



PRORITES EQUIPMENTS PVT. LTD.

		GAT NO. 83, JYOTIBA NAGAR, TALAWADE, PUNE-411062	
		TECHNICAL DATASHEET - CORROSION INHIBITOR DOSING PACKAGE	
CUSTOMER		M/S SOPAN O&M, PUNE	No: DS/E-134/21-22/2.1 REV -01
PROJECT		ISTK CONTRACT FOR EXECUTION OF KASMARIGOAN EPS PROJECT	Ref Doc:
TAG No		L-401	
COMPONENT	DETAILS	DESCRIPTION	REMARK
DESCRIPTION / SCOPE	CORROSION INHIBITOR DOSING PACKAGE - FOR PID REF PID NO : PID/PEPL/E-134 /2.2		
DOSING TANK	TYPE	FIXED ROOF TANK	PRORITES
	SIZE	1000 L X 1000L X 1200HEIGHT	
	CAPACITY	1.0 m3	
	MOC	SS304	
	QTY	01 NOS	
DOSING PUMP P-401 A/B	TYPE	HYDRAULICALLY ACTUATED DIAPHRAGM TYPE MANUAL STROKE ADJUSTMENT	VK Pumps
	CAPACITY	1.35 LPH / 8 Kg/cm2	
	MOC	Wetted Parts SS 316. Diaphragm SS 316 .. R1	
	QTY	2 Nos (1W+1S)	
PRESSURE INDICATING SWITCH FOR RUPTURE DETECTION	TYPE	CHEMICAL SEALED BOURDON TYPE	GIC / Baumer
	WETTED PARTS	SS316L / 1/4" NPT Bottom	
	RANGE	0-16 kg/cm2 Switching Pressure 1.5 kg/cm2	
	CONTACT SWITCH	1 SPDT 230 VAC, 5A	
	DIAL SIZE	150	
	QTY	2 Nos	
DRIVE MOTORS	TYPE	Sq. cage Induction Motor Flame proof Gas Gr IIA/IIB	CG/ SIEMENS/ABB
	RPM / RATING	0.37 kw / 1440 RPM	
	SUPPLY	415 V / 50 Hz / 3 Ph AC	
	QTY	2 Nos (1W+1S)	
PRESSURE RELIEF VALVE	TYPE	SPRING LOADED	VK Pumps
	SET PR.	12 Kg/cm2	
	MOC	SS316L	
	QTY	2 Nos (1W+1S)	
PRESSURE CONTROL VALVE	TYPE	SELF ACTUATED	KOSO/NIRMAL/EQ
	SET PR.	12 Kg/cm2 (Note 1)	
	SIZE	1/2" SW#800	
	MOC	SS316L	
	QTY	2 Nos (1W+1S)	
SUCTION STRAINER	TYPE	Y TYPE STRAINER	Triveni/Esco/Pennant
	SIZE	1/2" NB SW	
	MOC	SS316L	
	QTY	2 Nos	



PRORITES EQUIPMENTS PVT. LTD.

GAT NO. 83, JYOTIBA NAGAR, TALAWADE, PUNE-411062		
TECHNICAL DATASHEET - CORROSION INHIBITOR DOSING PACKAGE		
CUSTOMER M/S SOPAN O&M, PUNE		No: DS/E-134/21-22/2.1 REV -01
PROJECT LSTK CONTRACT FOR EXECUTION OF KASMARIGOAN EPS PROJECT		Ref Doc:
TAG No L-401		
SUCTION SIDE GLOBE VALVE	TYPE	GLOBE VALVE
	SIZE	1" +1/2" NB SW800#
	MOC	BODY ASTM A182 GR. F316L, TRIM, SS316L+STELLEATED
	QTY	07+08 NOS
DISCHARGE SIDE GLOBE VALVE	TYPE	GLOBE VALVE
	SIZE	1/2" NB SW 800#
	MOC	BODY ASTM A182 GR. F316L, TRIM, SS316L+STELLEATED
	QTY	14 NOS
SUCTION SIDE NON RETURN VALVE	TYPE	NON RETURN VALVE
	SIZE	1" NB 800# SW, B16.11
	MOC	BODY ASTM A182 GR. F316L, TRIM, SS316L+STELLEATED
	QTY	01 NOS
DISCHARGE SIDE NON RETURN VALVE	TYPE	NON RETURN VALVE
	SIZE	1/2" NB 800# SW, B16.11
	MOC	BODY ASTM A182 GR. F316L, TRIM, SS316L+STELLEATED
	QTY	02 NOS
PRESSURE GAUGE FOR SUCTION SIDE	TYPE	CHEMICAL SEALED BOURDON TYPE
	WETTED PARTS	SS 316L
	RANGE	0-6 kg/cm2
	CONNECTION	1/2" NPT Bottom
	DIAL SIZE	150
	QTY	01 NOS
PRESSURE GAUGE FOR DISCHARGE SIDE	TYPE	CHEMICAL SEALED BOURDON TYPE
	WETTED PARTS	SS 316L
	RANGE	0-16 kg/cm2 (g)
	CONNECTION	1/2" NPT Bottom
	DIAL SIZE	150
	QTY	02 NOS
PULSATION DAMPENER	TYPE	VOLUME BOTTLE TYPE
	SIZE/MOC	SS316L
	QTY	2 Nos
LEVEL GAUGE ... R1	TYPE	MAGNETIC TYPE
	SIZE	2" NB # 300, CTC 2400MM
	ISOLATION VALVE	2" FLANGED #150 GLBE VALVE
	MOC	SS316L
	QTY	01 NOS



PRORITES EQUIPMENTS PVT. LTD.

		GAT NO. 83, JYOTIBA NAGAR, TALAWADE, PUNE-411062	
		TECHNICAL DATASHEET - CORROSION INHIBITOR DOSING PACKAGE	
CUSTOMER		M/S SOPAN O&M, PUNE	No: DS/E-134/21-22/2.1 REV -01
PROJECT		LSTK CONTRACT FOR EXECUTION OF KASMARIGOAN EPS PROJECT	
TAG No		L-401	
LEVEL TRASNMITTER ...R1	TYPE	RADAR TYPE LEVEL TRANSMITTER	ABB/TOSHNIVAL/HONEYWELL/EQ
	SIZE	2" NB # 300, CTC 2400MM	
	ISOLATION VALVE	2" FLANGED #150 GLBE VALV	
	MOC	SS316L, OUT PUT, 4-20MA, WITH HART	
	QTY	01 NOS	
PRESSURE TRASNMITTER	TYPE	PRESSURE TRASNMITTER WITH HART TYPE	ABB/TOSHNIVAL/HONEYWELL/EQ
	SIZE	1/2" NPT BOTTOM	
	MOC	F SS316L, 4-20MA	
	QTY	01 NOS	
CALIBRATION POT	TYPE	VERTICAL CYLINDER WITH BOROSILICATE GLASS	SIGMA/PUNE TECHTROL
	SIZE	1/2" NB #150 WITH 250 ML VOLUME CAPACITY R1	
	MOC	SS316L	
	QTY	01 NOS	
SUCTION SIDE PIPING	PIPES	1" NB SCH 80 S.S. SMLS, A 312 TP 316L, B36.19 SEAMLESS	
	FITTINGS	1" NB #3000 SW FS A182 F316L, B16.11	
	FLANGES	1" NB #150 WNRF FS, A182 F316L, RF, 125AARH	
DISCHARGE SIDE PIPING	PIPES	1/2" NB SCH 80 S.S. SMLS, A 312 TP 316L, B36.19 SEAMLESS	
	FITTINGS	1/2" NB #3000 SW FS A182 F316L, B16.11	
	FLANGES	1/2" NB #150 WNRF FS, A182 F316L, RF, 125AARH	
HARDWARE	INTEGRAL	A193, GR B7M, NUT : A194 GR .2M	
	GASKETS	SPIRAL WOUND SS316L+CNAF, #150	
	FOUNDATION	CS PLATED	
BASE FRAME	SIZE	To be Connfirmed after detail engineering	PRORITES
	MOC	IS2062	
ACCESSORIES	FLAME ARRAESTOR	1" NB #150	
	BASKET FILTER	50 MICRON 3/4" 150#	
	CANOPY	YES FOR ALL MOTORS	
	JUNCTION BOX	Flame proof junction box, common for P401A/B & P-402A/B systems. With wiring within skid from all instruments	
	LOCAL CONTROL STN	Flame proof local control station with push buttons, indicating switch, alarams and emergency stop.(Common for P-401 A/B & P-402A/B)	
	AODD PUMP	2000 LPH 2 KG/CM2(g) QTY = 01 NOS	

Notes :

1) Set pressure for Pressure Control Valves are to be confirmed during detail engineering.

For PRORITES EQUIPMENTS PVT LTD.


 Pratiksha Jagtap
 Engineering

CORROSION INHIBITOR TANK

T-401

CORROSION INHIBITOR INJECTION SYSTEM

P-401A/B

CORROSION INHIBITOR TRANSFER PUMP

P-410

TYPE : FIXED ROOF TANK

CAPACITY (NET) : 1.0 M³

DES. CON. P/T : 100MMWC + FOW/70°

OPER. CON. P/T : ATM/AMB

SIZE : 1000MM (I) X 1000MM (W) X 1200 MM (H)

MOC : SS304

TYPE : DIAPHRAGM

DESIGN PRESS : 12 KG/CM²G

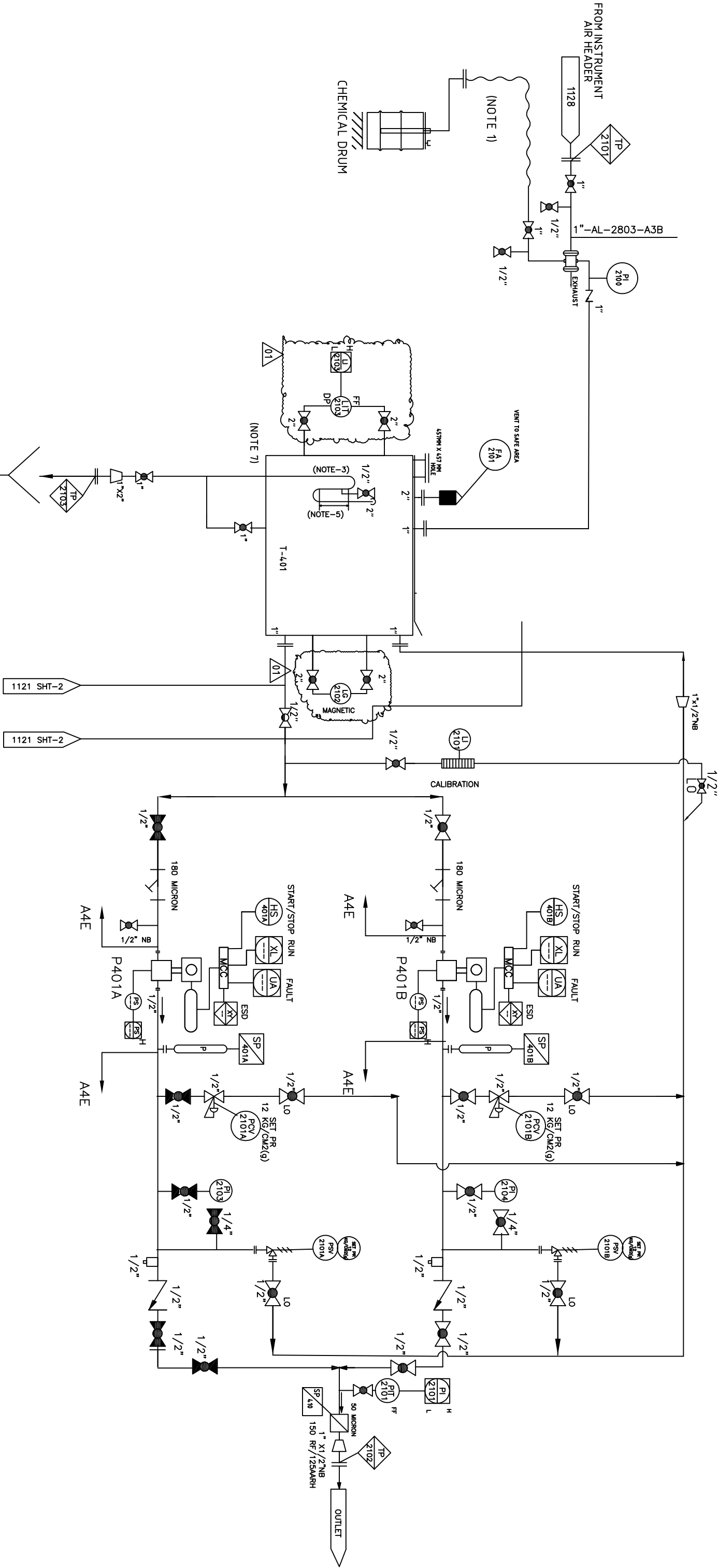
DESIGN TEMPERATURE : 70°C

NORMAL FLOW RATE : 1.35 LPH

DISCHARGE PRESSURE : 8.0 KG/CM²(g)

DIFF PRESS : 8.0 KG/CM²

POWER : 0.37 KW



GENERAL NOTES:-

1. ALL INSTRUMENTS & EQUIPMENT TAG NUMBERS WILL BE PREFIXED BY UNIT NAME NAN.
2. FOR STANDARD SYMBOLS & NOMENCLATURE REFER TO LEGEND. : 9855-00-01-A3-1101

NOTES:-

1. CORROSION INHIBITOR DOSING TO WELL FLUID LINE
2. CHEMICAL HOSES WILL BE LOOSE SUPPLIED BY PACKAGE VENDOR.
3. SYPHON BREAKING HOLES TO BE PROVIDED ON OVERFLOW LINE .
4. ALL CHEMICAL TRANSFER PUMPS ARE LOCATED IN THE SAME SKID
5. LIQUID / WATER SEAL LENGTH TO BE FINALIZED .
6. INJECTION PUMPS ARE PROVIDED WITH A DIAPHRAGM RUPTURE INDICATOR SWITCH FROM WHICH SIGNAL HAS TO BE TAKEN IN CONTROL ROOM .
7. SIGHT GLASS TO BE PROVIDED.
8. CONTROL LOGIC FOR AL THE LOOPS TO BE IMPLEMENTED IN PLANT DCS AND TRIP VALVES FOR ALL THE SIGNALS INTERFACED TO PLANT SYSTEM SHALL BE PROVIDED.

ISSUED FOR APPROVAL

01	20.12.2021	ISSUED FOR APPROVAL	BY	NDV	PGJ
00	09.12.2021	ISSUED FOR APPROVAL	BY	NDV	PGJ
REV.	DATE	DESCRIPTION	BY	CHKD.	APPD. CLIENT

CLIENT :  **ONGC**

CLIENT'S CONSULTANT :  **TRILUNE ENERGY SERVICES PVT. LTD.**

OIL AND NATURAL GAS CORPORATION LIMITED

PROJECT : LSTK CONTRACT FOR EXECUTION OF KASOMARIGAON EPS PROJECT

CUSTOMER

M/S SOPAN O&M , PUNE

TITLE :

PIPING AND INSTRUMENTATION DIAGRAM

CHEMICAL DOSING SYSTEM

CORROSION INHIBITOR

CLIENT PROJECT No.	PETROBEC PROJECT No.	SCALE	SHEET	SHT. SIZE
----	9655	NTS	1 OF 1	A1
DRAWING NUMBER				REV
PID/ PEPL/21-22/E-134/21				01



PRORITES EQUIPMENTS PVT. LTD.

	GAT NO. 83, JYOTIBA NAGAR, TALAWADE, PUNE-411062		
	TECHNICAL DATASHEET - CORROSION INHIBITOR DOSING PACKAGE		No: DS/E-134/21-22/2.2 REV -01
CUSTOMER	M/S SOPAN O&M , PUNE		Ref Doc:
PROJECT	LSTK CONTRACT FOR EXECUTION OF KASMARIGOAN EPS PROJECT		
TAG No	L-401		
COMPONENT	DETAILS	DESCRIPTION	REMARK
DESCRIPTION / SCOPE	CORROSION INHIBITOR DOSING PACKAGE - FOR PID NO : PID/PEPL/E-134 /2.2		
DOSING PUMP P-402A/B	TYPE	HYDRAULICALLY ACTUATED DIAPHRAGM TYPE MANUAL STROKE ADJUSTMENT	VK Pumps
	CAPACITY	0.67 LPH / 53.8 Kg/cm2	
	MOC	SS 316. Diaphragm SS 316 .. R1	
	QTY	2 Nos (1W+1S)	
PRESSURE INDICATING SWITCH FOR RUPTURE DETECTION	TYPE	Chemical sealed Bourdon Type	GIC / Baumer
	WETTED PARTS	SS316L / 1/4" NPT Bottom	
	RANGE	0-100 kg/cm2 Switching Pressure 1.5 kg/cm2	
	CONTACT SWITCH	1 SPDT 230 VAC, 5A	
	DIAL SIZE	150	
	QTY	2 Nos	
DRIVE MOTORS	TYPE	Sq. cage Induction Motor Flame proof Gas Gr IIA/IIB	CG/ SIEMENS/ABB
	RPM / RATING	0.37 kw / 1440 RPM	
	SUPPLY	415 V / 50 Hz / 3 Ph AC	
	QTY	2 Nos (1W+1S)	
PRESSURE RELIEF VALVE	TYPE	SPRING LOADED	VK Pumps
	SET PR.	65 Kg/cm2	
	MOC	SS316L	
	QTY	2 Nos (1W+1S)	
PRESSURE CONTROL VALVE	TYPE	SELF ACTUATED	KOSO/NIRMAL/EQ
	SET PR.	65 Kg/cm2 (Note 1)	
	SIZE	1/2" SW#800	
	MOC	SS316L	
	QTY	2 Nos (1W+1S)	
SUCTION STRAINER	TYPE	Y TYPE STRAINER	Triveni/Esco/Pennant
	SIZE	1/2" NB SW #800	
	MOC	SS316L	
	QTY	2 Nos	
SUCTION SIDE GLOBE VALVE	TYPE	GLOBE VALVE	CESSORE BONETII/GM ENGG/EQ
	SIZE	1/2" NB SW 800#	
	MOC	BODY ASTM A182 GR. F316L , TRIM , SS316L+STELLEATED	
	QTY	07 nos	
DISCHARGE SIDE GLOBE VALVE	TYPE	GLOBE VALVE	CESSORE BONETII/GM ENGG/EQ
	SIZE	1/2" NB SW 800#	
	MOC	BODY ASTM A182 GR. F316L , TRIM , SS316L+STELLEATED	
	QTY	17 nos	
DISCHARGE SIDE NON RETURN VALVE	TYPE	NON RETURN VALVE	CESSORE BONETII/GM ENGG/EQ
	SIZE	1/2" NB 800# SW , B16.11	
	MOC	BODY ASTM A182 GR. F316L , TRIM , SS316L+STELLEATED	
	QTY	02 NOS	
PRESSURE GAUGE FOR DISCHARGE SIDE	TYPE	CHEMICAL SEALED BOURDON TYPE	GIC / Baumer
	WETTED PARTS	SS 316L	
	RANGE	0-100 kg/cm2 (g)	
	CONNECTION	1/2" NPT Bottom	
	DIAL SIZE	150	
	QTY	02 NOS	
PULSATION DAMPENER	TYPE	VOLUME BOTTLE TYPE	PRORITES
	SIZE/MOC	SS316L	
	QTY	2 Nos	
PRESSURE TRASNMITTER	TYPE	PRESSURE TRASNMITTER WITH HART TYPE	ABB/TOSHNIVAL/HONEYWELL/EQ
	SIZE	1/2" NPT BOTTOM	
	MOC	F SS316L , 4-20MA	
	QTY	01 NOS	
CALIBRATION POT	TYPE	VERTICAL CYLINDER WITH BOROSILICATE GLASS	SIGMA/PUNE TECHTROL
	SIZE	1/2" NB #150 WITH 250 ML VOLUME CAPACITY ... R1	
	MOC	SS316L	
	QTY	01 NOS	



PRORITES EQUIPMENTS PVT. LTD.

	GAT NO. 83, JYOTIBA NAGAR, TALAWADE, PUNE-411062		
	TECHNICAL DATASHEET - CORROSION INHIBITOR DOSING PACKAGE		No: DS/E-134/21-22/2.2 REV -01
CUSTOMER	M/S SOPAN O&M , PUNE		Ref Doc:
PROJECT	LSTK CONTRACT FOR EXECUTION OF KASMARIGOAN EPS PROJECT		
TAG No	L-401		
SUCTION SIDE PIPING	PIPES	1/2" NB SCH 80 S.S. SMLS, A 312 TP 316L, B36.19 SEAMLESS	
	FITTINGS	1/2" NB #3000 SW FS A182 F316L, B16.11	
	FLANGES	1/2" NB #150 WNRF FS, A182 F316L, RF, 125AARH	
DISCHARGE SIDE PIPING	PIPES	1/2" NB SCH 80 S.S. SMLS, A 312 TP 316L, B36.19 SEAMLESS	
	FITTINGS	1/2" NB #3000 SW FS A182 F316L, B16.11	
	FLANGES	1/2" NB #600 WNRF FS, A182 F316L, RF, 125AARH	
HARDWARE	INTEGRAL	A193, GR B7M , NUT : A194 GR .2M	
	GASKETS	SPIRAL WOUND SS316L+CNAF, #150+600	
	FOUNDATION	CS PLATED	
BASE FRAME	SIZE	To be Confirmed after detail engineering	PRORITES
	MOC	IS2062	
ACCESSORIES	FLAME ARRAESTOR	NA	
	BASKET FILTER	50 MICRON 3/4" 150#	
	CANOPY	YES FOR ALL MOTORS	
	AODD PUMP	NA	

Notes :

1) Set pressure for Pressure Control Valves are to be confirmed during detail engineering.

For PRORITES EQUIPMENTS PVT LTD.

Pratiksha Jagtap
Engineering

CORROSION INHIBITOR INJECTION SYSTEM

P-402A/B

CORROSION INHIBITOR DOSING PUMP (2X100%)

TYPE : DIAPHRAGM

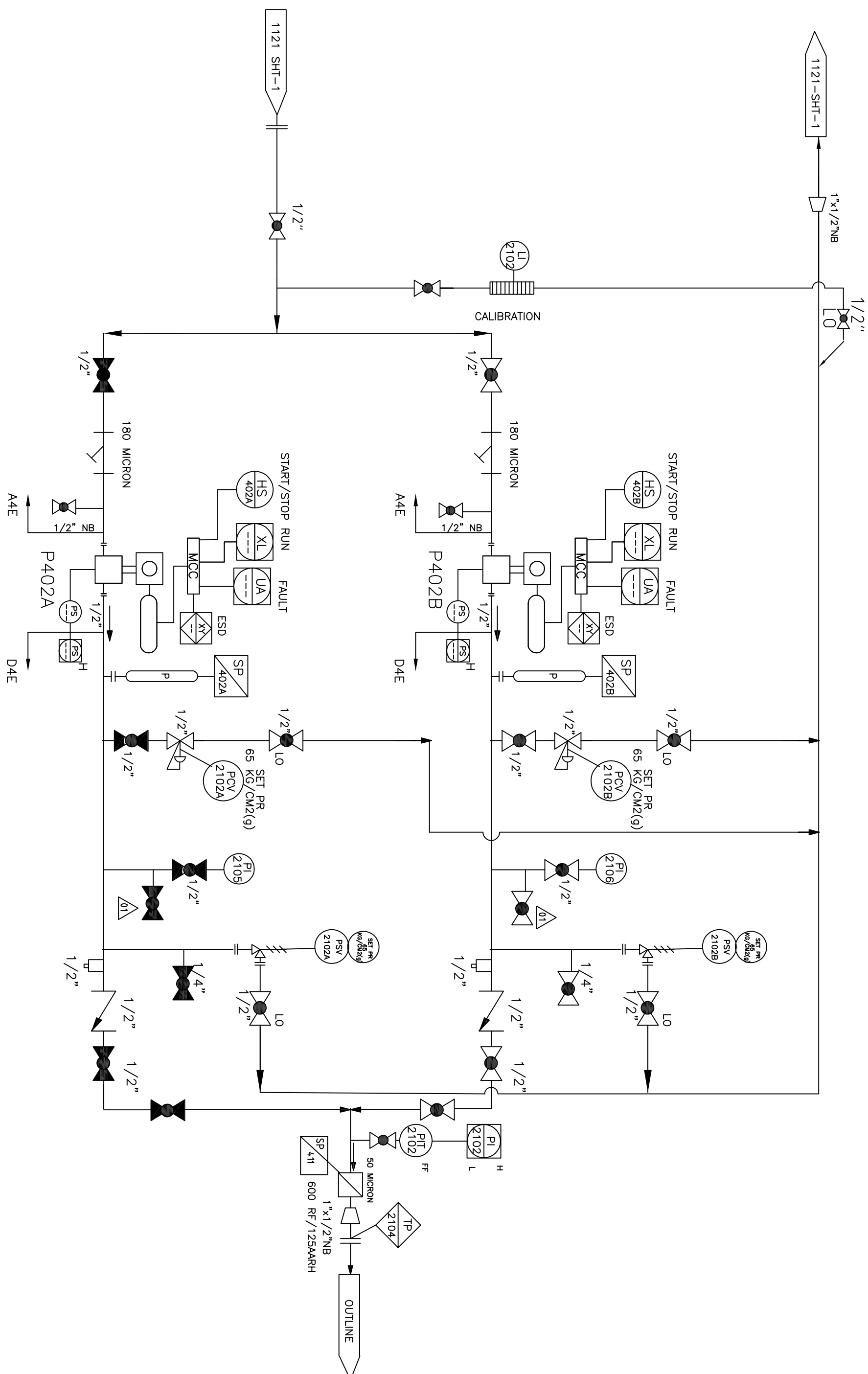
DESIGN PRESS : 68.2 KG/CM²g

DESIGN TEMPERATURE : 70°C
NORMAL FLOW RATE : 0.67 LPM

DISCHARGE PRESSURE : 53.8 KG/CM²(g)

DIFF PRESS : 53.8 KG/CM2(g)

POWER : 0.37 KW



GENERAL NOTES:-

1. ALL INSTRUMENTS & EQUIPMENT TAG NUMBERS WILL BE PREFIXED BY UNIT NAME NAN.
2. FOR STANDARD SYMBOLS & NOMENCLATURE REFER TO LEGEND. : 9855-00-01-A3-1101

NOTES:-

1. CORROSION INHIBITOR DOSING TO WELL FLUID LINE
2. CHEMICAL HOSES WILL BE LOOSE SUPPLIED BY PACKAGE VENDOR.
3. SYNPHON BREAKING HOLES TO BE PROVIDED ON OVERFLOW LINE .
4. ALL CHEMICAL TRANSFER PUMPS ARE LOCATED IN THE SAME SKID
5. LIQUID / WATER SEAL LENGTH TO BE FINALIZED .
6. INJECTION PUMPS ARE PROVIDED WITH A DIAPHRAGM RUPTURE INDICATOR SWITCH FROM WHICH SIGNAL HAS TO BE TAKEN IN CONTROL ROOM
7. SIGHT GLASS TO BE PROVIDED.
8. CONTROL LOGIC FOR ALL THE LOOPS TO BE IMPLEMENTED IN PLANT DCS AND ESD SHALL BE PROVIDED.
9. ALARM AND TRIP VALVES FOR ALL THE SIGNALS INTERFACED TO PLANT SYSTEM SHALL BE PROVIDED.

ISSUED FOR APPROVAL

REV.	DATE	DESCRIPTION	BY	CHKD.	APPD.	CLIENT
01	20.12.2021	ISSUED FOR APPROVAL	BY	NDV	PGJ	
00	09.12.2021	ISSUED FOR APPROVAL	BY	NDV	PGJ	

CLIENT : CLIENT'S CONSULTANT :



OIL AND NATURAL GAS CORPORATION LIMITED

TRIUNE ENERGY SERVICES PVT. LTD.

PROJECT:

CUSTOMER
M/S SOPAN O&M , PUNE

TITLE :

PIPING AND INSTRUMENTATION DIAGRAM
CHEMICAL DOSING SYSTEM
CORROSION INHIBITOR

CLIENT PROJECT No.	PETROBEC PROJECT No.	SCALE	SHEET	SHT. SIZE
-----	9655	NTS	2 OF 2	A1
DRAWING NUMBER				REV
PID/ PEP/21-22/E-134/2.2				01



PRORITES EQUIPMENTS PVT. LTD.

	GAT NO. 83, JYOTIBA NAGAR, TALAWADE, PUNE-411062		
	TECHNICAL DATASHEET - METHANOL DOSING PACKAGE		No: DS/E-134/21-22/1 REV -01
CUSTOMER	M/S SOPAN O&M , PUNE		Ref Doc:
PROJECT	LSTK CONTRACT FOR EXECUTION OF KASMARIGOAN EPS PROJECT		
TAG No	L-401		
COMPONENT	DETAILS	DESCRIPTION	REMARK
DESCRIPTION / SCOPE	METHANOL DOSING PACKAGE FOR PID : REF PID NO PID/PEPL/E-134 /1		
DOSING TANK	TYPE	FIXED ROOF TANK	PRORITES
	SIZE	1400 L X 1400L X 2600 HEIGHT	
	CAPACITY	5.0 m3	
	MOC	SS304	
	QTY	01 NOS	
DOSING PUMP P-404 A/B	TYPE	HYDRAULICALLY ACTUATED DIAPHRAGM TYPE MANUAL STROKE ADJUSTMENT	VK Pumps
	CAPACITY	33 LPH / 206 Kg/cm2 R1	
	MOC	Wetted Parts SS 316. Diaphragm PTFE	
	QTY	2 Nos (1W+1S)	
PRESSURE INDICATING SWITCH FOR RUPTURE DETECTION	TYPE	CHEMICAL SEALED BOURDON TYPE	GIC / Baumer
	WETTED PARTS	SS316L / 1/4" NPT Bottom	
	RANGE	0-300 kg/cm2 , Switching Pressure 1.5 kg/cm2	
	CONTACT SWITCH	1 SPDT 230 VAC, 5A	
	DIAL SIZE	150	
DRIVE MOTORS	TYPE	Sq. cage Induction Motor Flame proof Gas Gr IIA/IIB	CG/ SIEMENS/ABB
	RPM / RATING	1.5 kw / 1440 RPM R1	
	SUPPLY	415 V / 50 Hz / 3 Ph AC	
	QTY	2 Nos (1W+1S)	
PRESSURE RELIEF VALVE	TYPE	SPRING LOADED	VK Pumps
	SET PR.	225 Kg/cm2 R1	
	MOC	SS316L	
	QTY	2 Nos (1W+1S)	
PRESSURE CONTROL VALVE	TYPE	SELF ACTUATED	KOSO/NIRMAL/EQ
	SET PR.	248 Kg/cm2 (Note 1)	
	SIZE	1/2" SW#1500	
	MOC	SS316L	
	QTY	2 Nos (1W+1S)	
SUCTION STRAINER	TYPE	Y TYPE STRAINER	Triveni/Esco/Pennant
	SIZE	1" NB SW	
	MOC	SS316L	
	QTY	2 Nos	
SUCTION SIDE GLOBE VALVE	TYPE	GLOBE VALVE	CESSORE BONETII/GM ENGG/EQ
	SIZE	1" +1/2" NB SW800#	
	MOC	BODY ASTM A182 GR. F316L , TRIM , SS316L+STELLEATED	
	QTY	13 +7 NOS	
DISCHARGE SIDE GLOBE VALVE	TYPE	GLOBE VALVE	CESSORE BONETII/GM ENGG/EQ
	SIZE	3/4"+1/2" BW, 1500 B16.9	
	MOC	BODY ASTM A182 GR. F316L , TRIM , SS316L+STELLEATED	
	QTY	04+14 NOS	



PRORITES EQUIPMENTS PVT. LTD.

	GAT NO. 83, JYOTIBA NAGAR, TALAWADE, PUNE-411062		
	TECHNICAL DATASHEET - METHANOL DOSING PACKAGE		No: DS/E-134/21-22/1 REV -01
CUSTOMER	M/S SOPAN O&M, PUNE		Ref Doc:
PROJECT	LSTK CONTRACT FOR EXECUTION OF KASMARIGOAN EPS PROJECT		
TAG No	L-401		
SUCTION SIDE NON RETURN VALVE	TYPE	NON RETURN VALVE	CESSORE BONETII/GM ENGG/EQ
	SIZE	1" NB 800# SW, B16.11	
	MOC	BODY ASTM A182 GR. F316L, TRIM, SS316L+STELLEATED	
	QTY	01 NOS	
DISCHARGE SIDE NON RETURN VALVE	TYPE	NON RETURN VALVE	CESSORE BONETII/GM ENGG/EQ
	SIZE	3/4" NB BW 1500 #,B16.9	
	MOC	BODY ASTM A182 GR. F316L, TRIM, SS316L+STELLEATED	
	QTY	02 NOS	
PRESSURE GAUGE FOR SUCTION SIDE '	TYPE	CHEMICAL SEALED BOURDON TYPE	GIC / Baumer
	WETTED PARTS	SS 316L	
	RANGE	0-6 kg/cm2	
	CONNECTION	1/2" NPT Bottom	
	DIAL SIZE	150	
	QTY	02 NOS	
PRESSURE GAUGE FOR DISCHARGE SIDE	TYPE	CHEMICAL SEALED BOURDON TYPE	GIC / Baumer
	WETTED PARTS	SS 316L	
	RANGE	0-310 kg/cm2 (g)	
	CONNECTION	1/2" NPT Bottom	
	DIAL SIZE	150	
	QTY	02 NOS	
PULSATION DAMPENER	TYPE	VOLUME BOTTLE TYPE	PRORITES
	SIZE/MOC	SS316L	
	QTY	2 Nos	
LEVEL GAUGE ... R1	TYPE	MAGNETIC TYPE	PUNE TECHTROL/SIGMA
	SIZE	2" NB # 300, CTC 2400MM	
	ISOLATION VALVE	2" FLANGED #150 GLBE VALVE	
	MOC	SS316L	
	QTY	01 NOS	
LEVEL TRASNMITTER ...R1	TYPE	RADAR TYPE LEVEL TRANSMITTER	ABB/TOSHNIVAL/HONEYWELL/EQ
	SIZE	2" NB # 300, CTC 2400MM	
	ISOLATION VALVE	2" FLANGED #150 GLBE VALV	
	MOC	SS316L, OUT PUT, 4-20MA, WITH HART	
	QTY	01 NOS	
PRESSURE TRASNMITTER	TYPE	PRESSURE TRASNMITTER WITH HART TYPE	ABB/TOSHNIVAL/HONEYWELL/EQ
	SIZE	1/2" NPT BOTTOM	
	MOC	F SS316L, 4-20MA	
	QTY	02 NOS	
CALIBRATION POT	TYPE	VERTICAL CYLINDER WITH BOROSILICATE GLASS	SIGMA/PUNE TECHTROL
	SIZE	1/2" NB #150 WITH 250 ML VOLUME CAPACITY R1	
	MOC	SS316L	
	QTY	01 NOS	



PRORITES EQUIPMENTS PVT. LTD.

	GAT NO. 83, JYOTIBA NAGAR, TALAWADE, PUNE-411062		
	TECHNICAL DATASHEET - METHANOL DOSING PACKAGE		No: DS/E-134/21-22/1 REV -01
CUSTOMER	M/S SOPAN O&M , PUNE		Ref Doc:
PROJECT	LSTK CONTRACT FOR EXECUTION OF KASMARIGOAN EPS PROJECT		
TAG No	L-401		
SUCTION SIDE PIPING	PIPES	1" NB SCH 80 S.S. SMLS, A 312 TP 316L, B36.19 SEAMLESS	
	FITTINGS	1" NB #3000 SW FS A182 F316L, B16.11	
	FLANGES	1" NB #150 WNRF FS, A182 F316L, RF, 125AARH	
DISCHARGE SIDE PIPING	PIPES	3/4" NB SCH 80 S.S. SMLS, A 312 TP 316L, B36.19 SEAMLESS	
	FITTINGS	3/4" NB BW,1.5D , ASTM A403GR . WP 316L	
	FLANGES	3/4" NB #1500 WNRF ASTM A182 GR.F316L, RTJ/63AARH	
HARDWARE	INTEGRAL	A193, GR B7M , NUT : A1GR .2M	
	GASKETS	SOFT IRON B 16.20 ,ASME, B16.5, OCT -RING 1500	
	FOUNDATION	CS PLATED	
BASE FRAME	SIZE	To be Confirmed after detail engineering	PRORITES
	MOC	IS2062	
ACCESSORIES	VENT	1" NB WITH GOOSE NECK TYPE	
	BASKET FILTER	50 MICRON 3/4" 150#	
	CANOPY	YES FOR ALL MOTORS	
	AODD PUMP	2000 LPH 2 KG/CM2(g) QTY = 01 NOS WITH FRL & HOSES	
	N2 STATION	PR. CONTROL STATION WITH 2 PCVs FOR N2 LINE AS PER P&I D	
	JUNCTION BOX	Flame proof junction box, with wiring within skid from all instruments	
	LOCAL CONTROL STN	Flame proof local control station with push buttons, indicating switch, alarms and emergency stop.	
	LIFTING BEAM	COMMON SPREADER BAR FOR BOTH SYSTEMS	

Notes :

1) Set pressure for Pressure Control Valves are to be confirmed during detail engineering.

For PRORITES EQUIPMENTS PVT LTD.

Pratiksha Jagtap
Engineering

1

2

3

4

5

6

7

8

9

10

11

12

REFERENCE DRAWINGS/DOCUMENTS

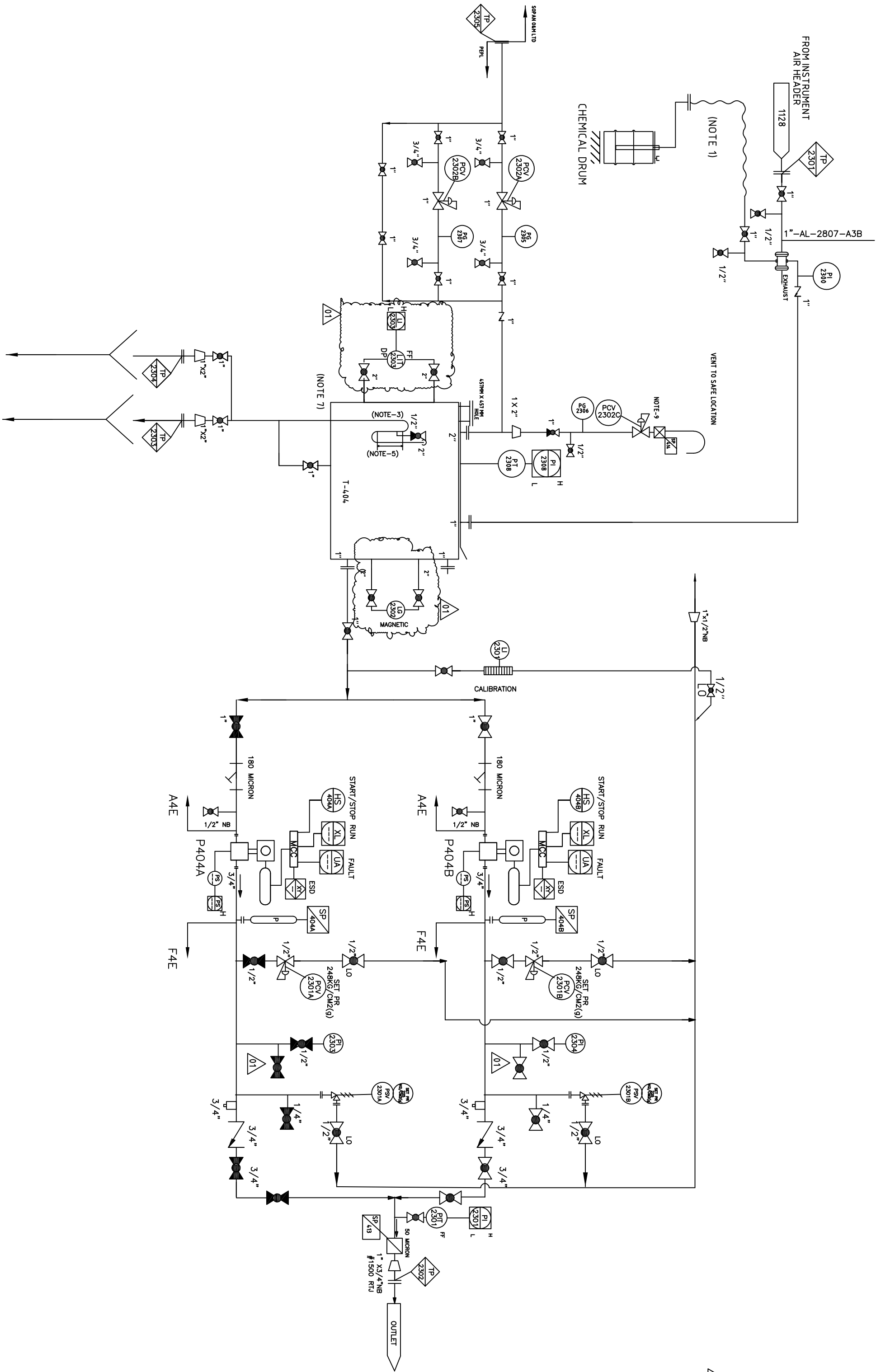
S.No.	DOC. / DWG. No.	DOC. / DWG. NAME

METHANOL TANK
L-404
TYPE : FIXED ROOF TANK
CAPACITY (NET) : 5.0 M3
DES. CON. P/T : 100MMWC + FOW/70°
OPE. CON. P/T : ATM/AMB
SIZE : 1400MM (I) X 1400MM (W) X 2600 MM (H) DIFF PRESS
MOC : SS304

METHANOL DOSING PUMP (2X100%)
P-404A/B
TYPE : DIAPHRAGM
DESIGN PRESS : 225 KG/CM2g
NORMAL TEMPERATURE : 70°C
NORMAL FLOW RATE : 33.0 LPH
DISCHARGE PRESSURE : 206.0 KG/CM2(g)
POWER : 1.5 KW

METHANOL TRANSFER PUMP
P-412
CAPACITY : 2.0 m3/hr
DIFF PRESSURE : 2.0 KG/CM2
TYPE : PNEUMATIC

METHANOL INJECTION SYSTEM



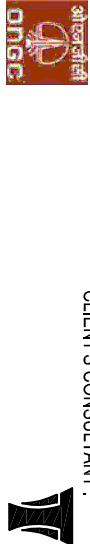
GENERAL NOTES:-
1. ALL INSTRUMENTS & EQUIPMENT TAG NUMBERS WILL BE PREFIXED BY UNIT NAME NAN.
2. FOR STANDARD SYMBOLS & NOMENCLATURE REFER TO LEGEND. : 9855-00-01-A3-1101

NOTES:-
1.METHANOL DOSING HIGH PRESSURE GAS INJECTION LINE TO WELLS
2. CHEMICAL HOSES WILL BE LOOSE SUPPLIED BY PACKAGE VENDOR.
3. SYPHON BREAKING HOLES TO BE PROVIDED ON OVERFLOW LINE .
4.ALL CHEMICAL TRANSFER PUMPS ARE LOCATED IN THE SAME SKID
5. LIQUID / WATER SEAL LENGTH TO BE FINALIZED .
6. INJECTION PUMPS ARE PROVIDED WITH A DIAPHRAGM RUPTURE INDICATOR SWITCH FROM WHICH SIGNAL HAS TO BE TAKEN IN CONTROL ROOM
7. SIGHT GLASS TO BE PROVIDED.
8. CONTROL LOGIC FOR AL THE LOOPS TO BE IMPLEMENTED IN PLANT DCS AND ESD SHALL BE PROVIDED.
9. ALARM AND TRIP VALVES FOR ALL THE SIGNALS INTERFACED TO PLANT SYSTEM SHALL BE PROVIDED.

ISSUED FOR APPROVAL

01	20.12.2021	ISSUED FOR APPROVAL	BY	NDV	PGJ
00	09.12.2021	ISSUED FOR APPROVAL	BY	NDV	PGJ
REV.	DATE	DESCRIPTION	BY	CHKD.	APPD.

CLIENT : CLIENT'S CONSULTANT :



OIL AND NATURAL GAS CORPORATION LIMITED TRILUNE ENERGY SERVICES PVT. LTD.

PROJECT : LSTK CONTRACT FOR EXECUTION OF KASOMARIGARON EPS PROJECT

CUSTOMER M/S SOPAN O&M , PUNE

TITLE : PIPING AND INSTRUMENTATION DIAGRAM
CHEMICAL DOSING SYSTEM
METHANOL

CLIENT PROJECT No.	PETROBEC PROJECT No.	SCALE	SHEET	SHT. SIZE
-----	9655	NTS	1 OF 1	A1
DRAWING NUMBER				REV
PID/ PEP/21-22/E-134/1				01