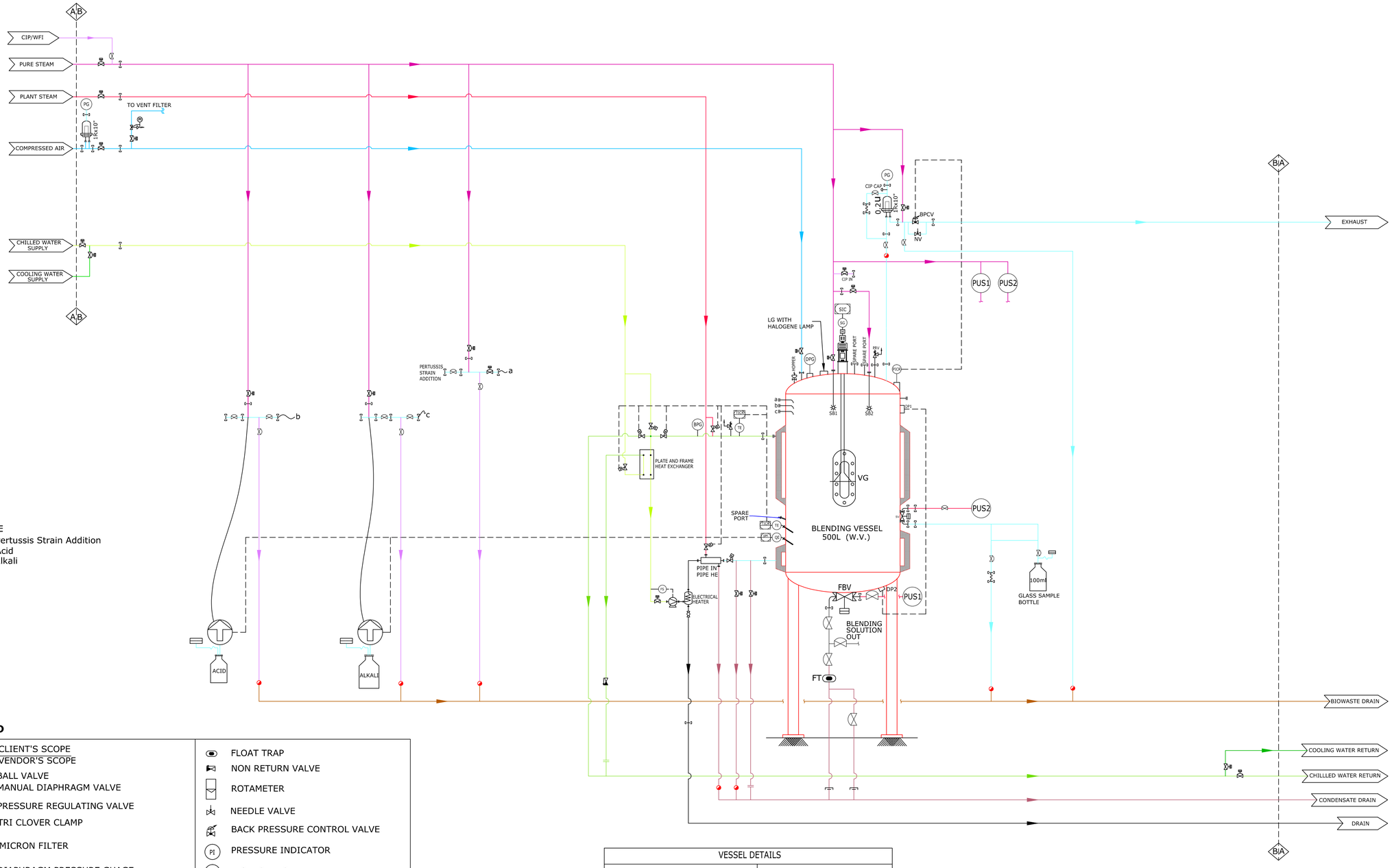

NOTE
a - Pertussis Strain Addition
b - Acid
c - Alkali

LEGEND

A / B — 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	PI — PRESSURE INDICATOR
DPG — DIAPHRAGM PRESSURE GUAGE	FS — FLOW SWITCH
STEAM TRAP	PUS1 — PUS TO FBV
ANGLE SEAT VALVE	PUS2 — PUS TO SV
PNEUMATIC DIAPHRAGM VALVE	CIRCULATION PUMP
TICR — TEMP. INDICATOR CONTROLLER RECORDER	----------
TE — 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 BALL
BPG — 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
NITROGEN 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 PRDOUCT CONTACT	SS316L
MOC PRDOUCT 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

File name :
Originated From Drg. No : NPI/110831/...../...../.....-Rev 00 [Option -00] Dt. 00.00.00

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
PERTUSSIS 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)/B1/P1-BLV-01
Rev. 00

THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND NOT FOR PUBLICATION. BEING THE PROPERTY OF NNE PHARMAPLAN INDIA LIMITED, THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THERE OF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT AUTHORISATION IN WRITING FROM NNE PHARMAPLAN INDIA LIMITED.