



LEGEND

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

	AIR INLET
	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	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

Rev. No.	01	Date	2013-01-24	By	NWSG	Checked	HLL	Kind of revision	HLL comments incorporated, received during the workshop dated 22nd and 23rd January 2013
Client:	MICO PHARMAPLAN INDIA LIMITED								
Site Address:	#14, Achah Shetty Layout, Bangalore - 560 080, INDIA.								
Project No.:	110831								
Location:	COONDOOR								
Description:	MICROFILTRATION SYSTEM & HEAT INACTIVATION (500L GROSS VOLUME) PERTUSSIS BLOCK								

Drawn	23.11.2012	Name	SAPL
Checked	23.11.2012	Name	NWSG
Approved	23.11.2012	Name	NWSG
Scale	N/S	Scale	N/S
Sheet No.	01	Total No. of Sheets	01
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