Annexure-III

HP Network Details

Sr no.	Supplier	Temp (Deg C)	Flow (MMSCMD)	Pressure (barg)	
1	RGTIL	55	Max Pressure		94.5
2	Petronet	5	Max Pressure		85
3	ONGC	50	Max Flow	0.069	93
4	Mundra LNG	20	Max Pressure		88
5	Swan 1	15	Max Pressure		94
6	Chhara1	15	Max Pressure		94.1

HP Network Details

Sr no.	Entry Point	Carbon Dioxide (CO2) percent	Methane percent	Ethane percent	Propane percent	I - Butane percent	n- Butane percent	I - Pentane percent	n- Pentane percent	C6+ percent	Nitrogen percent
1	Petronet	0.00	97.18	1.90	0.43	0.07	0.10	0.00	0.00	0.00	0.32
2	RGTIL	0.23	98.86	0.34	0.19	0.05	0.04	0.02	0.01	0.04	0.23
3	ONGC	0.17	97.87	0.23	0.01	0.01					1.72
4	Mundra LNG	0.00	92.43	6.83	0.51	0.09	0.07	0.00	0.00	0.00	0.07
5	GIGL Palanpur	0.02	84.17	10.55	3.01	1.03	0.60	0.17	0.11	0.07	0.25
6	Swan 1		94.18	5.23	0.45	0.06	0.05	0.00	0.00	0.00	0.03
	Chhara1		94.18	5.23	0.45	0.06	0.05	0.00	0.00	0.00	0.03

HP network

Sr no.	Node Name	Elevation (m)
1	Mora_Node	87.22
2	Torrent_Node	104.51
3	Sajod_Node	111.88
4	GGCL_Node	111.88
5	Paguthan_Node	116.74
6	GNFC_Node	108.07
7	NTPCJanore_Node	121.74
8	Barodasherkhi_Node	198.92
9	Dhanora Terminal	201.95
10	GSFC_Node	185.55
11	Gorwa	124.95
12	BAKPL-Gandhinagar	167.83
13	kalol_Node	165.59
14	Himmatnagar_Node	245.22
15	Ratanpar	153.24
16	Rajkot-Gauridad-RJPL	113
17	RIL-N1	170
18	Tana_Node	135.93
19	GPPC-Pipavav_Node	110.93
20	Thangadh-SV1-Morbi spur	160.15
21	jetparda-Wankaner_Node-Morbi spurline	274.89
22	SV-2+TOP2+Hirapar+MMPL	87.84
23	Kharapaswaria-MMPL	176.2
24	Mehsana_Node	190.22
25	Halol_Node	136.9
26	Petronet_Node	103
27	GACL_Node	109.19
28	Vapi_Node-2	130.78
29	CH35.66	85.35
30	Palanpur cust	76.955
31	Gatrad	159.2
32	Darod-Node	94
33	Olpad node	103.1
34	ARPL-Sudamada	114
35	bhrugupur	149.52
36	Bhadbhut_Node	115.2
37	Sidhpur node	130.25

38	MVPL CH102.863	70.21
39	MVPL CH72.474	70.21
40	CH60.815	70.21
41	CH40.074	77.78
42	CH3.55	123.21
43	CH30.023	92.93
44	CH20.6	105
45	Raymond node	103.45
46	CH13.58	108.07
47	Welspun	108.07
48	GPEC node	115.28
49	Paguthan-GNFC	116.4
50	GSFC+Adani	193.99
51	Suz-node	139.05
52	Dhuvaran_Node-2	116.33
53	Dabhan	160.64
54	Chappara	159.27
55	BAKPL-Ranason	163.5
56	BAKPL-VALAD	163.5
57	IFFCO node	172.117
58	santej node	153.62
59	KHPL-Node-1	160.95
60	KMPL- Kadi	169
61	KMPL-Mandli	177.9
62	Bhesaram	114.12
63	vilayat-Jubilant-Node	1.29
64	Kelod	124.27
65	Vadhela	124.53
66	Samdhiyala-node	62.84
67	DJPL-Meglana	21.902
68	Vartej1	8.85
69	Isharvada	98
70	Nava-Kataria-SV3-MMPL	135.8
71	Sumangal-node	109.93
72	Vondh-SV4-MMPL	155.2
73	Euro-node	110.93
74	Bhimasar-SV5-MMPL	165.5
75	Motimaladi	156.32
76	AEC node	165.28

77	Ochhan	117.645
78	GGL Palej Node	146.55
79	Steelco node	140
80	ICT tap	118.7
81	cosmo node	118.9
82	SV4-chella-RJPL	115
83	GSFCspur1	150
84	RIL-Jamnagar	190
85	BGPL-Ochhan	126.58
86	Serkhi_Node	131.58
87	Anjar-Node	137.89
88	Petronet_Node-2	102.35
89	Sumangal-N1	109.93
90	Nirma node	142.55
91	Suzlon-N	146.32
92	Nano node	27.812
93	chimique cst node	12.3
94	Bhadari node	118.5
95	hadala	87
96	Essar-N1-2	28
97	Bhadar-N1	22.29
98	Piramal node	9.73
99	Node1269	70.21
100	MVPL CH102.863-2	70.21
101	Node1277	70.21
102	Silvai	105.02
103	Indiansteel-Node	176.2
104	ratnamani-node	176.2
105	metrade-Node	176.2
106	Node1308-2	134.25
107	Anklav-node	133.57
108	Node1358	129.14
109	SV-1+Gala+MMPL	170.8
110	Takarwada Node	90.15
111	Becharaji Node	42
112	SV1-fatehpura- node	85.83
113	SV2-ghirojpura node	62.685
114	Honda Node	45
115	Maruti node	48

116	Maruti CST node	47
117	Amreli1	125.244
118	Lonthpur	112.93
119	Gundala1	62
120	Dahod node	371.895
121	Thasara node	108.239
122	Bhodigodi	60.343
123	Ambardi	152.279
124	Node1397-2	124.9874
125	Node1419	123.20602
126	Ratatalav-ABPL-18	48.76
127	Bhuj	132.69
128	SV-1-ABPL	102.367
129	Parle node	126.756
130	Banas node	208.05
131	Ineos node	65.666
132	Ineos CST node	79.985
133	Panchmahal node	142.18
134	Panchmahal Cst Node	149.47
135	Rochling-node	139.439
136	Iffco- node	172
137	JCT-node	119.8
138	GGL vapi node	123.156
139	Eklere shrikrishna	130.78
140	sarigam GIDC	130.78
141	Node1377-2	88.144
142	Shah alloy node	54.106
143	Birla_Node	109.19
144	Node1512-2	109.19
145	BASF node	109.19
146	styrolution node	109.19
147	GGL Dahej-node	109
148	Roxul-node	109.19
149	Sarju node	85.35
150	Dic - node	109
151	Torrent DGEN node	4.29
152	SEZ I node	109.19
153	OPAL CST node	2.8
154	Node1410	85

155	SEZ-I- node	109.19
156	GNFC Hot tap - node	114.537
157	china steel cst node	1.9
158	Nano CNG node	27.812
159	GGL Vadhela Node	10.99
160	Node1479	103
161	Node1711	103
162	Node1712	103
163	GNFC CST node	3.95
164	Ramacylinder	15.4
165	GSFC-cst-node	3.01
166	GGLsaparpatia	20.27
167	GGLpalitana1	54.385
168	toyo-navin-convergence node	8.437
169	Uttran node	98.5
170	Bhadbhut-node	102.12
171	mundraLNG	7
172	Node2115	73.748619
173	Rochling Cst node	139.439
174	IRM node	190
175	IRM cst node	190.15
176	Node0193	339
177	Node0091-4	339
178	Node2153	339
179	Node2161	120.8879
180	Node2166	109.19
181	Node2169	109.19
182	Node2170	103.1
183	Node2176	109.19
184	Node2177	117.645
185	Node2183	155.2
186	Node2186	165.5
187	Node2190	110.93
188	Node2190-2	110.93
189	Node2197	339
190	Thangadh-SV1-Mo-2	160.15
191	Rochling-node-2	139.439
192	Rochling-node-3	139.439
193	Vondh-SV4-MMPL-2	155.2

194	Node2215	89.901341
195	Vartej1-2	8.85
196	Ratanpar-2	153.24
197	Node2215-2	89.901341
198	Node2215-3	89.901341
199	Amreli1-2	125.244
200	Node2215-4	89.901341

HP Network Details

Sr no.	Pipeline			Length (km)	Inside diameter (mm)	Wall Thickness (mm)
1	GSPL 1	CH35.66	CH40.074	4.414	730.96	15.52
2	GSPL 2	Torrent_Node	Sajod_Node	35	586.16	11.72
3	GSPL 3	Sajod_Node	GGCL_Node	5.5	439.8	8.7
4	GSPL 4	Sajod_Node	Bhadbhut_Node	12.5	585.8	11.9
5	GSPL 5	Bhadbhut_Node	Paguthan_Node	25.74	584.6	12.5
6	GSPL 6	Paguthan_Node	Paguthan-GNFC	1	308.05	14.86
7	GSPL 7	Paguthan_Node	NTPCJanore_Node	12.52	584.8	12.4
8	GSPL 8	Barodasherkhi_Node	Dhanora Terminal	5.5	585.72	11.94
9	GSPL 9	Dhanora Terminal	GSFC_Node	11.3	583.98	12.81
10	GSPL 10	Barodasherkhi_Node	Anklav-node	14	586.2	11.7
11	GSPL 11	Anklav-node	Gorwa	18.51	439.28	
12	GSPL 12	Anklav-node	Node2153	16.11	586.2	11.7
13	GSPL 13	Node2197	Dabhan	27.03	586.2	11.7
14	GSPL 14	BAKPL-Gandhinagar	IFFCO node	12.452	586.2	11.7
15	GSPL 15	kalol_Node	KHPL-Node-1	53.8	311.01	6.42
16	GSPL 16	kalol_Node	KMPL- Kadi	6.7	439.72	8.74
17	GSPL 17	Ratanpar	Motimaladi	20.566	587.168	11.216
18	GSPL 18	Rajkot-Gauridad-RJPL	Bhodigodi	21.75	734	14
19	GSPL 19	Tana_Node	Lonthpur	103.38	587.58	11.9
20	GSPL 20	Ratanpar	Thangadh-SV1-Morbi spur	24.3	439.72	8.74
21	GSPL 21	Thangadh-SV1-Morbi spur	jetparda-Wankaner_Node-Morbi spurline	19.62	439.72	8.74
22	GSPL 22	jetparda-Wankaner_Node-Morbi spurline	SV-1+Gala+MMPL	11.935	439.72	8.74
23	GSPL 23	SV-2+TOP2+Hirapar+MMPL	Node2161	19.84	439.28	8.96
24	GSPL 24	Gatrad	BAKPL-Ranason	14.242	586.2	11.7
25	GSPL 25	IFFCO node	kalol_Node	6.46	586.2	11.7
26	GSPL 26	GSFC_Node	Suz-node	11.4	310.67	6.59
27	GSPL 27	Petronet_Node	GACL_Node	7.49	734.4	14.71
28	GSPL 28	GACL_Node	SEZ-I- node	1.83	734.4	11.9

29	GSPL 29	Darod-Node	Vadhela	38.835	587.58	11.9
30	GSPL 30	Bhadbhut-node	Bhesaram	11.327	733.8	14.1
31	GSPL 31	Node2153	Silvai	15.4	587.168	11.216
32	GSPL 32	CH35.66	CH30.023	5.637	730.96	15.52
33	GSPL 33	Sidhpur node	Takarwada Node	12.84	439.6	8.7
34	GSPL 34	Paguthan_Node	Ochhan	21	584.32	12.64
35	GSPL 35	Olpad node	Torrent_Node	6.38	586.16	11.72
36	GSPL 36	bhrugupur	ARPL-Sudamada	22.15	587.168	11.216
37	GSPL 37	Isharvada	Node2215	36.79	587.168	11.216
38	GSPL 38	ARPL-Sudamada	Ratanpar	24.904	587.168	11.216
39	GSPL 39	Darod-Node	bhrugupur	17.65	587.168	11.216
40	GSPL 40	Mehsana_Node	Sidhpur node	50.24	439.6	8.7
41	GSPL 41	MVPL CH102.863	MVPL CH102.863-2	3.788	730.96	15.52
42	GSPL 42	Node1269	MVPL CH102.863	19.144	730.96	15.52
43	GSPL 43	CH60.815	Node1277	5.8295	730.96	15.52
44	GSPL 44	CH40.074	CH60.815	19.847	730.96	15.52
45	GSPL 45	Node1277	MVPL CH72.474	5.8295	730.96	15.52
46	GSPL 46	CH3.55	Vapi_Node-2	3.494	730.96	15.52
47	GSPL 47	CH30.023	CH20.6	9.416	730.96	15.52
48	GSPL 48	CH20.6	CH13.58	7.025	730.96	15.52
49	GSPL 49	CH20.6	Raymond node	1.56	155.475	15.52
50	GSPL 50	CH13.58	CH3.55	10.031	730.96	15.52
51	GSPL 51	CH13.58	Welspun	3.18	155.475	6.4
52	GSPL 52	CH3.55	GGL vapi node	6.5	311.05	15.52
53	GSPL 53	Paguthan_Node	GPEC node	3.45	579.88	12.5
54	GSPL 54	Paguthan-GNFC	GNFC_Node	0.53	308.05	14.86
55	GSPL 55	GSFC_Node	GSFC+Adani	1	583.98	6.59
56	GSPL 56	Suz-node	Halol_Node	25.57	310.67	6.59
57	GSPL 57	Gorwa	Dhuvaran_Node-2	11.75	439.28	8.7
58	GSPL 58	Dabhan	Chappara	12.793	586.2	11.7
59	GSPL 59	Chappara	Gatrad	21.655	586.2	11.7
60	GSPL 60	BAKPL-Ranason	BAKPL-VALAD	3.174	586.2	11.7
61	GSPL 61	BAKPL-VALAD	BAKPL-Gandhinagar	6.184	586.2	11.7

62	GSPL 62	IFFCO node	santej node	15.22	299.71	13.8
63	GSPL 63	KHPL-Node-1	Himmatnagar_Node	6.89	311.01	6.42
64	GSPL 64	KMPL- Kadi	KMPL-Mandli	17.4	439.72	8.74
65	GSPL 65	KMPL-Mandli	Mehsana_Node	16.46	439.72	8.74
66	GSPL 66	Bhesaram	Kelod	10.673	733.8	14.1
67	GSPL 67	Bhesaram	vilayat-Jubilant-Node	2.47	308.05	12.7
68	GSPL 68	Kelod	BGPL-Ochhan	22.028	733.8	14.1
69	GSPL 69	Vadhela	DJPL-Meglana	40.602	587.58	11.9
70	GSPL 70	Vadhela	GGL Vadhela Node	5.1	205.915	8.7
71	GSPL 71	DJPL-Meglana	Tana_Node	22.37	587.58	11.9
72	GSPL 72	DJPL-Meglana	Vartej1	14.3	308.75	8.7
73	GSPL 73	Nava-Kataria-SV3-MMPL	Vondh-SV4-MMPL	23.246	439.28	8.96
74	GSPL 74	Nava-Kataria-SV3-MMPL	Sumangal-node	1.9	206.035	8.96
75	GSPL 75	Vondh-SV4-MMPL	Bhimasar-SV5-MMPL	24.913	439.28	8.96
76	GSPL 76	Node2183	Euro-node	4	311.05	6.4
77	GSPL 77	Bhimasar-SV5-MMPL	Kharapaswaria-MMPL	16.952	439.28	8.96
78	GSPL 78	Kharapaswaria-MMPL	Anjar-Node	3.95	309.63	8.96
79	GSPL 79	Motimaladi	Rajkot-Gauridad-RJPL	32.99	587.168	11.216
80	GSPL 80	Gatrad	AEC node	5	436.6	10.3
81	GSPL 81	Mora_Node	Olpad node	18	586.16	11.72
82	GSPL 82	Ochhan	Bhadari node	20.95	584.32	12.64
83	GSPL 83	GGL Palej Node	Steelco node	0.397	155.235	12.5
84	GSPL 84	Node2177	GGL Palej Node	10.283	155.235	12.5
85	GSPL 85	Node2177	ICT tap	7.799	152.695	6.4
86	GSPL 86	ICT tap	cosmo node	3.786	152.695	6.4
87	GSPL 87	SV4-chella-RJPL	GSFCspur1	10.518	734	14
88	GSPL 88	GSFCspur1	GGLsaparpatia	14	205.475	6.4
89	GSPL 89	GSFCspur1	RIL-N1	11.392	734	14
90	GSPL 90	RIL-N1	RIL-Jamnagar	1.424	734	14
91	GSPL 91	BGPL-Ochhan	Node1358	18.4	733.8	14.1
92	GSPL 92	Serkhi_Node	Node1308-2	16.82	733.8	14.1
93	GSPL 93	Node1308-2	Node2153	16.952	733.8	14.1
94	GSPL 94	Petronet_Node-2	Petronet_Node	1	734.4	14.71

95	GSPL 96	Sumangal-node	Sumangal-N1	2.5	206.035	8.96
96	GSPL 97	Suz-node	Rochling-node	4	206.035	6.59
97	GSPL 98	Nirma node	Suzlon-N	19.35	206.035	6.59
98	GSPL 99	santej node	Shah alloy node	2.619	309.63	7.9
99	GSPL 100	Node2186	Ramacylinder	0.597	155.475	6.4
100	GSPL 101	Bhadari node	Barodasherkhi_Node	22.05	584.32	12.64
101	GSPL 102	hadala	Darod-Node	24.15	587.168	11.216
102	GSPL 103	RIL-N1	Essar-N1-2	6.695	734	14
103	GSPL 104	Bhadari node	Bhadar-N1	25.5	310.91	7.9
104	GSPL 105	MVPL CH72.474	Node1269	8.322	730.96	15.52
105	GSPL 106	MVPL CH102.863-2	Mora_Node	25.854	730.96	15.52
106	GSPL 107	Silvai	Isharvada	16.65	587.168	11.216
107	GSPL 108	Node2186	Indiansteel-Node	3	306.45	6.4
108	GSPL 109	Indiansteel-Node	ratnamani-node	2.2	306.45	6.4
109	GSPL 110	ratnamani-node	metrade-Node	3	306.45	6.4
110	GSPL 111	Node1358	Serkhi_Node	12	733.8	14.1
111	GSPL 112	SV-1+Gala+MMPL	SV-2+TOP2+Hirapar+MMPL	11.935	439.72	8.74
112	GSPL 113	Takarwada Node	Palanpur cust	6.64	439.6	8.7
113	GSPL 114	KMPL-Mandli	SV1-fatehpura- node	18.4	307.93	7.9
114	GSPL 115	SV1-fatehpura- node	SV2-ghirojpura node	14.859	307.93	7.9
115	GSPL 116	SV2-ghirojpura node	Honda Node	2.67	307.93	7.9
116	GSPL 117	Honda Node	Maruti node	14.399	307.93	7.9
117	GSPL 118	Maruti node	Becharaji Node	1.694	307.93	7.9
118	GSPL 119	Maruti node	Maruti CST node	0.16	155.475	6.4
119	GSPL 120	Tana_Node	GGLpalitana1	12.456	310.97	7.9
120	GSPL 121	GPPC-Pipavav_Node	Lonthpur	6.913	587.58	11.9
121	GSPL 122	Gundala1	Lonthpur	45.27	439.6	8.74
122	GSPL 123	Halol_Node	Ineos node	4	308.05	7.9
123	GSPL 124	Dabhan	Thasara node	44.1	310.21	7.9
124	GSPL 125	Bhodigodi	SV4-chella-RJPL	57.396	734	14
125	GSPL 126	Bhodigodi	Ambardi	46.98	308.79	7.9
126	GSPL 127	Sajod_Node	Node1419	5	439.6	8.74
127	GSPL 128	Node1419	Node1397-2	31.79	439.6	8.74

128	GSPL 130	Kharapaswaria-MMPL	Ratatalav-ABPL-18	7.4	439.7	8.96
129	GSPL 131	Bhuj	SV-1-ABPL	23.172	310.83	6.59
130	GSPL 132	SV-1-ABPL	Ratatalav-ABPL-18	11.934	310.83	6.59
131	GSPL 133	SV-1-ABPL	Parle node	5.5	155.195	6.4
132	GSPL 134	Takarwada Node	IRM node	3.95	154.975	6.4
133	GSPL 135	Ineos node	Panchmahal node	29.49	308.05	7.9
134	GSPL 136	Ineos node	Ineos CST node	2.9	155.475	6.4
135	GSPL 137	Panchmahal node	Dahod node	68.96	308.05	7.9
136	GSPL 138	Panchmahal node	Panchmahal Cst Node	13.6	155.435	6.4
137	GSPL 139	Rochling-node	Nirma node	1.01	206.035	6.59
138	GSPL 140	IFFCO node	Iffco- node	1	439.8	15.9
139	GSPL 141	JCT-node	cosmo node	8.015	152.695	6.4
140	GSPL 142	Vapi_Node-2	Eklere shrikrishna	9.44	311.05	6.4
141	GSPL 143	Vapi_Node-2	sarigam GIDC	8.8	155.475	6.4
142	GSPL 144	Node1377-2	BAKPL-Ranason	0.2	311.1	6.4
143	GSPL 145	Nano node	Nano CNG node	2	155.455	6.4
144	GSPL 146	Shah alloy node	Nano node	28.951	309.63	7.9
145	GSPL 148	SEZ-I- node	GNFC Hot tap - node	1.989	734.4	11.9
146	GSPL 149	Birla_Node	GACL_Node	4.01	155.475	11.9
147	GSPL 150	Node1512-2	Node2176	3.85	155.475	11.9
148	GSPL 151	Node2176	BASF node	0.11	155.475	6.4
149	GSPL 152	styrolution node	BASF node	0.52	101.5	6.4
150	GSPL 153	GGL Dahej-node	GACL_Node	0.855	206.035	11.9
151	GSPL 154	GGL Dahej-node	Roxul-node	0.705	206.035	11.9
152	GSPL 155	Sarju node	Dic - node	0.889	206.035	11.9
153	GSPL 156	Roxul-node	Dic - node	0.501	206.035	11.9
154	GSPL 157	Torrent DGEN node	SEZ I node	0.524	308.05	6.4
155	GSPL 158	SEZ I node	OPAL CST node	2.73	308.05	6.4
156	GSPL 159	SEZ I node	Node1410	0.745	155.5	6.4
157	GSPL 160	SEZ-I- node	SEZ I node	0.049	436.58	12.7
158	GSPL 161	GNFC Hot tap - node	Bhadbhut_Node	22.262	734.4	11.9
159	GSPL 162	GNFC CST node	GNFC Hot tap - node	2.25	206.275	12.7
160	GSPL 163	GNFC Hot tap - node	toyo-navin-convergence node	2.11	155.475	11.9

161	GSPL 164	GGL Vadhela Node	Samdhiyala-node	18.2	205.915	8.7
162	GSPL 165	Petronet_Node	Node1711	0.139	308.1	7.9
163	GSPL 166	Node2153	hadala	81.23	734.4	13.8
164	GSPL 167	Ramacylinder	chimique cst node	1.023	155.475	6.4
165	GSPL 168	GGLsaparpatia	GSFC-cst-node	2.9	205.475	6.4
166	GSPL 169	GGLpalitana1	Amreli1	62.701	310.97	7.9
167	GSPL 170	toyo-navin-convergence node	china steel cst node	2.39	155.475	11.9
168	GSPL 171	Node2170	Uttran node	17.3	438.76	10.5
169	GSPL 172	mundraLNG	Node2115	30.791	877.46	15.5
170	GSPL 173	Node2115	Ratatalav-ABPL-18	36.537	877.46	15.5
171	GSPL 174	Bhadar-N1	Piramal node	3.11	207.995	6.4
172	GSPL 175	Rochling-node	Rochling Cst node	0.015	101.5	6.4
173	GSPL 176	IRM node	Banas node	5.85	154.975	6.4
174	GSPL 177	IRM node	IRM cst node	0.05	154.975	6.4
175	GSPL 23-2	Node2161	Nava-Kataria-SV3-MMPL	43.969	439.28	8.96
176	Swan Conn	GPPC-Pipavav_Node	Node2190	3	734	12.7
177	Chhara Cor	Lonthpur	Node2190-2	85	734	12.7
178	GSPL 21-2	Thangadh-SV1-Mo-2	RIL-Jamnagar	100	439.72	8.74
179	GSPL 97-2	Eklere shrikrishna	Rochling-node-2	4	206.035	6.59
180	GSPL 97-3	Rochling-node-2	Rochling-node-3	6	155.475	6.59
181	GSPL 75-2	Vondh-SV4-MMPL-2	Node1397-2	49	439.28	8.96
182	GSPL 37-2	Node2215	hadala	12.36	587.168	11.216
183	GSPL 72-2	Node2215	Vartej1-2	35	308.75	8.7
184	GSPL 20-2	Ratanpar-2	sarigam GIDC	50	439.72	8.74
185	GSPL 72-3	Node2215-2	Samdhiyala-node	48	308.75	8.7
186	GSPL 72-4	Node2215-3	Amreli1	28	308.75	8.7
187	GSPL 72-5	vilayat-Jubilant-Node	Amreli1-2	5	308.75	8.7
188	GSPL 72-6	Node2215-4	mundraLNG	45	308.75	8.7

Roughness (micron)	Knot Spacing (km)	Gas Equation	Efficiency	Drag Factor	Ambient Temp. (Deg C)	MAOP (barg)	Velocity (Head) (m/s)	Velocity (Tail) (m/s)	Flow (head) MMSCMD	Flow (Tail) MMSCMD
19	1.60934	Pan (B)	0.95	0.96	30	95	-0.18	-0.18	-0.59	-0.59
19	1.60934	Pan (A)	0.95	0.96	30	95	-2.59	-2.48	-5.82	-5.82
19	1.60934	Pan (A)	0.95	0.96	30	95	0.52	0.54	0.69	0.69
19	1.60934	Pan (A)	0.95	0.96	30	95	-2.80	-2.74	-6.56	-6.56
19	1.60934	Pan (A)	0.95	0.96	30	95	0.21	0.23	0.50	0.50
45	1.60934	Pan (A)	0.9	0.96	30	95	0.37	0.37	0.22	0.22
19	1.60934	Pan (A)	0.95	0.96	30	95	0.00	0.00	0.00	0.00
19	1.60934	Pan (A)	0.95	0.96	30	95	0.50	0.50	1.05	1.05
19	1.60934	Pan (A)	0.95	0.96	30	95	0.48	0.48	1.01	1.01
19	1.60934	Pan (A)	0.95	0.96	30	95	-0.43	-0.44	-0.90	-0.90
19	1.60934	Pan (A)	0.95	0.96	30	95	0.87	0.85	1.00	1.00
19	1.60934	Pan (A)	0.95	0.96	30	95	-0.93	-0.96	-1.90	-1.90
19	1.60934	Pan (A)	0.95	0.96	30	95	3.79	3.74	8.14	8.14
19	1.60934	Pan (A)	0.95	0.96	30	95	2.98	2.98	6.54	6.54
45	1.60934	Pan (A)	0.9	0.96	30	95	0.50	0.48	0.31	0.31
19	1.60934	Pan (A)	0.95	0.96	30	95	4.01	4.03	4.96	4.96
19	1.60934	Pan (A)	0.95	0.96	30	95	7.29	7.77	13.17	13.17
19	1.60934	Pan (B)	0.95	0.96	30	98	5.39	5.55	12.69	12.69
19	1.60934	Pan (A)	0.95	0.96	30	98	-3.19	-2.91	-7.56	-7.56
19	1.60934	Pan (A)	0.95	0.96	30	95	0.56	0.58	0.57	0.57
19	1.60934	Pan (A)	0.95	0.96	30	95	0.32	0.33	0.32	0.32
19	1.60934	Pan (A)	0.95	0.96	30	95	0.33	0.32	0.32	0.32
19	1.60934	Pan (A)	0.95	0.96	30	95	-4.07	-3.95	-4.18	-4.18
19	1.60934	Pan (A)	0.95	0.96	30	95	3.15	3.14	6.88	6.88
19	1.60934	Pan (A)	0.95	0.96	30	95	2.42	2.42	5.31	5.31
45	1.60934	Pan (A)	0.9	0.96	30	95	1.06	1.06	0.63	0.63
19	1.60934	Pan (B)	0.95	0.96	30	95	1.93	1.96	7.66	7.66
19	1.60934	Pan (B)	0.95	0.96	30	95	1.91	1.92	7.47	7.47

19	1.60934	Pan (A)	0.95	0.96	30	98	-3.42	-3.32	-7.47	-7.47
19	1.60934	Pan (B)	0.95	0.96	30	98	5.03	5.05	16.76	16.76
19	1.60934	Pan (A)	0.95	0.96	30	95	1.14	1.10	2.25	2.25
19	1.60934	Pan (B)	0.95	0.96	30	95	0.17	0.17	0.55	0.55
19	1.60934	Pan (A)	0.95	0.96	30	95	3.98	4.03	4.57	4.57
19	1.60934	Pan (A)	0.95	0.96	30	98	0.13	0.13	0.28	0.28
19	1.60934	Pan (A)	0.95	0.96	30	95	-0.76	-0.74	-1.67	-1.67
19	1.60934	Pan (A)	0.95	0.96	30	95	6.72	7.08	13.75	13.75
19	1.60934	Pan (A)	0.95	0.96	30	95	1.06	1.05	2.21	2.21
19	1.60934	Pan (A)	0.95	0.96	30	95	7.08	7.61	13.75	13.75
19	1.60934	Pan (A)	0.95	0.96	30	95	6.47	6.75	13.83	13.83
19	1.60934	Pan (A)	0.95	0.96	30	95	3.86	4.03	4.63	4.63
19	1.60934	Pan (B)	0.95	0.96	30	95	-0.22	-0.22	-0.72	-0.72
19	1.60934	Pan (B)	0.95	0.96	30	95	-0.22	-0.22	-0.72	-0.72
19	1.60934	Pan (B)	0.95	0.96	30	95	-0.19	-0.19	-0.64	-0.64
19	1.60934	Pan (B)	0.95	0.96	30	95	-0.18	-0.18	-0.60	-0.60
19	1.60934	Pan (B)	0.95	0.96	30	95	-0.19	-0.19	-0.64	-0.64
19	1.60934	Pan (B)	0.95	0.96	30	95	0.09	0.09	0.30	0.30
19	1.60934	Pan (B)	0.95	0.96	30	95	0.16	0.16	0.54	0.54
19	1.60934	Pan (B)	0.95	0.96	30	95	0.16	0.16	0.54	0.54
45	1.56	Pan (A)	0.9	0.96	30	95	0.01	0.01	0.00	0.00
19	1.60934	Pan (B)	0.95	0.96	30	95	0.16	0.16	0.54	0.54
45	1.60934	Pan (A)	0.9	0.96	30	95	0.01	0.01	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.41	0.41	0.24	0.24
19	1.60934	Pan (A)	0.95	0.96	30	95	0.00	0.00	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.35	0.35	0.21	0.21
19	1.60934	Pan (A)	0.95	0.96	30	95	0.18	0.18	0.38	0.38
45	1.60934	Pan (A)	0.9	0.96	30	95	0.74	0.74	0.44	0.44
19	1.60934	Pan (A)	0.95	0.96	30	95	0.85	0.84	1.00	1.00
19	1.60934	Pan (A)	0.95	0.96	30	95	3.61	3.60	7.87	7.87
19	1.60934	Pan (A)	0.95	0.96	30	95	3.58	3.58	7.82	7.82
19	1.60934	Pan (A)	0.95	0.96	30	95	3.14	3.14	6.87	6.87
19	1.60934	Pan (A)	0.95	0.96	30	95	3.11	3.11	6.82	6.82

19	1.60934	Pan (A)	0.9	0.96	30	95	0.16	0.15	0.09	0.09
45	1.60934	Pan (A)	0.9	0.96	30	95	0.22	0.22	0.14	0.14
19	1.60934	Pan (A)	0.95	0.96	30	95	3.91	3.96	4.82	4.82
19	1.60934	Pan (A)	0.95	0.96	30	95	3.94	4.00	4.80	4.80
19	1.60934	Pan (B)	0.95	0.96	30	98	5.02	5.05	16.66	16.66
45	1.60934	Pan (A)	0.9	0.96	30	95	0.17	0.16	0.10	0.10
19	1.60934	Pan (B)	0.95	0.96	30	98	5.05	5.10	16.65	16.65
19	1.60934	Pan (A)	0.95	0.96	30	98	-3.32	-3.20	-7.49	-7.49
45	1.60934	Pan (A)	0.9	0.96	30	98	0.07	0.07	0.02	0.02
19	1.60934	Pan (A)	0.95	0.96	30	98	-3.22	-3.19	-7.54	-7.54
45	1.60934	Pan (A)	0.9	0.96	30	98	0.08	0.08	0.05	0.05
19	1.60934	Pan (A)	0.95	0.96	30	95	-4.49	-4.31	-5.18	-5.18
45	0.5	Pan (A)	0.9	0.96	30	95	0.00	0.00	0.00	0.00
19	1.60934	Pan (A)	0.95	0.96	30	95	-4.32	-4.14	-5.19	-5.19
45	1.60934	Pan (A)	0.9	0.96	30	50	0.03	0.03	0.01	0.01
19	1.60934	Pan (A)	0.95	0.96	30	95	-4.17	-4.05	-5.22	-5.22
45	1.60934	Pan (A)	0.9	0.96	30	95	0.02	0.02	0.01	0.01
19	1.60934	Pan (A)	0.95	0.96	30	95	7.76	8.73	13.16	13.16
19	1.60934	Pan (A)	0.95	0.96	30	95	0.77	0.76	0.94	0.94
19	1.60934	Pan (A)	0.95	0.96	30	95	-0.35	-0.34	-0.74	-0.74
19	1.60934	Pan (A)	0.95	0.96	30	98	0.10	0.10	0.21	0.21
45	1.60934	Pan (A)	0.9	0.96	30	49	0.84	0.84	0.07	0.07
45	1.60934	Pan (A)	0.9	0.96	30	49	0.78	0.84	0.07	0.07
45	1.60934	Pan (A)	0.9	0.96	30	49	0.00	0.00	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	49	0.00	0.00	0.00	0.00
19	1.60934	Pan (B)	0.95	0.96	30	98	6.09	6.22	12.63	12.63
45	1.60934	Pan (A)	0.9	0.96	30	95	0.19	0.19	0.03	0.03
19	1.60934	Pan (B)	0.95	0.96	30	98	6.21	6.35	12.60	12.60
19	1.60934	Pan (B)	0.95	0.96	30	95	5.84	5.87	11.60	11.60
19	1.60934	Pan (B)	0.95	0.96	30	98	5.10	5.15	16.65	16.65
19	1.60934	Pan (B)	0.95	0.96	30	98	5.19	5.26	16.65	16.65
19	1.60934	Pan (B)	0.95	0.96	30	98	5.26	5.38	16.65	16.65
19	0.481	Pan (B)	0.95	0.96	30	95	1.94	1.94	7.68	7.68

45	0.5	Pan (A)	0.9	0.96	30	98	0.00	0.00	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.73	0.73	0.19	0.19
45	1.60934	Pan (A)	0.9	0.96	30	95	0.04	0.04	0.01	0.01
45	1.60934	Pan (A)	0.9	0.96	30	95	0.03	0.03	0.02	0.02
45	1.60934	Pan (A)	0.9	0.96	30	95	0.06	0.07	0.01	0.01
19	1.60934	Pan (A)	0.95	0.96	30	98	0.07	0.07	0.15	0.15
19	1.60934	Pan (A)	0.95	0.96	30	95	3.02	3.05	6.36	6.36
19	1.60934	Pan (B)	0.95	0.96	30	95	0.50	0.51	1.00	1.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.10	0.10	0.06	0.06
19	1.60934	Pan (B)	0.95	0.96	30	95	-0.19	-0.19	-0.64	-0.64
19	1.60934	Pan (B)	0.95	0.96	30	95	-0.22	-0.22	-0.72	-0.72
19	1.60934	Pan (A)	0.95	0.96	30	95	1.08	1.06	2.21	2.21
45	1.60934	Pan (A)	0.9	0.96	30	50	0.03	0.04	0.01	0.01
45	1.60934	Pan (A)	0.9	0.96	30	50	0.04	0.04	0.01	0.01
45	1.60934	Pan (A)	0.9	0.96	30	50	0.03	0.03	0.01	0.01
19	1.60934	Pan (B)	0.95	0.96	30	98	5.15	5.19	16.65	16.65
19	1.60934	Pan (A)	0.95	0.96	30	95	-1.66	-1.63	-1.68	-1.68
19	1.60934	Pan (A)	0.95	0.96	30	95	3.93	3.96	4.47	4.47
45	1.60934	Pan (A)	0.9	0.96	30	95	0.04	0.03	0.02	0.02
45	1.60934	Pan (A)	0.9	0.96	30	95	0.03	0.03	0.02	0.02
45	1.60934	Pan (A)	0.9	0.96	30	95	0.03	0.03	0.02	0.02
45	1.60934	Pan (A)	0.9	0.96	30	95	0.03	0.03	0.02	0.02
45	1.60934	Pan (A)	0.9	0.96	30	95	0.01	0.01	0.01	0.01
45	0.16	Pan (A)	0.9	0.96	30	95	0.09	0.09	0.02	0.02
45	1.60934	Pan (A)	0.9	0.96	30	98	0.02	0.02	0.02	0.02
19	1.60934	Pan (A)	0.95	0.96	30	98	1.62	1.64	4.38	4.38
19	1.60934	Pan (A)	0.95	0.96	30	98	-0.01	-0.01	-0.02	-0.02
45	1.60934	Pan (A)	0.9	0.96	30	95	0.05	0.05	0.03	0.03
45	1.60934	Pan (A)	0.9	0.96	30	95	0.33	0.30	0.20	0.20
19	1.60934	Pan (B)	0.95	0.96	30	98	5.54	6.11	12.68	12.68
45	1.60934	Pan (A)	0.9	0.96	30	98	0.01	0.01	0.01	0.00
19	1.60934	Pan (A)	0.95	0.96	30	95	0.04	0.04	0.05	0.05
19	1.60934	Pan (A)	0.95	0.96	30	95	0.04	0.04	0.05	0.05

19	1.60934	Pan (A)	0.95	0.96	30	95	-4.05	-3.98	-5.23	-5.23
45	1.60934	Pan (A)	0.9	0.96	30	98	-0.02	-0.02	-0.01	-0.01
45	1.60934	Pan (A)	0.9	0.96	30	98	-0.02	-0.02	-0.01	-0.01
45	1.60934	Pan (A)	0.9	0.96	30	98	0.03	0.03	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.75	0.75	0.11	0.11
45	1.60934	Pan (A)	0.9	0.96	30	95	0.03	0.03	0.02	0.02
45	1.60934	Pan (A)	0.9	0.96	30	95	0.07	0.07	0.01	0.01
45	1.60934	Pan (A)	0.9	0.96	30	95	0.02	0.02	0.01	0.01
45	1.60934	Pan (A)	0.9	0.96	30	95	0.07	0.07	0.01	0.01
45	1.60934	Pan (A)	0.9	0.96	30	95	0.72	0.72	0.19	0.19
19	1	Pan (A)	0.9	0.96	30	95	0.91	0.87	1.12	1.12
45	0.25	Pan (A)	0.9	0.96	30	49	0.00	0.00	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.17	0.17	0.10	0.10
45	1.60934	Pan (A)	0.9	0.96	30	95	1.32	1.33	0.19	0.19
45	0.2	Pan (A)	0.9	0.96	30	95	-0.02	-0.02	-0.01	-0.01
45	1.60934	Pan (A)	0.9	0.96	30	95	0.06	0.06	0.01	0.01
45	1.60934	Pan (A)	0.9	0.96	30	95	0.03	0.03	0.02	0.02
19	1.60934	Pan (B)	0.95	0.96	30	95	1.88	1.89	7.33	7.33
45	1.60934	Pan (A)	0.9	0.96	30	95	-0.61	-0.54	-0.10	-0.09
45	1.60934	Pan (A)	0.9	0.96	30	49	-0.94	-0.86	-0.08	-0.08
45	0.15	Pan (A)	0.9	0.96	30	49	0.16	0.18	0.02	0.02
45	0.5	Pan (A)	0.9	0.96	30	49	-0.14	-0.14	-0.01	-0.01
45	0.855	Pan (A)	0.9	0.96	30	95	-0.32	-0.31	-0.09	-0.09
45	0.705	Pan (A)	0.9	0.96	30	95	0.22	0.23	0.06	0.06
45	0.889	Pan (A)	0.9	0.96	30	95	-0.22	-0.22	-0.06	-0.06
45	0.501	Pan (A)	0.9	0.96	30	95	0.22	0.22	0.06	0.06
45	0.525	Pan (A)	0.9	0.96	30	95	0.00	0.00	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.07	0.07	0.04	0.04
45	0.745	Pan (A)	0.9	0.96	30	95	0.58	0.58	0.09	0.09
19	0.034	Pan (A)	0.95	0.96	30	95	0.10	0.11	0.14	0.14
19	1.60934	Pan (B)	0.95	0.96	30	95	1.82	1.88	7.07	7.07
45	1.60934	Pan (A)	0.9	0.96	30	95	-0.76	-0.72	-0.22	-0.22
45	1.60934	Pan (A)	0.9	0.96	30	95	0.13	0.15	0.02	0.02

45	1.60934	Pan (A)	0.9	0.96	30	98	0.00	0.00	0.00	0.00
45	0.05	Pan (A)	0.9	0.96	30	95	0.03	0.03	0.02	0.02
19	1.60934	Pan (B)	0.95	0.96	30	98	1.36	1.29	4.23	4.23
45	1.60934	Pan (A)	0.9	0.96	30	49	0.02	0.02	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.13	0.13	0.02	0.02
45	1.60934	Pan (A)	0.9	0.96	30	98	0.02	0.02	0.01	0.01
45	1.60934	Pan (A)	0.9	0.96	30	95	0.13	0.13	0.02	0.02
19	1.60934	Pan (A)	0.95	0.96	30	80.65	0.83	0.86	1.00	1.00
19	1.60934	Pan (B)	0.95	0.96	30	95	0.98	1.01	5.36	5.36
19	1.60934	Pan (B)	0.95	0.96	30	95	0.98	1.00	5.24	5.24
45	1.60934	Pan (A)	0.9	0.96	30	95	0.22	0.22	0.06	0.06
45	0.015	Pan (A)	0.9	0.96	30	95	0.02	0.02	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.04	0.04	0.01	0.01
45	0.05	Pan (A)	0.9	0.96	30	95	0.71	0.71	0.10	0.10
19	1.60934	Pan (A)	0.95	0.96	30	95	-4.89	-4.49	-5.18	-5.18
19	1.60934	Pan (B)	1	0.96	30	95	-1.04	-1.04	-4.38	-4.38
19	1.60934	Pan (B)	1	0.96	30	95	-0.82	-0.76	-3.20	-3.20
19	1.60934	Pan (A)	0.95	0.96	30	95	-0.14	-0.14	-0.10	-0.10
45	1.60934	Pan (A)	0.9	0.96	30	95	0.39	0.39	0.10	0.10
45	1.60934	Pan (A)	0.9	0.96	30	95	0.68	0.68	0.10	0.10
19	1.60934	Pan (A)	0.95	0.96	30	95	-0.04	-0.04	-0.05	-0.05
19	1.60934	Pan (A)	0.95	0.96	30	95	1.02	1.02	2.16	2.16
45	1.60934	Pan (A)	0.9	0.96	30	95	0.09	0.08	0.05	0.05
19	1.60934	Pan (A)	0.95	0.96	30	95	-0.05	-0.05	-0.05	-0.05
45	1.60934	Pan (A)	0.9	0.96	30	95	0.00	0.00	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.00	0.00	0.00	0.00
45	1.60934	Pan (A)	0.9	0.96	30	95	0.08	0.08	0.05	0.05
45	1.60934	Pan (A)	0.9	0.96	30	95	-0.08	-0.07	-0.05	-0.05

Sr no.	Node Name	Pressure (barg)	Temperature (Deg C)
1	Mora_Node	82.82	28.38
2	Torrent_Node	82.75	18.57
3	Sajod_Node	83.89	13.54
4	GGCL_Node	83.87	19.48
5	Paguthan_Node	84.36	29.16
6	GNFC_Node	84.41	29.46
7	NTPCJanore_Node	84.32	30.00
8	Barodasherkhi_Node	83.83	32.03
9	Dhanora Terminal	83.80	31.41
10	GSFC_Node	83.89	30.72
11	Gorwa	84.19	32.33
12	BAKPL-Gandhinagar	91.07	40.45
13	kalol_Node	90.35	38.24
14	Himmatnagar_Node	89.63	29.87
15	Ratanpar	70.07	25.52
16	Rajkot-Gauridad-RJPL	58.83	23.37
17	RIL-N1	50.34	24.02
18	Tana_Node	88.34	25.04
19	GPPC-Pipavav_Node	93.99	15.62
20	Thangadh-SV1-Morbi spur	69.97	29.65
21	jetparda-Wankaner_Node-Morbi spurline	69.36	29.85
22	SV-2+TOP2+Hirapar+MMPL	70.57	26.65
23	Kharapaswaria-MMPL	85.68	25.20
24	Mehsana_Node	86.08	33.84
25	Halol_Node	83.84	30.00
26	Petronet_Node	84.98	5.20
27	GACL_Node	84.81	6.67
28	Vapi_Node-2	82.53	29.95
29	CH35.66	82.82	29.96
30	Palanpur cust	80.00	30.55
31	Gatrad	92.24	43.70
32	Darod-Node	83.02	28.99
33	Olpad node	82.74	22.20
34	ARPL-Sudamada	75.37	26.93
35	bhrugupur	79.41	27.83
36	Bhadbhut_Node	84.38	11.59
37	Sidhpur node	81.57	31.08
38	MVPL CH102.863	82.92	29.92
39	MVPL CH72.474	82.92	29.99
40	CH60.815	82.92	30.00
41	CH40.074	82.87	29.99
42	CH3.55	82.58	29.95
43	CH30.023	82.77	29.96
44	CH20.6	82.70	29.95
45	Raymond node	82.71	30.00
46	CH13.58	82.68	29.97

47	Welspun	82.68	30.00
48	GPEC node	84.36	30.00
49	Paguthan-GNFC	84.36	29.34
50	GSFC+Adani	83.84	30.57
51	Suz-node	84.01	30.38
52	Dhuvaran_Node-2	84.18	31.14
53	Dabhan	94.34	49.32
54	Chappara	93.56	47.03
55	BAKPL-Ranason	91.54	41.65
56	BAKPL-VALAD	91.38	41.24
57	IFFCO node	90.50	38.99
58	santej node	90.61	30.02
59	KHPL-Node-1	90.19	30.00
60	KMPL- Kadi	89.62	37.36
61	KMPL-Mandli	87.82	35.37
62	Bhesaram	93.40	53.42
63	vilayat-Jubilant-Node	94.12	37.73
64	Kelod	92.37	52.00
65	Vadhela	85.00	26.19
66	Samdhiyala-node	85.41	30.00
67	DJPL-Meglana	87.93	26.06
68	Vartej1	88.02	30.00
69	Isharvada	84.32	34.87
70	Nava-Kataria-SV3-MMPL	78.04	25.98
71	Sumangal-node	78.20	30.00
72	Vondh-SV4-MMPL	80.83	25.76
73	Euro-node	50.17	29.98
74	Bhimasar-SV5-MMPL	83.76	25.48
75	Motimaladi	65.90	24.63
76	AEC node	92.18	39.84
77	Ochhan	84.35	29.99
78	GGL Palej Node	48.77	29.91
79	Steelco node	48.79	29.96
80	ICT tap	49.00	30.00
81	cosmo node	49.00	30.00
82	SV4-chella-RJPL	52.46	24.13
83	GSFCspur1	51.42	24.03
84	RIL-Jamnagar	50.16	23.94
85	BGPL-Ochhan	90.35	49.35
86	Serkhi_Node	87.51	46.08
87	Anjar-Node	85.95	30.00
88	Petronet_Node-2	85.00	5.00
89	Sumangal-N1	78.20	30.00
90	Nirma node	83.94	30.09
91	Suzlon-N	83.91	30.00
92	Nano node	91.46	30.00
93	chimique cst node	50.61	30.00
94	Bhadari node	84.34	30.00
95	hadala	84.10	32.54

96	Essar-N1-2	50.87	27.03
97	Bhadar-N1	84.95	30.02
98	Piramal node	85.02	30.02
99	Node1269	82.92	29.99
100	MVPL CH102.863-2	82.92	29.89
101	Node1277	82.92	30.00
102	Silvai	84.38	38.23
103	Indiansteel-Node	49.96	29.85
104	ratnamani-node	49.96	30.00
105	metrade-Node	49.96	30.00
106	Node1308-2	85.92	44.44
107	Anklav-node	84.24	37.30
108	Node1358	88.64	47.32
109	SV-1+Gala+MMPL	69.89	27.86
110	Takarwada Node	80.55	30.73
111	Becharaji Node	88.70	30.00
112	SV1-fatehpura- node	88.42	30.01
113	SV2-ghirojpura node	88.57	30.00
114	Honda Node	88.68	30.01
115	Maruti node	88.66	30.00
116	Maruti CST node	88.67	30.00
117	Amreli1	88.41	30.00
118	Lonthpur	93.85	21.23
119	Gundala1	94.23	30.00
120	Dahod node	82.40	30.00
121	Thasara node	94.64	30.02
122	Bhodigodi	57.39	23.90
123	Ambardi	57.00	30.00
124	Node1397-2	83.80	30.00
125	Node1419	83.81	29.53
126	Ratatalav-ABPL-18	87.44	25.76
127	Bhuj	86.85	30.00
128	SV-1-ABPL	87.06	29.99
129	Parle node	86.89	30.00
130	Banas node	79.79	30.00
131	Ineos node	84.28	30.05
132	Ineos CST node	84.19	29.99
133	Panchmahal node	83.81	30.00
134	Panchmahal Cst Node	83.76	30.00
135	Rochling-node	83.97	30.14
136	Iffco- node	90.49	30.45
137	JCT-node	48.99	30.00
138	GGL vapi node	82.57	29.99
139	Eklere shrikrishna	82.53	30.00
140	sarigam GIDC	82.12	29.94
141	Node1377-2	92.03	35.26
142	Shah alloy node	91.28	30.07
143	Birla_Node	84.76	24.65
144	Node1512-2	48.94	26.79

145	BASF node	49.00	29.97
146	styrolution node	49.00	30.00
147	GGL Dahej-node	84.81	14.21
148	Roxul-node	84.80	20.21
149	Sarju node	84.96	26.53
150	Dic - node	84.80	23.23
151	Torrent DGEN node	85.45	30.00
152	SEZ I node	84.78	24.80
153	OPAL CST node	85.47	29.65
154	Node1410	84.93	25.70
155	SEZ-I- node	84.78	7.03
156	GNFC Hot tap - node	84.71	7.40
157	china steel cst node	85.46	29.93
158	Nano CNG node	91.46	30.00
159	GGL Vadhela Node	85.76	30.03
160	Node1479	14.00	55.00
161	Node1711	84.98	10.65
162	Node1712	14.00	55.00
163	GNFC CST node	85.46	16.77
164	Ramacylinder	50.59	28.91
165	GSFC-cst-node	51.96	30.01
166	GGLsaparpatia	51.90	30.02
167	GGLpalitana1	88.90	30.01
168	toyo-navin-convergence node	85.42	28.45
169	Uttran node	80.58	26.94
170	Bhadbhut-node	94.50	55.00
171	mundraLNG	88.00	20.00
172	Node2115	87.39	22.97
173	Rochling Cst node	83.97	30.00
174	IRM node	79.90	29.97
175	IRM cst node	79.90	29.97
176	Node0193	95.00	54.05
177	Node0091-4	82.11	41.65
178	Node2153	83.11	41.97
179	Node2161	72.26	26.08
180	Node2166	14.00	55.00
181	Node2169	14.00	55.00
182	Node2170	80.65	21.41
183	Node2176	49.00	8.51
184	Node2177	49.00	14.74
185	Node2183	50.00	11.16
186	Node2186	50.00	9.38
187	Node2190	94.00	15.00
188	Node2190-2	94.10	15.00
189	Node2197	95.00	54.05
190	Thangadh-SV1-Mo-2	50.25	30.00
191	Rochling-node-2	82.46	29.98
192	Rochling-node-3	82.38	29.99
193	Vondh-SV4-MMPL-2	83.61	30.00

194	Node2215	84.15	31.53
195	Vartej1-2	84.65	30.01
196	Ratanpar-2	81.98	30.00
197	Node2215-2	85.23	30.00
198	Node2215-3	88.66	30.00
199	Amreli1-2	93.27	30.15
200	Node2215-4	87.41	29.99

HP Network Details

Sr no.	Supplier	Temp (Deg C)	Flow (MMSCMD)	Pressure (barg)
1	RIL Bhadbut New	55		94.5
2	Petronet Supply	5		85
3	ONGC Olpad	50	0.069	93
4	GLL	20		88
5	SWAN	15		94
6	Chhara	15		94.1

HP Network Details

Sr no.	Entry Point	Carbon Dioxide (CO2) percent	Methane percent	Ethane percent	Propane percent	I - Butane percent	n- Butane percent	I - Pentane percent	n- Pentane percent	C6+ percent	Nitrogen percent
1	Petronet	0	97.175743	1.900081	0.426562	0.070607	0.103487	3.84E-03	0.000726	0	0.318939
2	RGTIL	0.22509	98.862468	0.34271	0.19174	0.04709	0.03543	0.01889	0.007092	0.04207	0.22742
3	ONGC	0.1708009	97.87329	0.227101	0.0053	0.0059					1.717609
4	Mundra LNG	0	92.4291	6.8256	0.5142	0.0867	0.0715	0.0019	0.0004	0	0.0706
5	GIGL Palanpur	0.019772	84.170043	10.55368	3.009617	1.032347	0.603601	0.170983	0.112088	0.073879	0.253993
6	Swan-1	0	94.17681	5.225295	0.4531	0.0554	0.0528	0.0046	0.0025	0.0006	0.0289
7	Chara	0	94.17681	5.225295	0.4531	0.0554	0.0528	0.0046	0.0025	0.0006	0.0289

HP network

Sr no.	Node Name	Elevation (m)
1	Mora_Node	87.22
2	Torrent_Node	104.51
3	Sajod_Node	111.88
4	GGCL_Node	111.88
5	Paguthan_Node	116.74
6	GNFC_Node	108.07
7	NTPCJanore_Node	121.74
8	Barodasherkhi_Node	198.92
9	Dhanora Terminal	201.95
10	GSFC_Node	185.55
11	Gorwa	124.95
12	BAKPL-Gandhinagar	167.83
13	kalol_Node	165.59
14	Himmatnagar_Node	245.22
15	Ratanpar	153.24
16	Rajkot-Gauridad-RJPL	113
17	RIL-N1	170
18	Tana_Node	135.93
19	GPPC-Pipavav_Node	110.93
20	Thangadh-SV1-Morbi spur	160.15
21	jetparda-Wankaner_Node-Morbi spurline	274.89
22	SV-2+TOP2+Hirapar+MMPL	87.84
23	Kharapaswaria-MMPL	176.2
24	Mehsana_Node	190.22
25	Halol_Node	136.9
26	Petronet_Node	103
27	GACL_Node	109.19
28	Vapi_Node-2	130.78
29	CH35.66	85.35
30	Palanpur cust	76.955
31	Gatrad	159.2
32	Darod-Node	94

33	Olpad node	103.1
34	ARPL-Sudamada	114
35	bhrugupur	149.52
36	Bhadbhut_Node	115.2
37	Sidhpur node	130.25
38	MVPL CH102.863	70.21
39	MVPL CH72.474	70.21
40	CH60.815	70.21
41	CH40.074	77.78
42	CH3.55	123.21
43	CH30.023	92.93
44	CH20.6	105
45	Raymond node	103.45
46	CH13.58	108.07
47	Welspun	108.07
48	GPEC node	115.28
49	Paguthan-GNFC	116.4
50	GSFC+Adani	193.99
51	Suz-node	139.05
52	Dhuvaran_Node-2	116.33
53	Dabhan	160.64
54	Chappara	159.27
55	BAKPL-Ranason	163.5
56	BAKPL-VALAD	163.5
57	IFFCO node	172.117
58	santej node	153.62
59	KHPL-Node-1	160.95
60	KMPL- Kadi	169
61	KMPL-Mandli	177.9
62	Bhesaram	114.12
63	vilayat-Jubilant-Node	1.29
64	Kelod	124.27
65	Vadhela	124.53
66	Samdhiyala-node	62.84

67	DJPL-Meglana	21.902
68	Vartej1	8.85
69	Isharvada	98
70	Nava-Kataria-SV3-MMPL	135.8
71	Sumangal-node	109.93
72	Vondh-SV4-MMPL	155.2
73	Euro-node	110.93
74	Bhimasar-SV5-MMPL	165.5
75	Motimaladi	156.32
76	AEC node	165.28
77	Ochhan	117.645
78	GGL Palej Node	146.55
79	Steelco node	140
80	ICT tap	118.7
81	cosmo node	118.9
82	SV4-chella-RJPL	115
83	GSFCspur1	150
84	RIL-Jamnagar	190
85	BGPL-Ochhan	126.58
86	Serkhi_Node	131.58
87	Anjar-Node	137.89
88	Petronet_Node-2	102.35
89	Sumangal-N1	109.93
90	Nirma node	142.55
91	Suzlon-N	146.32
92	Nano node	27.812
93	chimique cst node	12.3
94	Bhadari node	118.5
95	hadala	87
96	Essar-N1-2	28
97	Bhadar-N1	22.29
98	Piramal node	9.73
99	Node1269	70.21
100	MVPL CH102.863-2	70.21

101	Node1277	70.21
102	Silvai	105.02
103	Indiansteel-Node	176.2
104	ratnamani-node	176.2
105	metrade-Node	176.2
106	Node1308-2	134.25
107	Anklav-node	133.57
108	Node1358	129.14
109	SV-1+Gala+MMPL	170.8
110	Takarwada Node	90.15
111	Becharaji Node	42
112	SV1-fatehpura- node	85.83
113	SV2-ghirojpura node	62.685
114	Honda Node	45
115	Maruti node	48
116	Maruti CST node	47
117	Amreli1	125.244
118	Lonthpur	112.93
119	Gundala1	62
120	Dahod node	371.895
121	Thasara node	108.239
122	Bhodigodi	60.343
123	Ambardi	152.279
124	Node1397-2	124.9874
125	Node1419	123.20602
126	Ratatalav-ABPL-18	48.76
127	Bhuj	132.69
128	SV-1-ABPL	102.367
129	Parle node	126.756
130	Banas node	208.05
131	Ineos node	65.666
132	Ineos CST node	79.985
133	Panchmahal node	142.18
134	Panchmahal Cst Node	149.47

135	Rochling-node	139.439
136	Iffco- node	172
137	JCT-node	119.8
138	GGL vapi node	123.156
139	Eklere shrikrishna	130.78
140	sarigam GIDC	130.78
141	Node1377-2	88.144
142	Shah alloy node	54.106
143	Birla_Node	109.19
144	Node1512-2	109.19
145	BASF node	109.19
146	styrolution node	109.19
147	GGL Dahej-node	109
148	Roxul-node	109.19
149	Sarju node	85.35
150	Dic - node	109
151	Torrent DGEN node	4.29
152	SEZ I node	109.19
153	OPAL CST node	2.8
154	Node1410	85
155	SEZ-I- node	109.19
156	GNFC Hot tap - node	114.537
157	china steel cst node	1.9
158	Nano CNG node	27.812
159	GGL Vadhela Node	10.99
160	Node1479	103
161	Node1711	103
162	Node1712	103
163	GNFC CST node	3.95
164	Ramacylinder	15.4
165	GSFC-cst-node	3.01
166	GGLsaparpatia	20.27
167	GGLpalitana1	54.385
168	toyo-navin-convergence node	8.437

169	Uttran node	98.5
170	Bhadbhut-node	102.12
171	mundraLNG	7
172	Node2115	73.748619
173	Rochling Cst node	139.439
174	IRM node	190
175	IRM cst node	190.15
176	Node0193	339
177	Node0091-4	339
178	Node2153	339
179	Node2161	120.8879
180	Node2166	109.19
181	Node2169	109.19
182	Node2170	103.1
183	Node2176	109.19
184	Node2177	117.645
185	Node2183	155.2
186	Node2186	165.5
187	Node2190	110.93
188	Node2190-2	110.93
189	Node2197	339

HP Network Details

Sr no.	Pipeline			Length (km)	Inside diameter (mm)	Wall Thickness (mm)	Roughness (micron)	Knot Spacing (km)	Gas Equation	Efficiency	Drag Factor	Ambient Temp. (Deg C)	MAOP (barg)	Velocity (Head) (m/s)	Velocity (Tail) (m/s)	Flow (head) MMSCMD	Flow (Tail) MMSCMD
1	GSPL 1	CH35.66	CH40.074	4.414	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	-0.13369527	-0.1336	-0.43309954	-0.43309955
2	GSPL 2	Torrent Node	Sajod Node	35	586.16	11.72	19	1.60934	Pan (A)	0.95	0.96	30	95	-2.563377	-2.4518	-5.664091	-5.6640913
3	GSPL 3	Sajod Node	GGCL Node	5.5	439.8	8.7	19	1.60934	Pan (A)	0.95	0.96	30	95	0.53054013	0.5491	0.68999892	0.68999889
4	GSPL 4	Sajod Node	Bhadbhut Node	12.5	585.8	11.9	19	1.60934	Pan (A)	0.95	0.96	30	95	-2.7555495	-2.7049	-6.3580903	-6.3580907
5	GSPL 5	Bhadbhut Node	Paguthan Node	25.74	584.6	12.5	19	1.60934	Pan (A)	0.95	0.96	30	95	-0.13705438	-0.1371	-0.28792197	-0.28792199
6	GSPL 6	Paguthan_Node	Paguthan-GNFC	1	308.05	14.86	45	1.60934	Pan (A)	0.9	0.96	30	95	0.37718846	0.37719	0.22	0.22
7	GSPL 7	Paguthan Node	NTPCJanore Node	12.52	584.8	12.4	19	1.60934	Pan (A)	0.95	0.96	30	95	0	0	0	0
8	GSPL 8	Barodasherkhi_Node	Dhanora Terminal	5.5	585.72	11.94	19	1.60934	Pan (A)	0.95	0.96	30	95	0.51357151	0.5101	1.051	1.051
9	GSPL 9	Dhanora Terminal	GSFC Node	11.3	583.98	12.81	19	1.60934	Pan (A)	0.95	0.96	30	95	0.49361237	0.48888	1.011	1.011
10	GSPL 10	Barodasherkhi_Node	Anklav-node	14	586.2	11.7	19	1.60934	Pan (A)	0.95	0.96	30	95	-0.82394133	-0.836	-1.6889221	-1.6889221
11	GSPL 11	Anklav-node	Gorwa	18.51	439.28		19	1.60934	Pan (A)	0.95	0.96	30	95	0.88144619	0.85618	1	1
12	GSPL 12	Anklav-node	Node2153	16.11	586.2	11.7	19	1.60934	Pan (A)	0.95	0.96	30	95	-1.3309608	-1.3717	-2.6889221	-2.6889222
13	GSPL 13	Node2197	Dabhan	27.03	586.2	11.7	19	1.60934	Pan (A)	0.95	0.96	30	95	3.8008759	3.74331	8.1398655	8.1398656
14	GSPL 14	BAKPL-Gandhinagar	IFFCO node	12.452	586.2	11.7	19	1.60934	Pan (A)	0.95	0.96	30	95	2.9868697	2.98426	6.5398655	6.5398655
15	GSPL 15	kalol Node	KHPL-Node-1	53.8	311.01	6.42	45	1.60934	Pan (A)	0.9	0.96	30	95	0.50145163	0.48044	0.31000002	0.31
16	GSPL 16	kalol Node	KMPL- Kadi	6.7	439.72	8.74	19	1.60934	Pan (A)	0.95	0.96	30	95	4.0135947	4.02977	4.9598657	4.9598657
17	GSPL 17	Ratanpar	Motimaladi	20.566	587.168	11.216	19	1.60934	Pan (A)	0.95	0.96	30	95	7.2624597	7.7296	13.075002	13.075002
18	GSPL 18	Rajkot-Gauridad-RJPL	Bhodigodi	21.75	734	14	19	1.60934	Pan (B)	0.95	0.96	30	98	5.3548739	5.51527	12.595001	12.595001
19	GSPL 19	Tana Node	Lonthpur	103.38	587.58	11.9	19	1.60934	Pan (A)	0.95	0.96	30	98	-3.2635763	-2.9722	-7.7082381	-7.7082383
20	GSPL 20	Ratanpar	Thangadh-SV1-Morbi spur	24.3	439.72	8.74	19	1.60934	Pan (A)	0.95	0.96	30	95	0.52937159	0.54212	0.5344983	0.53449818
21	GSPL 21	Thangadh-SV1-Morbi spur	jetparda-Wankaner Node-Morbi spurline	19.62	439.72	8.74	19	1.60934	Pan (A)	0.95	0.96	30	95	0.2885536	0.29159	0.28449821	0.28449812
22	GSPL 22	jetparda-Wankaner Node-Morbi spurline	SV-1+Gala+MMPL	11.935	439.72	8.74	19	1.60934	Pan (A)	0.95	0.96	30	95	0.29159017	0.2896	0.28449812	0.28449807
23	GSPL 23	SV-2+TOP2+Hirapar+MMPL	Node2161	19.84	439.28	8.96	19	1.60934	Pan (A)	0.95	0.96	30	95	-4.1178483	-3.9951	-4.2155019	-4.215502
24	GSPL 24	Gatrad	BAKPL-Ranason	14.242	586.2	11.7	19	1.60934	Pan (A)	0.95	0.96	30	95	3.1510797	3.14429	6.8798654	6.8798654
25	GSPL 25	IFFCO node	kalol Node	6.46	586.2	11.7	19	1.60934	Pan (A)	0.95	0.96	30	95	2.4229896	2.41773	5.3098655	5.3098655
26	GSPL 26	GSFC Node	Suz-node	11.4	310.67	6.59	45	1.60934	Pan (A)	0.9	0.96	30	95	1.0781455	1.07155	0.63100004	0.63100003
27	GSPL 27	Petronet Node	GACL Node	7.49	580.18	14.71	19	1.60934	Pan (A)	0.95	0.96	30	95	2.6975142	2.73952	6.6621782	6.662178
28	GSPL 28	GACL Node	SEZ-I- node	1.83	585.8	11.9	19	1.60934	Pan (A)	0.95	0.96	30	95	2.6107715	2.62011	6.472678	6.4726781
29	GSPL 29	Darod-Node	Vadhela	38.835	587.58	11.9	19	1.60934	Pan (A)	0.95	0.96	30	98	-3.5036954	-3.3958	-7.617238	-7.617238
30	GSPL 30	Bhadbhut-node	Bhesaram	11.327	733.8	14.1	19	1.60934	Pan (B)	0.95	0.96	30	98	5.1475936	5.17695	17.158486	17.158486
31	GSPL 31	Node2153	Silvai	15.4	587.168	11.216	19	1.60934	Pan (A)	0.95	0.96	30	95	1.0764075	1.03848	2.1170807	2.1170807
32	GSPL 32	CH35.66	CH30.023	5.637	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	0.12134752	0.12142	0.39309959	0.39309958
33	GSPL 33	Sidhpur node	Takarwada Node	12.84	439.6	8.7	19	1.60934	Pan (A)	0.95	0.96	30	95	3.9767182	4.02346	4.5698654	4.5698654
34	GSPL 34	Paguthan Node	Ochhan	21	584.32	12.64	19	1.60934	Pan (A)	0.95	0.96	30	98	-0.24203248	-0.2421	-0.507922	-0.50792201
35	GSPL 35	Olpad node	Torrent_Node	6.38	586.16	11.72	19	1.60934	Pan (A)	0.95	0.96	30	95	-0.69555119	-0.6852	-1.5140979	-1.5140977
36	GSPL 36	bhrugupur	ARPL-Sudamada	22.15	587.168	11.216	19	1.60934	Pan (A)	0.95	0.96	30	95	6.6764718	7.03363	13.6095	13.6095
37	GSPL 37	Isharvada	hadala	49.97	587.168	11.216	19	1.60934	Pan (A)	0.95	0.96	30	95	1.0019497	0.98526	2.0770806	2.0770806
38	GSPL 38	ARPL-Sudamada	Ratanpar	24.904	587.168	11.216	19	1.60934	Pan (A)	0.95	0.96	30	95	7.033632	7.55934	13.6095	13.6095
39	GSPL 39	Darod-Node	bhrugupur	17.65	587.168	11.216	19	1.60934	Pan (A)	0.95	0.96	30	95	6.4380779	6.71572	13.6895	13.6895
40	GSPL 40	Mehsana Node	Sidhpur node	50.24	439.6	8.7	19	1.60934	Pan (A)	0.95	0.96	30	95	3.8569838	4.02806	4.6288655	4.6288654
41	GSPL 41	MVPL CH102.863	MVPL CH102.863-2	3.788	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	-0.17361345	-0.1736	-0.5630994	-0.56309941
42	GSPL 42	Node1269	MVPL CH102.863	19.144	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	-0.17362926	-0.1736	-0.5630994	-0.5630994
43	GSPL 43	CH60.815	Node1277	5.8295	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	-0.14896627	-0.149	-0.4830995	-0.4830995
44	GSPL 44	CH40.074	CH60.815	19.847	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	-0.13671131	-0.1366	-0.44309953	-0.44309954
45	GSPL 45	Node1277	MVPL CH72.474	5.8295	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	-0.14896513	-0.149	-0.4830995	-0.48309951
46	GSPL 46	CH3.55	Vapi Node-2	3.494	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	0.043381464	0.04341	0.14009985	0.14009985
47	GSPL 47	CH30.023	CH20.6	9.416	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	0.11833196	0.11845	0.38309959	0.38309959
48	GSPL 48	CH20.6	CH13.58	7.025	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	0.11814015	0.11818	0.38209959	0.38209959
49	GSPL 49	CH20.6	Raymond node	1.56	155.475	15.52	45	1.56	Pan (A)	0.9	0.96	30	95	0.006834183	0.00683	0.000999999	0.000999999
50	GSPL 50	CH13.58	CH3.55	10.031	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	0.1175614	0.1177	0.38009959	0.38009959
51	GSPL 51	CH13.58	Welspun	3.18	155.475	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.013672974	0.01367	0.001999998	0.001999998
52	GSPL 52	CH3.55	GGL vapi node	6.5	311.05	15.52	45	1.60934	Pan (A)	0.9	0.96	30	95	0.41039695	0.41053	0.23999974	0.23999974
53	GSPL 53	Paguthan Node	GPEC node	3.45	579.88	12.5	19	1.60934	Pan (A)	0.95	0.96	30	95	0	0	0	0
54	GSPL 54	Paguthan-GNFC	GNFC Node	0.53	308.05	14.86	45	1.60934	Pan (A)	0.9	0.96	30	95	0.36004308	0.35988	0.21	0.21
55	GSPL 55	GSFC Node	GSFC+Adani	1	583.98	6.59	19	1.60934	Pan (A)	0.95	0.96	30	95	0.18375293	0.1836	0.38	0.38
56	GSPL 56	Suz-node	Halol_Node	25.57	310.67	6.59	45	1.60934	Pan (A)	0.9	0.96	30	95	0.74720122	0.74627	0.44000003	0.44000002
57	GSPL 57	Gorwa	Dhuvaran Node-2	11.75	439.28	8.7	19	1.60934	Pan (A)	0.95	0.96	30	95	0.85618148	0.85013	1	1
58	GSPL 58	Dabhan	Chappara	12.793	586.2	11.7	19	1.60934	Pan (A)	0.95	0.96	30	95	3.6191468	3.61038	7.8698656	7.8698655
59	GSPL 59	Chappara	Gatrad	21.655	586.2	11.7	19	1.60934	Pan (A)	0.95	0.96	30	95	3.5874467	3.58161	7.8198655	7.8198654
60	GSPL 60	BAKPL-Ranason	BAKPL-VALAD	3.174	586.2	11.7	19	1.60934	Pan (A)	0.95	0.96	30	95	3.1397155	3.13862	6.8698654	6.8698654
61	GSPL 61	BAKPL-VALAD	BAKPL-Gandhinagar	6.184	586.2	11.7	19	1.60934	Pan (A)	0.95	0.96	30	95	3.1157727	3.11475	6.8198654	6.8198654
62	GSPL 62	IFFCO node	santej node	15.22	299.71	13.8	19	1.60934	Pan (A)	0.9	0.96	30	95	0.15710851	0.14946	0.090000002	0.090000002
63	GSPL 63	KHPL-Node-1	Himmatnagar Node	6.89	311.01	6.42	45	1.60934	Pan (A)	0.9	0.96	30	95	0.21697276	0.2183	0.14	0.14
64	GSPL 64	KMPL- Kadi	KMPL-Mandli	17.4	439.72	8.74	19	1.60934	Pan (A)	0.95	0.96	30	95	3.9160253	3.96071	4.8198657	4.8198656
65	GSPL 65	KMPL-Mandli	Mehsana Node	16.46	439.72	8.74	19	1.60934	Pan (A)	0.95	0.96	30	95	3.9434579	3.99645	4.7988656	4.7988655
66	GSPL 66	Bhesaram	Kelod	10.673	733.8	14.1	19	1.60934	Pan (B)	0.95	0.96	30	98	5.1618684	5.19147	17.108486	17.108486
67	GSPL 67	Bhesaram	vilayat-Jubilant-Node	2.47	308.05	12.7	45	1.60934	Pan (A)	0.9	0.96	30	95	0.085600901	0.07694	0.05	0.05
68	GSPL 68	Kelod	BGPL-Ochhan	22.028	733.8	14.1	19	1.60934	Pan (B)	0.95	0.96	30	98	5.1884384	5.25278	17.098486	17.098486
69	GSPL 69	Vadhela	DJPL-Meglana	40.602	587.58	11.9	19	1.60934	Pan (A)	0.95	0.96	30	98	-3.4047388	-3.2722	-7.637238	-7.637238
70	GSPL 70	Vadhela	GGL Vadhela Node	5.1	205.95	8.7	45	1.60934	Pan (A)	0.9	0.96	30	98	0.072599835	0.07356	0.020000006	0.020000005
71	GSPL 71	DJPL-Meglana	Tana Node	22.37	587.58	11.9	19	1.60934	Pan (A)	0.95	0.96	30	98	-3.2961509	-3.2572	-7.6932381	-7.6932381
72	GSPL 72	DJPL-Meglana	Vartej1	14.3	308.75	8.7	45	1.60934	Pan (A)	0.9	0.96	30	98	0.077586837	0.07937	0.050000006	0.05
73	GSPL 73	Nava-Kataria-SV3-MMPL	Vondh-SV4-MMPL	23.246	439.28	8.96	19	1.60934	Pan (A)	0.95	0.96	30	95	-4.5271655	-4.3447	-5.2155022	-5.2155023
74	GSPL 74	Nava-Kataria-SV3-MMPL	Sumangal-node	1.9	206.035	8.96	45	0.5	Pan (A)	0.9	0.96	30	95	0	0	0	0
75	GSPL 75	Vondh-SV4-MMPL	Bhimasar-SV5-MMPL	24.913	439.28	8.96	19	1.60934	Pan (A)	0.95	0.96	30	95	-4.353062	-4.1732	-5.2255022	-5.2255023
76	GSPL 76	Node2183	Euro-node	4	311.05	6.4	45	1.60934	Pan (A)	0.9	0.96	30	50	0.026177351	0.02868	0.01	0.01
77	GSPL 77	Bhimasar-SV5-MMPL	Kharapaswaria-MMPL	16.952	439.28	8.96	19	1.60934	Pan (A)	0.95	0.96	30	95	-4.1951256	-4.0818	-5.2530023	-5.2530022
78	GSPL 78	Kharapaswaria-MMPL	Anjar-Node	3.95	309.63	8.96	45	1.60934	Pan (A)	0.9	0.96	30	95	0.015639967	0.01604	0.010000001	0.01
79	GSPL 79	Motimaladi	Rajkot-Gauridad-RJPL	32.99	587.168	11.216	19	1.60934	Pan (A)	0.95	0.96	30	95	7.7236876	8.68016	13.065002	13.065001
80	GSPL 80	Gatrad	AEC node	5	436.6	10.3	19	1.60934	Pan (A)	0.95	0.96	30	95	0.77612461	0.76154	0.93999999	0.93999998
81	GSPL 81	Mora_Node	Olpad node	18	586.16	11.72	19	1.60934	Pan (A)	0.95	0.96	30	95	-0.27853746	-0.2699	-0.5830938	-0.5830941
82	GSPL 82	Ochhan	Bhadari node	20.95	584.32	12.64	19	1.60934	Pan (A)	0.95	0.96	30	98	-0.27546155	-0.2763	-0.57792201	-0.57792203
83	GSPL 83	GGL Palej Node	Steelco node	0.397	155.235	12.5	45	1.60934	Pan (A)	0.9	0.96	30	49	0.84310402	0.84296	0.07	0.07
84	GSPL 84	Node2177	GGL Palej Node	10.283	155.235	12.5	45	1.60934	Pan (A)	0.9	0.96	30	49	0.78408634	0.8431	0.07	0.07
85	GSPL 85	Node2177	ICT tap	7.799	152.695	6.4	45	1.60934	Pan (A)	0.9	0.96	30	49	0	0	0	0
86	GSPL 86	ICT tap	cosmo node	3.786	152.695	6.4	45	1.60934	Pan (A)	0.9	0.96	30	49	0	0	0	0
87	GSPL 87	SV4-chella-RJPL	GSFCspur1	10.518	734	14	19	1.60934	Pan (B)	0.95	0.96	30	98	6.0483132	6.1766	12.529998	12.529998
88	GSPL 88	GSFCspur1	GGLsaparpatia	14	205.475	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.18870971	0.19217	0.030000018	0.03
89	GSPL 89	GSFCspur1	RIL-N1	11.392	734	14	19	1.60934	Pan (B)	0.95	0.96	30	98	6.1618133	6.30163	12.499998	12.499998
90	GSPL 90	RIL-N1	RIL-Jamnagar	1.424	734	14	19	1.60934	Pan (B)	0.95	0.96	30	98	5.7974979	5.81792	11.499998	11.499998
91	GSPL 91	BGPL-Ochhan	Node1358	18.4	733.8	14.1	19	1.60934	Pan (B)	0.95	0.96	30	98	5.2527847	5.31522	17.098486	17.098486
92	GSPL 92	Serkhi Node	Node1308-2	16.82	733.8	14.1	19	1.60934	Pan (B)	0.95	0.96	30	98	5.3605217	5.42995	17.098486	17.098486
93	GSPL 93	Node1308-2	Node2153	16.952	733.8	14.1	19	1.60934	Pan (B)	0.95	0.96	30	98	5.4299543	5.5663	17.098486	17.098486
94	GSPL 94	Petronet Node-2	Petronet Node	1	580.18	14.71	19	0.481	Pan (A)	0.95	0.96	30	95	2.699901	2.70561	6.6821783	6.6821782
95	GSPL 96	Sumangal-node	Sumangal-N1	2.5	206.035	8.96	45	0.5	Pan (A)	0.9	0.96	30	98	0	0	0	0
96	GSPL 97	Suz-node	Rochling-node	4	206.035	6.59	45	1.60934	Pan (A)	0.9	0.96	30	95	0.73745388	0.73627	0.191	0.191
97	GSPL 98	Nirma node	Suzlon-N	19.35	206.035	6.59	45	1.60934	Pan (A)	0.9	0.96	30	95	0.038547776	0.03852	0.010000002	0.01
98	GSPL 99	santej node	Shah alloy node	2.619	309.63	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.031118926	0.03088	0.020000002	0.020000002
99	GSPL 100	Node2186	Ramacylinder	0.597	155.475	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.062250852	0.06792	0.006	0.006
100	GSPL 101	Bhadari node	Barodasherkhi Node	22.05	584.32	12.64	19	1.60934	Pan (A)	0.95	0.96	30	98	-0.30495773	-0.3132	-0.63792203	-0.63792204
101	GSPL 102	hadala	Darod-Node	24.15	587.168	11.216	19	1.60934	Pan (A)	0.95	0.96	30	95	2.9030013	2.92795	6.0722639	6.0722638
102	GSPL 103	RIL-N1	Essar-N1-2	6.695	734	14	19	1.60934	Pan (B)	0.95	0.96	30	95	0.50413031	0.50563	0.99999995	0.99999989
103	GSPL 104	Bhadari node	Bhadar-N1	25.5	310.91	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.10131073	0.10022	0.060000006	0.06
104	GSPL 105	MVPL CH72.474	Node1269	8.322	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	-0.14896389	-0.149	-0.48309951	-0.48309951
105	GSPL 106	MVPL CH102.863-2	Mora Node	25.854	730.96	15.52	19	1.60934	Pan (B)	0.95	0.96	30	95	-0.17360563	-0.173	-0.56309941	-0.56309941
106	GSPL 107	Silvai	Isharvada	16.65	587.168	11.216	19	1.60934	Pan (A)	0.95	0.96	30	95	1.0188552	1.00195	2.0770807	2.0770806
107	GSPL 108	Node2186	Indiansteel-Node	3	306.45	6.4	45	1.60934	Pan (A)	0.9	0.96	30	50	0.034716768	0.03857	0.013	0.013
108	GSPL 109	Indiansteel-Node	ratnamani-node	2.2	306.45	6.4	45	1.60934	Pan (A)	0.9	0.96	30	50	0.038567383	0.03859	0.013	0.013
109	GSPL 110	ratnamani-node	metrade-Node	3	306.45	6.4	45	1.60934	Pan (A)	0.9	0.96	30	50	0.029687373	0.02969	0.01	0.01
110	GSPL 111	Node1358	Serkhi_Node	12	733.8	14.1	19	1.60934	Pan (B)	0.95	0.96	30	98	5.3152161	5.36052	17.098486	17.098486
111	GSPL 112	SV-1+Gala+MMPL	SV-2+TOP2+Hirapar+MMPL	11.935	439.72	8.74	19	1.60934	Pan (A)	0.95	0.96	30	95	-1.6979685	-1.6724	-1.7155019	-1.715502

112	GSPL 113	Takarwada Node	Palanpur cust	6.64	439.6	8.7	19	1.60934	Pan (A)	0.95	0.96	30	95	3.9301304	3.95533	4.4638654	4.4638654
113	GSPL 114	KMPL-Mandli	SV1-fatehpura- node	18.4	307.93	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.035188965	0.03392	0.021000007	0.021000004
114	GSPL 115	SV1-fatehpura- node	SV2-ghirojpura node	14.859	307.93	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.033924444	0.03386	0.021000004	0.021000002
115	GSPL 116	SV2-ghirojpura node	Honda Node	2.67	307.93	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.033860587	0.03381	0.021000002	0.021000002
116	GSPL 117	Honda Node	Maruti node	14.399	307.93	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.033814532	0.03382	0.021000002	0.021
117	GSPL 118	Maruti node	Becharaji Node	1.694	307.93	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.009662961	0.00966	0.006	0.006
118	GSPL 119	Maruti node	Maruti CST node	0.16	155.475	6.4	45	0.16	Pan (A)	0.9	0.96	30	95	0.094761754	0.09476	0.015	0.015
119	GSPL 120	Tana Node	GGLpalitana1	12.456	310.97	7.9	45	1.60934	Pan (A)	0.9	0.96	30	98	0.022673977	0.0232	0.015000026	0.015000022
120	GSPL 121	GPPC-Pipavav Node	Lonthpur	6.913	587.58	11.9	19	1.60934	Pan (A)	0.95	0.96	30	98	1.6646191	1.68102	4.4868929	4.4868929
121	GSPL 122	Gundala1	Lonthpur	45.27	439.6	8.74	19	1.60934	Pan (A)	0.95	0.96	30	98	-0.014483407	-0.0138	-0.02	-0.02
122	GSPL 123	Halol Node	Ineos node	4	308.05	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.051751079	0.05147	0.030000025	0.030000024
123	GSPL 124	Dabhan	Thasara node	44.1	310.21	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.32843462	0.29579	0.2	0.2
124	GSPL 125	Bhodigodi	SV4-chella-RJPL	57.396	734	14	19	1.60934	Pan (B)	0.95	0.96	30	98	5.5087015	6.07245	12.580001	12.579999
125	GSPL 126	Bhodigodi	Ambardi	46.98	308.79	7.9	45	1.60934	Pan (A)	0.9	0.96	30	98	0.012371402	0.01284	0.005000169	0.004999999
126	GSPL 127	Sajod Node	Node1419	5	439.6	8.74	19	1.60934	Pan (A)	0.95	0.96	30	95	0	0	0	0
127	GSPL 128	Node1419	Node1397-2	31.79	439.6	8.74	19	1.60934	Pan (A)	0.95	0.96	30	95	0	0	0	0
128	GSPL 130	Kharapaswaria-MMPL	Ratatalav-ABPL-18	7.4	439.7	8.96	19	1.60934	Pan (A)	0.95	0.96	30	95	-4.0817134	-4.0029	-5.2630022	-5.2630023
129	GSPL 131	Bhuj	SV-1-ABPL	23.172	310.83	6.59	45	1.60934	Pan (A)	0.9	0.96	30	98	-0.0157286	-0.0157	-0.01	-0.01
130	GSPL 132	SV-1-ABPL	Ratatalav-ABPL-18	11.934	310.83	6.59	45	1.60934	Pan (A)	0.9	0.96	30	98	-0.021960143	-0.0213	-0.014	-0.014
131	GSPL 133	SV-1-ABPL	Parle node	5.5	155.195	6.4	45	1.60934	Pan (A)	0.9	0.96	30	98	0.02516851	0.02522	0.004	0.004
132	GSPL 134	Takarwada Node	IRM node	3.95	154.975	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.75092022	0.75432	0.106	0.106
133	GSPL 135	Ineos node	Panchmahal node	29.49	308.05	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.034310842	0.03451	0.020000024	0.020000017
134	GSPL 136	Ineos node	Ineos CST node	2.9	155.475	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.067347606	0.06741	0.01	0.01
135	GSPL 137	Panchmahal node	Dahod node	68.96	308.05	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.017255679	0.01757	0.010000016	0.01
136	GSPL 138	Panchmahal node	Panchmahal Cst Node	13.6	155.435	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.067776037	0.06782	0.010000001	0.01
137	GSPL 139	Rochling-node	Nirma node	1.01	206.035	6.59	45	1.60934	Pan (A)	0.9	0.96	30	95	0.73241375	0.73241	0.19	0.19
138	GSPL 140	IFFCO node	Iffco- node	1	439.8	15.9	19	1	Pan (A)	0.9	0.96	30	95	0.90796107	0.86709	1.12	1.12
139	GSPL 141	JCT-node	cosmo node	8.015	152.695	6.4	45	0.25	Pan (A)	0.9	0.96	30	49	0	0	0	0
140	GSPL 142	Vapi_Node-2	Eklere shrikrishna	9.44	311.05	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.000171115	0.00017	1.00E-04	1.00E-04
141	GSPL 143	Vapi Node-2	sarigam GIDC	8.8	155.475	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.95885348	0.96178	0.13999985	0.13999985
142	GSPL 144	Node1377-2	BAKPL-Ranason	0.2	311.1	6.4	45	0.2	Pan (A)	0.9	0.96	30	95	-0.015601682	-0.0162	-0.01	-0.01
143	GSPL 145	Nano node	Nano CNG node	2	155.455	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.061101194	0.0611	0.01	0.01
144	GSPL 146	Shah alloy node	Nano node	28.951	309.63	7.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.030880244	0.0308	0.020000002	0.02
145	GSPL 148	SEZ-I- node	GNFC Hot tap - node	1.989	585.8	11.9	19	1.60934	Pan (A)	0.95	0.96	30	95	2.5634345	2.57422	6.3326781	6.3326782
146	GSPL 149	Birla Node	GACL Node	4.01	155.475	11.9	45	1.60934	Pan (A)	0.9	0.96	30	95	-0.609344	-0.544	-0.095	-0.095
147	GSPL 150	Node1512-2	Node2176	3.85	155.475	11.9	45	1.60934	Pan (A)	0.9	0.96	30	49	-0.94012431	-0.8584	-0.08	-0.08
148	GSPL 151	Node2176	BASF node	0.11	155.475	6.4	45	0.15	Pan (A)	0.9	0.96	30	49	0.16095868	0.17861	0.015	0.015
149	GSPL 152	styrolution node	BASF node	0.52	101.5	6.4	45	0.5	Pan (A)	0.9	0.96	30	49	-0.1397112	-0.1397	-0.005	-0.005
150	GSPL 153	GGL Dahej-node	GACL Node	0.855	206.035	11.9	45	0.855	Pan (A)	0.9	0.96	30	95	-0.32396258	-0.3081	-0.0945	-0.0945
151	GSPL 154	GGL Dahej-node	Roxul-node	0.705	206.035	11.9	45	0.705	Pan (A)	0.9	0.96	30	95	0.22111732	0.22944	0.064500001	0.064499999
152	GSPL 155	Sariju node	Dic - node	0.889	206.035	11.9	45	0.889	Pan (A)	0.9	0.96	30	95	-0.22093399	-0.2172	-0.06	-0.06
153	GSPL 156	Roxul-node	Dic - node	0.501	206.035	11.9	45	0.501	Pan (A)	0.9	0.96	30	95	0.21876394	0.22268	0.061499999	0.0615
154	GSPL 157	Torrent DGEN node	SEZ I node	0.524	308.05	6.4	45	0.525	Pan (A)	0.9	0.96	30	95	0	0	0	0
155	GSPL 158	SEZ I node	OPAL CST node	2.73	308.05	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.06543557	0.06663	0.04	0.04
156	GSPL 159	SEZ I node	Node1410	0.745	155.5	6.4	45	0.745	Pan (A)	0.9	0.96	30	95	0.57780067	0.57961	0.090000001	0.090000001
157	GSPL 160	SEZ I- node	SEZ I node	0.049	436.58	12.7	19	0.034	Pan (A)	0.95	0.96	30	95	0.10203141	0.11402	0.14	0.14
158	GSPL 161	GNFC Hot tap - node	Bhadbhut Node	22.262	585.8	11.9	19	1.60934	Pan (A)	0.95	0.96	30	95	2.4675115	2.56789	6.0701782	6.0701786
159	GSPL 162	GNFC CST node	GNFC Hot tap - node	2.25	206.275	12.7	45	1.60934	Pan (A)	0.9	0.96	30	95	-0.75898369	-0.7213	-0.22	-0.22
160	GSPL 163	GNFC Hot tap - node	toyo-navin-convergence node	2.11	155.475	11.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.1298428	0.14635	0.0225	0.0225
161	GSPL 164	GGL Vadhela Node	Samdhiyala-node	18.2	205.915	8.7	45	1.60934	Pan (A)	0.9	0.96	30	98	0	0	0	0
162	GSPL 165	Petronet Node	Node1711	0.139	308.1	7.9	45	0.05	Pan (A)	0.9	0.96	30	95	0.028715712	0.02981	0.02	0.02
163	GSPL 166	Node2153	hadala	81.23	734.4	13.8	19	1.60934	Pan (B)	0.95	0.96	30	98	1.3082309	1.23504	4.0251835	4.0251833
164	GSPL 167	Ramacylinder	chimique cst node	1.023	155.475	6.4	45	1.60934	Pan (A)	0.9	0.96	30	49	0.022638783	0.02275	0.002	0.002
165	GSPL 168	GGLsaparpatia	GSFC-cst-node	2.9	205.475	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.12811288	0.12794	0.020000002	0.019999998
166	GSPL 169	GGLpalitana1	Amreli1	62.701	310.97	7.9	45	1.60934	Pan (A)	0.9	0.96	30	98	0.015468696	0.01556	0.010000022	0.01
167	GSPL 170	toyo-navin-convergence node	china steel cst node	2.39	155.475	11.9	45	1.60934	Pan (A)	0.9	0.96	30	95	0.13008784	0.13108	0.02	0.02
168	GSPL 171	Node2170	Uttran node	17.3	438.76	10.5	19	1.60934	Pan (A)	0.95	0.96	30	80.65	0.83947674	0.86286	0.99998863	0.9999986
169	GSPL 172	mundraLNG	Node2115	30.791	877.46	15.5	19	1.60934	Pan (B)	0.95	0.96	30	95	0.98712066	1.01379	5.3970023	5.3970023
170	GSPL 173	Node2115	Ratatalav-ABPL-18	36.537	877.46	15.5	19	1.60934	Pan (B)	0.95	0.96	30	95	0.99125208	1.00784	5.2770023	5.2770023
171	GSPL 174	Bhadar-N1	Piramal node	3.11	207.995	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.22392727	0.22372	0.06	0.06
172	GSPL 175	Rochling-node	Rochling Cst node	0.015	101.5	6.4	45	0.015	Pan (A)	0.9	0.96	30	95	0.015883741	0.01586	0.001	0.001
173	GSPL 176	IRM node	Banas node	5.85	154.975	6.4	45	1.60934	Pan (A)	0.9	0.96	30	95	0.042697367	0.04276	0.006	0.006
174	GSPL 177	IRM node	IRM cst node	0.05	154.975	6.4	45	0.05	Pan (A)	0.9	0.96	30	95	0.71162277	0.71164	0.099999999	0.099999999
175	GSPL 23-2	Node2161	Nava-Kataria-SV3-MMPL	43.969	439.28	8.96	19	1.60934	Pan (A)	0.95	0.96	30	95	-4.9427998	-4.5272	-5.215502	-5.2155022
	Swan Cons	GPPC-Pipavav Node	Node2190	3	734	12.7	19	1.60934	Pan (B)	1	0.96	30	95	-1.0667355	-1.0621	-4.4868929	-4.4868928
	Chhara Co	Lonthpur	Node2190-2	85	734	12.7	19	1.60934	Pan (B)	1	0.96	30	95	-0.83225459	-0.7669	-3.2438454	-3.2438454

Units	Exit Points	Flow (MMSCMD)	Pressure (barg)	Temperature (Deg C)
1	Cust 1	0.14	81.638652	29.976428
2	Cust 2	0.69	83.145756	20.181994
3	Cust 3	0.21	83.673628	30.040947
4	Cust 4	0	83.592743	30
5	Cust 5	0	83.632436	30
6	Cust 6	0.38	83.161901	31.26434
7	Cust 7	0.1	82.556307	42.026148
8	Cust 8	0.28	91.056634	40.747463
9	Cust 9	0.02	90.487978	39.247904
10	Cust 10	0.07	90.604482	30.022317
11	Cust 11	0.14	89.615225	29.866142
12	Cust 12	0.17	86.073859	33.972796
13	Cust 13	0	93.984673	15.607218
14	Cust 14	0.47	58.687285	23.317207
15	Cust 15	0.25	69.712722	29.688596
16	Cust 16	2.5	70.318558	26.574792
17	Cust 17	0.26	83.157785	30.018999
18	Cust 18	1	50.835401	27.039097
19	Cust 19	0.059	81.563464	31.150132
20	Cust 20	0.04	82.146878	29.970082
21	Cust 21	0.08	82.243561	29.998438
22	Cust 22	0.04	82.241739	29.999727
23	Cust 23	0.01	82.193694	29.989124
24	Cust 24	0.01	82.100009	29.966631
25	Cust 25	0.001	82.034934	30.000154
26	Cust 26	0.002	82.006185	29.999998
27	Cust 27	0.07	94.331212	49.846984
28	Cust 28	0.05	93.551236	47.500824
29	Cust 29	0.01	92.016529	35.401487
30	Cust 30	0.05	91.374975	41.556213
31	Cust 31	0.04	90.339071	38.473152
32	Cust 32	0.17	90.181134	29.998329
33	Cust 33	0.14	89.613375	37.571744
34	Cust 34	0	87.810356	35.541263
35	Cust 35	0.01	94.087917	33.601438
36	Cust 36	0.01	92.266835	52.033102
37	Cust 38	0.05	87.760345	30.003743
38	Cust 39	0.04	83.826085	38.025446
39	Cust 40	0.08	79.010784	27.629052
40	Cust 41	0	77.916462	25.923871
41	Cust 42	0	78.075924	30
42	Cust 43	0.01	50.171483	29.975261
43	Cust 44	0.01	49.958278	29.999991
44	Cust 45	0.003	49.958316	29.997924

45	Cust 46	0.01	85.933412	29.996132
46	Cust 47	0.01	65.674518	24.534555
47	Cust 48	0.004	83.160331	14.580531
48	Cust 49	0.07	48.789862	29.962575
49	Cust 50	0.02	51.913599	30.010799
50	Cust 52	0.94	92.171495	40.114359
51	Cust 53	0.18	83.253566	30.18512
52	Cust 54	0.01	83.22958	29.999793
53	Cust 55	0.01	91.451149	30.001739
54	Cust 56	0.002	50.605529	29.998477
55	Cust 57	0.05	84.294417	30.022352
56	Cust 58	0.006	79.793615	29.997925
57	Cust 59	0.05	52.400699	24.14092
58	Cust 60	0.006	88.693275	30.002325
59	Cust 61	0.015	88.660475	30.003369
60	Cust 62	0.01	88.20027	29.998743
61	Cust 63	0.02	94.220901	30.002254
62	Cust 64	0.01	81.734228	29.996692
63	Cust 65	0.2	94.628467	30.020388
64	Cust 66	0.005	56.878916	29.998993
65	Cust 67	0	83.078742	30
66	Cust 69	0.01	86.850125	29.998504
67	Cust 70	0.004	86.891308	29.997585
68	Cust 71	0.01	83.505375	29.994961
69	Cust 72	0.01	83.077424	29.999405
70	Cust 73	0.001	83.284041	30.000219
71	Cust 75	1.12	90.481648	30.460151
72	Cust 76	1	83.528168	31.333866
73	Cust 77	0.24	81.897492	29.988684
74	Cust 78	0.15	83.157785	30.018999
75	Cust 79	0.04	83.130914	33.19951
76	Cust 80	0.01	91.450807	30.000018
77	Cust 82	0.08	48.941333	26.805425
78	Cust 83	0.01	48.999922	29.969897
79	Cust 84	0.005	48.999537	29.999999
80	Cust 85	0	84.593604	6.7115179
81	Cust 86	0.003	84.590327	20.235168
82	Cust 87	0.06	84.744333	26.548034
83	Cust 89	0.0015	84.590927	23.251345
84	Cust 90	0	85.192006	30
85	Cust 91	0.04	85.208869	29.650867
86	Cust 92	0.09	84.673273	25.715194
87	Cust 93	0.03	84.592617	14.249255
88	Cust 94	0.22	85.163225	16.828932
89	Cust 95	0.02	85.159991	29.935561
90	Cust 96	0.04	94.087917	33.601438
91	Cust 97	0.01	84.294417	30.022352

92	Cust 98	0	80.548332	30.79112
93	Cust 100	0.02	85.40778	30.031801
94	Cust 101	0.01	83.62345	30.004849
95	Cust 102	0.1	79.897978	29.978599
96	Cust 103	0.005	88.691445	30.010455
97	Cust 104	0.004	50.593637	28.907163
98	Cust 105	0.0025	85.119667	28.462802
99	Cust 106	2	69.635324	27.752601
100	Cust 107	0.01	57.264287	23.872198
101	Cust 108	0.01	51.849212	30.02404
102	Cust 109	0.0025	93.84317	21.153896
103	Cust 110	0.006	87.672332	25.909049
104	Cust 111	11.5	50.125305	23.961951
105	Cust 112	0.02	84.41117	7.4759491
106	Cust 113	1	80.57843	27.391295
107	Cust 114	0.12	87.390468	22.94674
108	Cust 115	0.0001	81.86657	30
109	Cust 116	0.02	82.144923	29.050945
110	Cust 117	0.02	14	55
111	Cust 118	0.01	14	55
112	Cust 119	4.15	82.064652	19.435471
113	Cust 121	1	72.052705	26.006268
114	Cust 122	0.03	83.573781	32.348741
115	Cust 123	0.0085	50	9.3604084
116	GIGL Exit	4.4638655	80	30.598088

HP-SwanChara

Units	Entry Points	MMSCMD	barg	Deg C
1	RIL Bhadbut New	17.158486	94.5	55
2	Petronet Supply	6.6821783	85	5
3	ONGC Olpad	0.069	82.055154	23.1699
4	GLL	5.3970023	88	20
5	SWAN	4.4868928	94	15
6	Chhara	3.2438454	94.1	15
	Total	**37.0374048**		

	Grid Capacity	**37.01**	**MMSCMD**	

Units	Exit Points	MMSCMD	barg	Deg C
1	Cust 1	0.140	81.639	29.976
2	Cust 2	0.690	83.146	20.182
3	Cust 3	0.210	83.674	30.041
4	Cust 4	0.000	83.593	30.000
5	Cust 5	0.000	83.632	30.000
6	Cust 6	0.380	83.162	31.264
7	Cust 7	0.100	82.556	42.026
8	Cust 8	0.280	91.057	40.747
9	Cust 9	0.020	90.488	39.248
10	Cust 10	0.070	90.604	30.022
11	Cust 11	0.140	89.615	29.866
12	Cust 12	0.170	86.074	33.973
13	Cust 13	0.000	93.985	15.607
14	Cust 14	0.470	58.687	23.317
15	Cust 15	0.250	69.713	29.689
16	Cust 16	2.500	70.319	26.575
17	Cust 17	0.260	83.158	30.019
18	Cust 18	1.000	50.835	27.039
19	Cust 19	0.059	81.563	31.150
20	Cust 20	0.040	82.147	29.970
21	Cust 21	0.080	82.244	29.998
22	Cust 22	0.040	82.242	30.000
23	Cust 23	0.010	82.194	29.989
24	Cust 24	0.010	82.100	29.967
25	Cust 25	0.001	82.035	30.000
26	Cust 26	0.002	82.006	30.000
27	Cust 27	0.070	94.331	49.847
28	Cust 28	0.050	93.551	47.501
29	Cust 29	0.010	92.017	35.401
30	Cust 30	0.050	91.375	41.556
31	Cust 31	0.040	90.339	38.473
32	Cust 32	0.170	90.181	29.998
33	Cust 33	0.140	89.613	37.572
34	Cust 34	0.000	87.810	35.541

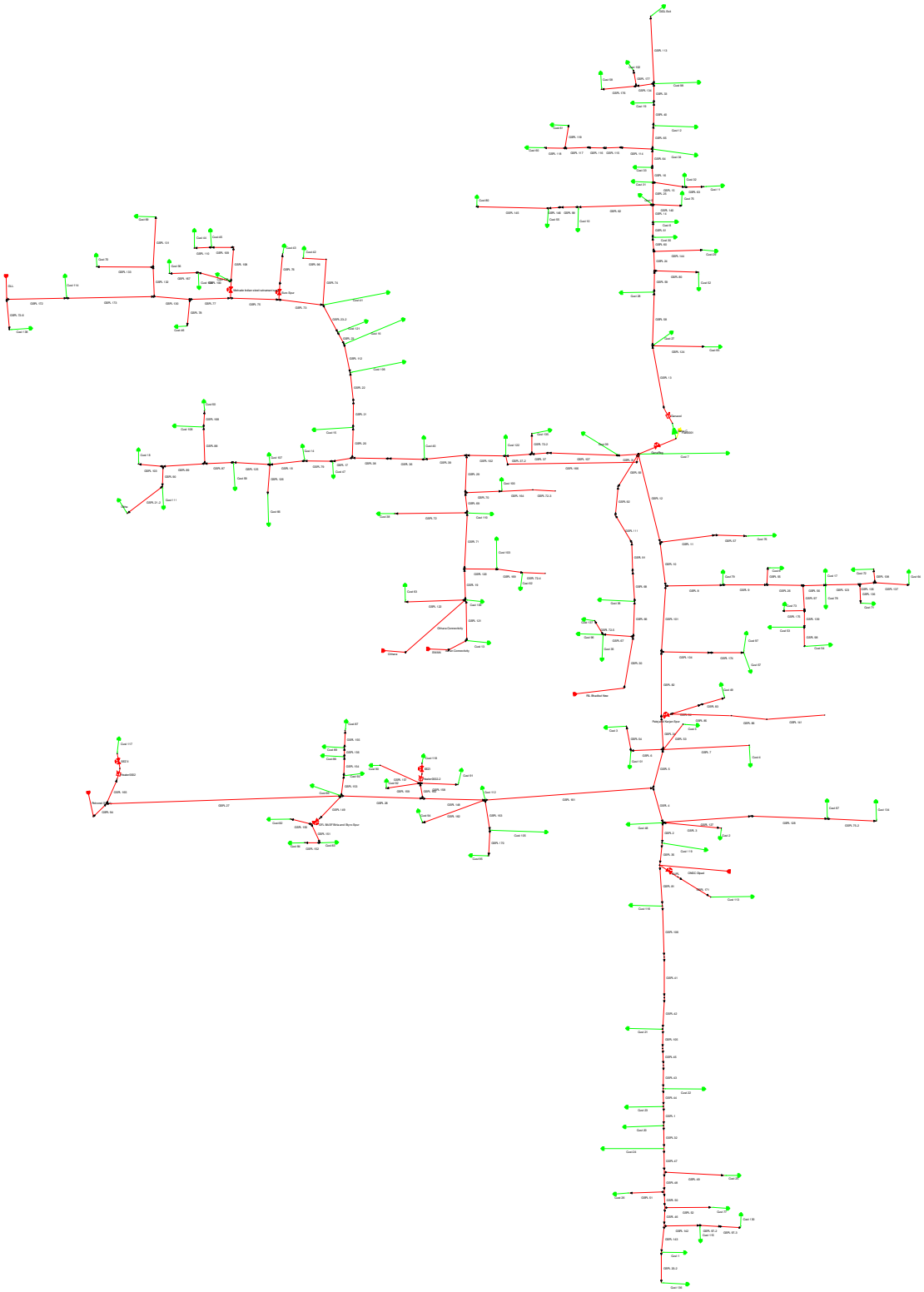
Gana Compressor Fuel

Units	Fuel	MMSCMD	barg	Deg C
1	Fuel0001	0.027434531	81.55631	41.70596

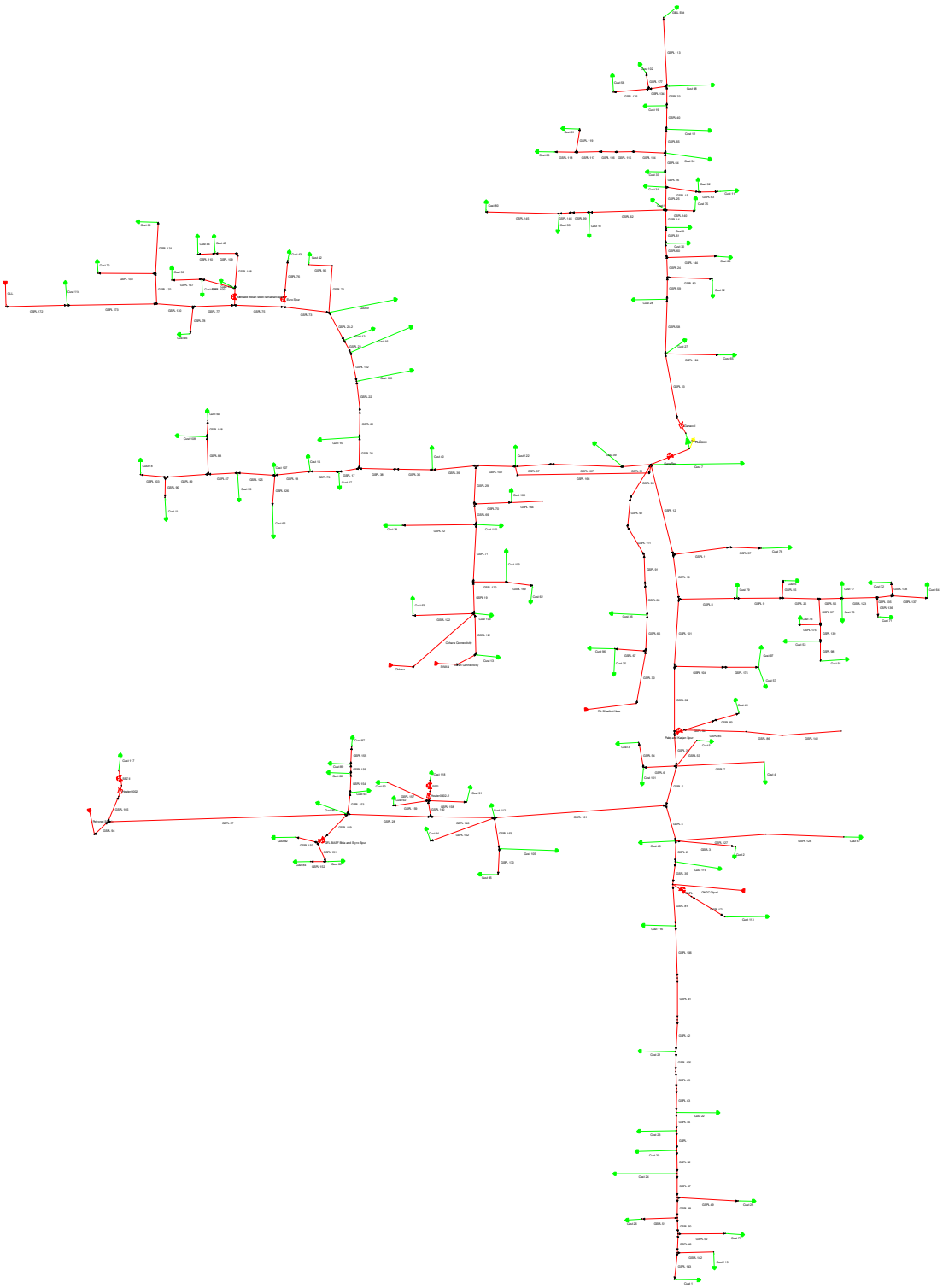
35	Cust 35	0.010	94.088	33.601
36	Cust 36	0.010	92.267	52.033
37	Cust 38	0.050	87.760	30.004
38	Cust 39	0.040	83.826	38.025
39	Cust 40	0.080	79.011	27.629
40	Cust 41	0.000	77.916	25.924
41	Cust 42	0.000	78.076	30.000
42	Cust 43	0.010	50.171	29.975
43	Cust 44	0.010	49.958	30.000
44	Cust 45	0.003	49.958	29.998
45	Cust 46	0.010	85.933	29.996
46	Cust 47	0.010	65.675	24.535
47	Cust 48	0.004	83.160	14.581
48	Cust 49	0.070	48.790	29.963
49	Cust 50	0.020	51.914	30.011
50	Cust 52	0.940	92.171	40.114
51	Cust 53	0.180	83.254	30.185
52	Cust 54	0.010	83.230	30.000
53	Cust 55	0.010	91.451	30.002
54	Cust 56	0.002	50.606	29.998
55	Cust 57	0.050	84.294	30.022
56	Cust 58	0.006	79.794	29.998
57	Cust 59	0.050	52.401	24.141
58	Cust 60	0.006	88.693	30.002
59	Cust 61	0.015	88.660	30.003
60	Cust 62	0.010	88.200	29.999
61	Cust 63	0.020	94.221	30.002
62	Cust 64	0.010	81.734	29.997
63	Cust 65	0.200	94.628	30.020
64	Cust 66	0.005	56.879	29.999
65	Cust 67	0.000	83.079	30.000
66	Cust 69	0.010	86.850	29.999
67	Cust 70	0.004	86.891	29.998
68	Cust 71	0.010	83.505	29.995
69	Cust 72	0.010	83.077	29.999
70	Cust 73	0.001	83.284	30.000
71	Cust 75	1.120	90.482	30.460
72	Cust 76	1.000	83.528	31.334
73	Cust 77	0.240	81.897	29.989
74	Cust 78	0.150	83.158	30.019
75	Cust 79	0.040	83.131	33.200
76	Cust 80	0.010	91.451	30.000
77	Cust 82	0.080	48.941	26.805
78	Cust 83	0.010	49.000	29.970
79	Cust 84	0.005	49.000	30.000
80	Cust 85	0.000	84.594	6.712
81	Cust 86	0.003	84.590	20.235
82	Cust 87	0.060	84.744	26.548
83	Cust 89	0.002	84.591	23.251
84	Cust 90	0.000	85.192	30.000

85	Cust 91	0.040	85.209	29.651
86	Cust 92	0.090	84.673	25.715
87	Cust 93	0.030	84.593	14.249
88	Cust 94	0.220	85.163	16.829
89	Cust 95	0.020	85.160	29.936
90	Cust 96	0.040	94.088	33.601
91	Cust 97	0.010	84.294	30.022
92	Cust 98	0.000	80.548	30.791
93	Cust 100	0.020	85.408	30.032
94	Cust 101	0.010	83.623	30.005
95	Cust 102	0.100	79.898	29.979
96	Cust 103	0.005	88.691	30.010
97	Cust 104	0.004	50.594	28.907
98	Cust 105	0.003	85.120	28.463
99	Cust 106	2.000	69.635	27.753
100	Cust 107	0.010	57.264	23.872
101	Cust 108	0.010	51.849	30.024
102	Cust 109	0.003	93.843	21.154
103	Cust 110	0.006	87.672	25.909
104	Cust 111	11.500	50.125	23.962
105	Cust 112	0.020	84.411	7.476
106	Cust 113	1.000	80.578	27.391
107	Cust 114	0.120	87.390	22.947
108	Cust 115	0.000	81.867	30.000
109	Cust 116	0.020	82.145	29.051
110	Cust 117	0.020	14.000	55.000
111	Cust 118	0.010	14.000	55.000
112	Cust 119	4.150	82.065	19.435
113	Cust 121	1.000	72.053	26.006
114	Cust 122	0.030	83.574	32.349
115	Cust 123	0.009	50.000	9.360
116	GIGL Exit	4.464	80.000	30.598
	Total	**37.010**		

GSPL HP GAS GRID All spur



GSPL HP GAS GRID with Swan & Chara



Impact data

Name	Date modified	Type	Size
HP-Allspur.TGW	16-02-2024 18:16	TGW File	1,956 KB
Input Data All spur	22-03-2024 18:53	Microsoft Excel W...	43 KB
Operating Parameters	22-03-2024 18:54	Microsoft Excel W...	19 KB
PFD GSPL grid all spur	16-02-2024 18:03	Adobe Acrobat D...	138 KB

Name	Date modified	Type	Size
HP-Allspur24.TGW	17-02-2024 11:46	TGW File	1,956 KB
PFD GSPL grid all spur	16-02-2024 18:03	Adobe Acrobat D...	138 KB

Name	Date modified	Type	Size
GSPL HP all spur 24 DBPL	18-03-2024 12:56	File folder	
GSPL HP all spur 30 DBPL	18-03-2024 12:56	File folder	
Capacity (Swan & Chhara)DBPL 24inch	22-03-2024 18:55	Microsoft Excel W...	17 KB
HP-SwanChara.TGW	14-03-2024 13:00	TGW File	1,797 KB
Input Data Swan & Chara	22-03-2024 18:56	Microsoft Excel W...	41 KB
Operating Parameters Swan & Chara	22-03-2024 18:57	Microsoft Excel W...	26 KB
Process flow diagram (PFD) Swan & Chara	14-03-2024 13:00	Adobe Acrobat D...	137 KB

Simulation files by entity

HP17-18.TGW	01-05-2023 11:20	TGW File	1,669 KB
HP18-19.TGW	01-05-2023 11:20	TGW File	1,758 KB
HP19-20.TGW	01-05-2023 11:20	TGW File	1,778 KB
HP20-21.TGW	01-05-2023 11:20	TGW File	1,760 KB
HP21-22.TGW	01-05-2023 11:20	TGW File	1,778 KB
HP22-23.TGW	01-05-2023 11:20	TGW File	1,759 KB
HP23-24.TGW	01-05-2023 11:20	TGW File	1,759 KB