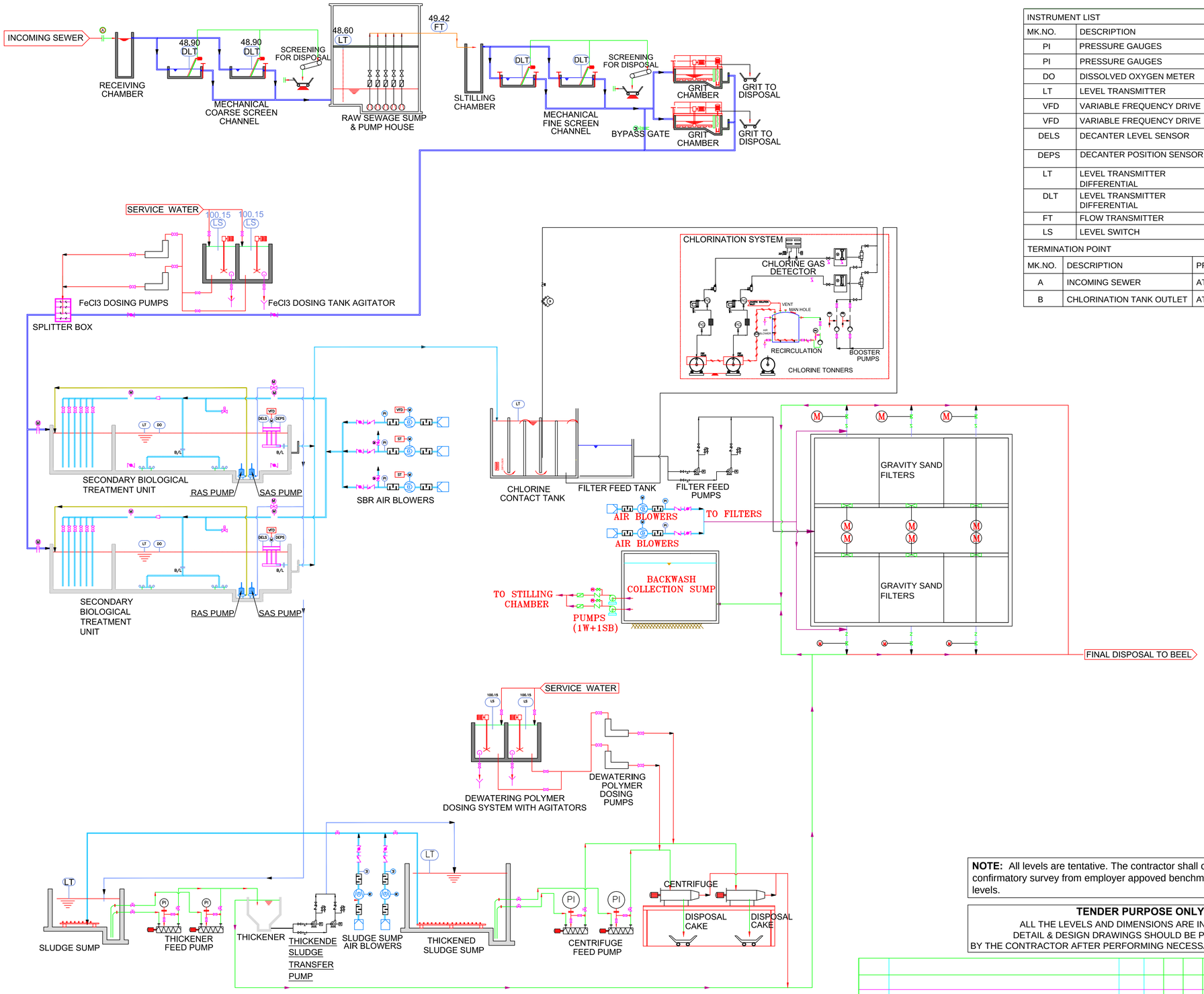

INSTRUMENT LIST		
MK.NO.	DESCRIPTION	REMARK
PI	PRESSURE GAUGES	BOURDON TYPE
PI	PRESSURE GAUGES	DIAPHRAGM TYPE
DO	DISSOLVED OXYGEN METER	IMMERSION TYPE
LT	LEVEL TRANSMITTER	HYDROSTATIC TYPE
VFD	VARIABLE FREQUENCY DRIVE	FOR BLOWERS
VFD	VARIABLE FREQUENCY DRIVE	FOR DECANTERS
DELS	DECANTER LEVEL SENSOR	MERCURY FLOAT SWITCH
DEPS	DECANTER POSITION SENSOR	MAGNETIC LIMIT SWITCH
LT	LEVEL TRANSMITTER DIFFERENTIAL	ULTRASONIC TYPE
DLT	LEVEL TRANSMITTER DIFFERENTIAL	ULTRASONIC TYPE
FT	FLOW TRANSMITTER	ULTRASONIC TYPE
LS	LEVEL SWITCH	CAPACITANCE TYPE

TERMINATION POINT			
MK.NO.	DESCRIPTION	PRESSURE	REMARK
A	INCOMING SEWER	ATMOSPHERIC	
B	CHLORINATION TANK OUTLET	ATMOSPHERIC	

LINE LEGEND	
	RAS LINE
	SAS LINE
	AIR LINE
	INSTRUMENT SIGNAL
	DRAIN LINE
	RCC CHANNEL
LEGEND	
	NON-RETURN VALVE
	BUTTERFLY VALVE
M	MOTORISED BUTTERFLY VALVE
M	CHANNEL MOUNTED MOTORISED GATE
M	MOTORIZED GATE
	KNIFE GATE VALVE
	BALL VALVE
	NEEDLE VALVE
VFD	VARIABLE FREQUENCY DRIVE
ST	SOFT STARTER
M	MOTOR
	AIR BLOWER
	SILENCER
	FILTER

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER (MM) UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METERS UNLESS SPECIFIED OTHERWISE.
3. ALL THE EQUIPMENT SHOWN ARE INDICATIVE ONLY AND MAY CHANGE AS PER VENDOR GA DRAWING.
4. WALKWAY AND PLATFORMS SHALL BE PROVIDED WITH RAILING.
5. FIXING ARRANGEMENT AND FOUNDATION DETAILS OF PUMPS, SLUICE GATE, SCREENS, AIR BLOWERS, AND ALL OTHER EQUIPMENTS SHALL BE AS PER MANUFACTURER RECOMMENDATIONS.
6. THIS DRAWING IS TENTATIVE FOR P&ID OF STP, ALL THE DETAILS SHALL BE CONFIRMED DURING DETAIL ENGINEERING FROM RESPECTIVE VENDOR.

NOTE: All levels are tentative. The contractor shall conduct confirmatory survey from employer appoved benchmarks to obtain final levels.

TENDER PURPOSE ONLY
ALL THE LEVELS AND DIMENSIONS ARE INDICATIVE.
DETAIL & DESIGN DRAWINGS SHOULD BE PREPARED
BY THE CONTRACTOR AFTER PERFORMING NECESSARY INVESTIGATION.

ISSUE	REVISIONS	DRN	CIVIL	ELEC	I&C	MECH	APPD	DATE
			CLEARED					

FOR RO ISSUE ONLY
CLEARED

DEPT	SIGNATURE	DATE
CIVIL		
ELEC		
I&C		
MECH		

FILE NAME :
CLIENT : GUWAHATI SMART CITY LIMITED
PROJECT : BORSOLA BEEL DEVELOPMENT PROJECT

GUWAHATI SMART CITY LIMITED
DO NOT SCALE
P & I DIAGRAM
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE: 1:2000
APPROVED
DATE (RO ISSUE)
DEL.CENTRE-DISC:
DATE (CURRENT ISSUE)
DRN:
CHD:
DWG NO TCE.10477A-CV-3000-PI-30205
ISSUE
SIZE-A1

TCE FORM NO. 042 R5

FILE NAME: 5_041_Rev_R5.dwg