














































































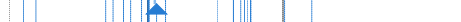




















































































































































Client: Bhogpur Sugar Mill Expansion				15MW Cogeneration Power Plant				EPC: Uttamenergy, Pune - India									
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 1, 2018			Qtr 2, 2018			Qtr 3, 2018			
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1			1 . Bhogpur - 15MW Cogen Power Plant - Engineering schedule	153.38 days	Thu 01-02-18	Thu 16-08-18											
2			1.1 Inputs to EPC Cogen Power Plant engineering	62 days	Thu 01-02-18	Fri 20-04-18											
3			1.1.1 Contract Document	1 day	Thu 01-02-18	Thu 01-02-18											
4			1.1.2 Pressure parts sketch	20 days	Thu 01-02-18	Mon 26-02-18											
5			1.1.3 Plot plan	1 day	Thu 01-02-18	Thu 01-02-18											
6			1.1.4 Topo Survey drawing	20 days	Thu 01-02-18	Mon 26-02-18											
7			1.1.5 Raw water analysis	1 day	Thu 01-02-18	Thu 01-02-18	3SS										
8			1.1.6 Soil resistivity report	1 day	Thu 01-02-18	Thu 01-02-18	3SS										
9			1.1.7 Boiler GA (from Boiler team)	1 day	Wed 28-02-18	Wed 28-02-18	3FS+20 days										
10			1.1.8 Ash distribution chart (from Boiler team)	1 day	Wed 28-02-18	Wed 28-02-18	3FS+20 days										
11			1.1.9 BFP GA with allowable nozzle F&M (Post order)	1 day	Fri 20-04-18	Fri 20-04-18	3FS+60 days										
12			1.2 MBOP Engineering	152.38 days	Fri 02-02-18	Thu 16-08-18											
13			1.2.1 Basic engineering documents	94.5 days	Mon 05-02-18	Tue 05-06-18											
14			1.2.1.1 HBD	1 day	Mon 05-03-18	Mon 05-03-18	76										
15			1.2.1.2 Design basis report	45.5 days	Mon 05-02-18	Tue 03-04-18											
16			1.2.1.2.1 Cooling tower	4 hrs	Wed 07-03-18	Wed 07-03-18	14FS+1 day										
17			1.2.1.2.2 Compressor, Air dryer and Air receiver	1 day	Mon 02-04-18	Tue 03-04-18	44,78FS+1 day										
18			1.2.1.2.3 Water treatment plant	2 hrs	Mon 05-02-18	Mon 05-02-18	7FS+1 day										
19			1.2.1.3 Basic design calculation	32.5 days	Tue 06-03-18	Mon 16-04-18											
20			1.2.1.3.1 IBR Pipe sizing calculation	1 day	Wed 07-03-18	Wed 07-03-18	14FS+1 day										
21			1.2.1.3.2 NIBR Pipe sizing calculation	1 day	Tue 03-04-18	Wed 04-04-18	16,17										
22			1.2.1.3.3 PRDS heat and mass balance	1 hr	Tue 06-03-18	Tue 06-03-18	14										
23			1.2.1.3.4 Pressure drop calculation	1 hr	Thu 08-03-18	Thu 08-03-18	20										
24			1.2.1.3.5 N-Pit sizing calculation	2 hrs	Mon 16-04-18	Mon 16-04-18	250FS+2 days										
25			1.2.1.3.6 BOP Pump head calculation	0.88 days	Wed 07-03-18	Wed 07-03-18											
26			1.2.1.3.6.1 DM transfer pump	3 hrs	Wed 07-03-18	Wed 07-03-18	14FS+1 day										
27			1.2.1.3.6.2 Cooling water pump	3 hrs	Wed 07-03-18	Wed 07-03-18	16										
28			1.2.1.4 Basic engineering drawings	88.5 days	Mon 12-02-18	Tue 05-06-18											
29			1.2.1.4.1 Layout	10 days	Mon 12-02-18	Fri 23-02-18											
30			1.2.1.4.1.1 Plot Plan	7 days	Mon 12-02-18	Tue 20-02-18	3FS+7 days										
31			1.2.1.4.1.2 TG Building layout	7 days	Thu 15-02-18	Fri 23-02-18	3FS+10 days										
32			1.2.1.4.2 Schemes	39 days	Mon 26-02-18	Mon 16-04-18											
33			1.2.1.4.2.1 Sketch for Plant FGL, FFL, TOG levels	4 hrs	Mon 26-02-18	Mon 26-02-18	30,31FS+1 day										
34			1.2.1.4.2.2 Overall Power Plant scheme	1 day	Mon 16-04-18	Mon 16-04-18	43FS+7 days										
35			1.2.1.4.2.3 Water balance diagram	1 day	Wed 28-03-18	Thu 29-03-18	102FS+2 days										
36			1.2.1.4.2.4 Scheme for FHS	3 hrs	Mon 05-03-18	Mon 05-03-18	9FS+2 days										
37			1.2.1.4.2.5 PRDS scheme	3 hrs	Mon 12-03-18	Mon 12-03-18	44FS+1 day										
38			1.2.1.4.3 Assignment drawings	74.5 days	Thu 01-03-18	Tue 05-06-18											
39			1.2.1.4.3.1 Cooling tower basin height basis	2 hrs	Wed 07-03-18	Thu 08-03-18	27										
40			1.2.1.4.3.2 Cooling tower puddle pipe layout	4 hrs	Tue 29-05-18	Wed 30-05-18	238FS+1 day										
41			1.2.1.4.3.3 Plant drain system layout	4 hrs	Thu 01-03-18	Thu 01-03-18	30FS+7 days										
42			1.2.1.4.3.4 Layout of Compressor, Air dryer and Air receiver	4 hrs	Tue 05-06-18	Tue 05-06-18	219FS+1 day										
43			1.2.1.4.4 PIDs	23 days	Thu 08-03-18	Thu 05-04-18											
44			1.2.1.4.4.1 PID of External steam system	2 days	Thu 08-03-18	Fri 09-03-18	14,20										
















































































Page 1














































Client: Bhogpur Sugar Mill Expansion				15MW Cogeneration Power Plant				EPC: Uttamenergy, Pune - India								
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 1, 2018	Feb	Mar	Qtr 2, 2018	May	Jun	Qtr 3, 2018	Aug	Sep
45			1.2.1.4.4.2 PID of DM water system	4 hrs	Wed 04-04-18	Wed 04-04-18	21									
46			1.2.1.4.4.3 PID of Cooling water system	1 day	Wed 04-04-18	Thu 05-04-18	16,21									
47			1.2.1.4.4.4 PID of Compressed air system	4 hrs	Wed 04-04-18	Wed 04-04-18	21									
48			1.2.1.4.4.5 PID of Service water system	4 hrs	Fri 30-03-18	Fri 30-03-18	78									
49			1.2.1.4.4.6 Legends	4 hrs	Thu 05-04-18	Thu 05-04-18	44,45,46,47									
50			1.2.2 Technical specifications for MBOP	110.88 days	Fri 02-02-18	Sat 23-06-18										
51			1.2.2.1 Turbine generator	1 day	Fri 02-02-18	Fri 02-02-18	3									
52			1.2.2.2 Fuel handling system	4 hrs	Fri 02-03-18	Fri 02-03-18	9FS+1 day									
53			1.2.2.3 Ash handling system	4 hrs	Fri 02-03-18	Fri 02-03-18	10FS+1 day									
54			1.2.2.4 Compressor, Air dryer and Air receiver	4 hrs	Wed 04-04-18	Wed 04-04-18	17FS+1 day									
55			1.2.2.5 Cooling tower	4 hrs	Thu 08-03-18	Thu 08-03-18	16FS+0.5 days									
56			1.2.2.6 BOP Pumps - DM Transfer, CT makeup, CW Pump	4 hrs	Thu 08-03-18	Thu 08-03-18	25FS+0.5 days									
57			1.2.2.7 EOT crane	4 hrs	Tue 27-02-18	Tue 27-02-18	31FS+2 days									
58			1.2.2.8 Water treatment plant & ETP	1 day	Mon 05-02-18	Tue 06-02-18	18									
59			1.2.2.9 Piping BOC package	82.88 days	Sat 10-03-18	Sat 23-06-18										
60			1.2.2.9.1 PRDS	1 hr	Mon 12-03-18	Mon 12-03-18	37									
61			1.2.2.9.2 IBR Manual Valves	4 hrs	Sat 10-03-18	Sat 10-03-18	44FS+0.5 days									
62			1.2.2.9.3 Motorised operated valves	0.5 hrs	Sat 10-03-18	Sat 10-03-18	44FS+0.5 days									
63			1.2.2.9.4 NIBR Manual Valves	1 day	Thu 05-04-18	Fri 06-04-18	45,46,47,48FS+0.5 days									
64			1.2.2.9.5 TG warmup vent silencer	1 hr	Sat 10-03-18	Sat 10-03-18	44									
65			1.2.2.9.6 Safety valves	1 hr	Sat 10-03-18	Sat 10-03-18	44									
66			1.2.2.9.7 Steam trap	1 hr	Fri 25-05-18	Fri 25-05-18	291									
67			1.2.2.9.8 Strainer	1 hr	Thu 05-04-18	Thu 05-04-18	46									
68			1.2.2.9.9 Pipes & Fittings	37.5 days	Wed 18-04-18	Tue 05-06-18										
69			1.2.2.9.9.1 Preliminary	4 hrs	Wed 18-04-18	Wed 18-04-18	286,289									
70			1.2.2.9.9.2 Final	1 day	Tue 05-06-18	Tue 05-06-18	291,298									
71			1.2.2.9.10 Fastners, Gaskets and Hardwares	4 hrs	Wed 06-06-18	Wed 06-06-18	70									
72			1.2.2.9.11 Insulation and Claddings	4 hrs	Tue 20-03-18	Tue 20-03-18	286									
73			1.2.2.9.12 Spring supports	3 hrs	Thu 07-06-18	Thu 07-06-18	282									
74			1.2.2.9.13 Primary and Secondary supports	3 hrs	Sat 23-06-18	Sat 23-06-18	309,326									
75			1.2.3 Offer evaluation of MBOP	116.38 days	Wed 07-02-18	Thu 05-07-18										
76			1.2.3.1 Turbine Generator	20 days	Wed 07-02-18	Fri 02-03-18	51FS+2 days									
77			1.2.3.2 Fuel handling system	15 days	Mon 12-03-18	Fri 30-03-18	52FS+7 days									
78			1.2.3.3 Ash handling system	15 days	Mon 12-03-18	Fri 30-03-18	53FS+7 days									
79			1.2.3.4 Compressor, Air dryer and Air receiver	15 days	Sat 14-04-18	Wed 02-05-18	54FS+7 days									
80			1.2.3.5 Cooling tower	15 days	Fri 16-03-18	Thu 05-04-18	55FS+7 days									
81			1.2.3.6 BOP Pumps - DM Transfer, CT makeup, CW Pump	15 days	Fri 16-03-18	Thu 05-04-18	56FS+7 days									
82			1.2.3.7 EOT crane	15 days	Thu 08-03-18	Tue 27-03-18	57FS+7 days									
83			1.2.3.8 Water treatment plant & ETP	15 days	Wed 14-02-18	Tue 06-03-18	58FS+7 days									
84			1.2.3.9 Piping BOC package	84.25 days	Tue 20-03-18	Thu 05-07-18										
85			1.2.3.9.1 PRDS	15 days	Wed 21-03-18	Tue 10-04-18	60FS+7 days									
86			1.2.3.9.2 IBR Manual Valves	30 days	Wed 21-03-18	Fri 27-04-18	61FS+7 days									
87			1.2.3.9.3 Motorised operated valves	30 days	Tue 20-03-18	Fri 27-04-18	62FS+7 days									
88			1.2.3.9.4 NIBR Manual Valves	30 days	Mon 16-04-18	Thu 24-05-18	63FS+7 days									

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Client: Bhogpur Sugar Mill Expansion				15MW Cogeneration Power Plant				EPC: Uttamenergy, Pune - India											
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 1, 2018		Feb	Mar	Qtr 2, 2018		May	Jun	Qtr 3, 2018		Aug	Sep
								Jan				Apr				Jul			
89			1.2.3.9.5 TG warmup vent silencer	7 days	Tue 20-03-18	Wed 28-03-18	64FS+7 days												
90			1.2.3.9.6 Safety valves	15 days	Tue 20-03-18	Mon 09-04-18	65FS+7 days												
91			1.2.3.9.7 Steam trap	7 days	Mon 04-06-18	Tue 12-06-18	66FS+7 days												
92			1.2.3.9.8 Strainer	7 days	Sat 14-04-18	Tue 24-04-18	67FS+7 days												
93			1.2.3.9.9 Spring supports	15 days	Fri 15-06-18	Thu 05-07-18	73FS+7 days												
94			1.2.4 Ordering of MBOP	105.38 days	Tue 13-03-18	Thu 26-07-18													
95			1.2.4.1 Turbine Generator	1 day	Tue 13-03-18	Tue 13-03-18	76FS+7 days												
96			1.2.4.2 Fuel handling system	1 day	Thu 19-04-18	Fri 20-04-18	77FS+15 days												
97			1.2.4.3 Ash handling system	1 day	Thu 19-04-18	Fri 20-04-18	78FS+15 days												
98			1.2.4.4 Compressor, Air dryer and Air receiver	1 day	Wed 23-05-18	Wed 23-05-18	79FS+15 days												
99			1.2.4.5 Cooling tower	1 day	Wed 25-04-18	Thu 26-04-18	80FS+15 days												
100			1.2.4.6 BOP Pumps - DM Transfer, CT makeup, CW Pump	1 day	Wed 25-04-18	Thu 26-04-18	81FS+15 days												
101			1.2.4.7 EOT crane	1 day	Mon 16-04-18	Tue 17-04-18	82FS+15 days												
102			1.2.4.8 Water treatment plant & ETP	1 day	Sat 24-03-18	Mon 26-03-18	83FS+15 days												
103			1.2.4.9 Piping BOC package	78.25 days	Tue 17-04-18	Thu 26-07-18													
104			1.2.4.9.1 PRDS	1 day	Sat 28-04-18	Mon 30-04-18	85FS+15 days												
105			1.2.4.9.2 IBR Manual Valves	1 day	Thu 17-05-18	Thu 17-05-18	86FS+15 days												
106			1.2.4.9.3 Motorised operated valves	1 day	Wed 16-05-18	Thu 17-05-18	87FS+15 days												
107			1.2.4.9.4 NIBR Manual Valves	1 day	Tue 12-06-18	Wed 13-06-18	88FS+15 days												
108			1.2.4.9.5 TG warmup vent silencer	1 day	Tue 17-04-18	Wed 18-04-18	89FS+15 days												
109			1.2.4.9.6 Safety valves	1 day	Fri 27-04-18	Sat 28-04-18	90FS+15 days												
110			1.2.4.9.7 Steam trap	1 day	Mon 02-07-18	Tue 03-07-18	91FS+15 days												
111			1.2.4.9.8 Strainer	1 day	Sat 12-05-18	Mon 14-05-18	92FS+15 days												
112			1.2.4.9.9 Spring supports	1 day	Wed 25-07-18	Thu 26-07-18	93FS+15 days												
113			1.2.5 Post order drawings/documents for MBOP	114.38 days	Fri 23-03-18	Thu 16-08-18													
114			1.2.5.1 Turbine Generator	64 days	Fri 23-03-18	Tue 12-06-18													
115			1.2.5.1.1 Mechanical	64 days	Fri 23-03-18	Tue 12-06-18													
116			1.2.5.1.1.1 PIDs	7 days	Fri 23-03-18	Fri 30-03-18													
117			1.2.5.1.1.1.1 Steam path system	7 days	Fri 23-03-18	Fri 30-03-18	95FS+7 days												
118			1.2.5.1.1.1.2 Turbine condensate system	7 days	Fri 23-03-18	Fri 30-03-18	95FS+7 days												
119			1.2.5.1.1.1.3 Protection system	7 days	Fri 23-03-18	Fri 30-03-18	95FS+7 days												
120			1.2.5.1.1.1.4 LOS system	7 days	Fri 23-03-18	Fri 30-03-18	95FS+7 days												
121			1.2.5.1.1.2 Turbine GA	1 day	Tue 03-04-18	Tue 03-04-18	95FS+15 days												
122			1.2.5.1.1.3 Gearbox GA	1 day	Tue 10-04-18	Tue 10-04-18	95FS+20 days												
123			1.2.5.1.1.4 LOS GA	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days												
124			1.2.5.1.1.5 Oil centrifuge GA	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days												
125			1.2.5.1.1.6 Ejector GA	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days												
126			1.2.5.1.1.7 GSC GA	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days												
127			1.2.5.1.1.8 QCNRV GA	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days												
128			1.2.5.1.1.9 Utility list	1 day	Tue 27-03-18	Tue 27-03-18	95FS+10 days												
129			1.2.5.1.1.10 Piping layout	1 day	Tue 12-06-18	Tue 12-06-18	95FS+70 days												
130			1.2.5.1.1.11 Piping iso drawing	1 day	Tue 12-06-18	Tue 12-06-18	95FS+70 days												
131			1.2.5.1.1.12 Piping support drawing	1 day	Tue 12-06-18	Tue 12-06-18	95FS+70 days												
132			1.2.5.1.1.13 Turbine F&M	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days												

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Client: Bhogpur Sugar Mill Expansion				15MW Cogeneration Power Plant				EPC: Uttamenergy, Pune - India									
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 1, 2018	Feb	Mar	Qtr 2, 2018	Jun	Qtr 3, 2018	Aug	Sep		
								Jan			Apr	May		Jul			
133			1.2.5.1.2 E&I	46 days	Tue 03-04-18	Wed 30-05-18											
134			1.2.5.1.2.1 Alternator GA	1 day	Tue 10-04-18	Tue 10-04-18	95FS+20 days										
135			1.2.5.1.2.2 Alternator Data sheet	1 day	Tue 10-04-18	Tue 10-04-18	95FS+20 days										
136			1.2.5.1.2.3 Generator performance curves	1 day	Tue 10-04-18	Tue 10-04-18	95FS+20 days										
137			1.2.5.1.2.4 Main and Neutral Terminal box GA	1 day	Tue 10-04-18	Tue 10-04-18	95FS+20 days										
138			1.2.5.1.2.5 Aux Terminal box GA	1 day	Tue 10-04-18	Tue 10-04-18	95FS+20 days										
139			1.2.5.1.2.6 CT & PT Calculations	1 day	Tue 10-04-18	Tue 10-04-18	95FS+20 days										
140			1.2.5.1.2.7 SLD	3 days	Tue 03-04-18	Thu 05-04-18	95FS+15 days										
141			1.2.5.1.2.8 Oil centrifuge panel wiring diagram	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days										
142			1.2.5.1.2.9 DC starter panel GA, Resistance calculation and wiring schematic diagram	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days										
143			1.2.5.1.2.10 Barring gear GA and wiring schematic diagram	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days										
144			1.2.5.1.2.11 DC Motor GA, Data sheet and Curves	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days										
145			1.2.5.1.2.12 TSP GA and wiring schematic diagram	3 days	Fri 04-05-18	Tue 08-05-18	95FS+40 days										
146			1.2.5.1.2.13 AVR Panel GA and wiring schematic diagram	2 days	Fri 04-05-18	Mon 07-05-18	95FS+40 days										
147			1.2.5.1.2.14 GRP & GMSP Panel GA and wiring schematic diagram	7 days	Fri 04-05-18	Sat 12-05-18	95FS+40 days										
148			1.2.5.1.2.15 Generator relay parameter setting chart with supporting calculation	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days										
149			1.2.5.1.2.16 JB GA drawing	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days										
150			1.2.5.1.2.17 JB Location drawing	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days										
151			1.2.5.1.2.18 System Write up	1 day	Fri 04-05-18	Fri 04-05-18	95FS+40 days										
152			1.2.5.1.2.19 Feeder List	1 day	Mon 23-04-18	Mon 23-04-18	95FS+30 days										
153			1.2.5.1.2.20 Instrument list	1 day	Mon 23-04-18	Mon 23-04-18	95FS+30 days										
154			1.2.5.1.2.21 IO List	1 day	Mon 23-04-18	Mon 23-04-18	95FS+30 days										
155			1.2.5.1.2.22 Power Cable schedule	2 days	Fri 04-05-18	Mon 07-05-18	95FS+40 days										
156			1.2.5.1.2.23 Control cable schedule	2 days	Fri 04-05-18	Mon 07-05-18	95FS+40 days										
157			1.2.5.1.2.24 Instrumentation cable schedule	2 days	Fri 04-05-18	Mon 07-05-18	95FS+40 days										
158			1.2.5.1.2.25 Control system write up	2 days	Thu 17-05-18	Fri 18-05-18	95FS+50 days										
159			1.2.5.1.2.26 NGR Panel GA and wiring schematic diagram	2 days	Thu 17-05-18	Fri 18-05-18	95FS+50 days										
160			1.2.5.1.2.27 All motors GA, Data sheet and Curves	1 day	Wed 30-05-18	Wed 30-05-18	95FS+60 days										
161			1.2.5.1.2.28 Local gauge board panel GA	1 day	Thu 17-05-18	Thu 17-05-18	95FS+50 days										
162			1.2.5.1.2.29 Instrument hookup drawing	2 days	Thu 17-05-18	Fri 18-05-18	95FS+50 days										
163			1.2.5.1.2.30 Logic diagram	7 days	Thu 17-05-18	Fri 25-05-18	95FS+50 days										
164			1.2.5.1.2.31 Sequence diagram	7 days	Thu 17-05-18	Fri 25-05-18	95FS+50 days										
165			1.2.5.1.3 Civil Input	31 days	Mon 23-04-18	Wed 30-05-18											
166			1.2.5.1.3.1 TG deck load data	1 day	Mon 23-04-18	Mon 23-04-18	95FS+30 days										
167			1.2.5.1.3.2 TG auxiliary load data	1 day	Thu 17-05-18	Thu 17-05-18	95FS+50 days										
168			1.2.5.1.3.3 Cut out and IP detail drawing	1 day	Wed 30-05-18	Wed 30-05-18	95FS+60 days										
169			1.2.5.2 Fuel handling system	54 days	Mon 30-04-18	Mon 09-07-18											
170			1.2.5.2.1 Mechanical	11 days	Mon 30-04-18	Mon 14-05-18											
171			1.2.5.2.1.1 FHS layout	7 days	Mon 30-04-18	Wed 09-05-18	96FS+7 days										




























Client: Bhogpur Sugar Mill Expansion				15MW Cogeneration Power Plant				EPC: Uttamenergy, Pune - India									
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 1, 2018	Feb	Mar	Qtr 2, 2018	May	Jun	Qtr 3, 2018	Aug	Sep	
								Jan			Apr			Jul			
172			1.2.5.2.1.2 Conveyor GA	3 days	Thu 10-05-18	Mon 14-05-18	96FS+15 days										
173			1.2.5.2.1.3 Utiltity list	1 day	Mon 30-04-18	Tue 01-05-18	96FS+7 days										
174			1.2.5.2.2 Civil Inputs	2 days	Tue 22-05-18	Thu 24-05-18											
175			1.2.5.2.2.1 Foundation load data for Conveyors	2 days	Tue 22-05-18	Thu 24-05-18	171FS+10 days										
176			1.2.5.2.3 E&I	46 days	Thu 10-05-18	Mon 09-07-18											
177			1.2.5.2.3.1 Feeder list	1 day	Thu 10-05-18	Fri 11-05-18	96FS+15 days										
178			1.2.5.2.3.2 DCS IO list	1 day	Wed 16-05-18	Thu 17-05-18	96FS+20 days										
179			1.2.5.2.3.3 Field instrument list	1 day	Tue 29-05-18	Wed 30-05-18	96FS+30 days										
180			1.2.5.2.3.4 Belt weigh scale drawing	1 day	Mon 11-06-18	Tue 12-06-18	96FS+40 days										
181			1.2.5.2.3.5 Cable tray layout	1 day	Mon 11-06-18	Tue 12-06-18	96FS+40 days										
182			1.2.5.2.3.6 Control logic diagram	1 day	Mon 11-06-18	Tue 12-06-18	96FS+40 days										
183			1.2.5.2.3.7 System control write up	1 day	Sat 23-06-18	Mon 25-06-18	96FS+50 days										
184			1.2.5.2.3.8 Local panel GA and wiring schematic diagram	1 day	Sat 23-06-18	Mon 25-06-18	96FS+50 days										
185			1.2.5.2.3.9 Motor GA, Data sheet and Curves	1 day	Fri 06-07-18	Mon 09-07-18	96FS+60 days										
186			1.2.5.3 Ash handling system	54 days	Mon 30-04-18	Mon 09-07-18											
187			1.2.5.3.1 Mechanical	26 days	Mon 30-04-18	Fri 01-06-18											
188			1.2.5.3.1.1 Flow diagram of AHS	2 days	Mon 30-04-18	Wed 02-05-18	97FS+7 days										
189			1.2.5.3.1.2 Piping layout	7 days	Tue 15-05-18	Thu 24-05-18	188FS+10 days										
190			1.2.5.3.1.3 Piping support	7 days	Thu 24-05-18	Fri 01-06-18	189										
191			1.2.5.3.1.4 Utility list	1 day	Wed 02-05-18	Thu 03-05-18	188										
192			1.2.5.3.1.5 Ash silo GA	1 day	Thu 10-05-18	Fri 11-05-18	97FS+15 days										
193			1.2.5.3.1.6 Grate ash conveyor GA	1 day	Fri 25-05-18	Sat 26-05-18	189FS+1 day										
194			1.2.5.3.1.7 Equipment GA drawing	1 day	Wed 23-05-18	Thu 24-05-18											
195			1.2.5.3.1.7.1 Ash vessel GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
196			1.2.5.3.1.7.2 Knife gate valve GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
197			1.2.5.3.1.7.3 Expansion Bellow GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
198			1.2.5.3.1.7.4 Relief valve GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
199			1.2.5.3.1.7.5 Surge hopper GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
200			1.2.5.3.1.7.6 Ash conditioner GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
201			1.2.5.3.1.7.7 RAV Valve GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
202			1.2.5.3.1.7.8 Telescopic chute GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
203			1.2.5.3.1.7.9 Vent Bag filter GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
204			1.2.5.3.1.7.10 Air receiver GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
205			1.2.5.3.1.7.11 Fludising pad GA	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
206			1.2.5.3.2 Civil inputs	10 days	Wed 30-05-18	Tue 12-06-18											
207			1.2.5.3.2.1 Civil load data for Grate ash conveyor, Ash vessels and Pipe rack	1 day	Mon 11-06-18	Tue 12-06-18	189,190FS+7 days										
208			1.2.5.3.2.2 Civil load data for Ash silo	1 day	Wed 30-05-18	Thu 31-05-18	192FS+15 days										
209			1.2.5.3.3 E&I	46 days	Thu 10-05-18	Mon 09-07-18											
210			1.2.5.3.3.1 Pneumatic circuit diagram	1 day	Mon 18-06-18	Tue 19-06-18	97FS+45 days										
211			1.2.5.3.3.2 Feeder list	1 day	Thu 10-05-18	Fri 11-05-18	97FS+15 days										
212			1.2.5.3.3.3 IO list	1 day	Wed 16-05-18	Thu 17-05-18	97FS+20 days										
213			1.2.5.3.3.4 Field instrument list	1 day	Wed 23-05-18	Thu 24-05-18	97FS+25 days										
214			1.2.5.3.3.5 System control write up	1 day	Mon 18-06-18	Tue 19-06-18	97FS+45 days										
215			1.2.5.3.3.6 Logic diagram	1 day	Sat 23-06-18	Mon 25-06-18	97FS+50 days										

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Client: Bhogpur Sugar Mill Expansion				15MW Cogeneration Power Plant				EPC: Uttamenergy, Pune - India									
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 1, 2018	Feb	Mar	Qtr 2, 2018	May	Jun	Qtr 3, 2018	Aug	Sep	
								Jan			Apr			Jul			
216			1.2.5.3.3.7 Motor GA, Data sheet and Curves	1 day	Fri 06-07-18	Mon 09-07-18	97FS+60 days										
217			1.2.5.3.3.8 Local control panel GA and wiring schematic diagram	1 day	Sat 23-06-18	Mon 25-06-18	97FS+50 days										
218			1.2.5.4 Compressor, Air dryer and Air receiver	9 days	Fri 01-06-18	Tue 12-06-18											
219			1.2.5.4.1 Mechanical	1 day	Fri 01-06-18	Fri 01-06-18											
220			1.2.5.4.1.1 Compressor GA	1 day	Fri 01-06-18	Fri 01-06-18	98FS+7 days										
221			1.2.5.4.1.2 Air dryer GA	1 day	Fri 01-06-18	Fri 01-06-18	98FS+7 days										
222			1.2.5.4.1.3 Air receiver GA	1 day	Fri 01-06-18	Fri 01-06-18	98FS+7 days										
223			1.2.5.4.2 E&I	9 days	Fri 01-06-18	Tue 12-06-18											
224			1.2.5.4.2.1 Electrical wiring diagram	1 day	Tue 12-06-18	Tue 12-06-18	98FS+15 days										
225			1.2.5.4.2.2 Compressor internal PID	1 day	Fri 01-06-18	Fri 01-06-18	98FS+7 days										
226			1.2.5.5 Cooling tower	24 days	Fri 04-05-18	Tue 05-06-18											
227			1.2.5.5.1 Mechanical	7 days	Fri 04-05-18	Mon 14-05-18											
228			1.2.5.5.1.1 Cooling tower GA	7 days	Fri 04-05-18	Mon 14-05-18	99FS+7 days										
229			1.2.5.5.1.2 Cooling tower data sheet	1 day	Wed 09-05-18	Thu 10-05-18	99FS+10 days										
230			1.2.5.5.1.3 Thermal data sheet	1 day	Wed 09-05-18	Thu 10-05-18	99FS+10 days										
231			1.2.5.5.2 Civil Input	1 day	Tue 15-05-18	Wed 16-05-18											
232			1.2.5.5.2.1 Foundation load data for Cooling tower	1 day	Tue 15-05-18	Wed 16-05-18	99FS+15 days										
233			1.2.5.5.3 E&I	11 days	Tue 22-05-18	Tue 05-06-18											
234			1.2.5.5.3.1 Lightning arrestor layout (if required)	1 day	Tue 22-05-18	Wed 23-05-18	99FS+20 days										
235			1.2.5.5.3.2 Motor GA, Data sheet and Curve	1 day	Mon 04-06-18	Tue 05-06-18	99FS+30 days										
236			1.2.5.6 BOP Pumps - DM Transfer, CT makeup, CW Pump	20 days	Tue 15-05-18	Sat 09-06-18											
237			1.2.5.6.1 Mechanical	10 days	Tue 15-05-18	Mon 28-05-18											
238			1.2.5.6.1.1 Pump GA and Load data	10 days	Tue 15-05-18	Mon 28-05-18	100FS+15 days										
239			1.2.5.6.1.2 Pump Data sheet and Performance & TS curve	10 days	Tue 15-05-18	Mon 28-05-18	100FS+15 days										
240			1.2.5.6.2 E&I	10 days	Mon 28-05-18	Sat 09-06-18											
241			1.2.5.6.2.1 Motor GA, Data sheet and Curves	10 days	Mon 28-05-18	Sat 09-06-18	100FS+25 days										
242			1.2.5.7 EOT crane	24 days	Thu 26-04-18	Sat 26-05-18											
243			1.2.5.7.1 Mechanical	24 days	Thu 26-04-18	Sat 26-05-18											
244			1.2.5.7.1.1 GA drawing	10 days	Thu 26-04-18	Wed 09-05-18	101FS+7 days										
245			1.2.5.7.1.2 Gantry girder drawing	7 days	Thu 17-05-18	Sat 26-05-18	244FS+7 days										
246			1.2.5.7.2 Electrical	1 day	Thu 17-05-18	Fri 18-05-18											
247			1.2.5.7.2.1 Electrical wiring diagram for EOT Crane	1 day	Thu 17-05-18	Fri 18-05-18	244FS+7 days										
248			1.2.5.8 Water treatment plant & ETP	54 days	Wed 04-04-18	Tue 12-06-18											
249			1.2.5.8.1 Mechanical	14 days	Wed 04-04-18	Mon 23-04-18											
250			1.2.5.8.1.1 PID	7 days	Wed 04-04-18	Fri 13-04-18	102FS+7 days										
251			1.2.5.8.1.2 Equipment Layout	7 days	Mon 09-04-18	Tue 17-04-18	102FS+10 days										
252			1.2.5.8.1.3 Equipment GA	1 day	Fri 20-04-18	Mon 23-04-18	102FS+20 days										
253			1.2.5.8.2 Civil Inputs	7 days	Fri 20-04-18	Mon 30-04-18											
254			1.2.5.8.2.1 Civil load data of equipments	7 days	Fri 20-04-18	Mon 30-04-18	102FS+20 days										
255			1.2.5.8.3 E&I	41 days	Fri 20-04-18	Tue 12-06-18											
256			1.2.5.8.3.1 Feeder list	1 day	Fri 20-04-18	Mon 23-04-18	102FS+20 days										
257			1.2.5.8.3.2 IO List	1 day	Thu 03-05-18	Fri 04-05-18	102FS+30 days										
258			1.2.5.8.3.3 Instrumentation List	1 day	Thu 03-05-18	Fri 04-05-18	102FS+30 days										
259			1.2.5.8.3.4 Motor GA, Data sheet and Curves	1 day	Mon 11-06-18	Tue 12-06-18	102FS+60 days										

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Client: Bhogpur Sugar Mill Expansion				15MW Cogeneration Power Plant				EPC: Uttamenergy, Pune - India								
ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 1, 2018 Jan	Feb	Mar	Qtr 2, 2018 Apr	May	Jun	Qtr 3, 2018 Jul	Aug	Sep
301			1.2.6.2.3.3 Sample cooler piping	1 day	Mon 04-06-18	Mon 04-06-18	302									
302			1.2.6.2.3.4 Turbine Drain piping	1 day	Fri 01-06-18	Fri 01-06-18	303									
303			1.2.6.2.3.5 DM transfer Pump suction and discharge piping	1 day	Thu 31-05-18	Thu 31-05-18	307									
304			1.2.6.2.3.6 Cooling water pump suction & discharge piping	2 days	Sat 26-05-18	Mon 28-05-18	291FS+0.5 days									
305			1.2.6.2.3.7 Cooling water supply piping	1 day	Sat 26-05-18	Sat 26-05-18	291FS+0.5 days									
306			1.2.6.2.3.8 Cooling water return piping	1 day	Sat 26-05-18	Sat 26-05-18	291FS+0.5 days									
307			1.2.6.2.3.9 Compressed air system piping	2 days	Tue 29-05-18	Wed 30-05-18	304,305,306									
308			1.2.6.2.3.10 Service water piping	1 day	Mon 04-06-18	Mon 04-06-18	302									
309			1.2.6.2.4 Primary support drawings	7 days	Mon 11-06-18	Wed 20-06-18										
310			1.2.6.2.4.1 BFP Suction piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
311			1.2.6.2.4.2 BFP Discharge piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
312			1.2.6.2.4.3 Main steam piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
313			1.2.6.2.4.4 Turbine extraction steam piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
314			1.2.6.2.4.5 Deaerator steam piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
315			1.2.6.2.4.6 Process steam piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
316			1.2.6.2.4.7 DM makeup water piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
317			1.2.6.2.4.8 Deaerator Overflow and Drain piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
318			1.2.6.2.4.9 Sample cooler piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
319			1.2.6.2.4.10 Turbine Drain piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
320			1.2.6.2.4.11 DM transfer Pump suction and discharge piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
321			1.2.6.2.4.12 Cooling water pump suction & discharge piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
322			1.2.6.2.4.13 Cooling water supply piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
323			1.2.6.2.4.14 Cooling water return piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
324			1.2.6.2.4.15 Compressed air system piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
325			1.2.6.2.4.16 Service water piping	7 days	Mon 11-06-18	Wed 20-06-18	285FS+1 day									
326			1.2.6.2.5 Secondary support drawing	3 days	Wed 20-06-18	Sat 23-06-18	309									
327			1.2.6.2.6 Miscellaneous drawings	67 days	Tue 20-03-18	Wed 13-06-18										
328			1.2.6.2.6.1 Steam blowing piping	1 day	Mon 11-06-18	Mon 11-06-18	285FS+0.5 days									
329			1.2.6.2.6.2 Target Plate assembly drawing	0.5 days	Mon 11-06-18	Mon 11-06-18	285FS+0.5 days									
330			1.2.6.2.6.3 Insert plate layout drawing	2 days	Mon 11-06-18	Tue 12-06-18	287FS+0.5 days									
331			1.2.6.2.6.4 Insert plate fabrication drawing	0.5 days	Wed 13-06-18	Wed 13-06-18	330									
332			1.2.6.2.6.5 Pipe cross over and platform	1 day	Mon 11-06-18	Tue 12-06-18	287FS+1 day									
333			1.2.6.2.6.6 General notes and Legends	1 hr	Tue 20-03-18	Tue 20-03-18	286									
334			1.2.6.2.6.7 Welding standard details	2 hrs	Tue 20-03-18	Tue 20-03-18	286									
335			1.2.6.2.6.8 Thermowell boss detail	4 hrs	Tue 20-03-18	Tue 20-03-18	286									