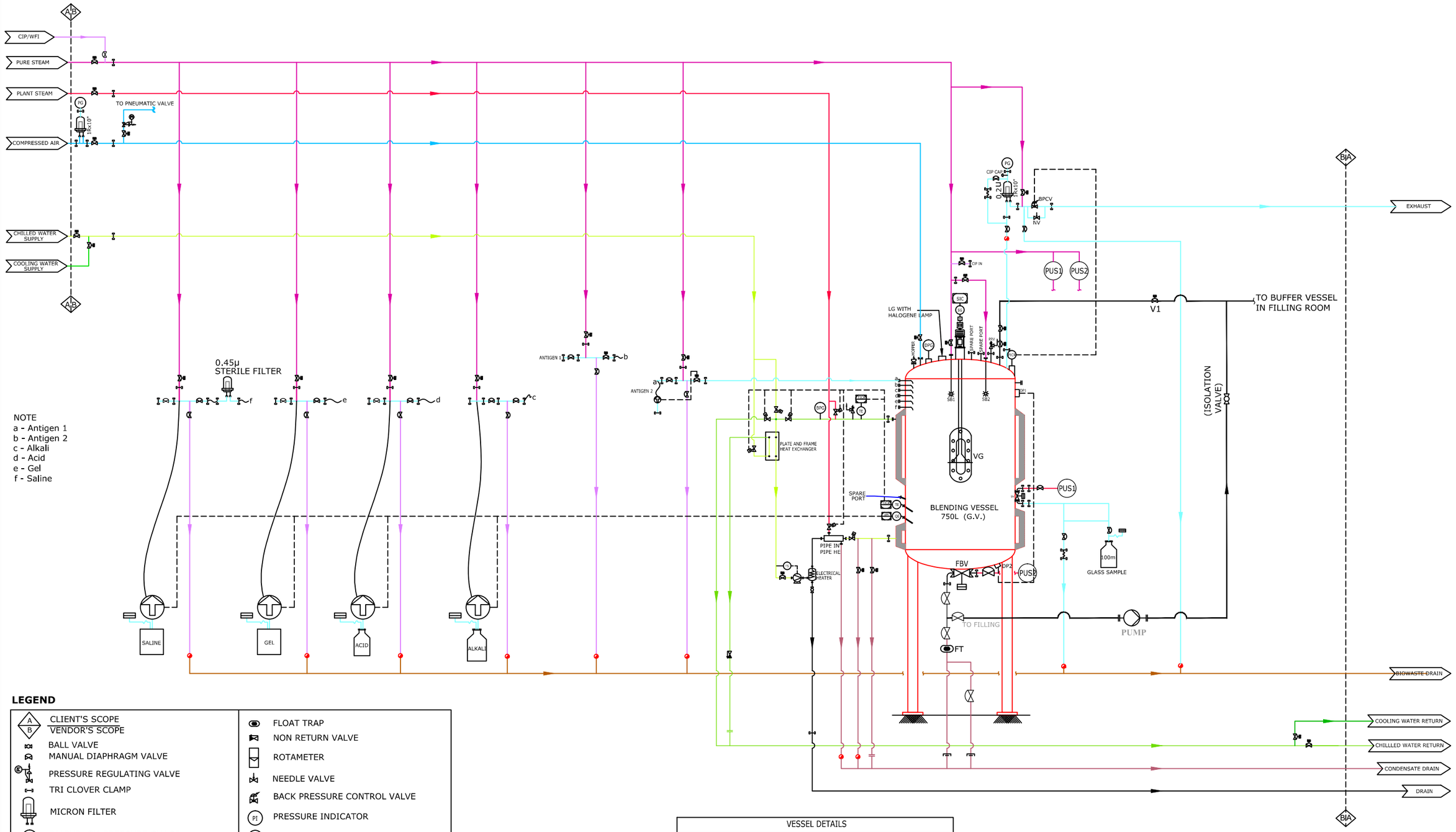

NOTE
a - Antigen 1
b - Antigen 2
c - Alkali
d - Acid
e - Gel
f - Saline

LEGEND

CLIENT'S SCOPE / VENDOR'S SCOPE	FLOAT TRAP
BALL VALVE	NON RETURN VALVE
MANUAL DIAPHRAGM VALVE	ROTAMETER
PRESSURE REGULATING VALVE	NEEDLE VALVE
TRI CLOVER CLAMP	BACK PRESSURE CONTROL VALVE
MICRON FILTER	PRESSURE INDICATOR
DIAPHRAGM PRESSURE GUAGE	FLOW SWITCH
STEAM TRAP	PUS TO FBV
ANGLE SEAT VALVE	PUS TO SV
PNEUMATIC DIAPHRAGM VALVE	CIRCULATION PUMP
TEMP. INDICATOR CONTROLLER RECORDER	----------
TEMP. ELEMENT	DP DIFFERENTIAL PRESSURE SENSOR PORT
PERISTALTIC PUMP	LG LIGHT GLASS
FLEXIBLE HOSE	VG VIEW GLASS
PNEUMATIC FLUSH BOTTOM VALVE	SB SPRAY BALL
PNEUMATIC SAMPLING VALVE	BUTTERFLY VALVE
BOURDON PRESSURE GUAGE	BACK PRESSURE CONTROL VALVE
PRESSURE RELIEF VALVE	

CHWR SUPPLY
CHWR RETURN
COOLING WATER SUPPLY
COOLING WATER RETURN
COMPRESSED AIR
PURE STEAM
PLANT STEAM
CIP
EXHAUST GAS
BIOWASTE DRAIN
DRAIN
CONDENSATE DRAIN

VESSEL DETAILS	
G.V	750L
MAX. W.V	500L
QTY	1 No.
H/D RATIO	1.2:1.0
MOC PRODUCT CONTACT	SS316L
MOC PRODUCT NON-CONTACT	SS304
JACKET	HOLLOW TYPE
INSULATION	MINERAL WOOL
BAFFLE	1 No.
AGITATOR	TOP MOUNTED VIBRO MIXER
LEG	3 NOS

NOTE : THIS P&ID IS ONLY FOR INFORMATION. ACTUAL P&ID HAVE TO BE PROVIDED BY THE VENDOR

Rev.	Date	Changed	Checked	Kind of revision	No. Of Prints	Date	Issued To

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Project:
HLL LIFECARE LIMITED.
PASTEUR INSTITUTE OF INDIA, COONOOR

Project No.: 110831
Location COONOOR

nne pharmaplan
NNE Pharmaplan India Limited
#12, Achiah Shetty Layout,
Bangalore - 560 080., INDIA.

Description:
P & ID FOR 750L (G.V) BLENDING VESSEL FORMULATION BLOCK

	Date	Name
Drawn	04.02.2013	SAPL
Checked	04.02.2013	DIVH
Approved	04.02.2013	NVNG
Scale- NTS	Units : mm	Size : A3

Drawing no: NPI/110831/EQP(PID)/F1-BLV-01
Rev. 00

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