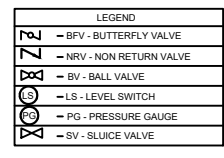
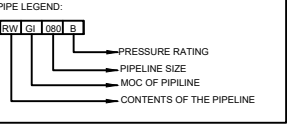


MARK	LINE TYPE	DESCRIPTION
RW	---	RAW WATER
SW	---	SETTLED WATER
AW	---	AERATED WATER
CW	---	CLARIFIED WATER
FW	---	FILTERED WATER
CD	---	CHEMICAL DOSING
SL	---	SLUDGE
BW	---	BACKWASH WATER
DW	---	DRAIN WATER

INSTRUMENTATION SCHEDULE				
MARK	TYPE	DESCRIPTION	RANGE	QTY
PG01-04	PG	RWP DISCHARGE	0-3 kg/cm ²	04
PG05-08	PG	AFP DISCHARGE	0-3 kg/cm ²	04
PG09-12	PG	CFP DISCHARGE	0-3 kg/cm ²	04
PG13-16	PG	FFP DISCHARGE	0-5 kg/cm ²	04
PG17-20	PG	PSF	0-5 kg/cm ²	04
PG21-24	PG	SPF DISCHARGE	0-5 kg/cm ²	04
PG25	PG	SP DISCHARGE	0-3 kg/cm ²	01
PG26	PG	BL DISCHARGE	0-3 kg/cm ²	02

VALVE SCHEDULE					
MARK	SIZE	DESCRIPTION	QTY	TYPE	MOC
V1&V2	300	RWT INLET VALVE	02	NEEDLE	CI
V5-V7	150 NB	RWP DISCHARGE VALVE	03	SLUICE	CI
V8-V11	015 NB	RWP DISCHARGE PG VALVE	04	NEEDLE	SS
V12	040 NB	ADP-I SUCTION VALVE	01	BALL	PP
V13	040 NB	ADP-I SUCTION VALVE	01	BALL	PP
V14	040 NB	ADT-I DELIVERY VALVE	01	BALL	PP
V15	040 NB	ADP-II SUCTION VALVE	01	BALL	PP
V16	040 NB	ADP-II SUCTION VALVE	01	BALL	PP
V17	040 NB	ADT-II DELIVERY VALVE	01	BALL	PP
V20-V22	150 NB	AFP SUCTION VALVE	03	SLUICE	CI
V23-V25	150 NB	AFP DISCHARGE VALVE	03	SLUICE	SS
V26-V29	015 NB	AFP DISCHARGE VALVE	04	NEEDLE	SS
V30-V33	300 NB	AWT SUCTION VALVE	02	SLUICE	CI
V34-V36	200 NB	CFB SUCTION VALVE	03	SLUICE	CI
V37-V39	200 NB	CFB DISCHARGE VALVE	03	SLUICE	CI
V40-V43	015 NB	CFB DISCHARGE VALVE	04	NEEDLE	SS
V44-V45	150 NB	SLUDGE PUMP SUCTION VALVE	02	SLUICE	CI
V46-V47	150 NB	SLUDGE PUMP DISCHARGE VALVE	02	SLUICE	CI
V48	015 NB	CFP DISCHARGE PG VALVE	01	NEEDLE	SS
V49-V50	400 NB	CWT INLET VALVE	02	SLUICE	CI
V51-V52	400 NB	CWT SUCTION VALVE	02	SLUICE	CI
V53-V55	200 NB	FFP SUCTION VALVE	03	SLUICE	CI
V56-V58	150 NB	FFP DISCHARGE VALVE	03	SLUICE	CI
V59-V62	015 NB	FFP DISCHARGE PG VALVE	04	NEEDLE	SS
V63	400 NB	BWP INLET VALVE	01	SLUICE	CI
V64-V68	250 NB	PSF-01 VALVE	05	BUTTERFLY	CI
V69-V70	015 NB	PSF-01 PG VALVE	02	NEEDLE	SS
V71	080 NB	PSF-01 AIR RELEASE VALVE	01	BUTTERFLY	CI
V72	100 NB	PSF-01 DRAIN VALVE	01	BALL	CI
V73-V77	250 NB	PSF-01 VALVE	05	BUTTERFLY	CI
V78-V79	015 NB	PSF-02 DISCHARGE PG VALVE	02	NEEDLE	SS
V80	080 NB	PSF-02 AIR RELEASE VALVE	01	BUTTERFLY	CI
V81	100 NB	PSF-02 DRAIN VALVE	01	BALL	CI
V82-V86	250 NB	ACF-01 VALVE	05	BUTTERFLY	CI
V87-V88	015 NB	ACF-01 DISCHARGE PG VALVE	02	NEEDLE	SS
V89	080 NB	ACF-01 AIR RELEASE VALVE	01	BUTTERFLY	CI
V90	100 NB	ACF-01 DRAIN VALVE	01	BALL	CI
V91-V95	250 NB	ACF-02 VALVE	05	BUTTERFLY	CI
V96-V97	015 NB	ACF-02 DISCHARGE PG VALVE	02	NEEDLE	SS
V98	080 NB	ACF-02 AIR RELEASE VALVE	01	BUTTERFLY	CI
V99	100 NB	ACF-02 DRAIN VALVE	01	BALL	CI
V100	200 NB	PIT SLUICE VALVE	01	SLUICE	CI
V101-V103	200 NB	PSB INLET VALVE	03	BALL	PP
V104	200 NB	CLE SLUICE VALVE	01	SLUICE	CI
V105-V106	040 NB	ADT-I DRAIN VALVE	02	BALL	PP
V107	040 NB	CD INTERCONNECTING VALVE	01	BALL	PP
V108-V113	040 NB	CD LINE VALVES	06	BALL	PP
V114	100 NB	SLUDGE PUMP SUCTION VALVE	01	SLUICE	CI
V115	15 NB	BL DISCHARGE	02	NEEDLE	SS
BFW SR-6R	100 NB	BL DISCHARGE	02	BUTTERFLY	CI
NRV1-3	150 NB	RWR DISCHARGE NRV	03	WAFER	CI
NRV4-5	040 NB	DP-01-02 DISCHARGE NRV	02	BALL TYPE	PP
NRV6-8	150 NB	AFP DISCHARGE NRV	03	WAFER	CI
NRV9-10	300 NB	AWT SUCTION FOOT VALVE	02	BALL TYPE	CI
NRV11-13	300 NB	CFP DISCHARGE NRV	03	WAFER	CI
NRV14-16	150 NB	FFP DISCHARGE NRV	03	WAFER	CI
NRV17-18	400 NB	CWT SUCTION FOOT VALVE	02	BALL TYPE	CI
NRV19	400 NB	TWT SUCTION FOOT VALVE	01	BALL TYPE	CI
NRV20,21	150 NB	SLUDGE PUMP DISCHARGE NRV	02	WAFER	CI



MARK	DESCRIPTION
BL	BELLOWS
BFV	BUTTERFLY VALVE
PABFV	PNEUMATIC ACTUATED BUTTERFLY VALVE
NV	NEEDLE VALVE
BV	BALL VALVE
NRV	NON RETURN VALVE
PG	PRESSURE GAUGE
SLG	SLUICE GATE
V	VALVE
PIT	PRESSURE INDICATOR TRANSMITTER
FIT	FLOW INDICATOR TRANSMITTER
LIT	LEVEL INDICATOR TRANSMITTER
LS	LEVEL SWITCH
FV	FOOT VALVE
MABFV	MOTORISED ACTUATED BUTTERFLY VALVE
PRV	PRESSURE REDUCING VALVE
MV	MOTORISED VALVE
STR	STRAINER
FI	FLOW INDICATOR

Project:	IMPROVEMENT AND MODIFICATION OF FACILITIES IN EXISTING WATER TREATMENT PLANT AT MAHINDRA WORLD CITY.		
Client:	MAHINDRA WORLD CITY.		
Consultant:	Dr. P. Selvaraj - CHENNAI.		
DRAWN	TITLE:		P&I DIAGRAM Existing System
CHECKED			
APPROVED			
DATE			
SCALE	NTS (A3)	DRG NO.	MWC-IWTP-G-009
REVISION	R-0		SHEET NO. 2 of 11