSH GAS GRID LIMITED

PMC:

VCS QUALITY SERVICES PVT. LTD.

PROJECT:

NORTH EAST GAS GRID PHASE-III OF IGGL

TITLE:

P&ID FOR SV/DIPL/04 STATION AT
DIMAPUR - KOHIMA - IMPHAL PIPELINE

SCALE:	N.T.S	TOTAL NO. OF SHTS:	1 OF 1
SIZE	JOB NO.	DRAWING NUMBER	REV.
A1	C221052	C221052-DIPL-PC-PID-1005	D1

[illegible]


REFERENCE DRAWINGS				
DRAWING TITLE		DRAWING NUMBER		
P&ID LEGENDS		C221052-00-PC-LGD-1001 TO 1005		

GENERAL NOTES:-

- ALL LINE NUMBERING AND EQUIPMENT TAG NUMBERING SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".
- ALL INSTRUMENT TAG NUMBER SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".
- ALL BALL VALVE IN PIPELINE EXCEPT IN MAIN LINE (PIGGABLE) SHALL BE REDUCED BORE TYPE

NOTES :-

- LOW RANGE PRESSURE GAUGE (0-1 kg/cm²g) SHALL BE PROVIDED WITH GAUGE SAVER.
- VALVE SHALL BE FAIL TO STAY FAIL LAST TYPE.
- MINIMUM DISTANCE SHOULD BE EITHER 1.5D OR 1 METER, WHICHEVER IS HIGHER.
- VENT SHALL BE LOCATED AT SAFE DISTANCE (MIN. HEIGHT OF 3.0M ABOVE THE HEIGHT WORKING PLATFORM FALLING WITHIN 15.0M RADIUS VENT) AS PER PNGRB GUIDELINES.
- LOW POINT DRAIN SHALL BE PROVIDED ON DEPRESSURIZATION LINE AT MINIMUM DISTANCE FROM RISER PIPE OF VENT. ADEQUATE SLOPE TO BE MAINTAINED IN HORIZONTAL SECTION OF THE PIPE FOR LOW POINT DRAIN CONNECTION.
- VENT SHALL BE WITH QOEC.
- DEPRESSURIZATION VALVE SHALL BE LOCATED IN SUCH A WAY THAT PIT 4001/4002 & TIT-4001 ON TRANSMITTER CAN BE READ DURING VENTING.
- THERMO PAD SHALL BE WELDED TYPE.
- JUMPER SHALL BE PROVIDED ACROSS ALL FLANGES.
- LOCAL / REMOTE


- THIS INTERLOCK IS PROVIDED TO INHIBIT THE OPENING OF VALVE FROM REMOTE AS WELL AS LOCAL IN CASE OF HIGH DIFFERENTIAL PRESSURE (> 3.0 kg/ cm²) ACROSS THE VALVE.
- BURIED VALVE WITH STEM EXTENSION.
- PIG SIGNALER CONNECTION SHALL BE CLAMP ON TYPES.

INTER LOCK :


D1

I
401

VALVE GOOV-4001 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION INLET.

I
402

VALVE GOOV-4001 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION OUTLET.



D1	27.09.22	ISSUED FOR DESIGN	SP	AD	SKP
C3	24.06.22	ISSUED FOR HAZOP	HS	AD	AKP
C2	23.05.22	ISSUED FOR APPROVAL	HS	AD	SKP
C1	13.05.22	ISSUED FOR CLIENT REVIEW	HS	AD	SKP
B1	04.05.22	ISSUED FOR IDC	HS	AD	SKP
REV.	DATE	DESCRIPTION	PREP.	CHKD.	APPD.

CLIENT:

INDRADHANUSH GAS GRID LIMITED

PMC:

VCS QUALITY SERVICES PVT. LTD.

PROJECT:

NORTH EAST GAS GRID PHASE-III OF IGGL

TITLE:

P&ID FOR SV/DIPL/06 STATION AT
DIMAPUR - KOHIMA - IMPHAL PIPELINE

SCALE: N.T.S		TOTAL NO. OF SHTS: 1 OF 1	
SIZE	JOB NO.	DRAWING NUMBER	REV.
A1	C221052	C221052-DIPL-PC-PID-1007	D1


DRAWING TITLE		DRAWING NUMBER	
P&ID LEGENDS		C221052-00-PC-LGD-1001 TO 1005	

GENERAL NOTES:-

- ALL LINE NUMBERING AND EQUIPMENT TAG NUMBERING SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".
- ALL INSTRUMENT TAG NUMBER SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".
- ALL BALL VALVE IN PIPELINE EXCEPT IN MAIN LINE (PIGGABLE) SHALL BE REDUCED BORE TYPE


NOTES :-


- LOW RANGE PRESSURE GAUGE (0-1 kg/cm²G) SHALL BE PROVIDED WITH GAUGE SAVER.
- VALVE SHALL BE FAIL TO STAY FAIL LAST TYPE.
- MINIMUM DISTANCE SHOULD BE EITHER 1.5D OR 1 METER, WHICHEVER IS HIGHER.
- VENT SHALL BE LOCATED AT SAFE DISTANCE (MIN. HEIGHT OF 3.0M ABOVE THE HEIGHT WORKING PLATFORM FALLING WITHIN 15.0M RADIUS VENT) AS PER PNGRB GUIDELINES.
- LOW POINT DRAIN SHALL BE PROVIDED ON DEPRESSURIZATION LINE AT MINIMUM DISTANCE FROM RISER PIPE OF VENT. ADEQUATE SLOPE TO BE MAINTAINED IN HORIZONTAL SECTION OF THE PIPE FOR LOW POINT DRAIN CONNECTION.
- VENT SHALL BE WITH QOEC.
- DEPRESSURIZATION VALVE SHALL BE LOCATED IN SUCH A WAY THAT PIT 4201/4202 & TIT-4201 ON TRANSMITTER CAN BE READ DURING VENTING.
- THERMO PAD SHALL BE WELDED TYPE.
- JUMPER SHALL BE PROVIDED ACROSS ALL FLANGES.
- LOCAL / REMOTE



- THIS INTERLOCK IS PROVIDED TO INHIBIT THE OPENING OF VALVE FROM REMOTE AS WELL AS LOCAL IN CASE OF HIGH DIFFERENTIAL PRESSURE (> 3.0 kg/ cm²) ACROSS THE VALVE.
- BURIED VALVE WITH STEM EXTENSION.
- PIG SIGNALER CONNECTION SHALL BE CLAMP ON TYPES.

INTER LOCK :

D1

 VALVE GOOV-4201 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION INLET.

 VALVE GOOV-4201 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION OUTLET.



REV.	DATE	DESCRIPTION	PREP.	CHKD.	APPD.
D1	27.09.22	ISSUED FOR DESIGN	SP	AD	SKP
C3	24.06.22	ISSUED FOR HAZOP	HS	AD	AKP
C2	23.05.22	ISSUED FOR APPROVAL	HS	AD	SKP
C1	13.05.22	ISSUED FOR CLIENT REVIEW	HS	AD	SKP
B1	04.05.22	ISSUED FOR IDC	HS	AD	SKP

CLIENT:

INDRADHANUSH GAS GRID LIMITED

PMC:

VCS QUALITY SERVICES PVT. LTD.










PROJECT:

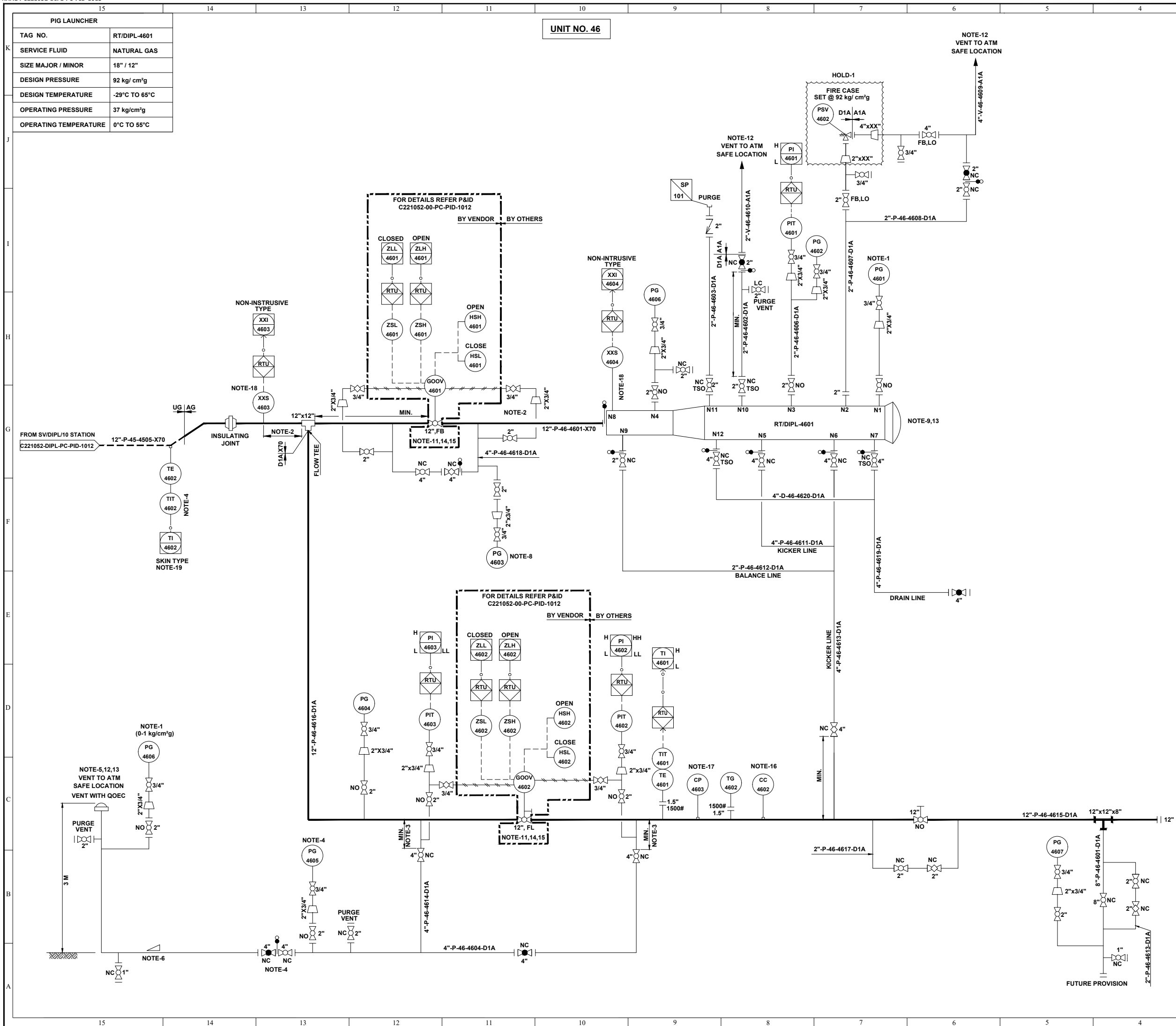
NORTH EAST GAS GRID PHASE-III OF IGGL

TITLE:

P&ID FOR SV/DIPL/07 STATION AT DIMAPUR - KOHIMA - IMPHAL PIPELINE

SCALE:	N.T.S	TOTAL NO. OF SHTS:	1 OF 1
SIZE	JOB NO.	DRAWING NUMBER	REV.
A1	C221052	C221052-DIPL-PC-PID-1009	D1

REFERENCE DRAWINGS				
DRAWING TITLE		DRAWING NUMBER		
P&ID LEGENDS		C221052-00-PC-LGD-1001 TO 1005		
GENERAL NOTES:-				
1. ALL LINE NUMBERING AND EQUIPMENT TAG NUMBERING SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL". 2. ALL INSTRUMENT TAG NUMBER SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL". 3. ALL BALL VALVE IN PIPELINE EXCEPT IN MAIN LINE (PIGGABLE) SHALL BE REDUCED BORE TYPE				
NOTES :-				
1. LOW RANGE PRESSURE GAUGE (0-1 kg/cm ² g) SHALL BE PROVIDED WITH GAUGE SAVER. 2. VALVE SHALL BE FAIL TO STAY FAIL LAST TYPE. 3. MINIMUM DISTANCE SHOULD BE EITHER 1.5D OR 1 METER, WHICHEVER IS HIGHER. 4. VENT SHALL BE LOCATED AT SAFE DISTANCE (MIN. HEIGHT OF 3.0M ABOVE THE HEIGHT WORKING PLATFORM FALLING WITHIN 15.0M RADIUS VENT) AS PER PNGRB GUIDELINES. 5. LOW POINT DRAIN SHALL BE PROVIDED ON DEPRESSURIZATION LINE AT MINIMUM DISTANCE FROM RISER PIPE OF VENT. ADEQUATE SLOPE TO BE MAINTAINED IN HORIZONTAL SECTION OF THE PIPE FOR LOW POINT DRAIN CONNECTION. 6. VENT SHALL BE WITH QOEC. 7. DEPRESSURIZATION VALVE SHALL BE LOCATED IN SUCH A WAY THAT PIT 4401/4402 & TIT-4401 ON TRANSMITTER CAN BE READ DURING VENTING. 8. THERMO PAD SHALL BE WELDED TYPE. 9. JUMPER SHALL BE PROVIDED ACROSS ALL FLANGES. 10. LOCAL / REMOTE <div style="margin-left: 40px;">  </div> 11. THIS INTERLOCK IS PROVIDED TO INHIBIT THE OPENING OF VALVE FROM REMOTE AS WELL AS LOCAL IN CASE OF HIGH DIFFERENTIAL PRESSURE (> 3.0 kg/ cm ²) ACROSS THE VALVE. 12. BURIED VALVE WITH STEM EXTENSION.				
INTER LOCK : 				
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  </div> <div> VALVE GOOV-4401 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION INLET. </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;">  </div> <div> VALVE GOOV-4401 SHALL CLOSE ON LOW LOW PRESSURE OF THE PIPELINE AT STATION OUTLET. </div> </div>				
				
				
D1	27.09.22	ISSUED FOR DESIGN	SP	AD SKP
C3	24.06.22	ISSUED FOR HAZOP	HS	AD AKP
C2	23.05.22	ISSUED FOR APPROVAL	HS	AD SKP
C1	10.05.22	ISSUED FOR CLIENT REVIEW	HS	AD SKP
B1	04.05.22	ISSUED FOR IDC	HS	AD SKP
REV.	DATE	DESCRIPTION	PREP.	CHKD. APPD.
CLIENT:				
 INDRADHANUSH GAS GRID LIMITED				
PMC:				
 VCS QUALITY SERVICES PVT. LTD.				
PROJECT:				
NORTH EAST GAS GRID PHASE-III OF IGGL				
TITLE:				
P&ID FOR SV/DIPL/09 STATION AT DIMAPUR - KOHIMA - IMPHAL PIPELINE				
SCALE:		TOTAL NO. OF SHTS: 1 OF 1		
SIZE	JOB NO.	DRAWING NUMBER		REV.
A1	C221052	C221052-DIPL-PC-PID-1011		D1



PIG LAUNCHER	
TAG NO.	RT/DIPL-4601
SERVICE FLUID	NATURAL GAS
SIZE MAJOR / MINOR	18" / 12"
DESIGN PRESSURE	92 kg/ cm²g
DESIGN TEMPERATURE	-29°C TO 65°C
OPERATING PRESSURE	37 kg/cm²g
OPERATING TEMPERATURE	0°C TO 55°C

UNIT NO. 46

REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NUMBER
P&ID LEGENDS	C221052-00-PC-LGD-1001 TO 1005

- GENERAL NOTES:-**
- ALL LINE NUMBERING AND EQUIPMENT TAG NUMBERING SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".
 - ALL INSTRUMENT TAG NUMBER SHALL BE PRE-FIXED WITH PROJECT CODE & AREA CODE "C221052-DIPL".
 - ALL BALL VALVE IN PIPELINE EXCEPT IN MAIN LINE (PIGGABLE) SHALL BE REDUCED BORE TYPE

- NOTES :-**
- LOW RANGE PRESSURE GAUGE (0-1 kg/cm²g) SHALL BE PROVIDED WITH GAUGE SAVER.
 - DISTANCE SHALL BE AT LEAST EQUAL TO THE LENGTH OF THE LONGEST INTELLIGENT PIG.
 - BRANCH VALVE SHALL BE LOCATED AT MINIMUM DISTANCE.
 - DEPRESSURIZATION VALVE SHALL BE LOCATED IN SUCH A WAY THAT PG-3405 AND TIT-4602 CAN BE READ DURING VENTING.
 - VENT SHALL BE WITH OQEC.
 - ADEQUATE SLOPE TO BE MAINTAINED IN HORIZONTAL SECTION OF PIPE IF ANY FOR LOW POINT DRAIN CONNECTION.
 - JUMPERS SHALL BE PROVIDED ACROSS ALL FLANGES.
 - PG-4603 SHALL HAVE A RANGE OF (0-5 kg/cm²g) SHALL BE PROVIDED WITH GAUGE SAVER AND LEAST COUNT OF 0.1 kg/cm²g. .
 - PROVISION OF A TROLLEY WITH PUSH ROD & PULLING LINE SHALL BE CONSIDERED TO ASSIST LOADING OR REMOVAL OF PIGS FROM THE SCRAPER TRAP.
 - GAS DETECTORS TO BE PROVIDED IN DOWN WIND DIRECTION NEAR PIG BARRELS TO MONITOR LEAKAGE FROM FAILURE PRONE EQUIPMENTS PARTS,ACCESSORIES,VALVE & PIPES.
 - VALVE POSITION SHALL BE FAIL LAST.
 - ALL VENTS SHALL BE PROVIDED MIN. 3M HIGH FROM NEAREST HIGHEST OPERATING PLATFORM OR NEARBY STRUCTURE WITHIN 15M WHICHEVER IS HIGHER. NON SPARKING MATERIAL (BRASS) SHALL BE USED FOR FLAPPER TYPE VENT CONNECTION.
 - QUICK OPENING END CLOSURE TYPE DOOR CANNOT BE OPENED UNLESS PIG BARREL AND CONNECTED PIPING IS FULLY DEPRESSURIZE.
 - NECESSARY I/O's & SIGNAL FOR INTERFACE WITH SCADA SHALL BE DEVELOPED SEPARATELY.
 - ACTUATOR DETAILS OF GOOV CONTROL LOGIC SHALL BE AS PER P&ID.
 - 'CC' SHALL BE OF WEIGHT LOSS TYPE.
 - ONLINE RETRIEVAL TYPE CORROSION MONITORING COUPON AND CORROSION PROBE SHALL BE PROVIDED FURTHER WHEREVER SCADA SYSTEM ARE AVAILABLE, THIS SYSTEM SHALL BE ONLINE SCADA COMPATIBLE OTHERWISE DATA SHALL BE COLLECTED BY OFFLINE DATA LOGGER.
 - PIG SIGNALER CONNECTION SHALL BE CLAMP ON TYPES..
 - THERMO PAD SHALL BE WELDED TYPE.

- HOLDS:-**
- PSVs INLET & OUTLET SIZE ARE UNDER HOLD. SHALL BE FINALISED POST RECEIPT OF VENDOR DATA.



D1	27.09.22	ISSUED FOR DESIGN	SP	AD	SKP
C3	24.06.22	ISSUED FOR HAZOP	HS	AD	AKP
C2	23.05.22	ISSUED FOR APPROVAL	HS	AD	SKP
C1	13.05.22	ISSUED FOR CLIENT REVIEW	HS	AD	SKP
B1	30.04.22	ISSUED FOR IDC	HS	AD	SKP
REV.	DATE	DESCRIPTION	PREP.	CHKD.	APPD.

CLIENT: INDRADHANUSH GAS GRID LIMITED				
PMC: VCS QUALITY SERVICES PVT. LTD.				
PROJECT: NORTH EAST GAS GRID PHASE-III OF IGGL				
TITLE: P&ID FOR RECEIPT TERMINAL RT/DIPL AT IMPHAL				
SCALE:	N. T. S	TOTAL NO. OF SHTS:	1 OF 1	
SIZE	JOB NO.	DRAWING NUMBER	REV.	
A1	C221052	C221052-DIPL-PC-PID-1013	D1	