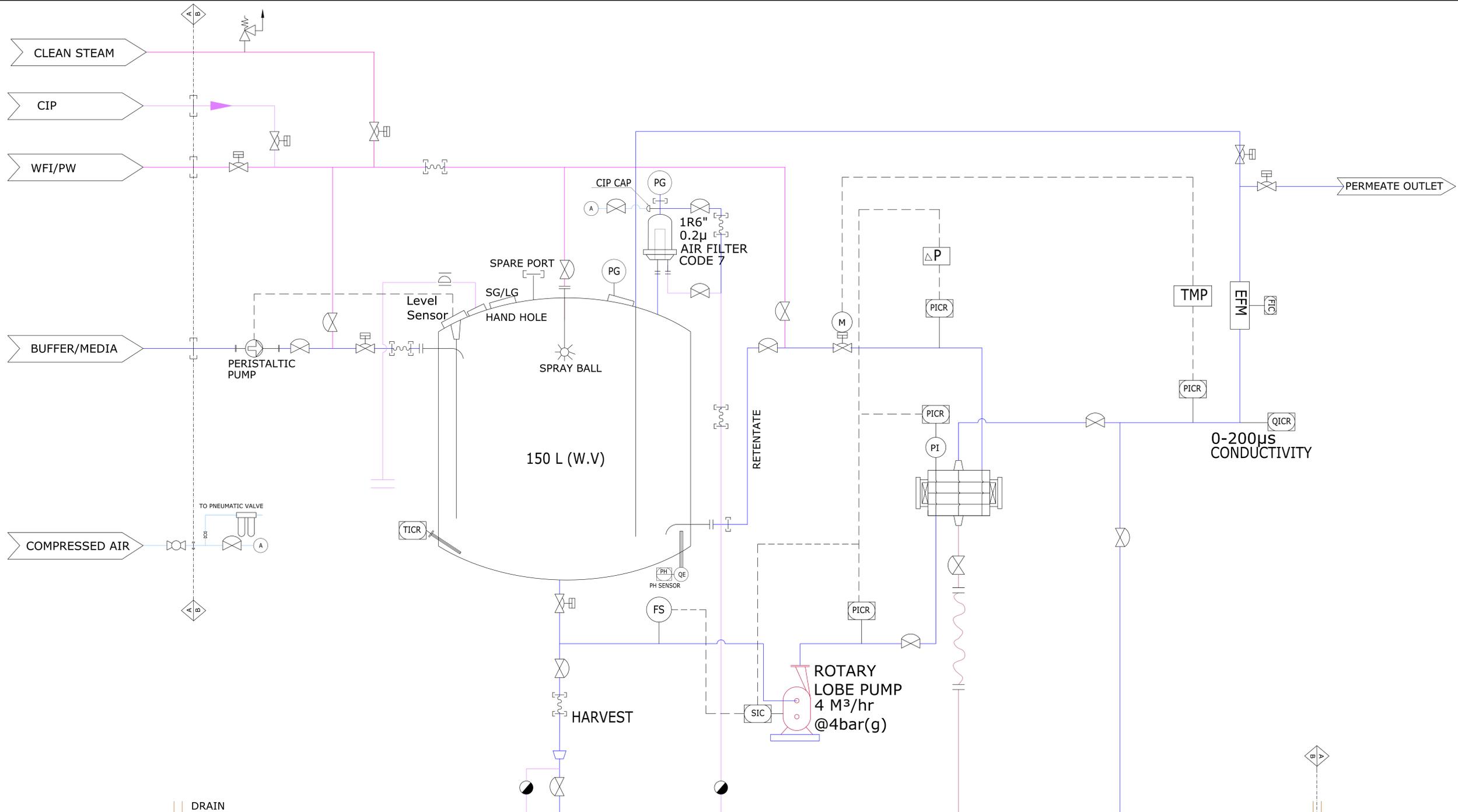


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### LEGEND

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

	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) DIPHTHERIA BLOCK				23.11.2012		SAPL	
				23.11.2012		NHSG	
				23.11.2012		NVNG	
				Scale- NTS		Units : mm	
Drawing no: NPI/110831/EQP(PID)/B1(D)-UFS01				Rev.		01	