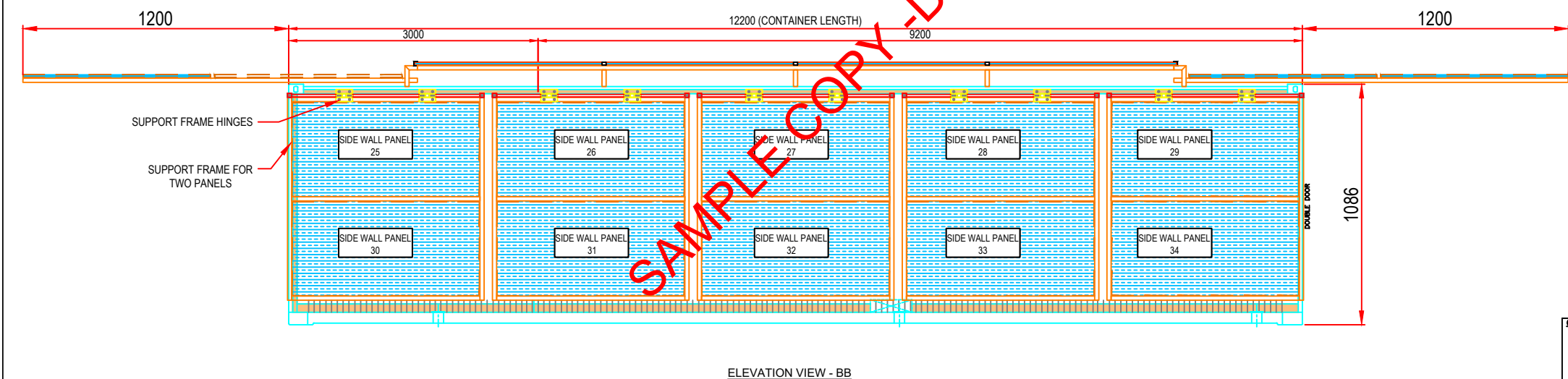
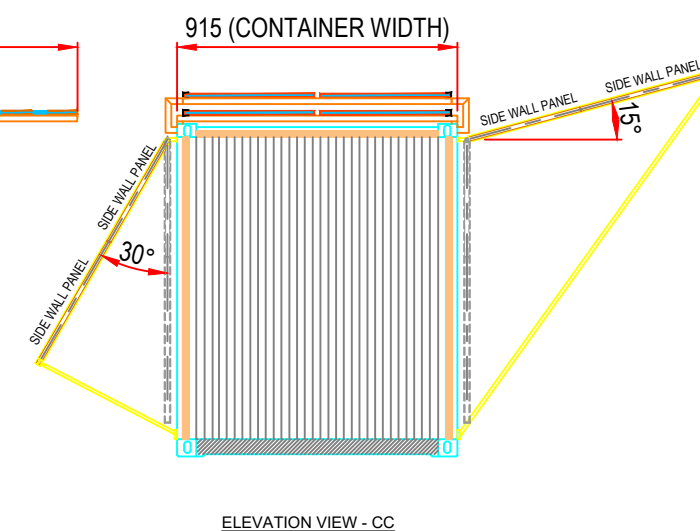
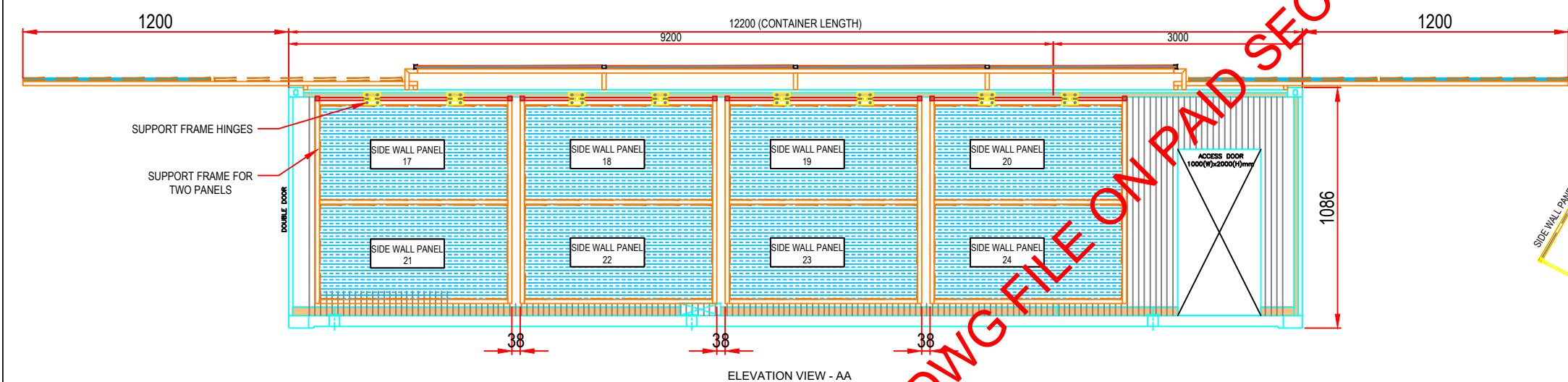
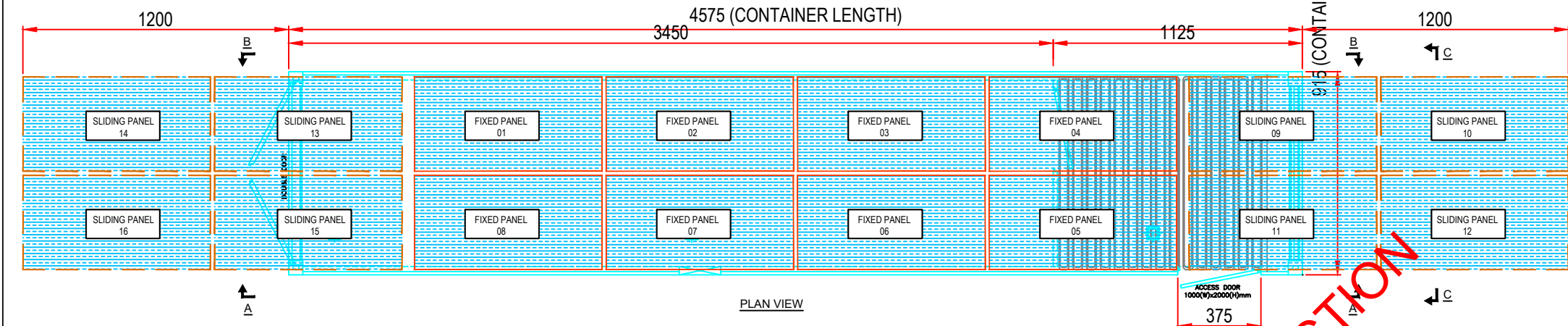


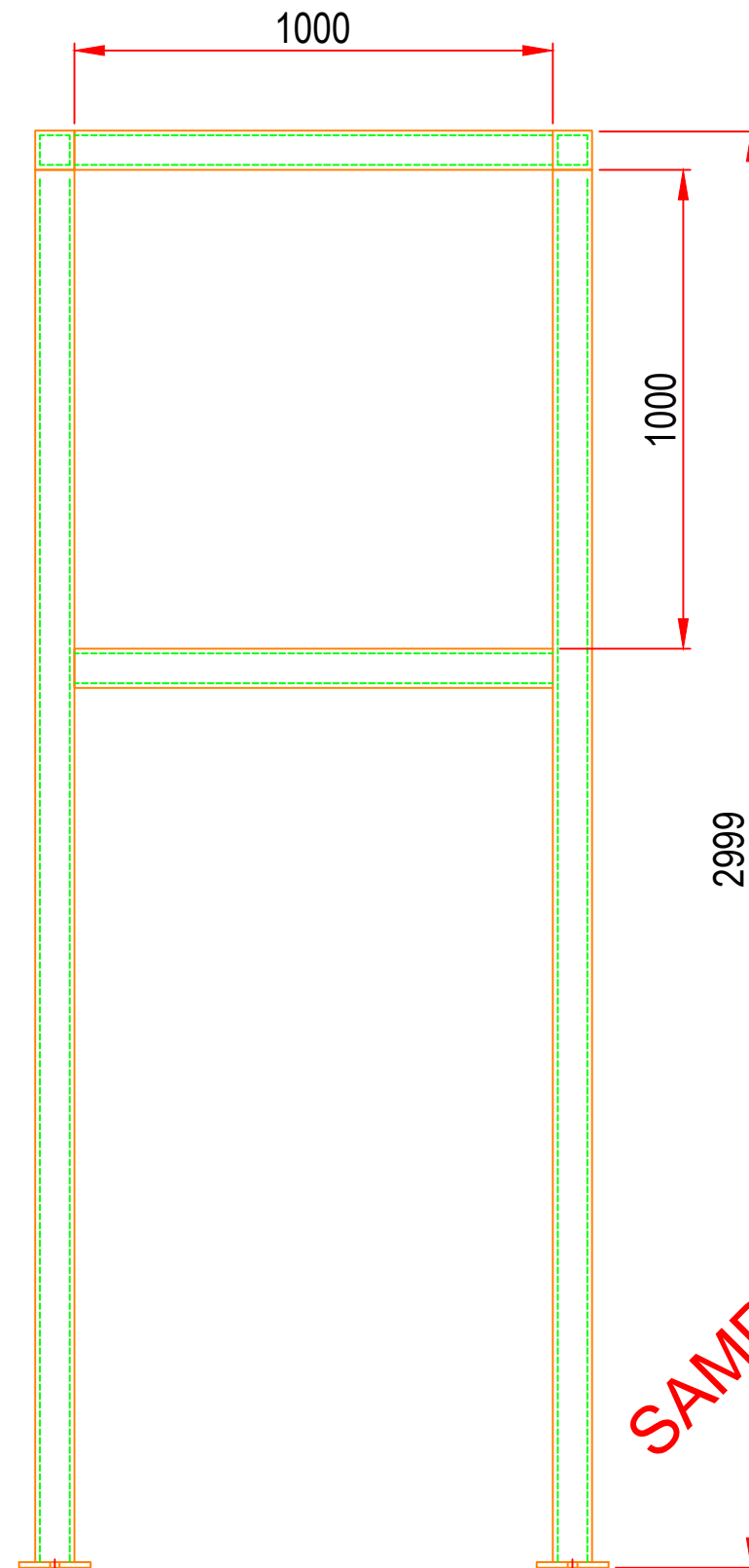


3. ALL TERMINATION POINT CONNECTIONS, PIPING OUTSIDE THE CONTAINER IS IN CLIENT SCOPE
2. CELAR SCOPE IS LIMITED TILL INSIDE THE CONTAINER
1. ALL DIMENSIONS ARE IN MM
NOTES

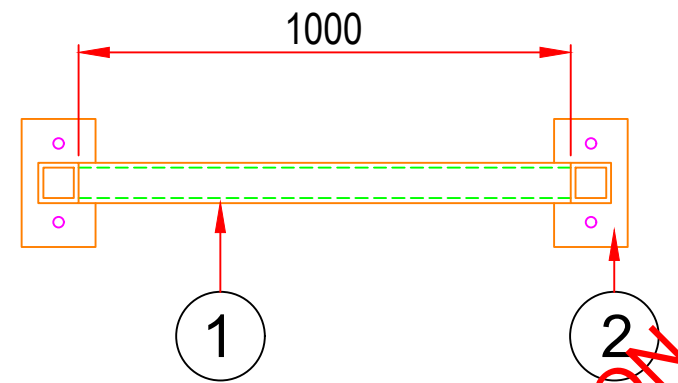
	REFERENCE DRAWINGS
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MASTER DRAWING REVISION

						P.O.Box 30731-Sharjah Sajjah,Emirates Industrial City United Arab Emirates Tel : +971 6 5369880, Fax : +971 6 5369888 www.celarwater.com							
JOB No.CWE/ROP/2023/3254						REV.		SHEET		SCALE		SIGNATURE	
						0		0		NTS		A	
G 11-07-2023 WP ISSUED FOR APPROVAL													
REV		DATE		DRAWN BY		TEAM LEAD		DESCRIPTION		BL NO		PROJ. ENG. SIGNATURE	
						CHECKED						APPROVAL	
AREA : UAE												CAD DRAWING SCALE : 0 1 2 3 4 5 6	
PROJECT : CONTAINERIZED SWRO PLANT												MINISTRY OF PRESIDENTIAL AFFAIR	
DWG.TYPE : EQUIPMENT LAYOUT													
DESCRIPTION : 10,000 USGPD													



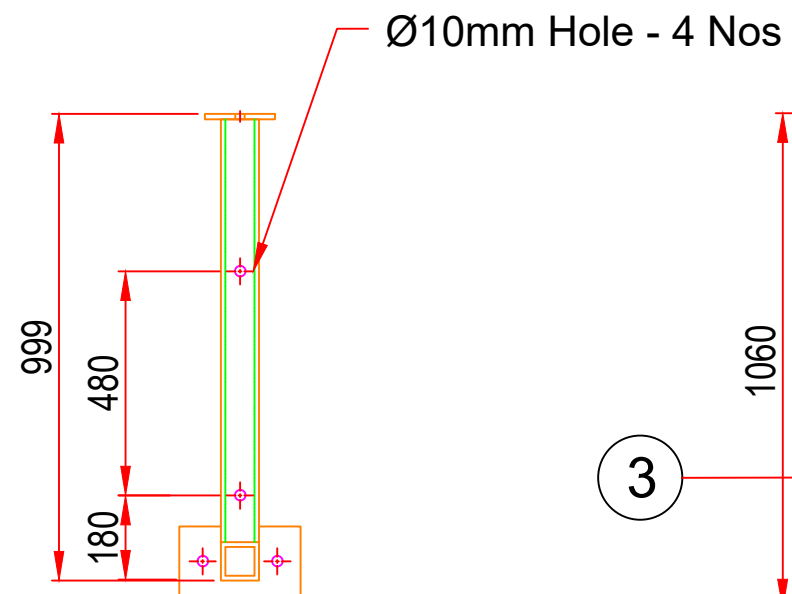
Skid for Rotameters
Skid No-6



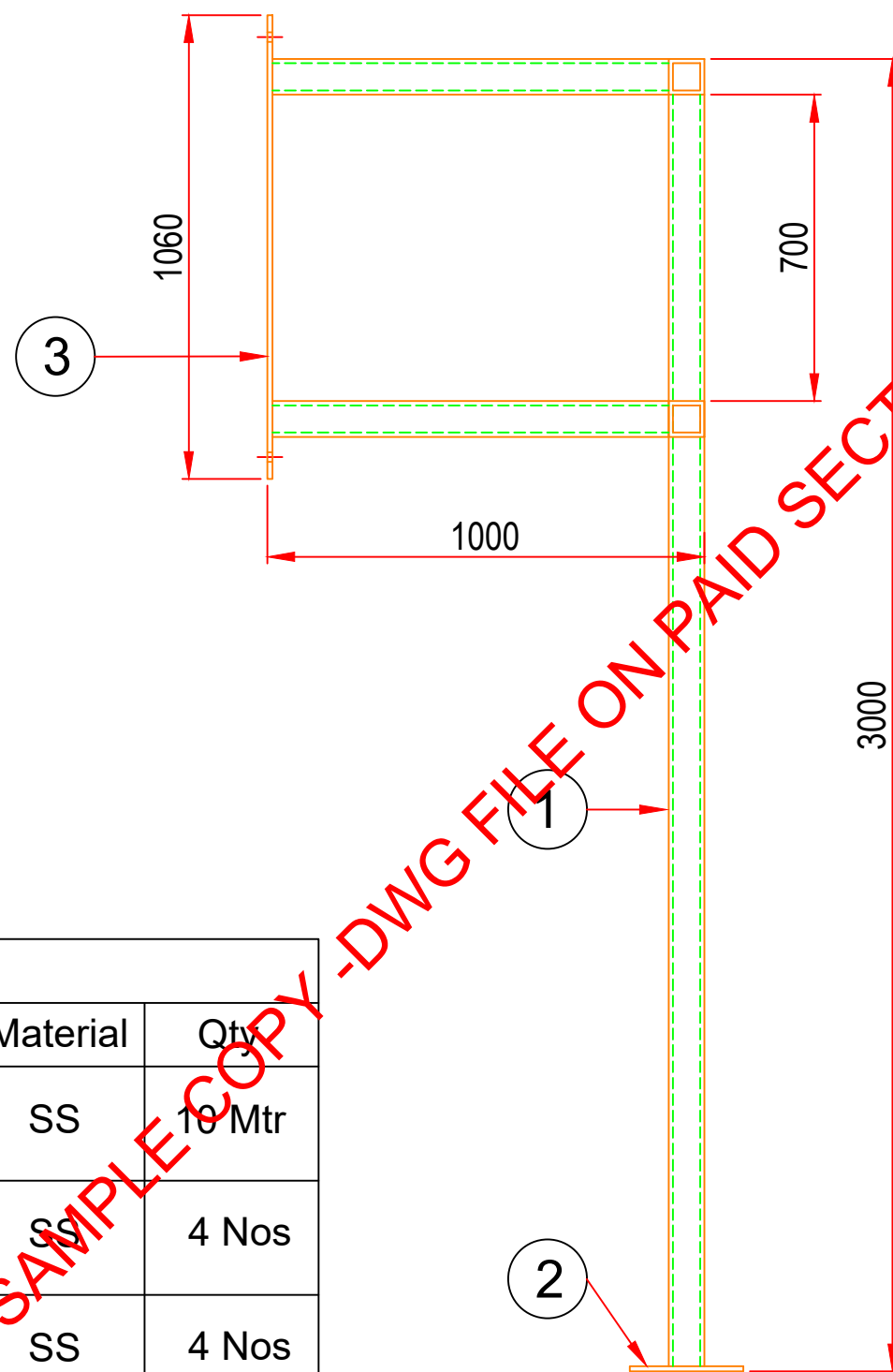
PLAN VIEW

Bill of Material			
Sl No.	Description	Material	Qty
01	Box Section (40x40x3mm)	SS	10 Mtr
02	Base Plate (130x75x6mm)	SS	4 Nos

Qty : 02 Nos



PLAN VIEW

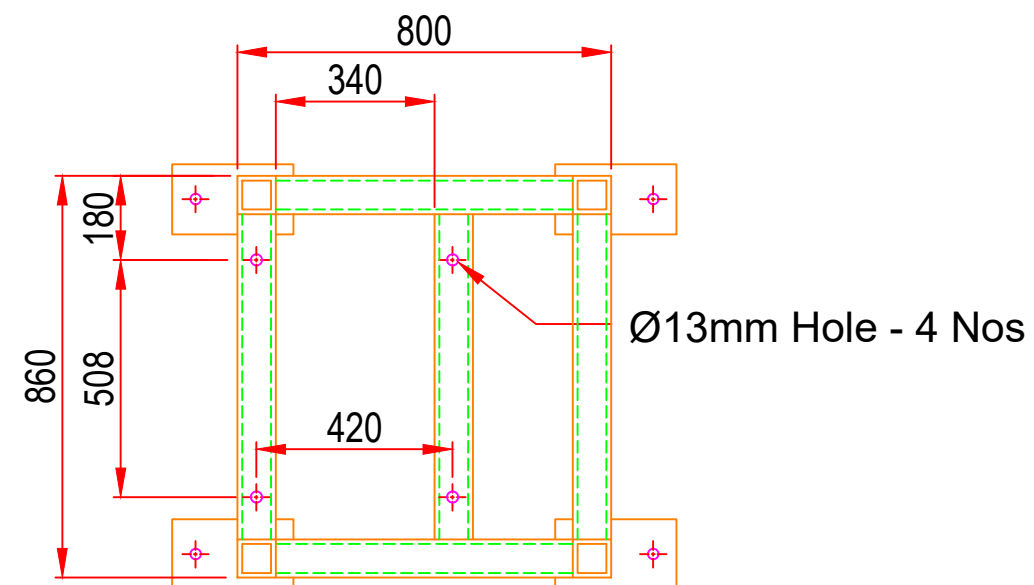


ELEVATION VIEW

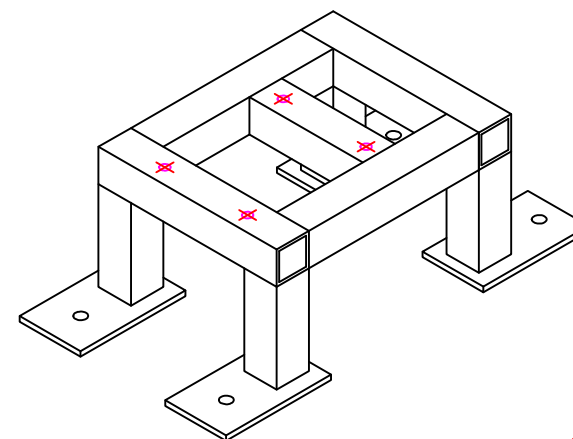
Bill of Material			
Sl No.	Description	Material	Qty
01	Box Section (40x40x3mm)	SS	10 Mtr
02	Base Plate (130x75x6mm)	SS	4 Nos
03	Base Plate (530x75x6mm)	SS	4 Nos

Skid for Pressure Vessel
Skid No-5

Qty : 04 Nos

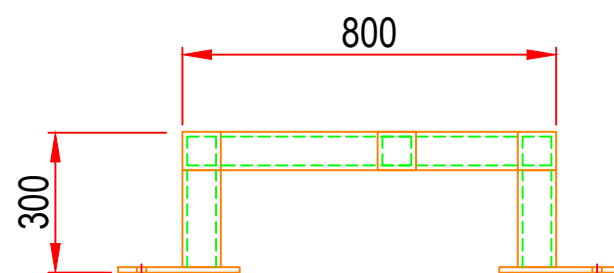


Skid for HP Pump-5.1
Skid No-4



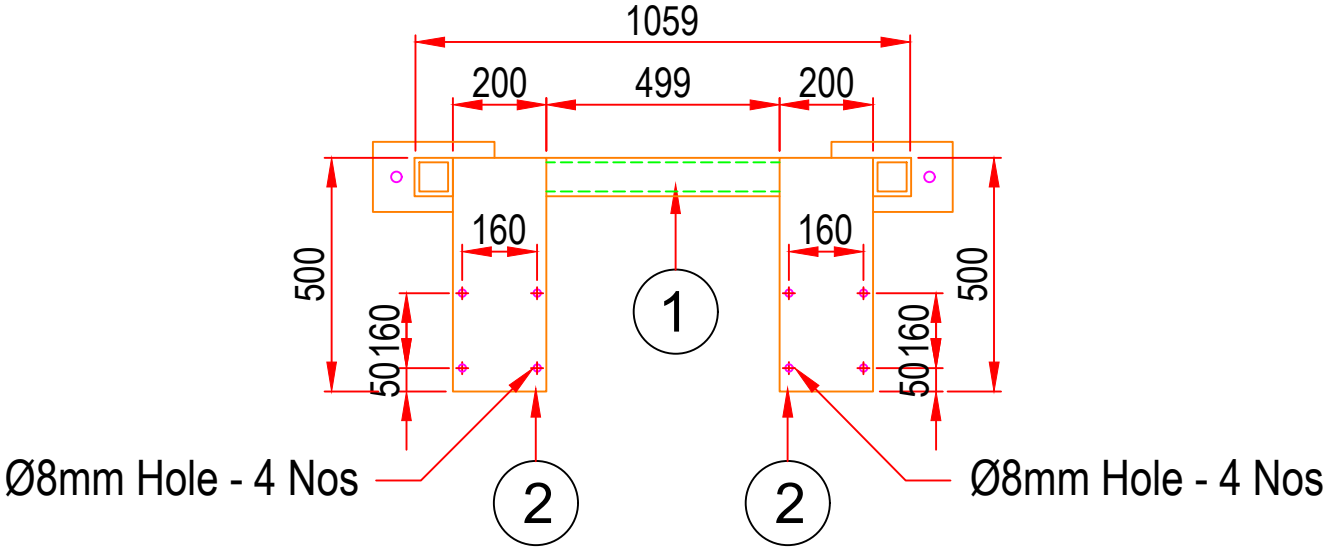
Isometric View

Qty : 02 Nos



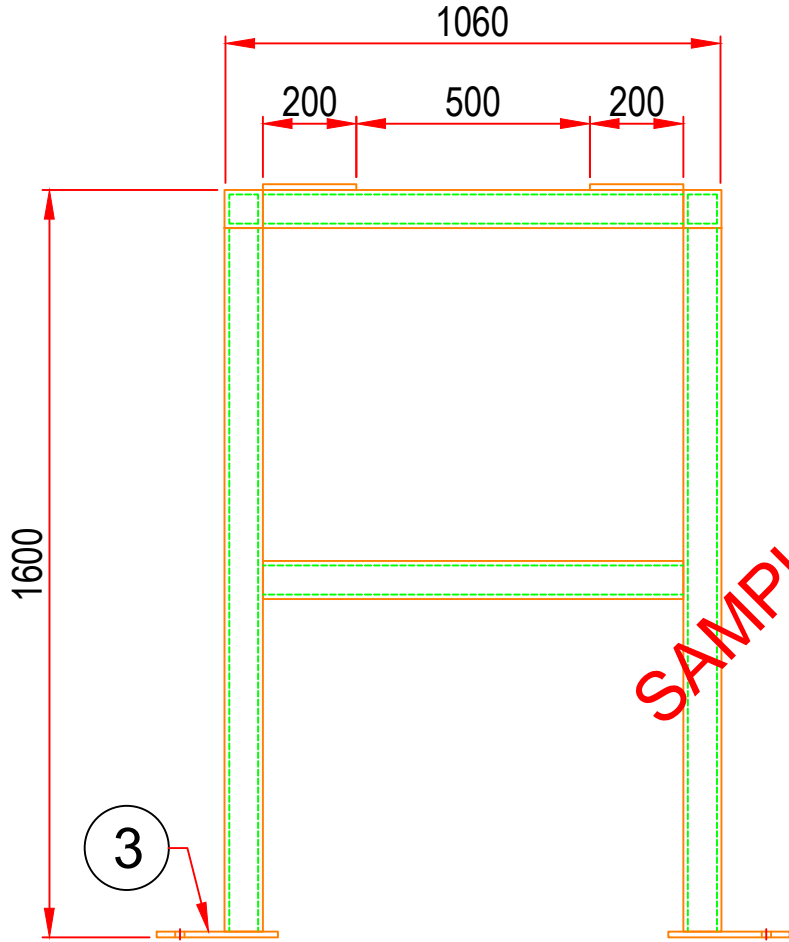
ELEVATION VIEW

Bill of Material			
Sl No.	Description	Material	Qty
01	Box Section (40x40x3mm)	SS	6 Mtr
02	Base Plate (130x75x6mm)	SS	4 Nos



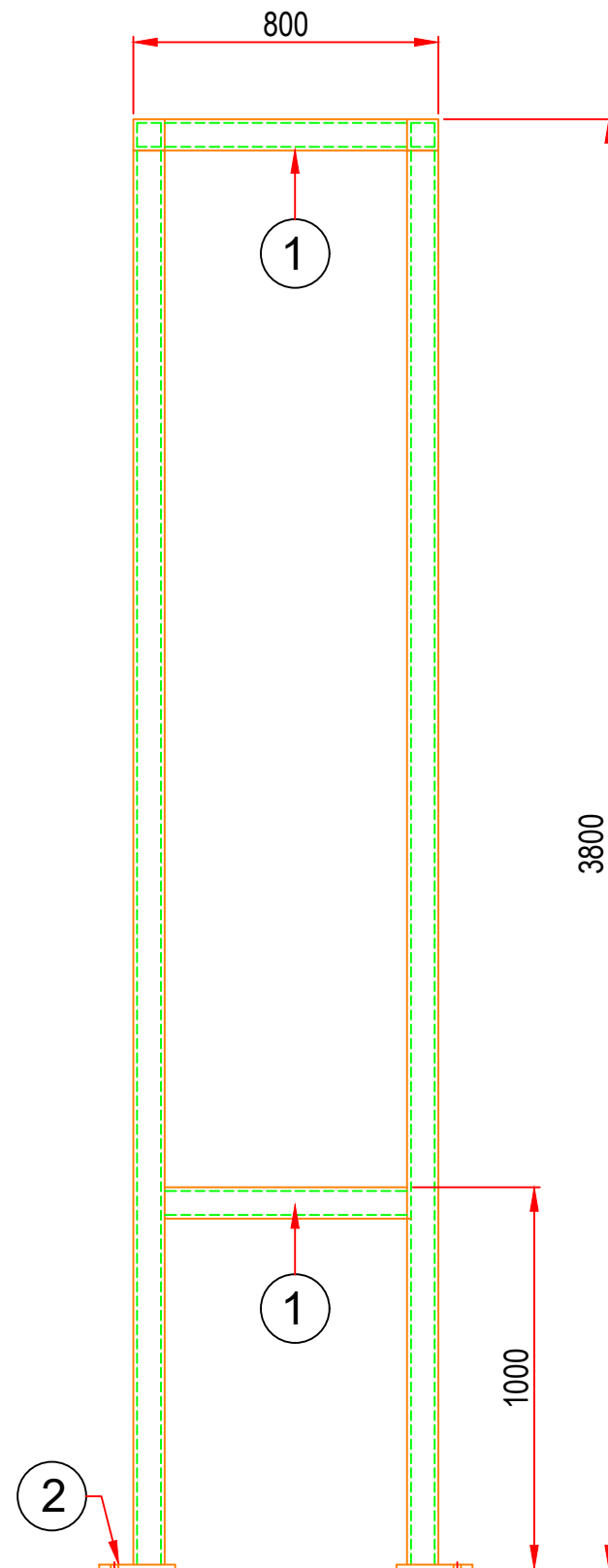
Bill of Material			
SI No.	Description	Material	Qty
01	Box Section (40x40x3mm)	SS	6 Mtr
02	Base Plate (250x100x6mm)	SS	4 Nos
03	Base Plate (130x75x6mm)	SS	4 Nos

Skid for Cartridge Filters
Skid No-3

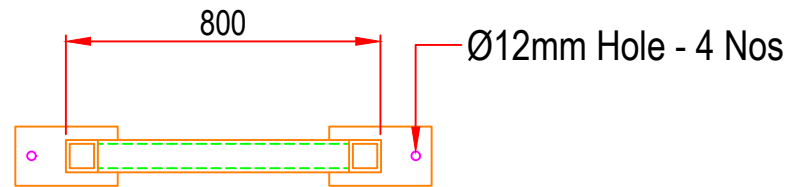


ELEVATION VIEW

Qty : 02 Nos



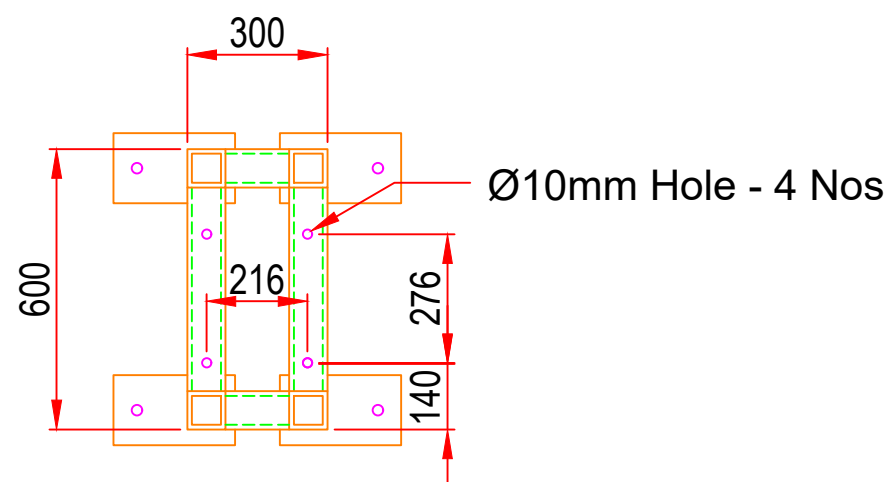
ELEVATION VIEW



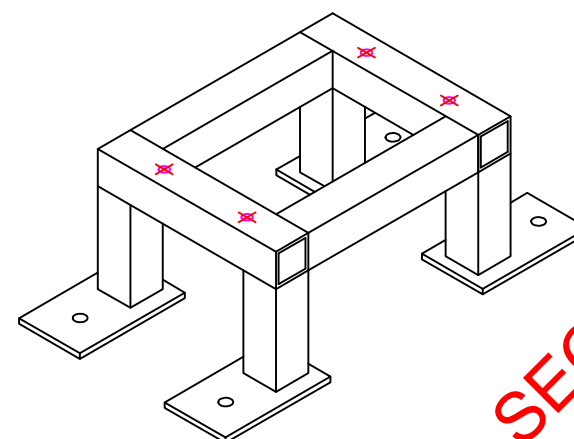
Skid for MMF Frontal Piping
Skid No-2

Bill of Material			
SI No.	Description	Material	Qty
01	Box Section (40x40x3mm)	SS	10 Mtr
02	Base Plate (130x75x6mm)	SS	4 Nos

Qty : 02 Nos

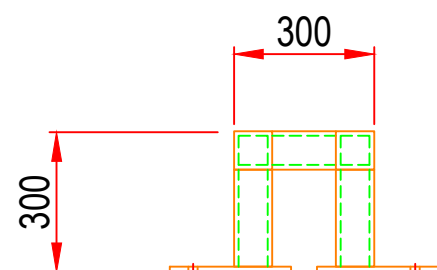


Skid for Feed Pump
Skid No-1



Isometric View

Qty : 02 Nos



ELEVATION VIEW

Bill of Material			
SI No	Description	Material	Qty
01	Box Section (40x40x3mm)	SS	1.5 Mtr
02	Base Plate (130x75x6mm)	SS	4 Nos

MECHANICAL SYMBOLS			INSTRUMENT SYMBOLS		GENERAL
PIPE LINE/PIPING	GENERAL	EQUIPMENT			
MAIN PROCESS LINE (ARROW INDICATES DIRECTION OF FLUID FLOW) CONCENTRIC REDUCER ECCENTRIC REDUCER, FLUSH TOP ECCENTRIC REDUCER, FLUSH BOTTOM CLASSX CLASSY INDICATION OF CHANGE OF PIPING CLASS CLASS X CLASS Y	BELLOW (FLANGED) FLEXIBLE HOSE (FLANGED) AIR VENT DRAIN LINE TIE-IN OTHERS PIPELINE CONTRACTOR SCOPE DEFINITION	PUMP AIR BLOWER DOSING PUMP PRESSURE VESSEL CARTIDGE FILTER MULTIMEDIA FILTER STIRRER (MIXER) ERT (PRESSURE BOOSTER) WATER HEATER CONTROL PANEL VARIABLE FREQUENCY DRIVE	ELECTROMAGNETIC FLOW METER ROTAMETER PRESSURE GAUGE PRESSURE TRANSMITTER LEVEL SWITCH LOW LEVEL ALARM LOW LEVEL TRANSMITTER LEVEL SWITCH HIGH DIFFERENTIAL PRESSURE SWITCH DIFFERENTIAL PRESSURE TRANSMITTER HIGH PRESSURE SWITCH LOW PRESSURE SWITCH ELECTRICAL CABLE SOFT LINK/SYSTEM INTERNAL GENERATED SIGNAL INTERLOCK LOGIC FUNCTION LOCAL MOUNTED INSTRUMENT (BASIC SYMBOL) XX = FIRST TWO DIGITS OF UNIT NUMBER Y = INSTRUMENT FUNCTION CODE ZZZ = SERIAL NUMBER CONTROL ROOM MOUNTED INSTRUMENT LOCAL PANEL MOUNTED INSTRUMENT	CONTINUATION ARROWS : 1) LEFT SIDE OF SHEET: FROM EQUIPMENT ON PREVIOUS SHEET SHEET nr. TO EQUIPMENT ON PREVIOUS SHEET SHEET nr. 2) RIGHT SIDE OF SHEET : TO EQUIPMENT ON NEXT SHEET SHEET nr. FROM EQUIPMENT ON NEXT SHEET SHEET nr. REVISION TRIANGLE PIPING IDENTIFICATION LINE NUMBER 2"- P 15 003-600CS3 PIPING CLASS/MATERIAL LINE SUB-NUMBER FIRST TWO DIGITS OF PROCESS UNIT 200 SERVICE INDICATION NOMINAL PIPE SIZE ABBREVIATION (GENERAL) A/G - ABOVE GROUND B/G - BELOW GROUND CC - CORROSION COUPON CI - CHEMICAL INJECTION CK - CASTELLOC KEYED VALVE D - DRAIN EL - ELEVATION FB - FULL BORE FO - FLUSHING OUT GO - GEAR OPERATED HC - HOSE CONNECTION IH - INSPECTION HOLE LC - LOCKED CLOSED LO - LOCKED OPEN M - MOTOR MH - MAN HOLE MOV - MOTOR OPERATED VALVE NC - NORMALLY CLOSED NNF - NORMALLY NO FLOW NO - NORMALLY OPEN PVV - PRESSURE VACUUM VALVE CP - CONTROL PANEL MMF - MULTI MEDIA FILTER ERT - ENERGY RECOVERY TURBINE RE - REFERENCE ELECTRODE RO - RESTRICTION ORIFICE RV - RELIEF VALVE SC - SAMPLE COLLECTION SCR - SCREWED CONNECTION SP - SET POINT TSO - TIGHT SHUT OFF UC - UTILITY CONNECTION V - VENT CS - CARBON STEEL PE - POLY ETHYLENE PP - POLY PROPYLENE GRE - GLASS REINFORCED EPOXY SS - STAINLESS STEEL DSS - DUPLEX STAINLESS STEEL SDSS- SUPER DUPLEX STAINLESS STEEL CS3 - CARBON STEEL WITH 3MM CORROSION ALLOWANCE CS1D(PE) - CARBON STEEL WITH 1MM CORROSION ALLOWANCE & POLYETHYLENE LINED ABBREVIATIONS (INSTRUMENTS) ESD - EMERGENCY SHUTDOWN H - HIGH HH - HIGH HIGH FM - FLOW METER FE - FLOW ELEMENT FI - FLOW INDICATION FIT - FLOW INDICATION TRANSMITTER TVP - TRUE VAPOUR PRESSURE L - LOW OR - OVERRIDE LL - LOW LOW SR - SPLIT RANGE	
VALVES					
MANUAL BUTTERFLY VALVE MOTORIZED BUTTERFLY VALVE MANUAL BALL VALVE MOTORIZED BALL VALVE MANUAL GLOBE VALVE NEEDLE VALVE SAMPLING VALVE (PVC) CHECK VALVE PRESSURE RELIEF VALVE					

MULTIMEDIA FILTER VALVE OPEN/CLOSE CONDITION

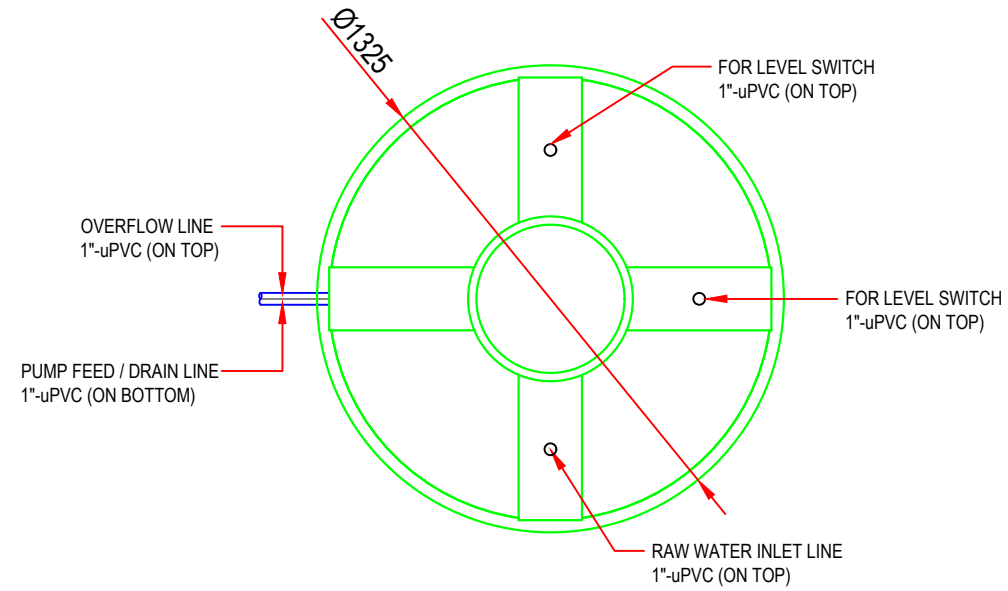
MODE	V-104	V-105	V-106	V-107	V-108
SERVICE MODE	OPEN	CLOSE	CLOSE	CLOSE	OPEN
BACKWASH MODE	CLOSE	OPEN	OPEN	CLOSE	CLOSE
RINSE MODE	OPEN	CLOSE	CLOSE	OPEN	CLOSE

INSTRUMENT & MOTORIZED VALVE SUPPLY VOLTAGE SCHEDULE :

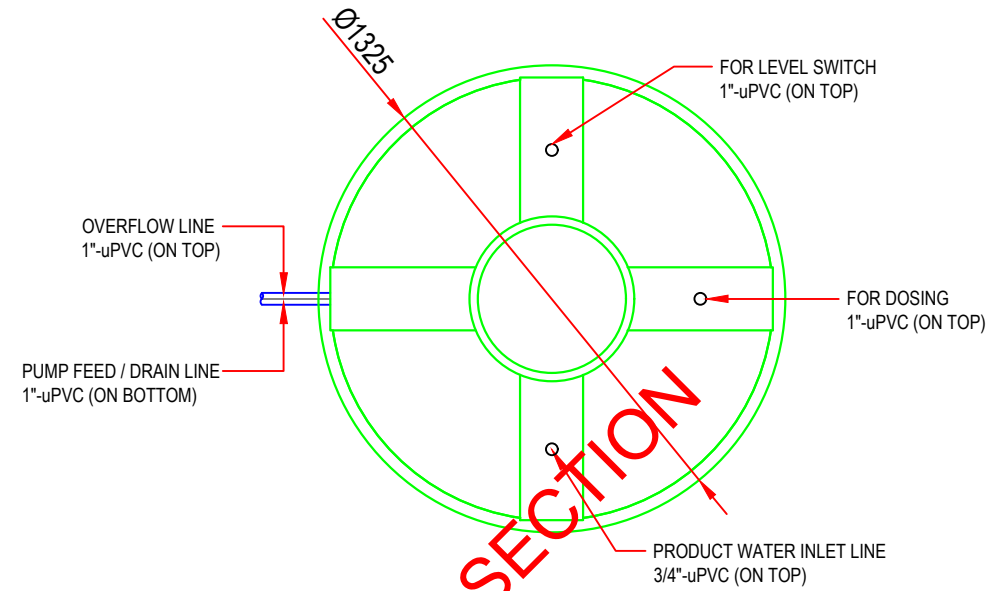
SI No.	INSTRUMENT DETAILS	Qty (Nos)	CONFIGURATION	UNIT VOLTAGE
01	PRESSURE SWITCHES	02	Duty	24 VDC
02	LEVEL SWITCHES	03	Duty	24 VDC
03	INLET VALVES	02	Duty	230 VAC
04	TDS ANALYZER	01	Duty	230 VAC

LOAD SCHEDULE :

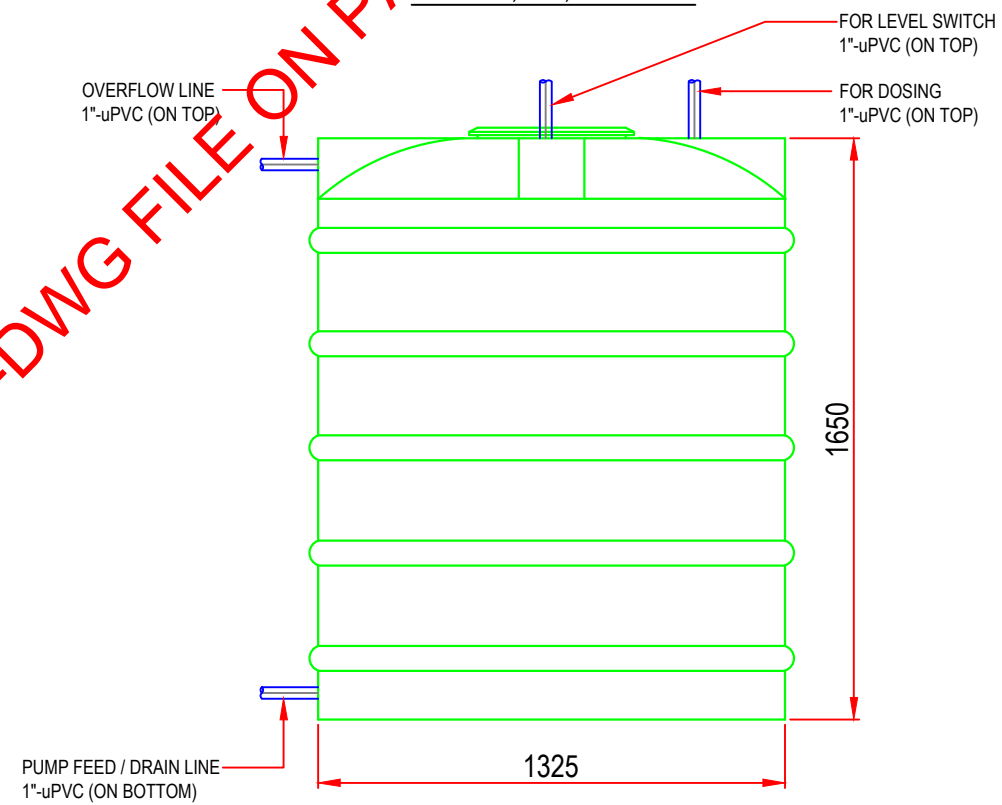
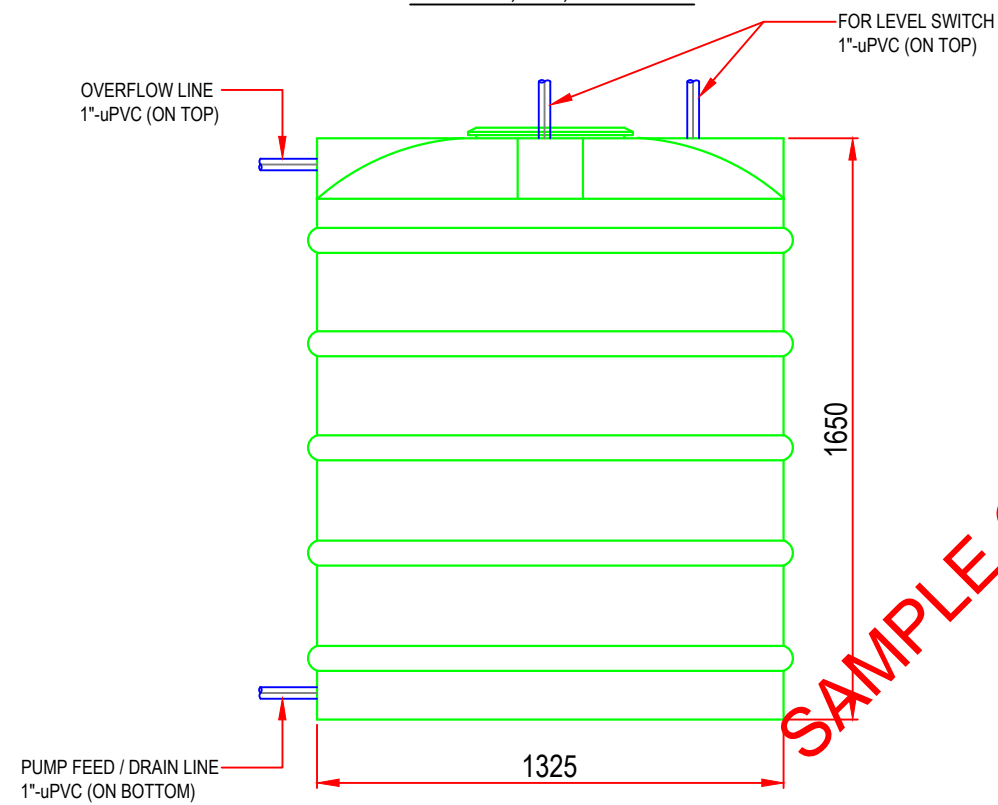
SI No.	EQUIPMENT DETAILS	QTY (Nos)	CONFIGURATION	UNIT LOAD (kW)	TOTAL LOAD (kW)
01	FEED PUMP	01	Duty	0.85	0.85
02	HIGH PRESSURE PUMP	01	Duty	11	11
03	DOSING PUMP	01	Duty	0.20	0.20
Total Connected Load					12 kW/hr (Approx.)



RAW WATER TANK
1325 (Ø)x1650(H)mm
500 USG, PE , VERTICAL



PRODUCT WATER TANK
1325 (Ø)x1650(H)mm
500 USG, PE , VERTICAL



RAW & PRODUCT WATER TANK NOZZLE DETAILS