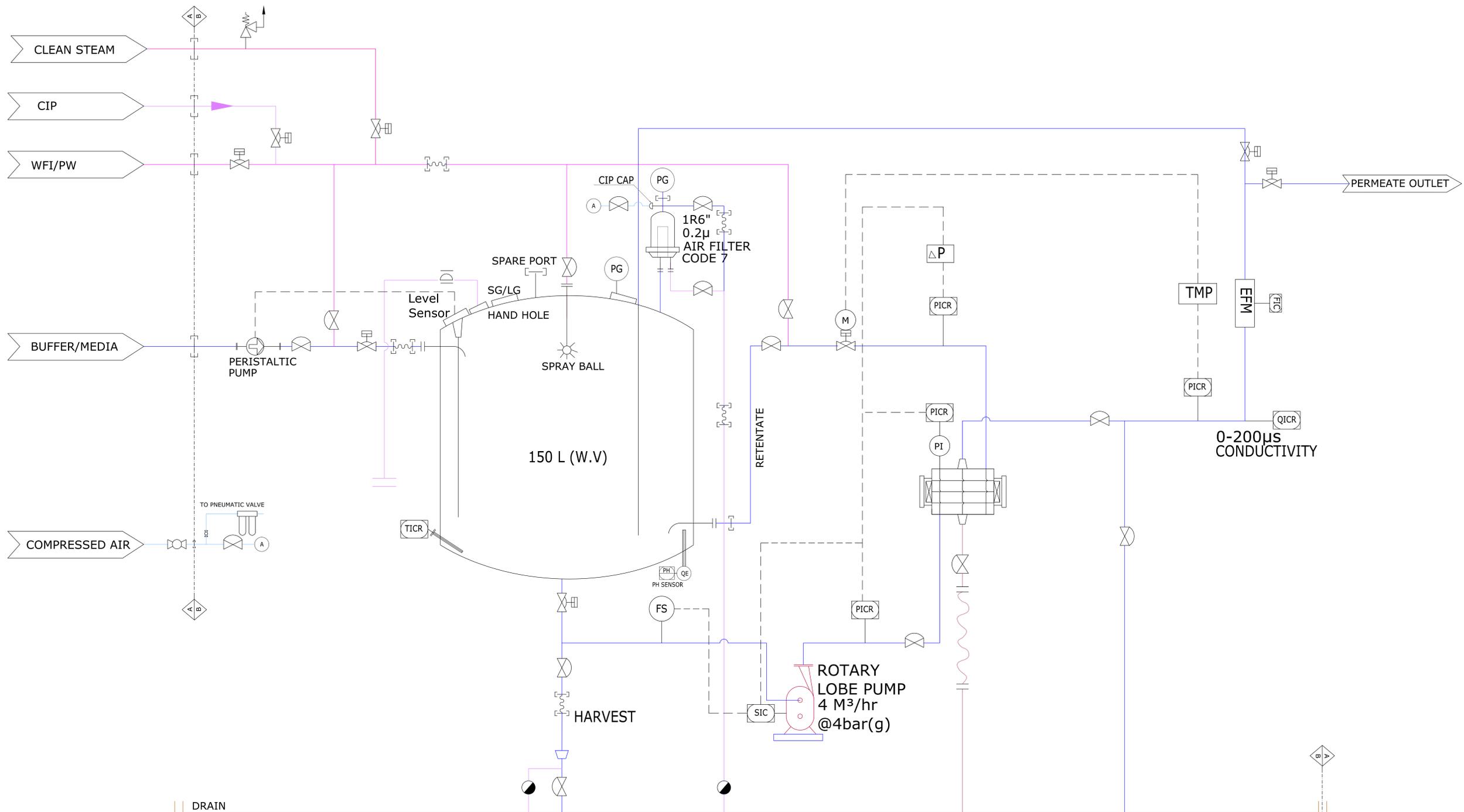


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### LEGEND

	CLIENT'S SCOPE		STERILE PRESSURE RELIEF VALVE
	VENDOR'S SCOPE		AIR INLET
	BALL VALVE		MOTORISED DIAPHRAGM CONTROL VALVE
	MANUAL DIAPHRAGM VALVE		NON RETURN VALVE
	PRESSURE REGULATING VALVE		ROTAMETER
	TRI CLOVER CLAMP		NEEDLE VALVE
	MICRON FILTER		CONDUCTIVITY SENSOR
	DIAPHRAGM PRESSURE GAUGE		BACK PRESSURE CONTROL VALVE
	STEAM TRAP		PRESSURE INDICATOR
	ANGLE SEAT VALVE		FLOW SWITCH
	PNEUMATIC DIAPHRAGM VALVE		CIRCULATION PUMP
	TEMP. INDICATOR CONTROLLER RECORDER		DIFFERENTIAL PRESSURE SENSOR PORT
	TEMP. ELEMENT		SIGHT GLASS
	PERISTALTIC PUMP		SPRAY BALL
	FLEXIBLE HOSE		BUTTERFLY BALL
	PNEUMATIC FLUSH BOTTOM VALVE		BACK PRESSURE CONTROL VALVE
	PNEUMATIC SAMPLING VALVE		AIR FLOW REGULATOR WITH LUBRICATOR
	BOURDON PRESSURE GAUGE		RUPTURE DISC
	PRESSURE RELIEF VALVE		ELECTROMAGNETIC FLOW METER

	CHWR SUPPLY
	CHWR RETURN
	COOLING WATER SUPPLY
	COOLING WATER RETURN
	COMPRESSED AIR
	WATER FOR INJECTION
	PLANT STEAM
	CIP
	EXHAUST GAS
	NITROGEN
	BIOWASTE DRAIN
	DRAIN
	CONDENSATE DRAIN

<b>WORKING VOLUME</b>	<b>400L</b>
<b>GROSS VOLUME</b>	<b>500L</b>
<b>QUANTITY</b>	<b>1 No</b>
<b>H:D RATIO</b>	<b>1.5:1</b>
<b>MOC- PRODUCT CONTACT</b>	<b>SS316L</b>
<b>MOC- PRODUCT NON CONTACT</b>	<b>SS304</b>
<b>JACKET</b>	<b>HOLLOW TYPE</b>
<b>INSULATION</b>	<b>MINERAL WOOL</b>
<b>LEGS</b>	<b>3 NOS</b>

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

01	2013-01-24	NHSG	NVNG	HLL comments incorporated, received during the workshop dated 22nd and 23rd January 2013	--	--	--
Rev.	Date	Changed	Checked	Kind of revision	No. Of Prints	Date	Issued To
Client:				Project No.: 110831		NNE Pharmaplan India Limited	
Site Address : REVIVAL OF DPT VACCINE MANUFACTURING FACILITY, PII, COONOOR				Location : COONOOR		#14, Achiah Shetty Layout, Bangalore - 560 080., INDIA.	
Description:				Date		Name	
ULTRAFILTRATION SYSTEM (150L WORKING VOLUME) TETANUS BLOCK				23.11.2012		SAPL	
				23.11.2012		NHSG	
				23.11.2012		NVNG	
				Scale- NTS		Units : mm	
Drawing no: NPI/110831/EQP(PID)/B2-UF501				Date		Rev.	
				23.11.2012		01	