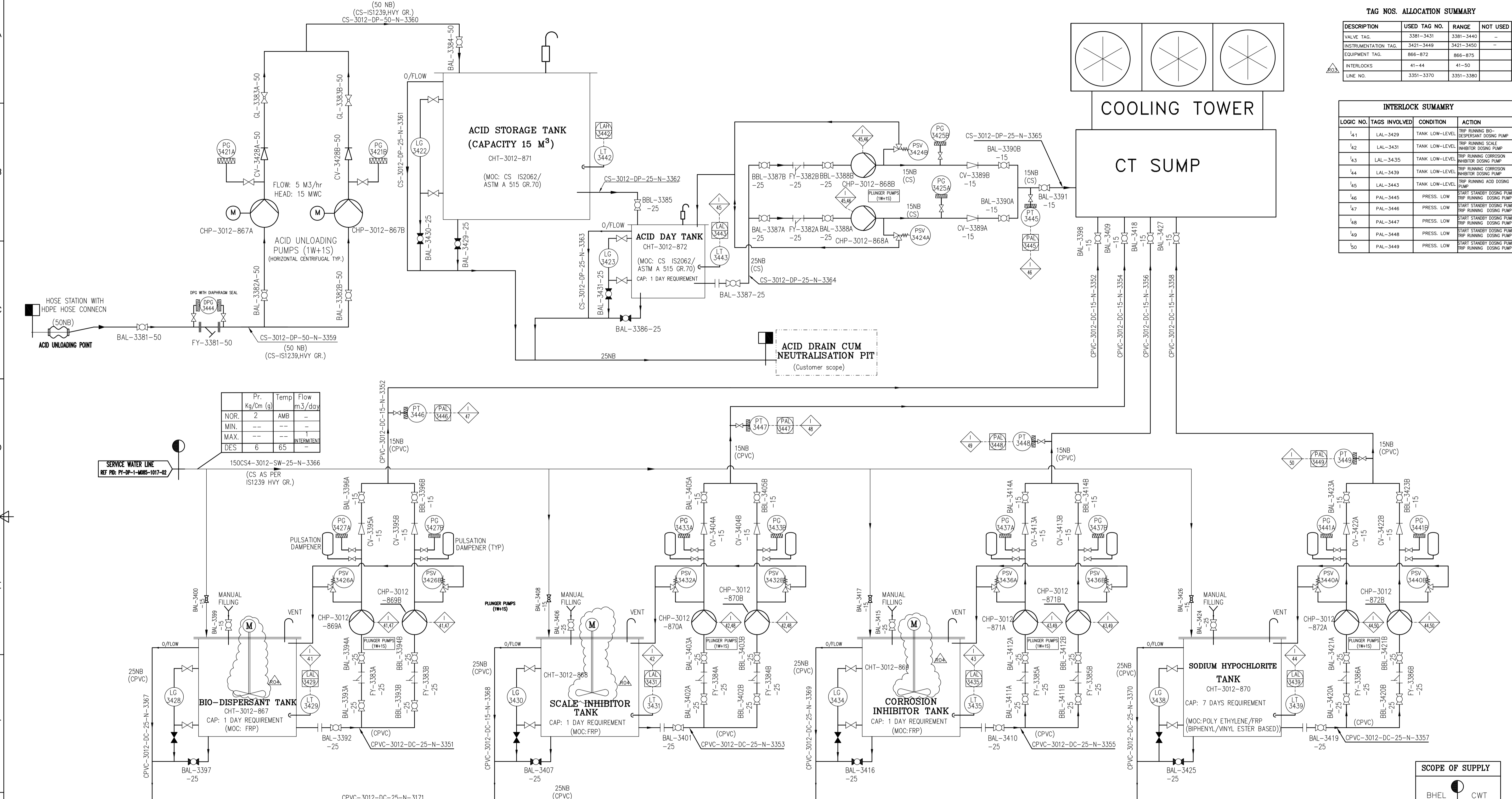


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COMPUTER FILE NAME: INVENTORY NO. SIGN. AND DATE REF. DRG. NO.

DRG. NO. PY-DP-1-M085-1043-01



TAG NOS. ALLOCATION SUMMARY

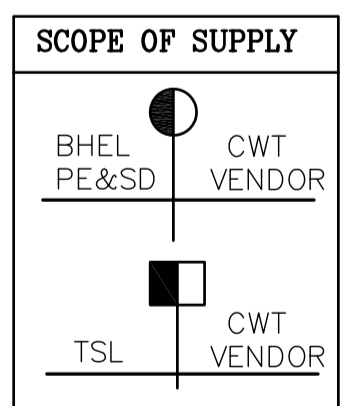
DESCRIPTION	USED TAG NO.	RANGE	NOT USED
VALVE TAG.	3381-3431	3381-3440	-
INSTRUMENTATION TAG.	3421-3449	3421-3450	-
EQUIPMENT TAG.	866-872	866-875	-
INTERLOCKS	41-44	41-50	-
LINE NO.	3351-3370	3351-3380	-

INTERLOCK SUMMARY

LOGIC NO.	TAGS INVOLVED	CONDITION	ACTION
41	LAL-3429	TANK LOW-LEVEL	TRIP RUNNING BIO-DISPERSANT DOSING PUMP
42	LAL-3431	TANK LOW-LEVEL	TRIP RUNNING SCALE INHIBITOR DOSING PUMP
43	LAL-3435	TANK LOW-LEVEL	TRIP RUNNING CORROSION INHIBITOR DOSING PUMP
44	LAL-3439	TANK LOW-LEVEL	TRIP RUNNING SODIUM HYPOCHLORITE DOSING PUMP
45	LAL-3443	TANK LOW-LEVEL	TRIP RUNNING ADD DOSING PUMP
46	PAL-3445	PRESS. LOW	START STANDBY DOSING PUMP
47	PAL-3446	PRESS. LOW	TRIP RUNNING DOSING PUMP
48	PAL-3447	PRESS. LOW	START STANDBY DOSING PUMP
49	PAL-3448	PRESS. LOW	TRIP RUNNING DOSING PUMP
50	PAL-3449	PRESS. LOW	START STANDBY DOSING PUMP

- NOTES:**
- EXACT TANK CAPACITIES AND DOSING PUMP CAPACITY SHALL BE INDICATED AFTER RECEIPT OF THE VENDOR DATA. HOWEVER, THE SAME SHALL MEET THE REQUIREMENTS OF CONTRACT SPECIFICATION PROVIDED TSL/TCE.
 - A SAFETY SHOWER AND EYE WASH SHALL BE PROVIDED NEAR THE PACKAGE.
 - BULK ACID STORAGE TANK SHALL BE PROVIDED WITH DYKE AREA OF ACID RESISTANT TILES, WHICH SHALL BE IN CUSTOMER'S SCOPE.
 - a) PIPES FOR SULPHURIC ACID & SERVICE WATER LINES SHOULD BE AS PER IS 1239 HEAVY GRADE.
b) PIPES FOR CHEMICAL LINES SHALL BE CPVC.

CHEMICAL DRAIN COLLECTION PIT (CUSTOMER SCOPE)



REV.	DATE	ALTERED	DATE	ALTERED	DATE	ALTERED	DATE	ALTERED	DATE	ALTERED	DATE	ALTERED	DATE	ALTERED
04	27.08.16	CHD/APPD	03	25.07.16	CHD/APPD	02	25.07.16	CHD/APPD	01	30.06.16	CHD/APPD			

CONSULTANT: **TATA CONSULTING ENGINEERS LIMITED**
MUMBAI

BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

TATA STEEL LTD
JAMSHEDPUR

PROJECT: 40MW CDQ WASTE HEAT RECOVERY CO-GENERATION POWER PLANT
AREA: JAMSHEDPUR
SUBJECT: P&ID OF COOLING WATER TREATMENT SYSTEM

TITLE: **P&ID OF COOLING WATER TREATMENT SYSTEM**

TATA DRG. NO. **04**