

## **APPENDIX 5-2**

### **Existing Electrical Facilities/Equipment Investigation**



The Study Team conducted an investigation of the operating conditions of the existing electrical facilities/equipment in the same manner as the mechanical portion. The results of the investigation are summarised as shown below:

Level	Description
A	Operational/Functionable without replacement
B	Need to repair /replace some parts
C	Need to replace entirely

According to the investigation, the Project involves the rehabilitation of facilities/equipment leveled B and C.

SUB STATION

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
1.	NO.1 SUBSTATION	<p>QTY : 1 SET</p> <p>(1)DISCONNECTING SWITCH ; 3SETS</p> <p>(2)FUSE DISCONNECTING SWITCH ; 3SETS</p> <p>(3)LIGHTNING ARRESTER : 3SETS</p> <p>(4)TRANSFORMER ; 1SET</p> <p>OIL IMMERSSED TYPE</p> <p>3PH. 3750/4687KVA,60HZ. 34.5KV/24.5KV</p> <p>(5)TRANSFORMER ; 3SETS</p> <p>OIL IMMERSSED TYPE</p> <p>1PH. 167KVA,60HZ. 2.4 / 0.48-0.24KV</p> <p>(6)METALCLAD SWITCH GEAR ; 2SETS</p> <p>(7)CAPACITOR ; 4SETS</p> <p>3PH. 20KVA,480V</p> <p>(8)LOW VOLTAGE DISTRIBUTION PANEL ; 4SETS</p> <p>OUTDOOR WALL MOUNTED TYPE</p> <p>(9)STRUCTURE : 1LOT</p> <p>(10)FENCE ; 1LOT</p>	<p>1963</p> <p>1963</p> <p>1963</p> <p>1963</p> <p>1963</p> <p>1963</p> <p>1963</p> <p>1981</p> <p>1963</p> <p>1963</p>	O			<p>WORKING</p> <p>W/OUT ANY TROUBLE AT 2.4KV BUS BAR</p>

SUB STATION

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
2.	NO.2 SUBSTATION	QTY : 1 SET (1) FUSE DISCONNECTING SWITCH ; 3SETS (2) LIGHTNING ARRESER ; 3SETS (3) TRANSFORMER ; 3SETS OIL IMMERSSED TYPE 1PH. 100KVA,60HZ, 20 / 0.277-0.139KV "Y-"Y" CONNECTION (4) FENCE ; 1LOT	1963 1963 1963 1963	O			WORKING
3.	NO.3 SUBSTATION	QTY : 1 SET (1) FUSE DISCONNECTING SWITCH ; 3SETS (2) LIGHTNING ARRESTER ; 6SETS (3) TRANSFORMER ; 3SETS OIL IMMERSSED TYPE 1PH. 250KVA,60HZ, 20 / 0.277-0.139KV (4) TRANSFORMER ; 3SETS OIL IMMERSSED TYPE 1PH. 100KVA,60HZ, 20 / 0.139-0.07KV (4) FENCE ; 1LOT	1935 1981 1935 1935 1935 1981	O			WORKING

PLANT No.1 ELECTRICAL EQUIPMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
1.	MCC FOR SEDIMENTATION BASIN NO.1	QTY : 1 SET EQUIP.No. : MCC-NSB-1 INDOOR SELF STANDING UNITS TYPE RATING 3PH. 4W 480V 600A BEING COMPOSED OF 3 PANELS SIZE APPROX. 1525W-2300H-500D	1981		O		WORKING BUT DEFORMED,CORRODED
2.	LIGHTING PANEL FOR SEDIMENTATION BASIN NO.1	QTY : 1 SET EQUIP.No. : NSB-1 INDOOR WALL MOUNTED TYPE RATING 3PH.4W 240/120V 100A BRANCHES-8 SIZE APPROX. 450W-600H-170D	1981	O			WORKING BUT DISCOLORED
3.	TRANSFORMER FOR LIGHTING	QTY : 1 PC. INDOOR DRY 3PH. 6KVA 480/240-120V	1981				WORKING IN GOOD CONDITION
4.	MCC FOR SEDIMENTATION BASIN NO.2	QTY : 1 SET EQUIP.No. : MCC-NSB-2 INDOOR SELF STANDING UNITS TYPE RATING 3PH. 4W 480V 600A BEING COMPOSED OF 3 PANELS SIZE APPROX. 1525W-2300H-500D	1981		O		WORKING BUT DEFORMED,CORRODED
5.	LIGHTING PANEL FOR SEDIMENTATION BASIN NO.2	QTY : 1 SET EQUIP.No. : NSB-2 INDOOR WALL MOUNTED TYPE RATING 3PH. 4W 240/120V 100A BRANCHES-8 SIZE APPROX. 450W-600H-170D	1981	O			WORKING BUT DISCOLORED

PLANT No.1 ELECTRICAL EQUIPMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
6.	TRANSFORMER FOR LIGHTING	QTY : 1 PC. INDOOR DRY 3PH. 6KVA. 480/240-120V	1981	○			WORKING IN GOOD CONDITION
7.	MCC FOR ACCELATOR	QTY : 1 PC. INDOOR SELF STANDING OPEN TYPE RATING 3PH. 4W 480V 100A SIZE APPROX. 1200W-2300H-500D	1935			○	WORKING BUT MALFUNCTION AND OLD TYPE
8.	DISTRIBUTION PANEL FOR FILTER	QTY : 1 PC. EQUIP.No. : DP-2 INDOOR WALL MOUNTED TYPE RATING 3PH. 4W 480V 225A SIZE APPROX. 600W-1050H-210D	1981		○		WORKING SLIGHT CORROSION ON THE SURFACE
9.	LIGHTING PANEL FOR FILTER BLDG.	QTY : 1 PC. EQUIP.No. : NF-1 INDOOR WALL MOUNTED TYPE RATING 3PH. 4W 240/120V 100A BRANCHES-15 SIZE APPRX. 470W-750H-170D	1981	○			WORKING CORRODED AND DISCOLORED
10.	TRANSFORMER FOR LIGHTING (IN FILTER BLDG.)	QTY : 1 PC. INDOOR DRY 3PH. 15KVA 480/240-120V	1981	○			WORKING IN GOOD CONDITION
11.	MCC FOR WASH WATER PUMP	QTY : 1 SET EQUIP.No. : MCC-NMW-1 INDOOR SELF STANDING UNITS TYPE RATING 3PH. 4W 480V 600A BEING COMPOSED OF 5 PANELS SIZE APPROX. 2540W-2300H-510D	1981			○	WORKING DAMAGED EMERGENCY CIRCUIT AND MALFUNCTION

PLANT No.1 ELECTRICAL EQUIPMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
12.	MCC FOR UP BOOSTER PUMP	QTY : 1 SET EQUIP.No. : MCC-NMW-2 INDOOR SELF STANDING UNITS TYPE RATING 3PH. 4W 480V 600A SIZE APPROX. 2400W-2300H-600D	1981	O			WORKING IN GOOD CONDITION
13.	DISTRIBUTION PANEL FOR LIGHTING OF OUTDOOR & RESIDENT (IN W/W HOUSE)	QTY : 1 PC. EQUIP.No. : DP-1 INDOOR WALL MOUNTED TYPE RATING 3PH. 4W 480V 500A BRANCHES-14	1981			O	WORKING FRONT DOOR COVER IS MISSING AND NOT SAFE
14.	CONVERT SWITCH BOX FOR GENERATOR (IN W/W HOUSE)	QTY : 1 PC. INDOOR WALL MOUNTED TYPE RATING 3PH. 600V 600A DPKS SIZE APPROX. 1000W-1500H-300D	1981	O			GOOD CONDITION WORKING DURING EMER- GENCY
15.	DIESEL GENERATOR	QTY : 1 PC. 3PH. 480V 625KVA/500KW AIR-COOLING TYPE	1935	O			BITTO
16.	MCC FOR WASH WATER RECOVERY PUMP	QTY : 1 SET EQUIP.No. : MCC-NMWR-1 INDOOR SELF STANDING UNITS TYPE RATING 3PH. 4W 480V 600A BEIG COMPOSED OF 3 PANELS SIZE APPROX. 1520W-2300H-510D	1981			O	WORKING BUT REAR DOOR AND MAIN BREAKER ARE MISSING
17.	LIGHTING PANEL FOR W/W RECOVERY PUMP HOUSE	QTY : 1 PC. EQUIP.No. : NMWR-1 INDOOR WALL MOUNTED TYPE RATING 3PH. 4W 240/120V 100A SIZE APPROX. 420W-550H-170D	1981			O	WORKING BUT DISCOLORD DAMAGED DOOR LOCK



PLANT No.1 ELECTRICAL EQUIPMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
18.	TRANSFORMER FOR LIGHTING (IN W/W RECOVERY PUMP HOUSE)	QTY : 1 PC. INDOOR DRY 3PH. 6KVA 480/240-120V	1981	O			WORKING IN GOOD CONDITION

PLANT No.1 INSTRUMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
1.	ACCELATOR NO1 INFLUENT FLOW	QTY : 1 SET EQUIP.No. : FRQ-101 ORIFICE PLATE:1066 mm φ THREE VALVE MANIFOLD,STOP VALVE D/P CELL TRANSMITTER:0-2090mmH2O,DC 4-20mA FR/FQ:DC4-20mA 0-100ML/D	1981			*O	*EXCEPT ORIFICE NOT WORKING
2.	ACCELATOR NO2 INFLUENT FLOW	DITTO	1981			*O	DITTO
3.	FILTER NO.1 INFLUENT LEVEL	QTY : 1 SET EQUIP.No. : LJ-103 AIR PURGE TYPE TRANSMITTER WITH INDI- CATOR OUTPUT:0.2-1.0kg/cm2 FS:0-1M	1981				NOT WORKING
4.	FILTER NO.1 RATE OF FLOW	QTY : 10 SET EQUIP.No. : FIC-111 TO 120 VENTURI METER:508 x 304.8mm φ THREE VALVES MANIFOLD,STOP VALVES D/P CELL TRANSMITTER:0-300mmH2O :0.2-1.0kg / cm2 SQUARE ROOTER INDICATOR( AT LOCAL ) INDICATOR( ON PANEL ) FS:0-65ML/D FLOW CONTROLLER :PILOT VALVE TYPE INPUT SIGNAL :AIR,0.2-1.0kg / cm2 OUTPUT SIGNAL: WATER	1981			O	NOT AUTOMATICALLY WORKING MANUAL OPERATED

PLANT No.1 INSTRUMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
5.	FILTER NO.1 LOSS OF HEAD	RATE OF FLOW SETTING STATION AUTO/MANUAL SELECT TYPE INPUT, OUTPUT SIGNAL: AIR, 0.2-1.0kg/cm <sup>2</sup> QTY: 10 SET EQUIP.No.: DPI-III TO 120 THREE VALVE MANIFOLD, STOP VALVE D/P CELL TRANSMITTER: 0.2-1.0kg/cm <sup>2</sup> INDICATOR (AT LOCAL) INDICATOR (ON PANEL) FS: 0-4m	1981				NOT WORKING
6.	FILTER NO.1 WASHWATER FLOW	QTY: 1 SET EQUIP.No.: FIRQ-201 VENTURI METER: 914mm φ THREE VALVES MANIFOLD, STOP VALVES D/P CELL TRANSMITTER: 0-2885mmH <sub>2</sub> O SQUARE ROOTER INDICATOR (AT LOCAL) INDICATOR (ON WALL) FS: 0-220ML/D FR/FQ: 0.2-1.0kg/cm <sup>2</sup> , 0-100ML/D FLOW CONTROLLER: PILOT VALVE TYPE INPUT SIGNAL: AIR, 0.2-1.0kg/cm <sup>2</sup> OUTPUT SIGNAL: WATER	1935 (VENTURI)  1981 (OTHERS)				*O NOT AUTOMATICALLY WORKING MANUAL OPERATED

PLANT No.1 INSTRUMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
		QTY : 2 SETS EQUIP.No. : HC-201A to 201C RATE OF FLOW SETTING STATION MANUAL SETTING TYPE OUTPUT SIGNAL: AIR 0.2-1.0kg / cm <sup>2</sup>	1981			O	NOT WORKING
7.	FILTER NO.1 SURFACE WASHWATER FLOW	QTY : 1 SET EQUIP.No. : FI-202 ORIFICE PLATE: mm $\phi$ THREE VALVE MANIFOLD STOP VALVE INDICATOR: DIRECT READING MANOMETER (INSTALLED AT LOCAL) FLOW CONTROLLER: PILOT VALVE TYPE INPUT SIGNAL : AIR 0.2-1.0kg / cm <sup>2</sup> OUTPUT SIGNAL: WATER	1981			*O	*EXCEPT ORIFICE NOT AUTOMATICALLY WORKING MANUAL OPERATED
		QTY : 1 SET EQUIP.No. : HC-221 RATE OF FLOW SETTING STATION MANUAL SETTING TYPE OUTPUT SIGNAL: AIR 0.2-1.0kg / cm <sup>2</sup> (FOR ON/OFF CONTROL)				O	NOT WORKING
8.	NO.1 WASHWATER TANK LEVEL NO.1 WASHWATER TANK LEVEL	QTY : 1 SET EQUIP.No. : LIR-203 TRANSMITTER : ELECTRONIC PRESSURE TYPE SOURCE: AC220, OUTPUT: DC4-20mA INDICATOR: 0-1.5m (IN W/W PUMP HOUSE) RECORDER: 0-1.5m (IN NO.1 FILTER BLDG.)	1981			O	NOT WORKING

PLANT No.1 INSTRUMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
9.	No.1 WASHWATER RECOVERY FLOW	QTY : 1 SET EQUIP.No. : FRQ-204 PIPE SIZE:406mm $\phi$ PULSE TO CURRENT CONVERTER FR/FQ:DC4-20mA					
10.	EFFLUENT FLOW (AQUEDUCT "C")	QTY : 1 SET EQUIP.No. : FIRQ-301 TRANSMITTER : MAGNETIC VELOCITY TYPE PIPE SIZE:1549mm $\phi$ Marsh-McBirney MODEL 280 (WITH :FI,FR,FQ) INDICATOR (IN CHLORINE HOUSE)	1992	O			WORKING
11.	EFFLUENT FLOW (AQUEDUCT "D")	QTY : 1 SET EQUIP.No. : FIRQ-302 TRANSMITTER : MAGNETIC VELOCITY TYPE PIPE SIZE:1651mm $\phi$ Marsh-McBirney MODEL 280 (WITH :FI,FR,FQ) INDICATOR (IN CHLORINE HOUSE)	1992	O		O	NOT WORKING
12.	EFFLUENT FLOW ( TO W/W PUMP HOUSE)	QTY : 1 SET EQUIP.No. : FIRQ- TRANSMITTER : MAGNETIC VELOCITY TYPE PIPE SIZE:609mm $\phi$ Marsh-McBirney MODEL 280 (WITH :FI,FR,FQ)	1981			O	NOT WORKING
			1992	O			WORKING

PLANT No.1 INSTRUMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
13.	EFFLUENT TOTAL FLOW (AQUEDUCT "C" + AQUEDUCT "D")	QTY : 1 SET EQUIP.No : FYI-301 302 SUMMATOR: ELECTRONIC TYPE CURRENT REPEATER INDICATOR (IN FILTER BLDG.) INDICATOR (IN CHLORINE HOUSE) INDICATOR (IN CHEMICAL HOUSE) SIGNAL CONNECTION :CHLORINATOR :FLUORIDE FEEDER	1981				NOT WORKING

PLANT No.2 ELECTRICAL EQUIPMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
1.	MCC FOR FLOCCULATOR & FLUSHING PUMP (Installed in filter bldg.)	QTY : 1 SET EQUIP.No. : MCC-EF INDOOR SELF STANDING UNITS TYPE RATING 3PH. 4W 480V 600A BEING COMPOSED OF 5 PANELS SIZE APPROX. 2500W-2300H-500D	1963			O	WORKING BUT DISCOLORED AND DEFORMED
2.	DISTRIBUTION PANEL FOR LIGHTING & CONTROL SOURCE (Installed in filter bldg.)	QTY : 1 PC. EQUIP.No. : DP-3 INDOOR WALL MOUNTED TYPE RATING 3PH. 3W 480V 225A SIZE APPROX. 620W-1050H-210D	1981			O	WORKING BUT AGED AND CORRODED
3.	MAIN SWITCH BOX (Installed in filter bldg.)	QTY : 1 PC. INDOOR WALL MOUNTED TYPE RATING 3P 400A F300A KS SIZE APPROX. 55W-1100H-250D	1963			O	WORKING SLIGHT CORROSION
4.	LIGHTING PANEL FOR FILTER BLDG	QTY : 1 PC. EQUIP.No. : NF-3 INDOOR WALL MOUNTED TYPE RATING 3PH. 4W 240/120V 100A BRANCHES-12 SIZE APPROX. 470W-750H-170D	1981			O	WORKING BUT AGED AND CORRODED
5.	LIGHTING PANEL FOR FILTER BLDG	QTY : 1 PC. EQUIP.No. : NF-4 INDOOR WALL MOUNTED TYPE RATING 3PH. 4W 240/120V 100A BRANCHES-12	1981			O	DITTO
6.	TRANSFORMER FOR LIGHTING PANEL "NF-3" (IN FILTER BLDG.)	QTY : 1 PC. INDOOR DRY 3PH. 15KVA 480/240-120V	1981			O	WORKING IN GOOD CONDITION

PLANT No.2 ELECTRICAL EQUIPMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
7.	TRANSFORMER FOR LIGHTING PANEL "NF-4" (IN FILTER BLDG.)	QTY : 1 PC. INDOOR DRY 3PH. 15KVA 480/240-120V	1981	O			WORKING IN GOOD CONDITION
8.	MCC FOR WASH WATER PUMP (CONSIST OF THE FOLLOWING)						
8.1	INCOMING PANEL	QTY : 1 PC. EQUIP.No. : MCC-EMW INDOOR SELF STANDING ENCLOSED TYPE RATING 3PH. 4W 480V 600A SIZE APPROX. 880W-2300H-610D	1963			O	WORKING BUT AGED VARIATION
8.2	UNIT NO.1 PANEL	QTY : 1 PC. EQUIP.No. : MCC-EMW INDOOR SELF STANDING ENCLOSED TYPE REDUSED VOLTAGE STARTER FOR 45KW SIZE APPROX. 880W-2300H-610D	1963			O	DITTO
8.3	UNIT NO.2 PANEL	DITTO	1963			O	DITTO
8.4	UNIT NO.3 PANEL	DITTO	1963				DAMAGED TO BE ABANDONED
8.5	UNIT NO.4 PANEL	QTY : 1 PC. EQUIP.No. : MCC-EMW INDOOR SELF STANDING ENCLOSED TYPE REDUSED VOLTAGE STARTER FOR 94KW SIZE APPROX. 880W-2300H-610D	1981			O	WORKING BUT AGED VARIATION



PLANT No.2 ELECTRICAL EQUIPMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
9.	LIGHTING PANEL FOR W/W PUMP HOUSE	QTY : 1 PC. EQUIP.No. : NPW-2 INDOOR WALL MOUNTED TYPE RATING 3PH. 4W 240/120V 100A BRANCHES-8 SIZE APPROX. 470W-620H-170D	1981	O			WORKING IN GOOD CONDITION
10.	MCC FOR WASH WATER RECOVERY PUMP	QTY : 1 PC. EQUIP.No. : MCC-NMWR-2 INDOOR SELF STANDING UNITS TYPE RATING 3PH. 4W 480V 600A BEING COMPOSED OF 3 PANELS SIZE APPROX. 1525W-2300H-510D	1981		O		WORKING BUT MAIN BREAKER IS MISSING AND DE- FORMED
11.	TRANSFORMER FOR LIGHTING PANEL "NPWR-2"	QTY : 1 PC. EQUIP.No. : NF-4 INDOOR DRY 3PH 9KVA 480/240-120V	1981	O			WORKING IN GOOD CONDITION
12.	LIGHTING PANEL FOR W/W RECOVERY PUMP HOUSE	QTY : 1 PC. EQUIP.No. : NPWR-2 INDOOR WALL MOUNTED TYPE RATING 3PH. 3W 240/120V 100A BRANCHES-8 SIZE APPROX. W-H-D	1981	O			WORKING IN GOOD CONDITION
13.	MCC FOR POLYELECTROLYTE MIXER	QTY : 1 PC. EQUIP.No. : NMCH INDOOR SELF STANDING UNITS TYPE RATING 3PH. 4W 480V 600A SIZE APPROX. 1000W-2300H-510D	1981	O			WORKING IN GOOD CONDITION
14.	TRANSFORMER FOR LIGHTING PANEL "NCHP-1"	QTY : 1 PC. INDOOR DRY 3PH. 5KVA 480/240-120V	1981	O			WORKING IN GOOD CONDITION

PLANT No.2 ELECTRICAL EQUIPMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
15.	LIGHTING PANEL FOR POLY-ELECTROLYTE PUMPS & LIGHTING	QTY : 1 PC. EQUIP.No. : NCHP-1 INDOOR WALL MOUNTED TYPE SIZE APPROX. 470W-870H-170D	1981	O			WORKING
16.	LIGHTING PANEL FOR ALUM FEEDER & LIGHTING IN CHEMICAL HOUSE(GF)	QTY : 1 PC. EQUIP.No. : NCHP-2 INDOOR WALL MOUNTED TYPE RATING 3PH. 3W 240/120V 100A BRANCHES-20 SIZE APPROX. 470W-870H-170D	1981	O			WORKING
17.	DISTRIBUTION PANEL FOR CHLORINE EQUIPMENT	QTY : 1 PC. EQUIP.No. : DP-4 INDOOR WALL MOUNTED TYPE RATING 3PH. 3W 240/120V 225A BRANCHES-9 SIZE APPROX. 800W-1400H-220D	1981	O			WORKING IN GOOD CONDITION
18.	DISTRIBUTION PANEL FOR CHLORINE EQUIPMENT	QTY : 1 PC. EQUIP.No. : DP-5 INDOOR WALL MOUNTED TYPE RATING 3PH. 3W 240V 400A BRANCHES-12 SIZE APPROX. 1000W-1500H-220D	1963	O			WORKING IN GOOD CONDITION
19.	TRANSFORMER FOR LIGHTING PANEL(DP-6)	QTY : 1 PC. INDOOR DRY 1PH. 5KVA 240/120V	1981	O			WORKING IN GOOD CONDITION
20.	DISTRIBUTION PANEL FOR CHLORINE EQUIPMENT	QTY : 1 PC. EQUIP.No. : DP-6 INDOOR WALL MOUNTED TYPE RATING 1PH. 2W 120V 50A BRANCHES-8 SIZE APPROX. 500W-700H-220D	1981	O			WORKING IN GOOD CONDITION

PLANT No.2 ELECTRICAL EQUIPMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
21.	STARTER PANEL FOR BOOSTER PUMP No.1 (IN CHLORINE HOUSE)	QTY : 1 PC. INDOOR WALL MOUNTED TYPE SIZE APPROX. 310W-760H-260D	1981			O	NOT WORKING DAMAGED
22.	STARTER PANEL FOR BOOSTER PUMP No.2 (IN CHLORINE HOUSE)	QTY : 1 PC. INDOOR WALL MOUNTED TYPE SIZE APPROX. 310W-760H-260D	1981			O	WORKING CORRODED
23.	STARTER PANEL FOR BOOSTER PUMP No.3 (IN CHLORINE HOUSE)	QTY : 1 PC. INDOOR WALL MOUNTED TYPE SIZE APPROX. 310W-760H-260D	1981			O	DITTO

PLANT No.2 INSTRUMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
1.	INFLUENT FLOW NO1	QTY : 1 SET EQUIP.No. : FRQ-501 PARSHALL FLUME :12 Feet STOP VALVE TRANSMITTER: FLOAT TYPE .DC4-20mA FR/FQ:DC4-20mA. 0-600ML/D	1981			*O	*EXCEPT PARSHALL FLUME NOT WORKING
2.	INFLUENT FLOW NO2	DITTO	1981			*O	DITTO
3.	FILTER NO.2 INFLUENT LEVEL	QTY : 2 SETS EQUIP.No. : LI-504 505 AIR PURGE TYPE TRANSMITTER WITH INDICATOR OUTPUT:0.2-1.0kg/cm <sup>2</sup> FS-0-1.5M	1981				NOT WORKING
4.	FILTER NO.2 RATE OF FLOW FILTER NO.2 RATE OF FLOW	QTY : 20 SETS EQUIP.No. : FIC-511 to 530 VENTURI METER:508 x 303.3mm φ THREE VALVES MANIFOLD,STOP VALVES D/P CELL TRANSMITTER:0-2246mmH <sub>2</sub> O :0.2-1.0kg / cm <sup>2</sup> SQUARE ROOTER INDICATOR( AT LOCAL ) INDICATOR( ON PANEL ) FS:0-65ML/D FLOW CONTROLLER :PILOT VALVE TYPE INPUT SIGNAL :AIR,0.2-1.0kg / cm <sup>2</sup> OUTPUT SIGNAL:WATER	1981			O	NOT AUTOMATICALLY WORKING MANUAL OPERATED

PLANT No.2 INSTRUMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
		QTY : 2 SETS EQUIP.No. : HC-510A 510B RATE OF FLOW SETTING STATION AUTO/MANUAL SELECT TYPE INPUT, OUTPUT SIGNAL: AIR, 0.2-1.0kg / cm <sup>2</sup>				O	NOT WORKING
5.	FILTER NO.2 LOSS OF HEAD	QTY : 20 SETS EQUIP.No. : DPI-531 to 550 THREE VALVE MANIFOLD, STOP VALVE D/P CELL TRANSMITTER: 0.2-1.0kg/cm <sup>2</sup> INDICATOR( AT LOCAL ) INDICATOR( ON PANEL ) FS: 0-4m	1981			O	NOT WORKING
6.	FILTER NO.2 WASHWATER FLOW	QTY : 1 SET EQUIP.No. : FIRQ-601 VENTURI METER: 914X731.5mm φ THREE VALVES MANIFOLD, STOP VALVES D/P CELL TRANSMITTER: 0-2885mmH <sub>2</sub> O : 0.2-1.0kg / cm <sup>2</sup> SQUARE ROOTER INDICATOR( AT LOCAL ) INDICATOR( ON WALL ) FS: 0-220ML/D : 2PCS FR/FQ: 0.2-1.0kg / cm <sup>2</sup> , 0-100ML/D FLOW CONTROLLER : PILOT VALVE TYPE INPUT SIGNAL : AIR, 0.2-1.0kg / cm <sup>2</sup> OUTPUT SIGNAL: WATER	1963 (VENTURI)  1981 (OTHERS)			*O	*EXCEPT VENTURI NOT AUTOMATICALLY WORKING MANUAL OPERATED

PLANT No.2 INSTRUMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
7.	FILTER NO.2 SURFACE WASH-WATER FLOW	QTY : 4 SETS EQUIP.No. : HC-601A to 601D RATE OF FLOW SETTING STATION MANUAL SETTING TYPE OUTPUT SIGNAL: AIR.0.2-1.0kg / cm <sup>2</sup>	1981			O	NOT WORKIG
		QTY : 1 SET EQUIP.No. : FL-602 ORIFICE PLATE: 437mm $\phi$ THREE VALVE MANIFOLD, STOP VALVE INDICATOR: DIRECT READING MANOMETER (INSTALLED AT LOCAL) FLOW CONTROLLER : PILOT VALVE TYPE INPUT SIGNAL : AIR.0.2-1.0kg / cm <sup>2</sup> OUTPUT SIGNAL: WATER	1981			O	MANUAL OPERATED
8.	NO.2 WASHWATER TANK LEVEL	QTY : 1 SET EQUIP.No. : HC-621 RATE OF FLOW SETTING STATION MANUAL SETTING TYPE OUTPUT SIGNAL: AIR.0.2-1.0kg / cm <sup>2</sup> (FOR ON/OFF CONTROL)	1981			O	NOT WORKIG
		QTY : 1 SET EQUIP.No. : LIR-603 TRANSMITTER : ELECTRONIC, PRESSURE TYPE SOURCE: AC220, OUTPUT: DC4-20mA INDICATOR: 0-2m (IN W/W PUMP HOUSE) RECORDER: 0-2m (IN NO.1 FILTER BLDG.)	1981			O	NOT WORKIG

PLANT No.2 INSTRUMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
9.	NO.2 WASHWATER RECOVERY FLOW	QTY : 1 SET EQUIP.No. : LIR-604 TRANSMITTER :PROPELLER TYPE SIZE:914mm $\phi$ PULSE TO CURRENT CONVERTER FR/FQ:DC4-20mA	1981			○	NOT WORKIG
10.	EFFLUENT FLOW (AQUEDUCT "A")	QTY : 1 SET EQUIP.No. : FIRQ-701 TRANSMITTER : MAGNETIC VELOCITY TYPE PIPE SIZE:2134mm $\phi$ Marsh-McBirney MODEL 280 (WITH FI,FR,FQ) CURRENT REPEATER INDICATOR (IN CHLORINE HOUSE) INDICATOR (IN CHMICAL HOUSE) SIGNAL LINE CONNECTION CHLORINATOR,FLOURIDIDE FEEDER	1992 1981 1981 1981 1981	○			WORKING NOT WORKIG
11.	EFFLUENT FLOW (AQUEDUCT "B")	QTY : 1 SET EQUIP.No. : FIRQ-702 TRANSMITTER : MAGNETIC VELOCITY TYPE PIPE SIZE:1829mm $\phi$ Marsh-McBirney MODEL 280 (WITH FI,FR,FQ) CURRENT REPEATER INDICATOR (IN CHLORINE HOUSE) INDICATOR (IN CHMICAL HOUSE) SIGNAL LINE CONNECTION CHLORINATOR,FLUORIDE FEEDER	1992 1981 1981 1981 1981	○		○ ○	WORKING NOT WORKIG

PLANT No.2 INSTRUMENT

NO.	FACILITIES	SPECIFICATION	CONSTRUCTION YEAR	LEVEL			REMARKS
				A	B	C	
12.	EFFLUENT TOTAL FLOW (AQUEDUCT "A" + AQUEDUCT "B")	QTY : 1 SET EQUIP.No. : FYI-701 to 702 SUMMATOR:RELECTRONIC TYPE SUMMATOR INDICATOR (IN FILTER BLDG.)	1981				NOT WORKIG
13.	EFFLUENT FLOW ( TO BOOSTER PUMP HOUSE)	QTY : 1 SET EQUIP.No. : FIRQ-70X TRANSMITTER : MAGNETIC VELOCITY TYPE PIPE SIZE:1219mm $\phi$ Marsh-McBirney MODEL 280 (WITH FL.FR.FO)	1992	O			WORKING
14.	ALUM STORAGE TANK LEVEL	QTY : 5 SETS EQUIP.No. : LI - 001 to 005 TRANSMITTER:PNEUMATIC BALL PRESSURE TYPE INDICATOR: MANOMETER	1981			O	NOT WORKIG









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