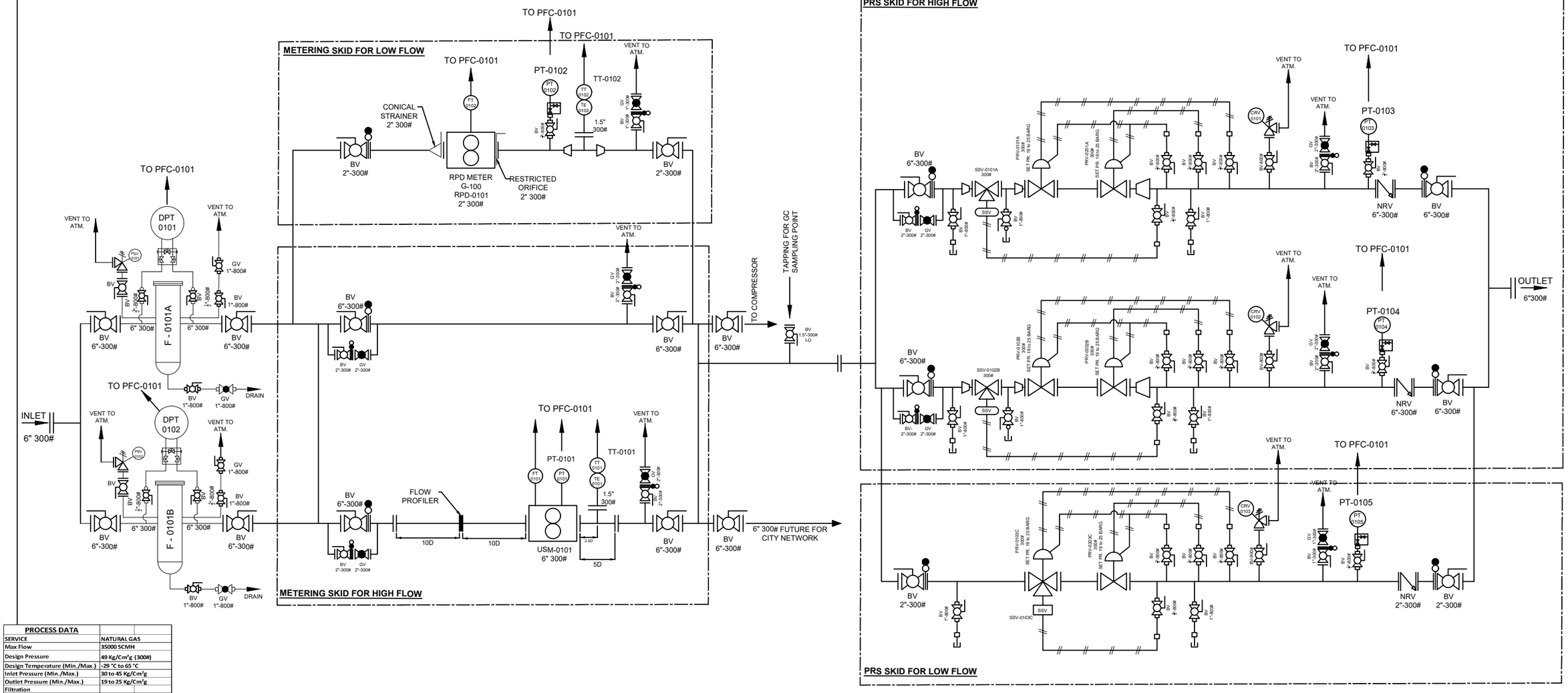
LEGEND :					
PG	PRESSURE GAUGE		PRESSURE REGULATOR VALVE (PRV)		SIZE CHANGE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER		SLAM SHUT-OFF VALVE TYPE		CONICAL STRAINER
TE	TEMPERATURE ELEMENT		BALL VALVE SW x SW		RESTRICTED ORIFICE
FE	FLOW ELEMENT		BALL VALVE SW x NPT		END CAP
PT	PRESSURE TRANSMITTER		GLOBE VALVE (GV) SW x SW		HEX PLUG
TT	TEMPERATURE TRANSMITTER		BW BALL VALVE		COUPLING
TE	TEMPERATURE ELEMENT	PFC	PANEL MOUNTED FLOW COMPUTER		NON-RETURN VALVE
##	PNEUMATIC SINGAL	FO	FAIL TO OPEN	USM	ULTRASONIC FLOW METER
——	ELECTRICAL WIRE	FC	FAIL TO CLOSE	RPD METER	ROTARY POSITIVE DISPLACEMENT METER
	FLANGED BALL VALVE (BV)	LO	LOCK OPEN	FT	FLOW TRANSMITTER
	CREEP RELIEF VALVE	LC	LOCK CLOSE		FLOW PROFILER
	PRESSURE SAFETY VALVE		SPECTACLE BLIEND		



PROCESS DATA		
SERVICE	**NATURAL GAS**	
Max Flow	**35000 SCMH**	
Design Pressure	**49 Kg/Cm²g (300#)**	
Design Temperature (Min./Max.)	**-29 °C to 65 °C**	
Inlet Pressure (Min./Max.)	**30 to 45 Kg/Cm²g**	
Outlet Pressure (Min./Max.)	**19 to 25 Kg/Cm²g**	
Filtration		
Parameters	Min.	Max.
Flow	600 SCMH	35000 SCMH
Inlet Pressure	30 Kg/Cm²g	45 Kg/Cm²g
Meter (Ultrasonic High Flow)		
Parameters	Min.	Max.
Flow	4500 SCMH	35000 SCMH
Inlet Pressure	30 Kg/Cm²g	45 Kg/Cm²g
Meter (RPD Low Flow)		
Parameters	Min.	Max.
Flow	80 SCMH	4500 SCMH
Inlet Pressure	30 Kg/Cm²g	45 Kg/Cm²g
PRS (High Flow)		
Parameters	Min.	Max.
Flow	4500 SCMH	35000 SCMH
Inlet Pressure	30 Kg/Cm²g	45 Kg/Cm²g
Outlet Pressure	19 Kg/Cm²g	25 Kg/Cm²g
PRS (Low Flow)		
Parameters	Min.	Max.
Flow	600 SCMH	4500 SCMH
Inlet Pressure	30 Kg/Cm²g	45 Kg/Cm²g
Outlet Pressure	19 Kg/Cm²g	25 Kg/Cm²g

NOTES:

1. ALL VENTS SHALL BE LOCATED AT A MIN. HEIGHT OF 3M ABOVE THE HIGHEST OPERATING LEVEL.
2. ALL VENTS SHALL BE PROVIDED WITH BRASS FLAPPER.
3. ALL BALL VALVES SHALL BE FULL BORE ONLY.
4. COPPER JUMPER PLATE TO BE PROVIDED AT EACH FLANGE CONNECTION.

CLIENT:-	MAHARASHTRA NATURAL GAS LIMITED	
DATE		PROJECT:- SUPPPLY,INSTALLATION & COMMISSIONING OF A CHECK METERING SKID (CMS) WITH PRS MNGL'S UPCOMING CGS
DRAWN BY		
CHECKED BY		TITLE:- P& ID FOR CMS WITH PRS OF MNGL CGS
		DRAWING NO : MNGL/CMS-PRS/P&ID/26-27/01 — REV R0