

BOILER AND TG MAIN INSTRUMENT LIST INCLUDING CONTROL VALVE, MOV & TRANSMITTERS

SR.NO	MIL Make CONTROL VALVE with Siemens make smart positioner +position feedback	QTY
1	Drum level control valve 100% [FCV]	2
2	Attemperator control valve [TCV]	2
3	soot blower control [PCV]	1
4	Start up vent [PCV]	1
5	CBD/ IBD Tank level control valve [LCV]	1
6	Deareator pressure control valve [PCV]	1
7	Deareator Level control valve [LCV]	1
8	Deareator PRDS Pressure control valve [PCV]	1
9	Deareator PRDS Temp control valve [TCV]	1
10	Deareator Overflow ON/OFF Valve	1
11	Process PRDS Pressure control valve [PCV]	1
12	Process PRDS Temp control valve [TCV]	1
13	Exhaust line pressure control valve[PCV]	1
14	Dump condencer pressure control valve[PCV]	1
15	Return condensate line 3 Way pneumatic valve	1
	MOTORISED VALVE WITH INTEGRAL BYPASS	
1	Main steam stop valve	1
2	Main steam stop valve integral bypass	1
3	Start up vent upstraem valve	1
4	Soot blower upstream valve	1
5	Soot blower Integral bypass valve	1
6	Soot blower Drain valve	1
7	IBD Blow down valve	1
8	CBD Blow down valve	1
9	100% feed check valve -1 upstream	1
10	100% feed check valve- 1 integral bypass	1
11	100% feed check valve- 2 up stream valve	1
12	100% feed check valve- 2 integral bypass	1
13	Feed pump -1 Discharge line	1
14	Feed pump -2 Discharge line	1
15	Process PRDS PCV Upstream valve	1
16	Process PRDS PCV Upstream valve Integral byp	1
17	Process PRDS PCV Down stream valve	1
18	TG Inlet stop valve	1
19	TG Inlet stop valve integral bypass valve	1
20	Exhaust Line Motorised valve	1
21	Exhaust Line vent motorised valve	1
22	Warm up vent motorised valve	1
23	TG Steam Blowing line motorised valve	1
24	ACW-1 Dischage line	1

25	ACW-2 Discharge line	1
26	MCW- 1 Discharge Line	1
27	MCW- 2 Discharge line	1
28	Dump cpndenser steam inlet MOV	
	Level Transmitter	
1	Drum level transmitter- 1	1
2	Drum level transmitter- 2	1
3	Drum level transmitter- 3	1
4	Deareator Level Transmitter - 1	1
5	Deareator Level Transmitter - 2	1
6	CBD/IBD Tank level transmitter	1
7	Feed tank [condensate recieving]Level Transm	1
8	cooling tower level transmitter [ultrasonic]	1
9	Main oil tank level transmitter	1
10	Over head oil tank level transmitter	1
	Pressure Transmitter	
1	Drum pressure transmitter- 1	1
2	Drum pressure transmitter- 2	1
3	Main steam pressure Transmitter- 1	1
4	Main steam pressure Transmitter- 2	1
5	Main steam pressure Transmitter- 3	1
6	soot blower line pressure Transmitter	1
7	Feed pump header pressure Transmitter	1
8	Deareator pressure transmitter-1	1
9	Deareator pressure transmitter-2	1
10	TG Inlet Steam line Pressure Transmitter- 1	1
11	TG Inlet Steam line Pressure Transmitter- 2	1
12	Exhaust line pressure Transmitter-1	1
13	Exhaust line pressure Transmitter-2	1
14	Deareator PRDS Pressure transmitter- 1	1
15	Deareator PRDS Pressure transmitter- 2	1
16	Process PRDS Pressure Transmitter- 1	1
17	Process PRDS Pressure Transmitter- 2	1
18	Instrument Air Pressure Transmitter	1
19	ACW Header pressure Transmitter	1
20	MCW Header pressure Transmitter	1
21	DM Water line pressur transmitter	1
22	Lube oil pressure transmitter-1	1
23	Lube oil pressure transmitter-2	1
24	Control oil pressure transmitter-1	1
25	Control oil pressure transmitter-2	1
26	Turbine chest pressure transmitter	1
27	Turbine Balance transmitter	As per Siemens standard supply
28	Slop automization PRDSsystem pressure transmitter	1

	DRAFT TRANSMITTER	
1	Furnace pressure draft -1	1
2	Furnace pressure draft -2	1
3	Furnace pressure draft -3	1
4	Boiler First Pass flue gas pressure transmitter	1
5	SSH- 2 Outlet PT	1
6	PSH- 1 Outlet PT	1
7	EVAP- 1 Outlet PT-	1
8	EVAP- 2 Outlet PT-	1
9	EVAP- 3 Outlet PT-	1
10	ECONOMISER outlet PT	1
11	APH Outlet PT	1
12	ESP Outlet PT	1
13	ID- 1 Fan outlet PT	1
14	FD- 1 Fan delivery line PT	1
15	SA FAN- 1 DELIVERY LINE PT	1
16	Plenum hopper - 1 PT	1
17	Plenum hopper -2 PT	1
	FLOW TRANSMITTER	
1	Mainsteam flow- 1	1
2	Mainsteam flow- 2	1
3	Feed water flow-1	1
4	Feed water flow- 2	1
5	Attemperator flow-	1
6	DM Water for Condensate reciever Tank	1
7	Steam flow to Deareator	1
8	Process PRDS FLOW-1	1
9	Process PRDS Flow- 2	1
10	SA Fan Air flow- 1	1
11	FD Fan Air flow- 1	1
12	Turbine inlet steam flow- 1	1
13	Turbine inlet steam flow- 2	1
14	Turbine Exhaust flow to process distillery	1
15	ACW Return flow	1
16	MCW Return flow	1
17	Return condensate line flow	1
18	Dump condenser outlet flow	1
19	Slop Automization system steam flow FT	1
	CONDUCTIVITY ANALYSER for Return condensate	
	Conductivity Analyser , ABB Make- AWT420 Mo	1
	TEMP Transmitter	

	All Temp Transmitter shall be smart type with Display , Field Mount and double chamber Type	
	Slop firings system flow , pressure , Temp , Tank level instruments including firing system valves required for smooth operation	