

NOTES : GENERAL

1. HIGH POINT VENT AND LOW POINT DRAIN NOT SHOWN ON P&ID SHALL BE SHOWN ON PIPING ISOMETRICS/GENERAL ARRANGEMENT DRAWINGS.
2. ALL SAFETY VALVES DISCHARGE & EQUIPMENT DEPRESSURIZING LINES SHALL BE FREE DRAINING TO VENT HEADER AND HAVE NO POCKETS UPTO AND INCLUDING HEADERS.
3. ALL FIRST ISOLATION VALVES IN TAPPING OF INSTRUMENTS (SUCH AS PRESSURE, LEVEL AND FLOW SWITCHES) CAUSING SHUTDOWN SHALL BE LOCKED OPEN
4. LINE NUMBERS SHALL BE INDICATED AS PER LINE LEGEND. 5. ALL INSTRUMENTS SHALL BE PROVIDED WITH ISOLATION VALVES FOR MAINTENANCE PURPOSE, IT SHOULD BE ENSURED THAT VALVES SHALL BE EASILY ACCESSIBLE.
6. DRAINS OF LEVEL INSTRUMENTS (NON-SOUR SERVICES) SHALL BE PIPED TO NEAREST DECK DRAIN FUNNEL WITH 1/2" TUBE PIPE.
7. FOR PUMPS HANDLING SWEET LIQUID CASING VENTS, DRAINS AND BASE PLATE DRAINS SHALL BE PIPED WITH VALVE TO NEAREST DECK DRAIN FUNNEL CASING DRAINS AND VENT FOR PUMPS IN SOUR SERVICE SHALL BE PIPED TO CLOSED DRAIN HEADER RESPECTIVELY.
8. PROTECTION AGAINST GALVANIC CORROSION TO BE PROVIDED WHEREVER REQUIRED DURING DISSIMILAR MATERIALS.
9. ALL VENT GAS PIPING SHALL BE FREE DRAINING TO THE HEADER WITH NO POCKETS.
10. ALL LIQUID SAMPLE POINTS EXCEPT FOR WELL FLUID SAMPLES SHALL BE TAKEN FROM CENTER OF THE PIPE WELL FLUID SAMPLES SHALL BE TAKEN FROM VERTICAL PORTION OF THE PIPE. ALL GAS SAMPLES SHALL BE TAKEN FROM TOP OF THE PIPE.
11. INSTRUMENT ISOLATION VALVES SHALL BE AS PER DETAILS GIVEN BELOW. ALL VALVES SHALL BE AS PER APPROPRIATE PIPING/INSTRUMENT SPECS. DIAPHRAGM SEAL ALSO AS PER SPECS. ALL TAKE OFF CONNECTIONS SHALL BE SW (SOCKET WELD) UNLESS OTHERWISE SPECIFIED.

(TYPICAL FOR PI, PT, PIC, PSH, PSHL)

11.1. TAKE OFF CONNECTIONS - PIPING : 3/4" VESSELS : 2" FLANGED
ALL DIAPHRAGM SEAL TYPE INSTRUMENT TO HAVE 1.5" FLANGED TAPPING

AS SHOWN ON P&ID

DETAILED LAYOUT

DETAILED LAYOUT

TYPICAL FOR PI

AS SHOWN ON P&ID

DETAILED LAYOUT

The diagram shows two parallel horizontal piping lines. The top line starts with a circle labeled 'PI' on the left, followed by a vertical line with a valve labeled '1/2"'. This is followed by a horizontal pipe section labeled '3/4"'. After this section, there is another vertical line with a valve labeled '3/4"'. The line ends with a circle labeled 'PI' on the right. The bottom line starts with a circle labeled 'PI' on the left, followed by a vertical line with a valve labeled '1/2"'. This is followed by a horizontal pipe section labeled '3/4"'. After this section, there is another vertical line with a valve labeled '3/4"'. The line ends with a circle labeled 'PI' on the right. A vertical pipe connects the two horizontal lines, with a valve labeled '3/4"'. The entire layout is labeled 'INSTRUMENT', 'PIPING', and 'INSTRUMENT'.

11.3 (TYPICAL FOR PDI, PDT, PDSH, PDSL, PDSHL)
TAKE OFF CONNECTIONS - PIPING : 3/4" VESSELS : 2" FLANGED

AS SHOWN ON P&ID

DETAILED LAYOUT

PDI

PIPING

INSTRUMENT

LO 3/4" F 1/2"

LO 3/4" F 1/2"

PDI


MANIFOLD (PER SPECS)

REFERENCE DRAWINGS/DOCUMENTS


S.No	DRG/DOC. No.	Rev No.	TITLE
1.	7073-OD-1002	0	P&ID - FLOW SHEET & INSTRUMENT LEGEND (2 OF 4)

B1	ISSUED FOR IDC	BR	GB	RJ	IR	30.03.1
REV	DESCRIPTION	DRN	CHKD	APPD	PM	DATE


OWNER

 OIL & NATURAL GAS CORPORATION LTD.
INDIA

EPC CONTRACTOR

 LARSEN & TOUBRO LIMITED
E&C UPSTREAM, MUMBAI

ENGINEERING CONSULTANT

 **VALDEL**

L&T-Valdel Engineering Limited
19, Primrose Road, Bangalore-560 025
INDIA

PROJECT: 04 WELL PLATFORMS FOR MHN RE-DEVELOPMENT PROJ

TITLE: PIPING & INSTRUMENTATION DIAGRAM
FLOW SHEET & INSTRUMENT LEGEND

SCALE: N.T.S	TOTAL NO. OF SHTS.: 1
DRAWING NUMBER COWGD992-51-1-GEN-2002	REVISION R