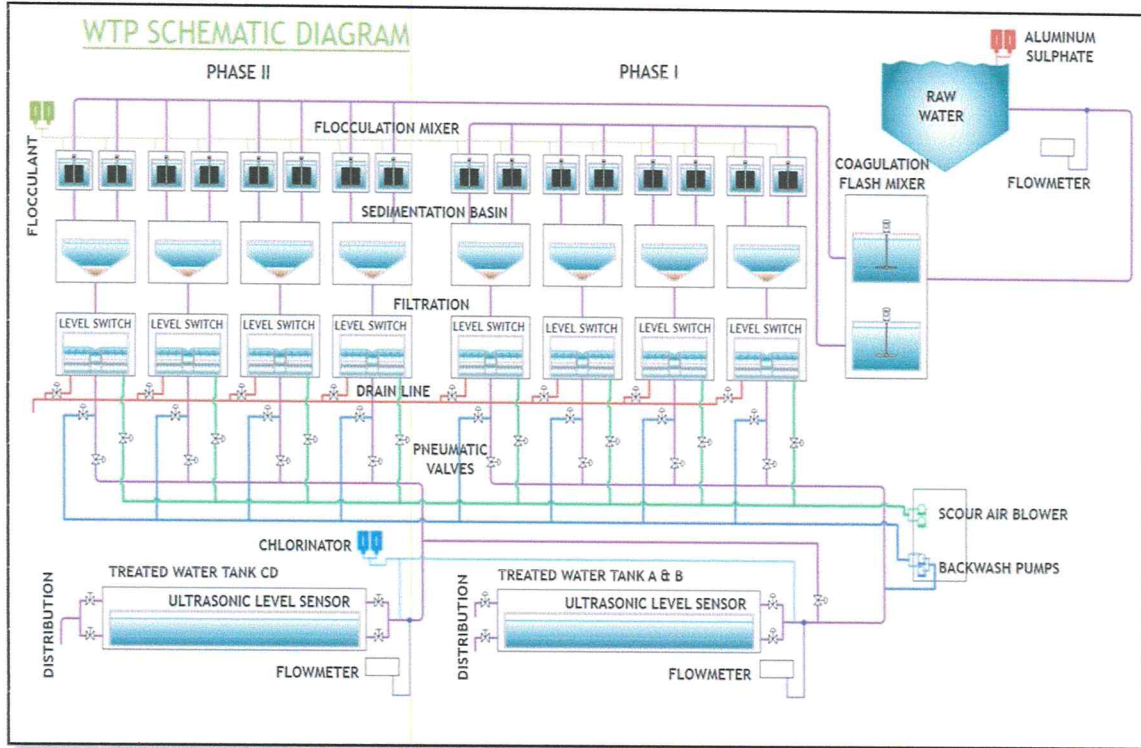


V. PARAMETERS

1. System Diagram

The HMI shall reflect how the process is being done as show in the diagram.

Figure 1. WTP System Diagram



2. System Parameters

The parameters that shall be incorporated in the SCADA are tabulated below:

Table 1. Parameters to be Monitored and Controlled

LOCATION	PARAMETERS TO BE MONITORED	PARAMETERS TO BE CONTROLLED
RAW WATER INLET	INFLOW & TOTALIZER (USE EXISTING FLOW METER)	
	TURBIDITY (ADD 0-10,000 NTU CAPACITY TURBIDITY METER)	
CHLORINE	CONCENTRATION DOSAGE ANG CHEMICAL FLOW	ON, OFF & TRIP OPERATION OF CHLORINATOR
ALUMINUM SULPHATE	CONCENTRATION DOSAGE ANG CHEMICAL FLOW	ON, OFF & TRIP OPERATION OF DOZING PUMPS FOR



FLOCCULANT	CONCENTRATION DOSAGE ANG CHEMICAL FLOW	ALUMINUM SULPHATE
FLOCCULANT MIXERS		ON, OFF & TRIP OPERATION OF DOZING PUMPS FOR FLOCCULANT
COAGULATION FLASH MIXER		ON, OFF & TRIP OPERATION OF FLOCCULANT MIXERS
STORAGE TANK	TANK WATER LEVEL IN TANK A, B & CD.	ON, OFF & TRIP OPERATION OF FLASH MIXERS
FLOWMETER AT INLET PIPE OF STORAGE TANK	INFLOW & TOTALIZER	
FILTER WATER BASIN	WATER LEVEL THAT WILL MONITOR AS TO WHEN TO DO THE BACKWASHING IN BASIN A, B & CD	
MAIN VALVES	PERCENTAGE OPENING FOR INLET VALVE A&B, RELEASING VALVE A, AND BYPASS VALVE FROM PHASE I TO PHASE II.	OPENING AND CLOSING IN TERMS OF PERCENTAGE



Prepared by:

ARIANN D. GODINEZ
Senior Engineer A
Design Division

Checked & Submitted by:

REX D. SALE, JR
Supervising Engineer A
Design Division

Submitted by:

EDITO M. BAUTISTA, JR.
Officer In-charge
Design Division

Approved by:

MARLI P. ACOSTA - DE FIESTA
Department Manager
Engineering & Construction Department

Recommending Project Implementation:

ARNULFO A. ALFONSO
Assistant General Manager
Technical Services Group

Approved for Project Implementation

LEONARDO REY D. VASQUEZ
General Manager