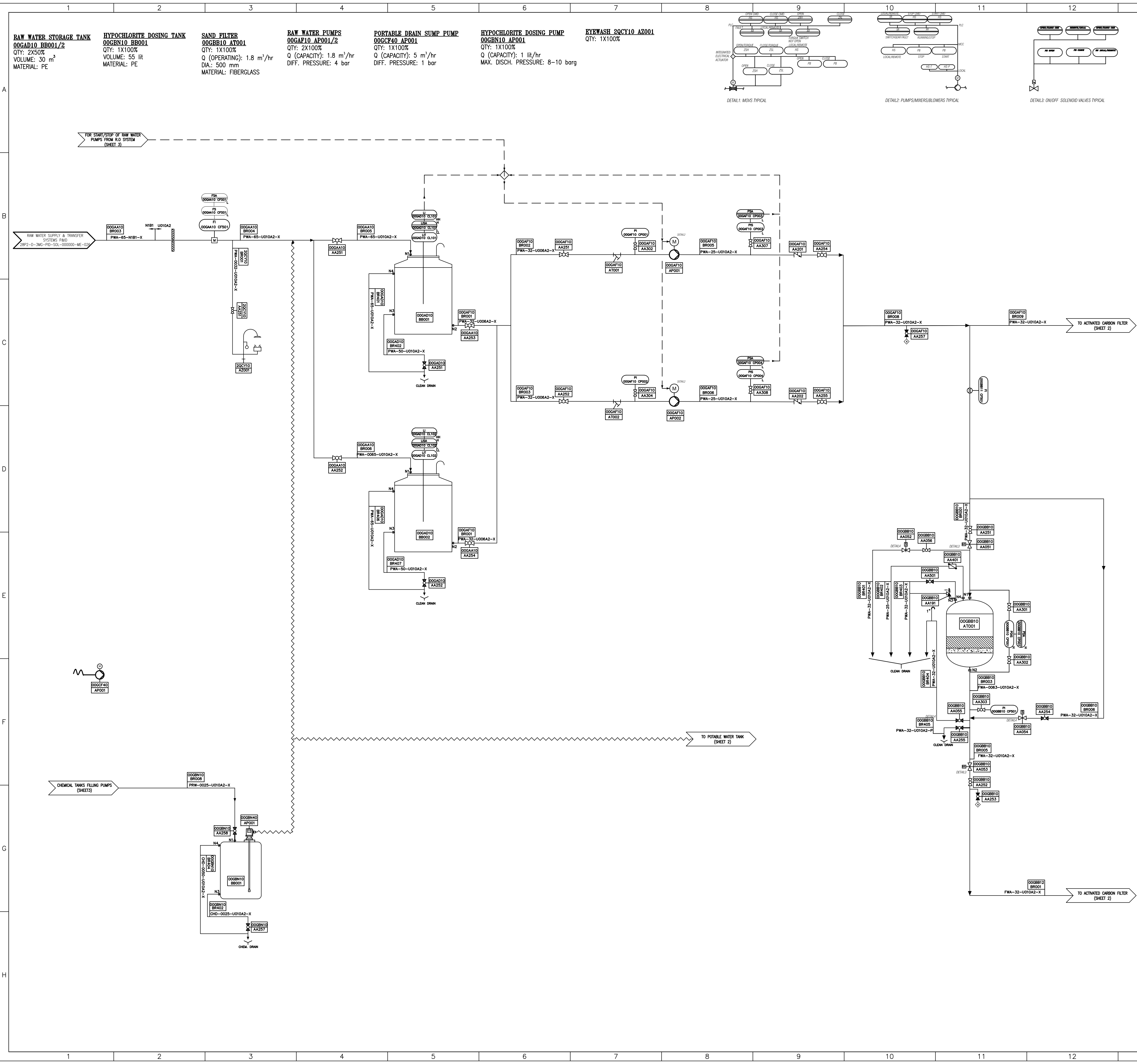


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
WTP SYSTEM P&ID															
F															
03															
02															
01															
00	06/2026	ISSUE FOR REVIEW	E.JA	E.JA	A.SA	A.SA									
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED									
G															
Client:				Consultant:											
 نیگیکو				 موننکو ایران Monenco Iran											
				Contractor:				Sub Contractor:							
				 MOHAM SHARGH CO.											
Project: 100MW Solar Power Plant (SARCHESHME)															
Title: WTP SYSTEM P&ID															
H															
DOC NO.:		28P2-B-3MG-PID-SOL-000000-ME-050										REV. 00			
SCALE		SIZE		SHEET 1 OF 4				FORMAT DWG							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16



LEGEND

	CHEMICAL DOSING HOSE		CENTRIFUGAL PUMP
	DRAIN		SOLENOID DOSING PUMP
	I&C CONNECTION		MIXER
	POTABLE WATER		STRAINER
	FILTERED WATER		PULSATION DAMPENER
	CHEMICAL SOLUTION		DRAIN
	BALL VALVE N.O.		REDUCER/EXPANDER
	GATE VALVE N.O.		AIR BLOWER
	GLOBE VALVE N.O.		STATIC MIXER
	PISTON TYPE ACTUATED VALVE (APPLICABLE TO ANY VALVE)		MAGNETIC FLOW METER
	SAFETY VALVE		ULTRASONIC FLOW METER
	BUTTERFLY VALVE N.O.		ROTAMETER FLOW MEASURING
	BUTTERFLY VALVE N.C.		
	CHECK VALVE		
	AIR VENT		

LOCALLY MOUNTED
THE FUNCTION IMPLEMENTED IN DCS
THE FUNCTION IMPLEMENTED IN PLC

CODE LETTERS FOR I&C
* PISA * : CODE LETTER FOR I&C ALARM SET POINT

IKKS DESIGNATION OF MEASURING POINT

PS	PRESSURE SWITCH	LISA	LEVEL INDICATOR SWITCH ALARM
PSA	PRESSURE SWITCH ALARM	LSZ	LEVEL SWITCH PROTECTION
PIS	PRESSURE INDICATOR SWITCH	LSA	LEVEL SWITCH ALARM
PI	PRESSURE INDICATOR	LI	LEVEL INDICATOR
PDIS	PRESSURE DIFFERENTIAL INDICATOR SWITCH	LT	LEVEL INDICATOR TRANSMITTER
PDA	PRESSURE DIFFERENTIAL ALARM	LS	LEVEL SWITCH
QA	ANALYZER INDICATOR ALARM	QISA	ANALYZER INDICATOR SWITCH ALARM
QIT	ANALYZER INDICATOR TRANSMITTER	H	HIGH
FI	FLOW INDICATOR	HH	HIGH HIGH
FT	FLOW INDICATOR TRANSMITTER	L	LOW
ZS	POSITION SWITCH	LL	LOW LOW
ZSC	CLOSE POSITION SWITCH	LLL	LOW LOW LOW

REFERENCE DRAWINGS

- 1-WATER PRETREATMENT & RO SYSTEMS DESIGN CRITERIA AND CALCULATION
28P2-B-3MG-CAL-SOL-000000-ME-037
- 2-WATER PRETREATMENT & RO SYSTEMS PFD
28P2-B-3MG-PID-SOL-000000-ME-013
- 3-PIPING MATERIAL SPECIFICATION
28P2-B-3MG-DSH-SOL-000000-ME-014
- 5-RAW WATER SUPPLY & TRANSFER SYSTEMS P&ID
28P2-D-3MG-PID-SOL-000000-ME-026
- 6-POTABLE WATER TRANSFER & DISTRIBUTION SYSTEM P&ID
28P2-B-3MG-TDS-SOL-000000-ME-019

GENERAL NOTES

- ALL MANIFOLD VALVES, SAMPLE VALVES & ISOLATING VALVES OF MEASURING INSTRUMENTS ARE 1/2".
- THE SIZE OF PLASTIC PIPES SUCH AS PE & PVC ARE REFERRED TO EXTERNAL DIAMETERS.
- THE TYPE OF PVC PIPES ARE UPVC.
- ALL PACKAGES OF DIAPHRAGM PUMPS CONSIST OF STRAINER AND CHECK VALVE.
- TERMINAL POINT:

TERMINAL POINT NO. FOR SUPPLY & CONSTRUCTION (SEQUENTIAL)

SUPPLIER OF SYSTEM

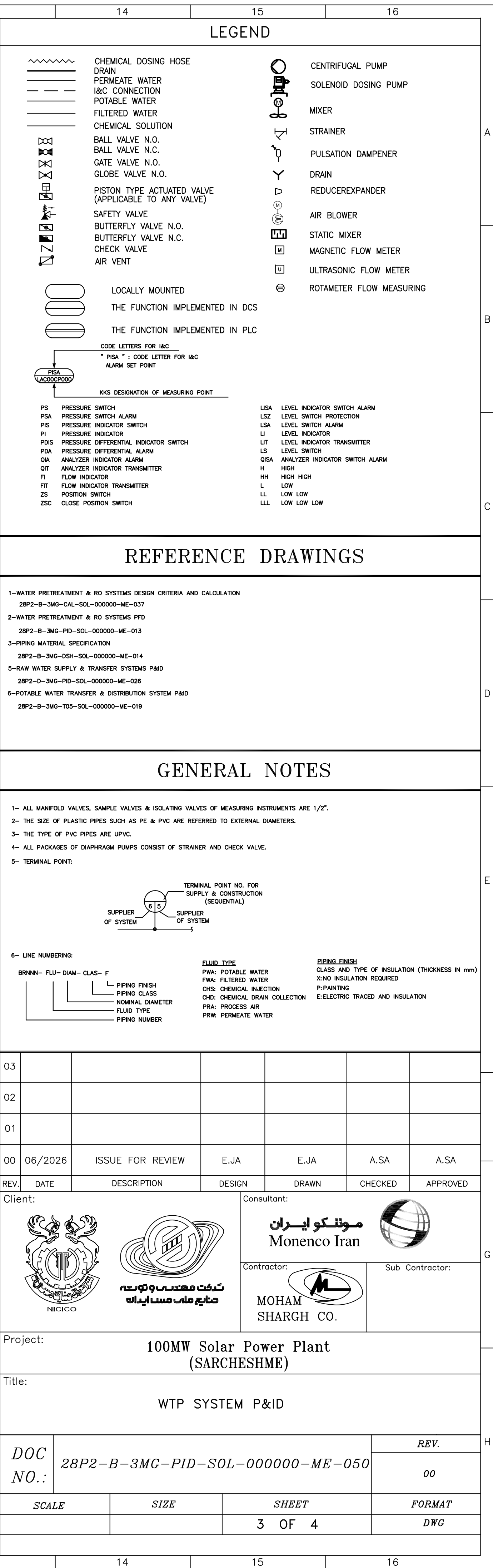
SUPPLIER OF SYSTEM

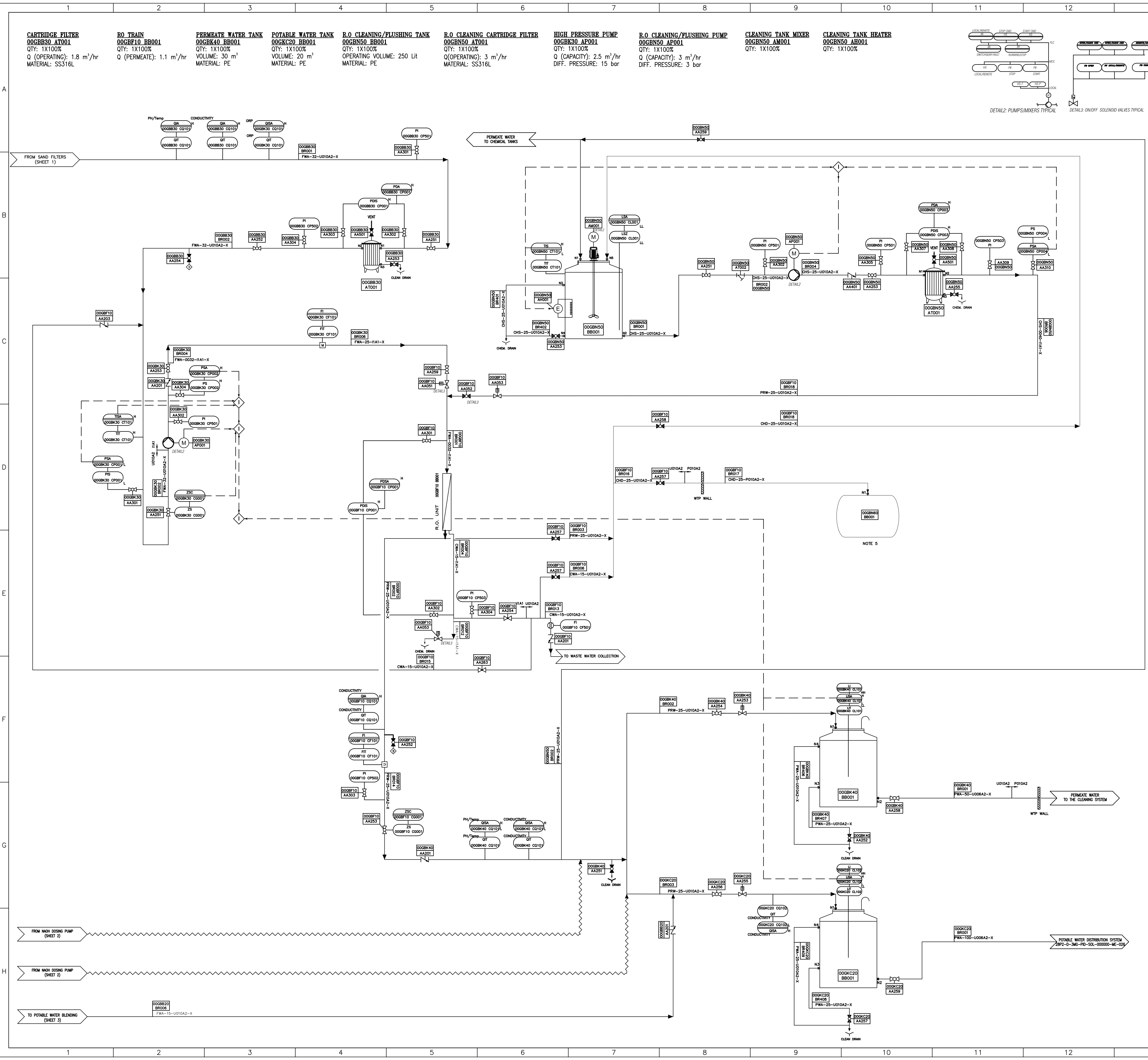
- LINE NUMBERING:
BRNN-- FLU-- DIAM-- CLAS-- F

FLUID TYPE	BRNN-- FLU-- DIAM-- CLAS-- F	BRNN-- FLU-- DIAM-- CLAS-- F
PWA: POTABLE WATER		
PFW: FILTERED WATER		
OHS: CHEMICAL INJECTION		
CHD: CHEMICAL DRAIN COLLECTION		
PRA: PROCESS AIR		
PFW: PERMEATE WATER		

CLASS AND TYPE OF INSULATION (THICKNESS IN mm)
X-NO INSULATION REQUIRED
P-PAINTING
E-ELECTRIC TRACED AND INSULATION

03					
02					
01					
00	06/2026	ISSUE FOR REVIEW	E.JA	E.JA	A.SA
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED
Client:			Consultant:		
Contractor:			Sub Contractor:		
Project: 100MW Solar Power Plant (SARCHESHME)					
Title: WTP SYSTEM P&ID					
DOC NO.: 28P2-B-3MG-PID-SOL-000000-ME-050		REV.		00	
SCALE	SIZE	SHEET	FORMAT		
		2 OF 4	DWG		





LEGEND

CHEMICAL DOSING HOSE

DRAIN

PERMEATE WATER I&C CONNECTION

POTABLE WATER

FILTERED WATER

CHEMICAL SOLUTION

BALL VALVE N.O.

BALL VALVE N.C.

GATE VALVE N.O.

GLOBE VALVE N.O.

PISTON TYPE ACTUATED VALVE (APPLICABLE TO ANY VALVE)

SAFETY VALVE

BUTTERFLY VALVE N.O.

BUTTERFLY VALVE N.C.

CHECK VALVE

AIR VENT

LOCALLY MOUNTED

THE FUNCTION IMPLEMENTED IN DCS

THE FUNCTION IMPLEMENTED IN PLC

CODE LETTERS FOR I&C

KKS DESIGNATION OF MEASURING POINT

PS PRESSURE SWITCH

PI PRESSURE INDICATOR SWITCH

PI PRESSURE INDICATOR

PDIS PRESSURE DIFFERENTIAL INDICATOR SWITCH

PDA PRESSURE DIFFERENTIAL ALARM

QA ANALYZER INDICATOR ALARM

QTA ANALYZER INDICATOR TRANSMITTER

FI FLOW INDICATOR

FIT FLOW INDICATOR TRANSMITTER

ZS POSITION SWITCH

ZSC CLOSE POSITION SWITCH

LISA LEVEL INDICATOR SWITCH ALARM

LSZ LEVEL SWITCH PROTECTION

LSA LEVEL SWITCH ALARM

LI LEVEL INDICATOR

LIT LEVEL INDICATOR TRANSMITTER

LS LEVEL SWITCH

QISA ANALYZER INDICATOR SWITCH ALARM

H HIGH

HH HIGH HIGH

L LOW

LL LOW LOW

LLL LOW LOW LOW

ROTAMETER FLOW MEASURING

REFERENCE DRAWINGS

1-WATER PRETREATMENT & RO SYSTEMS DESIGN CRITERIA AND CALCULATION
28P2-B-3MG-CAL-SOL-000000-ME-037

2-WATER PRETREATMENT & RO SYSTEMS PFD
28P2-B-3MG-PID-SOL-000000-ME-013

3-PIPING MATERIAL SPECIFICATION
28P2-B-3MG-DSH-SOL-000000-ME-014

5-RAW WATER SUPPLY & TRANSFER SYSTEMS P&ID
28P2-D-3MG-PID-SOL-000000-ME-026

6-POTABLE WATER TRANSFER & DISTRIBUTION SYSTEM P&ID
28P2-B-3MG-TDS-SOL-000000-ME-019

GENERAL NOTES

1- ALL MANIFOLD VALVES, SAMPLE VALVES & ISOLATING VALVES OF MEASURING INSTRUMENTS ARE 1/2".

2- THE SIZE OF PLASTIC PIPES SUCH AS PE & PVC ARE REFERRED TO EXTERNAL DIAMETERS.

3- THE TYPE OF PVC PIPES ARE UPVC.

4- ALL PACKAGES OF DIAPHRAGM PUMPS CONSIST OF STRAINER AND CHECK VALVE.

5- TERMINAL POINT:

6- LINE NUMBERING:

BRNN-- FLU--DIAM--CLAS-- F

FLUID TYPE

PWA: POTABLE WATER

FWA: FILTERED WATER

CHS: CHEMICAL INJECTION

CHD: CHEMICAL DRAIN COLLECTION

PRA: PROCESS AIR

PRW: PERMEATE WATER

CLASS AND TYPE OF INSULATION (THICKNESS IN mm)

X: NO INSULATION REQUIRED

P: PAINTING

E: ELECTRIC TRACED AND INSULATION

03					
02					
01					
00	06/2026	ISSUE FOR REVIEW	E.JA	E.JA	A.SA
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED
Client:			Consultant:		
Contractor:			Sub Contractor:		
Project: 100MW Solar Power Plant (SARCHESHME)					
Title: WTP SYSTEM P&ID					
DOC NO.: 28P2-B-3MG-PID-SOL-000000-ME-050		REV.		00	
SCALE	SIZE	SHEET	FORMAT		
		4 OF 4	DWG		