



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
	RELIEF VALVE

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

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

WORKING VOLUME	
GROSS VOLUME	400L
QUANTITY	500L
HID RATIO	
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	WWSG	HLL comments incorporated, received during the workshop dated 22nd and 23rd January 2013	Rev.	Date	Changed	Checked	Kind of revision	Project No.: 110831	Location	COONOR	Site Address : REVIVAL OF DPT VACCINE MANUFACTURING FACILITY, PIT, COONOR	nne pharmaplan NNE Pharmaplan India Limited #14, Achah Shetty Layout, Bangalore - 560 080., INDIA.	Drawn 23.11.2012 SAPL	Checked 23.11.2012 WWSG	Approved 23.11.2012 WWSG	Scale: NTS	Units: mm	Size: A3	Drawing no: NNP/110831/EGP/PID/01(D)-HWS01	Rev. 01
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