



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

CRITICALITY EVALUATION OF INSTRUMENT AND MEASURING DEVICE OF UTILITY AREA

S.No.	Name of Instrument/ Measuring Devices	Instrument/ Measuring Devices ID	Utilization	Automation	Impact on product/Quality	Availability of control measures for any discrepancy	Detectability	Factor AxBxCxDxE	Non Critical /Moderate/ Critical
			(A)	(B)	(C)	(D)	(E)	AxBxCxDxE	
Steam Generator									
1	Pressure Gauge		4	4	1	3	3	144	Non Critical
2	Pressure Gauge		4	4	1	3	3	144	Non Critical
3	Pressure Gauge		4	4	1	3	3	144	Non Critical
4	Digital Temperature Controller		4	2	1	3	3	72	Non Critical
5	Digital Temperature Controller		4	2	1	3	3	72	Non Critical
6	Temperature Sensor		4	4	1	3	3	144	Non Critical
7	Temperature Sensor		4	4	1	3	3	144	Non Critical
8	Thermostat		4	2	1	3	3	72	Non Critical
9	Hour Meter		4	4	1	3	3	144	Non Critical
10	Pressure Switch		4	4	1	3	3	144	Non Critical
11	Pressure Switch		4	4	1	3	3	144	Non Critical
Steam Generator									
12	Pressure Gauge		4	4	1	3	3	144	Non Critical
13	Pressure Gauge		4	4	1	3	3	144	Non Critical
14	Pressure Gauge		4	4	1	3	3	144	Non Critical
15	Digital Temperature Controller		4	2	1	3	3	72	Non Critical
16	Digital Temperature Controller		4	2	1	3	3	72	Non Critical
17	Temperature Sensor		4	4	1	3	3	144	Non Critical
18	Temperature Sensor		4	4	1	3	3	144	Non Critical
19	Thermostat		4	2	1	3	3	72	Non Critical



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			(A)	(B)	(C)	(D)	(E)	AxBxCxDxE	
20	Hour Meter		4	4	1	3	3	144	Non Critical
21	Pressure Switch		4	4	1	3	3	144	Non Critical
22	Pressure Switch		4	4	1	3	3	144	Non Critical
Steam Generator									
23	Pressure Gauge		4	4	1	3	3	144	Non Critical
24	Pressure Gauge		4	4	1	3	3	144	Non Critical
25	Pressure Gauge		4	4	1	3	3	144	Non Critical
26	Digital Temperature Controller		4	2	1	3	3	72	Non Critical
27	Digital Temperature Controller		4	2	1	3	3	72	Non Critical
28	Temperature Sensor		4	4	1	3	3	144	Non Critical
29	Temperature Sensor		4	4	1	3	3	144	Non Critical
30	Thermostat		4	2	1	3	3	72	Non Critical
31	Hour Meter		4	4	1	3	3	144	Non Critical
32	Pressure Switch		4	4	1	3	3	144	Non Critical
33	Pressure Switch		4	4	1	3	3	144	Non Critical
Hot Water Generator									
34	Temperature Sensor		4	4	1	3	3	144	Non Critical
35	Temperature Sensor		4	4	1	3	3	144	Non Critical
36	Digital Temperature Controller		4	2	1	3	3	72	Non Critical
37	Digital Temperature Controller		4	2	1	3	3	72	Non Critical
38	Hour Meter		4	4	1	3	3	144	Non Critical



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			(A)	(B)	(C)	(D)	(E)	AxBxCxDxE	
39	Volt Meter		4	3	1	3	3	108	Non Critical
40	Pressure Gauge		4	4	1	3	3	144	Non Critical
41	Compound Gauge		4	3	1	3	3	108	Non Critical
42	Compound Gauge		4	3	1	3	3	108	Non Critical
43	Compound Gauge		4	3	1	3	3	108	Non Critical
Chiller									
44	Pressure Gauge		5	4	1	3	3	180	Moderate
45	Pressure Gauge		5	4	1	3	3	180	Moderate
46	Pressure Gauge		5	4	1	3	3	180	Moderate
47	Pressure Gauge		5	4	1	3	3	180	Moderate
48	Temperature Gauge		5	4	1	3	3	180	Moderate
49	Temperature Gauge		5	4	1	3	3	180	Moderate
50	Temperature Gauge		5	4	1	3	3	180	Moderate
51	Temperature Gauge		5	4	1	3	3	180	Moderate
52	Temperature Indicator with Sensor		5	3	1	3	3	135	Non Critical
53	Temperature Indicator with Sensor		5	3	1	3	3	135	Non Critical
54	Temperature Indicator with Sensor		5	3	1	3	3	135	Non Critical
55	Temperature Indicator with Sensor		5	3	1	3	3	135	Non Critical
56	Temperature Indicator with Sensor		5	3	1	3	3	135	Non Critical
57	Pressure Transmitter		5	3	1	3	3	135	Non Critical
58	Pressure Transmitter		5	3	1	3	3	135	Non Critical



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			(A)	(B)	(C)	(D)	(E)	AxBxCxDxE	
59	Pressure Transmitter		5	3	1	3	3	135	Non Critical
Chiller									
60	Pressure Gauge		5	4	1	3	3	180	Moderate
61	Pressure Gauge		5	4	1	3	3	180	Moderate
62	Pressure Gauge		5	4	1	3	3	180	Moderate
63	Pressure Gauge		5	4	1	3	3	180	Moderate
64	Temperature Gauge		5	4	1	3	3	180	Moderate
65	Temperature Gauge		5	4	1	3	3	180	Moderate
66	Temperature Gauge		5	4	1	3	3	180	Moderate
67	Temperature Gauge		5	4	1	3	3	180	Moderate
68	Temperature Indicator with Sensor		5	3	1	3	3	135	Non Critical
69	Temperature Indicator with Sensor		5	3	1	3	3	135	Non Critical
70	Temperature Indicator with Sensor		5	3	1	3	3	135	Non Critical
71	Temperature Indicator with Sensor		5	3	1	3	3	135	Non Critical
72	Temperature Indicator with Sensor		5	3	1	3	3	135	Non Critical
73	Pressure Transmitter		5	3	1	3	3	135	Non Critical
74	Pressure Transmitter		5	3	1	3	3	135	Non Critical
75	Pressure Transmitter		5	3	1	3	3	135	Non Critical
Chiller									
76	Glass Thermometer		4	4	1	3	3	144	Non Critical
77	Glass Thermometer		4	4	1	3	3	144	Non Critical



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			(A)	(B)	(C)	(D)	(E)	AxBxCxDxE	
78	Glass Thermometer		4	4	1	3	3	144	Non Critical
79	Glass Thermometer		4	4	1	3	3	144	Non Critical
80	Pressure Gauge		4	4	1	3	3	144	Non Critical
81	Pressure Gauge		4	4	1	3	3	144	Non Critical
82	Pressure Gauge		4	4	1	3	3	144	Non Critical
83	Pressure Gauge		4	4	1	3	3	144	Non Critical
84	Temperature Indicator with Sensor		4	3	1	3	3	108	Non Critical
85	Temperature Indicator with Sensor		4	3	1	3	3	108	Non Critical
86	Temperature Indicator with Sensor		4	3	1	3	3	108	Non Critical
87	Temperature Indicator with Sensor		4	3	1	3	3	108	Non Critical
88	Temperature Indicator with Sensor		4	3	1	3	3	108	Non Critical
89	Pressure Transmitter		4	3	1	3	3	108	Non Critical
90	Pressure Transmitter		4	3	1	3	3	108	Non Critical
91	Pressure Transmitter		4	3	1	3	3	108	Non Critical
Chiller									
92	Pressure Gauge		4	4	1	3	3	144	Non Critical
93	Pressure Gauge		4	4	1	3	3	144	Non Critical
94	Pressure Gauge		4	4	1	3	3	144	Non Critical
95	Pressure Gauge		4	4	1	3	3	144	Non Critical
96	Temperature Sensor		4	4	1	3	3	144	Non Critical
97	Temperature Sensor		4	4	1	3	3	144	Non Critical



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			(A)	(B)	(C)	(D)	(E)	AxBxCxDxE	
98	Temperature Sensor		4	4	1	3	3	144	Non Critical
99	Temperature Sensor		4	4	1	3	3	144	Non Critical
100	Temperature Sensor		4	4	1	3	3	144	Non Critical
101	Temperature Sensor		4	4	1	3	3	144	Non Critical
102	Temperature Sensor		4	4	1	3	3	144	Non Critical
103	Temperature Sensor		4	4	1	3	3	144	Non Critical
104	Temperature Sensor		4	4	1	3	3	144	Non Critical
105	Temperature Sensor		4	4	1	3	3	144	Non Critical
106	Temperature Sensor		4	4	1	3	3	144	Non Critical
107	Temperature Sensor		4	4	1	3	3	144	Non Critical
108	Temperature Sensor		4	4	1	3	3	144	Non Critical
109	Temperature Sensor		4	4	1	3	3	144	Non Critical
110	Temperature Sensor		4	4	1	3	3	144	Non Critical
111	Temperature Sensor		4	4	1	3	3	144	Non Critical
Air Drier									
112	Temperature Indicator Controller With Sensor		5	2	4	3	3	360	Critical
113	Thermostat		5	2	4	3	3	360	Critical
114	Pressure Gauge		5	4	4	3	3	720	Critical
115	Pressure Switch		5	4	4	3	3	720	Critical
Air Drier									
116	Temperature Indicator Controller With Sensor		5	2	4	3	3	360	Critical



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			(A)	(B)	(C)	(D)	(E)	AxBxCxDxE	
117	Thermostat		5	2	4	3	3	360	Critical
118	Pressure Gauge		5	4	4	3	3	720	Critical
119	Pressure Switch		5	4	4	3	3	720	Critical
Air Compressor									
120	Temperature Sensor		5	4	4	3	3	720	Critical
121	Pressure Transmitter		5	3	4	3	3	540	Critical
Air Compressor									
122	Pressure Gauge		5	4	4	3	3	720	Critical
123	Pressure Gauge		5	4	4	3	3	720	Critical
124	Digital Temperature Controller		5	2	4	3	3	360	Critical
125	Hour Meter		5	4	4	3	3	720	Critical
126	Temperature Sensor		5	4	4	3	3	720	Critical
127	Pressure Switch		5	4	4	3	3	720	Critical
128	Pressure Switch		5	4	4	3	3	720	Critical
116	Pressure Switch		5	4	4	3	3	720	Critical
Secondary Pump									
117	Pressure Gauge		4	4	1	3	3	144	Non Critical
Secondary Pump									
118	Pressure Gauge		4	4	1	3	3	144	Non Critical
Primary Pump									
119	Pressure Gauge		4	4	1	3	3	144	Non Critical
Primary Pump									



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			(A)	(B)	(C)	(D)	(E)	AxBxCxDxE	
120	Pressure Gauge		4	4	1	3	3	144	Non Critical
Primary Pump									
121	Pressure Gauge		4	4	1	3	3	144	Non Critical
Primary Pump									
122	Pressure Gauge		4	4	1	3	3	144	Non Critical
Primary Pump									
123	Pressure Gauge		4	4	1	3	3	144	Non Critical
Condenser Pump									
124	Pressure Gauge		4	4	1	3	3	144	Non Critical
Condenser Pump									
125	Pressure Gauge		4	4	1	3	3	144	Non Critical
Condenser Pump									
126	Pressure Gauge		4	4	1	3	3	144	Non Critical
Condenser Pump									
127	Pressure Gauge		4	4	1	3	3	144	Non Critical
Condenser Pump									
128	Pressure Gauge		4	4	1	3	3	144	Non Critical
Hot Water Pump									
129	Pressure Gauge		4	4	1	3	3	144	Non Critical
Hot Water Pump									
130	Pressure Gauge		4	4	1	3	3	144	Non Critical



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			(A)	(B)	(C)	(D)	(E)	AxBxCxDxE	
Air Receiver Tank									
131	Pressure Gauge		5	4	2	3	3	360	Critical
132	Pressure Gauge		5	4	2	3	3	360	Critical
133	Pressure Gauge		5	4	2	3	3	360	Critical
134	Pressure Gauge		5	4	2	3	3	360	Critical
135	Pressure Gauge		5	4	2	3	3	360	Critical
136	Pressure Gauge		5	4	2	3	3	360	Critical
Fire Hydrant System									
137	Pressure Gauge		5	4	1	3	3	180	Moderate
Fire Hydrant Pressure Tank									
138	Pressure Gauge		5	4	1	3	3	180	Moderate
139	Pressure Switch		5	4	1	3	3	180	Moderate
140	Pressure Switch		5	4	1	3	3	180	Moderate
141	Pressure Switch		5	4	1	3	3	180	Moderate

Prepared By:
(Signature/Date): _____

Checked By:
(Signature/Date): _____