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LEGEND

	CLIENT'S SCOPE
	VENDOR'S SCOPE
	BALL VALVE
	MANUAL DIAPHRAGM VALVE
	PRESSURE REGULATING VALVE
	TRI CLOVER CLAMP
	MICRON FILTER
	DIAPHRAGM PRESSURE GAUGE
	STEAM TRAP
	ANGLE SEAT VALVE
	PNEUMATIC DIAPHRAGM VALVE
	TEMP. INDICATOR CONTROLLER RECORDER
	TEMP. ELEMENT
	PERISTALTIC PUMP
	FLEXIBLE HOSE
	PNEUMATIC FLUSH BOTTOM VALVE
	PNEUMATIC SAMPLING VALVE
	BOURDON PRESSURE GAUGE
	PRESSURE RELIEF VALVE

	MOTORISED DIAPHRAGM CONTROL VALVE
	NON RETURN VALVE
	ROTAMETER
	NEEDLE VALVE
	CONDUCTIVITY SENSOR
	BACK PRESSURE CONTROL VALVE
	PRESSURE INDICATOR
	FLOW SWITCH
	CIRCULATION PUMP
	DIFFERENTIAL PRESSURE SENSOR PORT
	LIGHT GLASS
	SIGHT GLASS
	SPRAY BALL
	BUTTERFLY BALL
	BACK PRESSURE CONTROL VALVE
	AIR FLOW REGULATOR WITH LUBRICATOR
	RUPTURE DISC
	ELECTROMAGNETIC FLOW METER

	STERILE PRESSURE RELIEF VALVE
	AIR INLET

	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

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

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 pharma plan [®]	
Site Address : REVIVAL OF DPT VACCINE MANUFACTURING FACILITY, PII, COONOOR				Location COONOOR		NNE Pharma plan India Limited #14, Achiah Shetty Layout, Bangalore - 560 080., INDIA.	
Description:					Date	Name	
ULTRAFILTRATION SYSTEM (150L WORKING VOLUME) TETANUS BLOCK					Drawn	23.11.2012	SAPL
					Checked	23.11.2012	NHSG
					Approved	23.11.2012	NVNG
					Scale- NTS	Units : mm	Size : A3
Drawing no: NPI/110831/EQP(PID)/B2-UFS01					Rev.		
					01		