



KẾT QUẢ QUAN TRẮC KHÍ THẢI TỰ ĐỘNG, LIÊN TỤC THÁNG 1/2023

Tên: CHI NHANH CÔNG TY CỔ PHẦN THÉP VIỆT Ý TÀI HẢI PHÒNG

Địa Chỉ: xã Hoàng Động và xã Kiền Bái, huyện Thủy Nguyên, thành phố Hải Phòng.

Từ: 01/01/2023 00:00 Đến 31/01/2023 23:59

Loại: Hour

#	Ngày	CO (mg/Nm ³)	NOX (mg/Nm ³)	SO2 (mg/Nm ³)	O2 (%)	DUST PM (mg/Nm ³)	Flow1 (m ³ /h)	TEMP Temp (oC)	PRESSURE (KPa)	Flow2 (m ³ /h)
1	31/01/2023 23:00	1.27	7.42	2.19	20.9	29.57	1767.48	17.89	101.33	3625.81
2	31/01/2023 22:00	1.18	4.15	1.46	20.93	29.16	1718.56	17.86	101.33	1671.89
3	31/01/2023 21:00	1.07	1.97	0.94	20.92	29.65	1724.45	17.86	101.33	1667.27
4	31/01/2023 20:00	1.37	1.44	0.9	20.92	28.85	1803.24	18.06	101.33	1723.83
5	31/01/2023 19:00	1.43	1.6	0.98	20.92	28.89	1835.5	18.96	101.33	1755.84
6	31/01/2023 18:00	1.34	1.7	0.92	20.92	29.48	1822.37	20.87	101.33	1719.64
7	31/01/2023 17:00	1.24	2.12	0.84	20.93	27.3	1825.55	25.05	101.33	3636.55
8	31/01/2023 16:00	1.19	2.54	1.41	20.92	26.35	1828.34	27.3	101.33	1693.38
9	31/01/2023 15:00	1.15	1.21	0.77	20.77	25.41	1823.17	27.27	101.33	5508.1
10	31/01/2023 14:00	1.3	1.4	0.88	20.78	22.91	1804.08	26.68	101.33	7456.45
11	31/01/2023 13:00	1.44	1.55	0.98	20.8	17.75	1886.55	26.64	101.33	14581.66
12	31/01/2023 12:00	1.08	1.19	0.74	20.83	18.26	1823.17	25.46	101.33	1671.89
13	31/01/2023 11:00	1.11	1.92	1.23	20.88	20.79	1819.19	24.41	101.33	7443.72
14	31/01/2023 10:00	1.13	4.24	1.81	20.93	23.88	3094.94	22.13	101.33	1671.74
15	31/01/2023 9:00	1.21	9.77	2.74	21.01	26.54	1790.66	17.77	101.33	3811.53
16	31/01/2023 8:00	1.36	7.96	2.26	21	29.94	1731.29	13.49	101.33	1705.71
17	31/01/2023 7:00	1.28	9.15	2.75	20.97	32.66	1725.32	12.87	101.33	1707.3
18	31/01/2023 6:00	1.35	9.12	2.2	20.96	32.77	1711.8	12.86	101.33	3611.08
19	31/01/2023 5:00	1.25	8.19	2.27	20.95	32.67	1701.06	12.86	101.33	1698.15
20	31/01/2023 4:00	1.38	7.51	2.13	20.93	32.71	1726.44	12.86	101.33	1716.88
21	31/01/2023 3:00	1.43	1.99	0.97	20.9	32.5	1720.15	13.35	101.33	1709.69
22	31/01/2023 2:00	1.31	1.33	0.85	20.9	32.36	1722.14	13.69	101.33	1687.41
23	31/01/2023 1:00	1.45	1.48	0.91	20.9	32.57	1723.73	14.16	101.33	1695.76
24	31/01/2023 0:00	1.46	1.66	0.98	20.91	32.47	1756.34	14.76	101.33	1733.56
25	30/01/2023 23:00	1.11	1.95	0.85	20.91	32.41	1703.84	14.79	101.33	1681.44
26	30/01/2023 22:00	1.35	2.82	0.92	20.92	32.42	1756.74	15.37	101.33	3625.41
27	30/01/2023 21:00	1.2	1.37	0.91	20.9	32.3	1756.74	15.69	101.33	1692.98
28	30/01/2023 20:00	1.06	1.22	0.74	20.89	32.22	1686.96	16.4	101.33	1653.52
29	30/01/2023 19:00	1.31	1.42	0.88	20.89	32.15	1781.8	17.22	101.33	1734.36
30	30/01/2023 18:00	1.29	1.39	0.87	20.89	31.94	1783.39	18.67	101.33	3632.57
31	30/01/2023 17:00	1.47	1.54	0.96	20.9	30.47	1843.85	21.99	101.33	1752.66
32	30/01/2023 16:00	1.46	8.8	3.78	20.9	27.37	1855.74	24.87	101.33	1752.91
33	30/01/2023 15:00	1.48	15.06	9.37	20.79	25.3	1844.03	26.33	101.33	1735.98
34	30/01/2023 14:00	1.33	3.45	3.02	20.81	21.82	1862.94	26.05	101.33	1727.59
35	30/01/2023 13:00	1.42	1.52	0.97	20.82	19.33	1857.37	25.43	101.33	1737.14
36	30/01/2023 12:00	1.17	1.22	0.75	20.87	19.88	1786.76	25.42	101.33	1696.92
37	30/01/2023 11:00	1.06	1.75	0.84	20.91	19.85	1783.72	24.83	101.33	7969.58
38	30/01/2023 10:00	1.35	2.96	1.37	20.95	24.02	1813.62	22.34	101.33	11295.05



39	30/01/2023 9:00	2.04	2.38	1.58	21	26.96	1761.59	17.48	101.33	7981.74
40	30/01/2023 8:00	1.9	3.43	1.55	20.99	29.11	1739.64	12.91	101.33	1696.96
41	30/01/2023 7:00	1.59	3.94	1.48	20.97	32.58	1722.54	12.23	101.33	1687.4
42	30/01/2023 6:00	1.41	2.92	1.64	20.95	32.44	1710.21	12.24	101.33	1703.32
43	30/01/2023 5:00	1.5	1.97	1.16	20.94	32.5	1740.04	12.41	101.33	1714.86
44	30/01/2023 4:00	1.42	3.63	1.41	20.93	32.43	1719.36	12.88	101.33	1690.19
45	30/01/2023 3:00	2.14	4.43	1.78	20.94	32.49	1695.21	12.86	101.33	4471.7
46	30/01/2023 2:00	2.25	4.07	1.61	20.95	32.59	1741.63	13.44	101.33	1723.83
47	30/01/2023 1:00	1.71	6.09	2.12	20.95	32.58	1722.94	13.91	101.33	3617.05
48	30/01/2023 0:00	2.17	3.56	1.51	20.95	32.43	1738.59	14.19	101.33	1717.32
49	29/01/2023 23:00	2.27	4.23	1.72	20.95	32.13	1757.68	14.76	101.33	1713.84
50	29/01/2023 22:00	2.31	4.77		20.95	32.24	1762.71	14.77	101.33	1722.02
51	29/01/2023 21:00	1.37	1.48	0.86	20.92	32.39	1740.76	15.37	101.33	1690.41
52	29/01/2023 20:00	1.43	1.51		20.92	32.18	1760.32	16.11	101.33	1707.7
53	29/01/2023 19:00	1.39	1.43	0.88	20.92	32.14	1774.64	17.06	101.33	1702.53
54	29/01/2023 18:00	1.52	1.61	1.02	20.92	31.95	1825.37	18.71	101.33	3836.28
55	29/01/2023 17:00	1.49	1.6	1.03	20.91	29.81	1844.46	22.3	101.33	3831.51
56	29/01/2023 16:00	1.36	8.49	3.92	20.89	26.47	1828.73	25.48	101.33	9379.73
57	29/01/2023 15:00	1.43	2.14	1.98	20.76	22.48	1867.89	26.28	101.33	3820.65
58	29/01/2023 14:00	1.43	1.52	0.98	20.78	22.45	1852.99	25.06	101.33	3648.88
59	29/01/2023 13:00	1.32	1.43	0.83	20.8	17.37	1825.16	24.78	101.33	1711.68
60	29/01/2023 12:00	1.44	1.52	0.98	20.85	19.34	1864.93	24.33	101.33	1735.15
61	29/01/2023 11:00	1.35	1.43	0.91	20.88	20.18	1839.87	23.75	101.33	1715.26
62	29/01/2023 10:00	1.45	9.87	4.98	20.94	24.34	1824.76	21.34	101.33	3646.89
63	29/01/2023 9:00	1.37	1.48	0.93	21.1	27.56	1760.72	17.04	101.33	5532.37
64	29/01/2023 8:00	1.37	1.71	1.15	21.05	29.45	1732.08	13.07	101.33	5527.2
65	29/01/2023 7:00	1.34	1.56	1.06	21.02	32.65	1725.14	11.78	101.33	1707.34
66	29/01/2023 6:00	1.42	2.54	1.32	20.99	32.58	1725.58	12.01	101.33	1693.88
67	29/01/2023 5:00	1.48	2.69	0.98	20.96	32.43	1723.73	12.24	101.33	1704.91
68	29/01/2023 4:00	1.39	2.33	1.38	20.94	32.35	1712.2	12.49	101.33	1686.21
69	29/01/2023 3:00	1.47	1.99	1.33	20.94	32.36	1731.29	12.87	101.33	3625
70	29/01/2023 2:00	1.46	2.14	1.23	20.94	32.27	1747.99	13.19	101.33	3631.38
71	29/01/2023 1:00	1.39	2.23	0.94	20.94	32.62	1738.05	13.48	101.33	1689.79
72	29/01/2023 0:00	1.44	2.01		20.93	32.69	1743.62	13.96	101.33	1704.91
73	28/01/2023 23:00	1.08	2.8	1.54	20.93	32.7	1686.09	14.2	101.33	3731.67
74	28/01/2023 22:00	1.34	2.1	1.55	20.94	32.42	1733.52	14.75	101.33	6646.95
75	28/01/2023 21:00	1.34	1.43	0.9	20.92	32.47	1720.8	15.2	101.33	1691.71
76	28/01/2023 20:00	1.44	1.56	0.97	20.92	32.59	1763.9	15.54	101.33	1709.29
77	28/01/2023 19:00	1.34	1.39	0.89	20.92	32.45	1763.9	16.31	101.33	1703.72
78	28/01/2023 18:00	1.35	1.41	0.88	20.92	32.34	1756.91	17.81	101.33	1662.02
79	28/01/2023 17:00	1.45	1.47	0.95	20.91	30.65	1801.07	21.37	101.33	1712.98
80	28/01/2023 16:00	1.52	8.89	4.06	20.89	26.67	1858.16	24.8	101.33	1738.33
81	28/01/2023 15:00	1.43	1.51	0.98	20.8	25.31	1832.74	24.84	101.33	3809.8
82	28/01/2023 14:00	1.49	1.58	1.03	20.82	23.12	1821.9	23.93	101.33	1723.4
83	28/01/2023 13:00	1.32	1.4	0.92	20.84	20.08	1804.07	23.15	101.33	1698.14
84	28/01/2023 12:00	1.45	1.56	0.97	20.86	19.46	1835.89	22.75	101.33	3641.32
85	28/01/2023 11:00	1.46	1.54	1.01	20.9	21.84	1813.62	21.64	101.33	3619.04
86	28/01/2023 10:00	1.39	4.81	2.5	20.94	26.51	1792.94	19.17	101.33	1681.84
87	28/01/2023 9:00	1.37	1.54	0.94	21.06	32.05	1755.95	15.79	101.33	1700.94
88	28/01/2023 8:00	1.47	1.56		21.04	32.45	1756.35	14.59	101.33	1710.08

89	28/01/2023 7:00	1.38	1.5	0.94	21.01	32.64	1731.69	14.11	101.33	1691.38
90	28/01/2023 6:00	1.51	1.6	0.99	20.97	32.55	1736.38	14.12	101.33	1708.33
91	28/01/2023 5:00	1.33	1.72	0.94	20.94	32.37	1732.52	14.57	101.33	1699.09
92	28/01/2023 4:00	1.44	5.19	1.89	20.93	32.62	1729.3	14.74	101.33	1686.21
93	28/01/2023 3:00	1.32	1.45	0.93	20.94	32.67	1751.97	14.74	101.33	1691.78
94	28/01/2023 2:00	1.45	1.56	0.97	20.95	32.69	1748.39	14.74	101.33	1711.28
95	28/01/2023 1:00	1.46	1.52	0.96	20.94	32.69	1759.85	14.74	101.33	5889.26
96	28/01/2023 0:00	1.55	1.6	1.04	20.95	32.74	1773.05	15.07	101.33	3823.54
97	27/01/2023 23:00	1.46	1.56	0.99	20.95	32.67	1765.93	15.37	101.33	1714.28
98	27/01/2023 22:00	1.48	2.39	1.28	20.95	32.23	1772.26	15.37	101.33	1723.61
99	27/01/2023 21:00	1.4	1.48	0.91	21	31.33	1750.38	15.36	101.33	1700.14
100	27/01/2023 20:00	1.5	1.6	0.99	20.99	31.73	1769.87	15.68	101.33	5543.91
101	27/01/2023 19:00	1.46	1.55	1	20.97	32.38	1772	16	101.33	10080.29
102	27/01/2023 18:00	1.56	1.65	1.01	20.97	32.69	1798.91	16.27	101.33	1739.93
103	27/01/2023 17:00	1.41	1.47	0.9	20.95	32.79	1757.54	16.73	101.33	1705.31
104	27/01/2023 16:00	1.4	7.22	3.63	20.95	32.67	1777.03	17.26	101.33	3642.51
105	27/01/2023 15:00	1.47	1.54	1	20.92	32.4	1794.57	17.82	101.33	1715.15
106	27/01/2023 14:00	1.52	1.58	1.02	20.92	32.38	1799.3	17.88	101.33	1727.99
107	27/01/2023 13:00	1.45	1.52	0.96	20.92	32.16	1794.53	17.61	101.33	1711.67
108	27/01/2023 12:00	1.47	1.59	1.03	20.94	32.17	1798.9	16.92	101.33	1737.72
109	27/01/2023 11:00	1.4	1.49	0.95	20.94	32.45	1758.34	16.62	101.33	1706.9
110	27/01/2023 10:00	1.59	4.37	2.73	20.96	32.36	1751.17	16.62	101.33	1722.53
111	27/01/2023 9:00	1.53	6.5	1.88	21.02	32.25	1773.05	16.63	101.33	1714.06
112	27/01/2023 8:00	1.35	1.43	0.89	21.02	32.32	1733.28	16.6	101.33	1680.64
113	27/01/2023 7:00	1.5	1.6	1.08	20.99	32.59	1785.38	16.62	101.33	1724.81
114	27/01/2023 6:00	1.81	1.45	0.91	20.9	32.27	1757.94	16.62	101.33	1706.11
115	27/01/2023 5:00	1.64	11.76	5.39	20.79	32.27	1821.57	16.64	101.33	7486.68
116	27/01/2023 4:00	1.66	2.48	1.19	20.92	32.28	1802.88	17.21	101.33	5571.36
117	27/01/2023 3:00	1.53	6.03	1.14	20.97	32.08	1803.68	17.26	101.33	1737.94
118	27/01/2023 2:00	1.51	6.22	1.02	20.95	31.55	1798.11	17.73	101.33	1726.39
119	27/01/2023 1:00	1.5	5.1	1	20.95	29.35	1797.31	17.87	101.33	1734.75
120	27/01/2023 0:00	1.42	1.46	0.96	20.95	28.89	1765.1	17.89	101.33	1731.57
121	26/01/2023 23:00	1.35	1.46	0.93	20.94	28.8	1757.94	17.87	101.33	1690.59
122	26/01/2023 22:00	2.11	39.43	16.23	20.93	31.08	1761.59	17.87	101.33	1709.51
123	26/01/2023 21:00	1.41	1.52	0.96	21	31.59	1785.02	17.88	101.33	3661.79
124	26/01/2023 20:00	1.52	1.61	1.06	21	30.86	1805.26	17.95	101.33	1747.88
125	26/01/2023 19:00	1.46	1.54	0.95	20.98	30.32	1806.06	18.5	101.33	5553.86
126	26/01/2023 18:00	1.54	1.66	1.06	20.96	30.11	1810.84	18.98	101.33	1728.39
127	26/01/2023 17:00	1.3	1.41	1.01	20.94	28.84	1800.21	19.75	101.33	1689.97
128	26/01/2023 16:00	1.52	7.68	3.95	20.91	27.99	1836.69	21.28	101.33	1726.4
129	26/01/2023 15:00	1.45	1.46	0.94	20.82	27.09	1840.27	22.38	101.33	3650.08
130	26/01/2023 14:00	1.45	1.54	0.96	20.83	27.12	1831.87	21.53	101.33	5907.92
131	26/01/2023 13:00	1.38	1.48	0.96	20.84	26.89	1821.97	22.22	101.33	5557.44
132	26/01/2023 12:00	1.38	1.49	0.96	20.87	26.58	1808.85	21.8	101.33	5553.46
133	26/01/2023 11:00	1.39	5.92	2.79	20.89	26.31	1835.49	20.71	101.33	3655.25
134	26/01/2023 10:00	1.67	20.98	9.85	20.94	26.72	1831.92	19.15	101.33	2138.98
135	26/01/2023 9:00	1.5	1.58	1	21.05	27.8	1791.35	17.15	101.33	1735.55
136	26/01/2023 8:00	1.32	1.47	0.93	21.04	30.62	1733.28	15.52	101.33	1701.33
137	26/01/2023 7:00	1.56	1.66	1.07	21.02	31.06	1779.42	14.76	101.33	1736.34
138	26/01/2023 6:00	1.34	1.46	0.82	21	31.77	1759.77	14.23	101.33	1705.47

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139	26/01/2023 5:00	1.55	1.63	1	20.99	32.53	1761.52	14.12	101.33	3644.11
140	26/01/2023 4:00	1.56	2.71	1.21	20.94	32.38	1757.54	14.12	101.33	1727.99
141	26/01/2023 3:00	1.51	1.57	1.01	20.94	32.51	1725.58	14.12	101.33	7975.66
142	26/01/2023 2:00	1.55	1.58	1.04	20.95	32.49	1723.84	14.12	101.33	1727.73
143	26/01/2023 1:00	1.35	1.59	1.06	20.95	32.27	1742.5	14.16	101.33	4096.69
144	26/01/2023 0:00	1.5	1.57	1.04	20.95	32.31	1729.3	14.74	101.33	1699.74
145	25/01/2023 23:00	1.38	1.46	0.92	20.94	32.33	1733.28	14.72	101.33	1695.76
146	25/01/2023 22:00	1.47	3.14	1.02	20.94	32.44	3171.3	15.32	101.33	1720.79
147	25/01/2023 21:00	1.49	1.61	1.05	20.9	32.4	1846.23	15.49	101.33	1734.75
148	25/01/2023 20:00	1.64	1.59	0.93	20.91	32.3	1740.44	16.05	101.33	1698.95
149	25/01/2023 19:00	2.12	1.43	0.91	20.9	32.16	1735.99	16.7	101.33	1711.24
150	25/01/2023 18:00	2.15	1.61	1.02	20.9	31.86	1751.97	17.68	101.33	1703.32
151	25/01/2023 17:00	2.65	5.11	2.51	20.9	31.48	1825.15	20.36	101.33	5571.36
152	25/01/2023 16:00	2.92	32.87	14.51	20.87	29.04	1768.28	22.55	101.33	9322.03
153	25/01/2023 15:00	1.38	1.49	0.95	20.78	26.53	1793.73	23.22	101.33	3622.22
154	25/01/2023 14:00	1.44	1.53	0.96	20.8	22.73	1825.15	23.54	101.33	1720.43
155	25/01/2023 13:00	1.32	1.37	0.83	20.82	20.07	1779.81	23.51	101.33	3749.47
156	25/01/2023 12:00	2	1.51	0.96	20.86	19.48	1811.63	23.42	101.33	3611.08
157	25/01/2023 11:00	1.87	1.64	0.95	20.89	21.35	1798.5	22.21	101.33	1714.86
158	25/01/2023 10:00	1.64	5.82	1.29	20.94	26.35	1818.43	19.09	101.33	8015.16
159	25/01/2023 9:00	1.42	1.49	0.94	21.04	31.51	1738.05	15.99	101.33	5526.8
160	25/01/2023 8:00	1.52	2.48	1.14	21.02	31.53	1733.28	13.33	101.33	1712.47
161	25/01/2023 7:00	1.56	5.34	1.56	21	32.27	1738.05	12.87	101.33	1714.86
162	25/01/2023 6:00	1.56	5.4	1.7	20.98	32.22	1724.13	12.86	101.33	1703.72
163	25/01/2023 5:00	1.62	4.16	1.72	20.95	32.12	1719.94	13.04	101.33	1702.13
164	25/01/2023 4:00	1.85	26.35	12.38	20.96	32.03	1715.78	13.59	101.33	1699.74
165	25/01/2023 3:00	3.05	110.58	54.15	20.96	31.98	1715.6	14.11	101.33	1700.39
166	25/01/2023 2:00	3.66	122.51	60.37	20.97	32.09	1757.54	14.55	101.33	1728.78
167	25/01/2023 1:00	2.66	108.99	53.28	20.98	31.95	1766.29	14.91	101.33	1730.37
168	25/01/2023 0:00	2.98	99.89	48.68	20.98	32	1760.72	15.38	101.33	1706.11
169	24/01/2023 23:00	3.04	82.67	38.97	20.99	32.07	1781.8	15.81	101.33	1735.15
170	24/01/2023 22:00	2.02	33.37	16.14	20.97	32.09	1785.02	16.42	101.33	1734.68
171	24/01/2023 21:00	1.93	1.84	1.15	20.85	32.04	1808.88	16.87	101.33	1748.57
172	24/01/2023 20:00	1.55	1.64	1.02	20.97	31.84	1764.7	17.37	101.33	1711.67
173	24/01/2023 19:00	1.65	1.74	1.15	20.95	31.72	1800.1	18.11	101.33	1739.92
174	24/01/2023 18:00	1.67	1.76	1.11	20.93	30.58	1819.19	19.52	101.33	1741.52
175	24/01/2023 17:00	1.54	1.62	1.09	20.92	27.84	1812.82	22.22	101.33	1702.53
176	24/01/2023 16:00	2.13	36.6	17.43	20.93	26.42	1837.48	24.42	101.33	3656.84
177	24/01/2023 15:00	4.08	148.59	71.26	20.95	26.21	1838.38	24.49	101.33	1717.75
178	24/01/2023 14:00	4.28	167.09	79.11	20.97	23.65	1808.45	23.42	101.33	3805.46
179	24/01/2023 13:00	4.03	146.52	70.82	21	25.72	1806.86	22.54	101.33	5570.57
180	24/01/2023 12:00	4.14	132.76	62.65	21.03	28.91	1821.58	20.75	101.33	1728.79
181	24/01/2023 11:00	3.59	106.77	50.92	21.05	31.51	1786.97	19.29	101.33	3637.34
182	24/01/2023 10:00	2.55	59.64	27.59	21.01	31.74	1820.78	18.26	101.33	1747.88
183	24/01/2023 9:00	1.71	1.81	1.14	20.97	32.01	1787.77	17.83	101.33	1740.32
184	24/01/2023 8:00	1.62	1.68	1.08	21.08	32.14	1796.12	17.26	101.33	1742.31
185	24/01/2023 7:00	1.62	1.69	1.09	21.04	31.94	1773.85	17.25	101.33	1708.1
186	24/01/2023 6:00	2.19	1.78	1.09	20.81	32.22	1771.06	17.38	101.33	1730.38
187	24/01/2023 5:00	1.62	1.67	1.1	20.96	32.1	1767.88	17.88	101.33	1724.01
188	24/01/2023 4:00	2.68	32.15	14.09	20.82	31.92	1806.28	17.89	101.33	1749.44

189	24/01/2023 3:00	3.41	104.07	48.91	21	31.79	1802.48	18.31	101.33	3665.19
190	24/01/2023 2:00	3.21	83.78	38.78	20.98	31.19	1786.17	19.14	101.33	1730.37
191	24/01/2023 1:00	2.14	36.19	17.45	20.97	30.7	1796.52	19.45	101.33	1724.81
192	24/01/2023 0:00	1.7	1.76	1.19	20.78	30.41	1808.45	19.77	101.33	1756.64
193	23/01/2023 23:00	2.13	47.68	21.84	20.9	29.21	1779.81	20.28	101.33	1692.58
194	23/01/2023 22:00	2.99	56.51	25.2	20.95	28.79	1838.39	20.92	101.33	1752.47
195	23/01/2023 21:00	1.77	1.84	1.18	20.83	27.68	1848.62	21.18	101.33	1751.07
196	23/01/2023 20:00	1.69	1.78	1.11	21.04	27.62	2871.59	21.66	101.33	1750.67
197	23/01/2023 19:00	1.63	1.71	1.08	21.02	27.25	1835.09	22.18	101.33	1738.73
198	23/01/2023 18:00	1.76	1.82	1.18	21.01	26.98	1877.44	22.81	101.33	1768.97
199	23/01/2023 17:00	1.61	1.62	1.07	20.98	26.9	1851.84	24.09	101.33	1732.08
200	23/01/2023 16:00	1.84	6.49	3.31	20.95	26.49	1891.32	25.54	101.33	1759.42
201	23/01/2023 15:00	1.88	1.81	1.17	20.85	24.92	1913.05	27.16	101.33	5611.55
202	23/01/2023 14:00	1.58	1.71	1.07	20.92	18.8	1889.58	27.82	101.33	9396.04
203	23/01/2023 13:00	1.54	1.6	1.03	20.94	20	1883.22	27.5	101.33	1753.05
204	23/01/2023 12:00	1.63	1.67	1.06	20.97	17.14	1914.65	28.77	101.33	9431.45
205	23/01/2023 11:00	1.59	1.64	1.08	21	18.19	1902.17	27.02	101.33	1770.27
206	23/01/2023 10:00	1.87	1.78	1.09	20.9	23.09	1895.55	25.68	101.33	5598.02
207	23/01/2023 9:00	1.64	1.83	1.19	20.93	24.88	1859.36	22.81	101.33	1761.01
208	23/01/2023 8:00	1.63	1.72	1.1	21.02	26.27	1830.33	20.61	101.33	1751.06
209	23/01/2023 7:00	1.58	1.65	1.06	21	27.3	1779.42	19.76	101.33	1728.39
210	23/01/2023 6:00	1.6	1.72	1.11	20.98	27.29	1819.98	19.77	101.33	1749.08
211	23/01/2023 5:00	1.58	1.65	0.95	20.96	27.15	1803.68	19.76	101.33	5565
212	23/01/2023 4:00	1.62	2.89	1.64	20.95	27.48	1813.65	19.78	101.33	1747.7
213	23/01/2023 3:00	1.7	1.78	1.13	20.91	27.65	1845.84	20.41	101.33	1768.97
214	23/01/2023 2:00	1.5	1.54	0.98	20.91	27.38	1775.04	20.38	101.33	1724.26
215	23/01/2023 1:00	1.59	1.67	1.04	20.93	26.92	1822.77	20.39	101.33	1743.11
216	23/01/2023 0:00	1.58	1.69	1.09	20.92	26.01	1823.96	20.4	101.33	1749.47
217	22/01/2023 23:00	1.73	1.83	1.14	20.75	26.6	1861.34	20.42	101.33	1779.71
218	22/01/2023 22:00	1.8	2.39	1.32	20.94	26.27	1851.01	20.41	101.33	1759.82
219	22/01/2023 21:00	1.65	1.73	1.1	21	26.6	1837.08	20.98	101.33	1755.44
220	22/01/2023 20:00	1.65	1.72	1.1	21	27.26	1837.09	21.04	101.33	1764.59
221	22/01/2023 19:00	1.59	1.68	1.04	21.01	27.26	1816.4	21.23	101.33	1741.51
222	22/01/2023 18:00	1.48	1.58	1.02	20.99	26.87	1803.68	21.7	101.33	1714.06
223	22/01/2023 17:00	1.62	1.71	1.09	20.99	26.31	1864.13	22.6	101.33	1739.92
224	22/01/2023 16:00	1.68	6.39	3.34	20.95	24.58	1849.23	23.42	101.33	1740.32
225	22/01/2023 15:00	1.51	1.52	0.99	20.8	23.46	1858.34	23.54	101.33	1755.51
226	22/01/2023 14:00	1.57	1.7	1.02	20.82	24.5	1849.42	23.06	101.33	1757.03
227	22/01/2023 13:00	1.49	1.61	1.02	20.84	25.38	1820.78	22.91	101.33	1729.58
228	22/01/2023 12:00	1.46	1.55	0.99	20.86	25.84	1834.3	22.91	101.33	1750.67
229	22/01/2023 11:00	1.46	1.62	1.06	20.89	24.95	1807.66	23.36	101.33	1716.85
230	22/01/2023 10:00	1.48	7.23	3.04	20.93	24.31	1827.54	23.15	101.33	5565.79
231	22/01/2023 9:00	1.5	1.59	0.96	21.04	24.36	1792.94	21.49	101.33	7481.51
232	22/01/2023 8:00	1.52	1.6	1.02	21.03	27.09	1808.05	19.2	101.33	5585.29
233	22/01/2023 7:00	1.52	1.62	1.03	21.01	28.24	1774.24	18.25	101.33	1733.17
234	22/01/2023 6:00	1.52	1.63	0.98	21	29.09	1780.61	17.88	101.33	1744.7
235	22/01/2023 5:00	1.57	1.67	1.06	20.97	29.88	1782.85	17.89	101.33	1745.97
236	22/01/2023 4:00	1.59	10.87	4.28	20.93	29.42	1770.27	17.89	101.33	1736.85
237	22/01/2023 3:00	1.56	1.64	1.03	20.91	29.68	1772.65	17.89	101.33	1735.95
238	22/01/2023 2:00	1.46	1.55	1	20.92	29.83	1736.86	17.88	101.33	1716.45

239	22/01/2023 1:00	1.56	1.65	1.04	20.93	30.62	1767.08	17.89	101.33	1733.16
240	22/01/2023 0:00	1.6	1.69	1.09	20.94	30.67	1782.2	17.89	101.33	1743.11
241	21/01/2023 23:00	1.56	1.63	1	20.94	28.66	1792.14	17.95	101.33	5576.54
242	21/01/2023 22:00	1.6	3.69	2.42	20.93	29.14	1791.74	18.53	101.33	1752.74
243	21/01/2023 21:00	1.36	1.63	1	20.95	29.3	1735.9	19	101.33	1693.06
244	21/01/2023 20:00	1.44	1.53	0.96	20.93	28.89	1750.31	19.42	101.33	1706.9
245	21/01/2023 19:00	1.31	1.82	0.81	20.93	28.42	1724.93	20.16	101.33	1667.91
246	21/01/2023 18:00	1.42	1.48	0.98	20.94	27.75	1798.47	21.86	101.33	1723.39
247	21/01/2023 17:00	1.46	1.54	1.03	20.94	26.84	1841.46	25.26	101.33	1737.54
248	21/01/2023 16:00	1.47	1.95	1.25	20.91	25.44	1859.76	28.14	101.33	1749.07
249	21/01/2023 15:00	1.52	1.58	0.97	20.81	22.47	1861.35	28.56	101.33	1748.28
250	21/01/2023 14:00	1.44	1.51	0.91	20.82	15.36	1843.05	27.43	101.33	1718.04
251	21/01/2023 13:00	1.42	1.5	1	20.86	19.54	1833.51	26.52	101.33	1737.54
252	21/01/2023 12:00	1.46	1.49	0.95	20.89	15.13	1838.82	27.06	101.33	1721.23
253	21/01/2023 11:00	1.45	1.58	1.01	20.92	17.6	1866.59	26.56	101.33	1747.27
254	21/01/2023 10:00	1.56	2.19	1.46	20.97	22.37	1843.85	24.89	101.33	5586.09
255	21/01/2023 9:00	1.55	1.6	1.01	21.02	25.34	1785.78	20.45	101.33	3655.65
256	21/01/2023 8:00	1.44	1.51	0.95	21.01	27.79	1737.65	16.36	101.33	1709.29
257	21/01/2023 7:00	1.45	1.56	0.99	21	30.35	1747.2	16.01	101.33	2386.46
258	21/01/2023 6:00	1.55	1.62	1.02	20.98	30.71	1746.4	15.74	101.33	1733.16
259	21/01/2023 5:00	1.51	1.61	1.04	20.96	30.54	1736.46	15.58	101.33	3634.16
260	21/01/2023 4:00	1.52	2.08	1.4	20.95	31.44	1731.21	16.01	101.33	1728.6
261	21/01/2023 3:00	1.62	1.7	1.07	20.91	31.46	1769.47	16.58	101.33	3657.24
262	21/01/2023 2:00	1.48	1.53	0.97	20.91	30.44	1737.29	16.61	101.33	1733.81
263	21/01/2023 1:00	1.45	1.56	1.01	20.92	31.06	1721.34	16.62	101.33	1716.06
264	21/01/2023 0:00	1.27	1.42	0.96	20.93	31.5	1687.94	16.92	101.33	1671.49
265	20/01/2023 23:00	1.46	1.55	1.02	20.93	30.01	1773.05	17.26	101.33	1713.27
266	20/01/2023 22:00	1.6	2.05	1.43	20.95	29.22	1768.83	17.76	101.33	1726
267	20/01/2023 21:00	1.56	1.67	1.08	20.96	28.44	1775.47	18.06	101.33	1739.46
268	20/01/2023 20:00	1.42	1.49	0.97	20.96	30.03	1745.21	18.6	101.33	1685.42
269	20/01/2023 19:00	1.49	1.58	1.02	20.96	31.43	1769.07	19.35	101.33	1729.18
270	20/01/2023 18:00	1.5	1.61	0.98	20.95	30.74	1784.98	20.45	101.33	1744.3
271	20/01/2023 17:00	1.45	1.58	0.98	20.94	28.39	1794.93	22.78	101.33	1726.4
272	20/01/2023 16:00	1.44	1.9	1.06	20.93	27.57	1799.33	24.16	101.33	1739.46
273	20/01/2023 15:00	1.45	1.59	1	20.82	26.76	1790.66	24.5	101.33	5906.62
274	20/01/2023 14:00	1.42	1.59	1	20.84	24.04	1804.87	24.11	101.33	1751.07
275	20/01/2023 13:00	1.53	1.58	1	20.85	26.41	1809.64	22.91	101.33	1740.32
276	20/01/2023 12:00	1.55	1.66	1.05	20.88	27.52	1824.36	23.28	101.33	7502.2
277	20/01/2023 11:00	1.59	1.7	1.08	20.92	25.78	1836.69	23.7	101.33	1762.21
278	20/01/2023 10:00	1.6	2.76	1.48	20.96	26.33	1827.54	22.86	101.33	3656.44
279	20/01/2023 9:00	1.49	1.66	1.06	21.03	28.08	1789.75	20.4	101.33	1739.53
280	20/01/2023 8:00	1.48	1.59	1.03	21.03	30.55	1765.89	17.51	101.33	1747.88
281	20/01/2023 7:00	1.6	1.71	1.09	21.01	30.3	1782.2	17.27	101.33	1749.48
282	20/01/2023 6:00	1.52	1.59	1.01	20.99	28.99	1730.49	17.26	101.33	1720.03
283	20/01/2023 5:00	1.52	1.56	0.93	20.97	29.52	1753.96	17.77	101.33	1719.63
284	20/01/2023 4:00	1.48	2.09	1.63	20.95	30.24	1774.6	17.9	101.33	1740.32
285	20/01/2023 3:00	1.54	1.62	1.05	20.92	29.76	1767.09	17.89	101.33	1740.32
286	20/01/2023 2:00	1.48	1.55	1	20.93	29.74	1759.85	17.88	101.33	1719.05
287	20/01/2023 1:00	1.55	1.62	0.95	20.92	29.5	1748.57	17.88	101.33	18081.72
288	20/01/2023 0:00	1.45	1.57	1	20.94	29.39	1768.67	18.26	101.33	1737.54

289	19/01/2023 23:00	1.42	1.49	0.97	20.94	28.66	1758.12	18.51	101.33	1723.83
290	19/01/2023 22:00	1.46	1.72	1.09	20.95	29.85	1746.4	18.52	101.33	1720.03
291	19/01/2023 21:00	1.5	1.58	1.03	20.98	30.16	1758.55	18.51	101.33	3758.58
292	19/01/2023 20:00	1.42	1.55	1	20.98	30.36	1744.41	18.83	101.33	9388.48
293	19/01/2023 19:00	1.52	1.59	1.04	20.96	29.62	1771.86	19.14	101.33	5562.61
294	19/01/2023 18:00	1.53	1.63	1.06	20.95	29.64	1786.18	19.35	101.33	1743.11
295	19/01/2023 17:00	1.55	1.57	1.02	20.95	28	1787.19	19.95	101.33	1746.83
296	19/01/2023 16:00	1.5	5.5	2.08	20.91	27.42	1772.66	20.67	101.33	1722.82
297	19/01/2023 15:00	1.47	1.61	1	20.84	27.33	1771.46	21.03	101.33	5567.78
298	19/01/2023 14:00	1.34	1.43	0.9	20.85	27.39	1739.02	21.17	101.33	1682.59
299	19/01/2023 13:00	1.37	1.45	0.93	20.87	27.11	1752.13	21.51	101.33	4001.95
300	19/01/2023 12:00	1.52	1.61	0.99	20.89	26.53	1776.23	20.81	101.33	3646.09
301	19/01/2023 11:00	1.39	1.47	0.95	20.92	26.79	1775.47	19.7	101.33	1708.64
302	19/01/2023 10:00	1.44	2.13	1.21	20.95	28.43	1722.1	18.45	101.33	1707.34
303	19/01/2023 9:00	1.37	1.47	0.92	21.07	31.7	1703.45	17.65	101.33	1668.7
304	19/01/2023 8:00	1.29	1.42	0.95	21.05	32.16	1682.77	17.24	101.33	1682.63
305	19/01/2023 7:00	1.45	1.56	0.97	21.03	32.08	1735.26	17.23	101.33	1713.66
306	19/01/2023 6:00	1.42	1.48	0.96	21	32.17	1712.2	17.44	101.33	3609.49
307	19/01/2023 5:00	1.57	1.66	1.01	20.98	32.27	1750.31	17.89	101.33	1734.68
308	19/01/2023 4:00	1.49	6.49	2.58	20.94	32.08	1727.74	17.87	101.33	1693.88
309	19/01/2023 3:00	1.53	1.62	1.01	20.89	32.13	1711.4	17.87	101.33	1699.34
310	19/01/2023 2:00	1.47	1.58	0.92	20.89	31.71	1729.7	17.88	101.33	1714.46
311	19/01/2023 1:00	1.52	1.61	1.01	20.9	31.84	1741.23	18.3	101.33	1726.4
312	19/01/2023 0:00	1.44	1.63	1.01	20.92	31.72	1745.61	18.52	101.33	1716.05
313	18/01/2023 23:00	1.5	1.56	1.02	20.92	31.41	1729.3	19.13	101.33	1702.53
314	18/01/2023 22:00	1.59	5.96	2.54	20.92	31.38	1758.12	19.31	101.33	1724.26
315	18/01/2023 21:00	1.44	17.83	8.42	20.92	31.56	1745.1	19.76	101.33	1685.63
316	18/01/2023 20:00	1.51	7.59	4.01	20.92	32.07	1773.3	19.77	101.33	1735.98
317	18/01/2023 19:00	1.46	10.15	4.63	20.91	31.82	1725.32	20.04	101.33	4532.14
318	18/01/2023 18:00	1.58	11.64	5.32	20.9	31.63	1737.25	20.44	101.33	1718.04
319	18/01/2023 17:00	2.64	44.32	20.78	20.89	31.32	1757.54	21.33	101.33	1716.85
320	18/01/2023 16:00	1.56	6.14	3.37	20.9	29.54	1785.38	22.5	101.33	1746.29
321	18/01/2023 15:00	1.44	1.47	0.95	20.81	26.74	1789.36	23.94	101.33	1736.75
322	18/01/2023 14:00	1.48	1.68	1.02	20.83	24.96	1790.22	24.68	101.33	1736.85
323	18/01/2023 13:00	1.45	1.77	0.96	20.85	25.42	1774.56	23.78	101.33	1716.93
324	18/01/2023 12:00	1.52	4.16	1.04	20.88	25.86	1785.78	23.28	101.33	1741.91
325	18/01/2023 11:00	1.46	4.5	1.79	20.92	26.13	1757.94	22.17	101.33	3644.11
326	18/01/2023 10:00	1.51	8	3.19	20.96	27.32	1765.89	21.5	101.33	15152.35
327	18/01/2023 9:00	1.58	1.66	1.06	21.04	29.59	1762.71	20.14	101.33	1735.95
328	18/01/2023 8:00	1.61	1.68	1.09	21.03	31.61	1763.9	19.42	101.33	1735.55
329	18/01/2023 7:00	1.49	1.66	1	21	32.07	1725.72	19.14	101.33	1719.24
330	18/01/2023 6:00	1.49	1.62	1.01	20.97	32.26	1730.1	19.14	101.33	1721.62
331	18/01/2023 5:00	1.47	1.52	0.97	20.95	32.15	1724.53	19.7	101.33	1684.62
332	18/01/2023 4:00	1.86	17.92	8.9	20.92	32.05	1753.56	20.19	101.33	3639.73
333	18/01/2023 3:00	1.34	1.46	0.94	20.88	31.61	1742.82	20.39	101.33	1714.46
334	18/01/2023 2:00	1.56	1.66	1.06	20.88	31.9	1747.2	20.92	101.33	1727.99
335	18/01/2023 1:00	1.47	1.67	1.03	20.88	31.65	1734.47	21.22	101.33	1711.28
336	18/01/2023 0:00	1.54	2.7	1.07	20.88	31.6	1739.64	21.66	101.33	1723.21
337	17/01/2023 23:00	1.64	3.39	1.08	20.89	32.11	1764.3	21.66	101.33	1737.93
338	17/01/2023 22:00	1.61	2.62	1.07	20.93	32.22	1766.92	21.66	101.33	1740.32

339	17/01/2023 21:00	1.5	1.59	1.06	21.03	32.18	1755.55	21.86	101.33	1735.15
340	17/01/2023 20:00	1.36	1.46	0.98	21.01	32.13	1709.82	22.37	101.33	3604.32
341	17/01/2023 19:00	1.58	1.67	1	20.99	32.06	1745.53	23.25	101.33	1727.74
342	17/01/2023 18:00	1.55	1.59	1	20.97	31.92	1740.44	24.32	101.33	1712.47
343	17/01/2023 17:00	2.18	1.75	1.12	20.95	30.98	1801.29	25.75	101.33	1751.07
344	17/01/2023 16:00	3.72	29	13.14	20.93	29.78	1805.27	27	101.33	1744.3
345	17/01/2023 15:00	1.65	1.73	1.1	20.93	30.05	1809.64	28.1	101.33	11328.47
346	17/01/2023 14:00	1.56	1.66	1.05	20.93	28.74	1785.38	29.24	101.33	3648.08
347	17/01/2023 13:00	1.54	1.64	1.06	20.93	29.03	1794.93	29.87	101.33	3649.28
348	17/01/2023 12:00	1.52	1.61	1.04	20.95	29.57	1788.56	30.59	101.33	11312.95
349	17/01/2023 11:00	2.53	1.6	0.98	20.96	31.01	1777.03	31.93	101.33	1704.91
350	17/01/2023 10:00	5.34	1.78	1.07	20.92	30.68	1832.31	34.47	101.33	1731.97
351	17/01/2023 9:00	13.11	1.66	1.06	20.84	29.83	102434.61	42.01	101.33	156125.81
352	17/01/2023 8:00	154.05	8.37	13.52	20.17	30.32	236868.53	77.73	101.33	407643.67
353	17/01/2023 7:00	185.34	4.82	2.56	20.09	30.15	239339.25	78.28	101.33	420700.38
354	17/01/2023 6:00	184.93	10.09	6.48	20.17	28.96	236529.26	76.45	101.33	422250.86
355	17/01/2023 5:00	225.89	32.19	17.06	19.95	29.01	234551.33	77.59	101.33	396138.21
356	17/01/2023 4:00	126.99	48.23	24.74	20.3	28.95	232463.19	77.19	101.33	397383.08
357	17/01/2023 3:00	226.65	57.54	28.2	20.34	30.28	233606.31	74.38	101.33	395094.99
358	17/01/2023 2:00	210.96	49.83	24.34	20.15	30.83	231193.63	76.01	101.33	393576.16
359	17/01/2023 1:00	229.13	38.92	19.99	20.16	29.43	205998.04	78.77	101.33	374253.64
360	17/01/2023 0:00	185.5	19.48	14.91	20.18	28.93	227989.92	72.65	101.33	391573.48
361	16/01/2023 23:00	257.32	4.29	14.18	20.12	30.45	228310.76	72.39	101.33	387660.23
362	16/01/2023 22:00	123.37	7.44	7	20.4	30.44	228453.52	71.58	101.33	389804.65
363	16/01/2023 21:00	175.54	8	9.68	20.33	30.43	229313.58	70.82	101.33	388153.84
364	16/01/2023 20:00	236.9	7.49	5.46	20.21	31.69	179988.27	63.96	101.33	353971.68
365	16/01/2023 19:00	23.23	1.78	1.15	20.93	31.79	30335.05	31.12	101.33	44818.67
366	16/01/2023 18:00	13.93	1.88	1.19	20.83	31.46	1796.52	34.63	101.33	1766.18
367	16/01/2023 17:00	16	1.6	1.03	20.92	30.34	143403.15	50.85	101.33	259997.19
368	16/01/2023 16:00	111.16	3.44	5.51	20.42	29.56	239350.78	77.79	101.33	418829.54
369	16/01/2023 15:00	140.25	1.58	1.93	20.07	27.75	240942.9	77.23	101.33	419916.98
370	16/01/2023 14:00	127.12	1.6	0.95	20.22	28.32	247359.94	77.68	101.33	417361.11
371	16/01/2023 13:00	160.85	1.76	1.11	20.12	26.76	248083.02	79.06	101.33	426019.44
372	16/01/2023 12:00	183.15	1.53	0.99	19.97	28.06	246548.6	81.35	101.33	424242.42
373	16/01/2023 11:00	140.52	1.56	1.02	20.18	27.33	245866.04	79.15	101.33	421782.19
374	16/01/2023 10:00	138.61	9.58	8.17	20.29	27.32	239414.13	78.29	101.33	412336.43
375	16/01/2023 9:00	172.9	24.33	18.93	20.13	30.32	244775.47	78.67	101.33	419567.65
376	16/01/2023 8:00	170.02	22.25	16.39	20.28	31.09	245220.53	77.85	101.33	423453.2
377	16/01/2023 7:00	188.59	20.71	13.15	20.18	31.36	250874.71	79.04	101.33	431512.37
378	16/01/2023 6:00	243.18	20.13	16.73	20.16	31.38	228825.56	78.61	101.33	407813.94
379	16/01/2023 5:00	248.78	14.23	14.59	19.95	31.53	215563.53	76.95	101.33	385559.75
380	16/01/2023 4:00	174.8	8.43	10.02	20.12	31.32	216656.9	75.73	101.33	385842.24
381	16/01/2023 3:00	217.9	1.71	3.74	20.02	30.68	219447.4	72.46	101.33	384518.95
382	16/01/2023 2:00	195.7	7.94	11.51	20.18	30.22	221320.73	72.15	101.33	384373.33
383	16/01/2023 1:00	168.99	2.75	6.57	20.27	30.88	216139.85	62.8	101.33	379658.62
384	16/01/2023 0:00	101.77	1.64	1.05	20.62	29.76	174869.76	40.24	101.33	320761.91
385	15/01/2023 23:00	17.94	1.78	1.09	20.78	27.25	260845.89	48.24	101.33	455275.65

386	15/01/2023 22:00	125.16	37.28	20.19	20.47	26.86	247136.81	74.01	101.33	442934.67
387	15/01/2023 21:00	164.92	4.07	10.03	20.64	27.21	261405.46	77.03	101.33	445760.13
388	15/01/2023 20:00	107.41	1.72	5.19	20.72	27.87	265687.1	63.45	101.33	448018.96
389	15/01/2023 19:00	138.96	3.51	10.08	20.56	27.39	266041.08	73.99	101.33	454876.59
390	15/01/2023 18:00	155.13	8.09	14.32	20.5	27.55	254803.81	69.51	101.33	439236.58
391	15/01/2023 17:00	145.54	3.04	6.2	20.38	26.83	266558.13	74.82	101.33	460077.07
392	15/01/2023 16:00	161.76	8.93	5.24	20.21	26.29	266937.58	79.33	101.33	460132.37
393	15/01/2023 15:00	151	9.33	3.88	20.21	25.8	267289.57	76.47	101.33	461237.25
394	15/01/2023 14:00	145.27	2.92	1.56	20.17	24.2	268036.18	80.03	101.33	460060.24
395	15/01/2023 13:00	195.82	1.81	1.11	20.16	21.03	266922.06	82.78	101.33	459302.43
396	15/01/2023 12:00	149.31	1.59	1.27	20.2	18.3	267100.65	82.99	101.33	459146.08
397	15/01/2023 11:00	179.5	1.76	1.14	20.22	21.1	270791.6	79.31	101.33	455105.34
398	15/01/2023 10:00	119.58	55.14	24.91	20.43	16.05	271972.48	80.92	101.33	458236.54
399	15/01/2023 9:00	142.67	1.71	1.04	20.24	19.15	261164.47	82.81	101.33	445914.28
400	15/01/2023 8:00	165.08	1.72	1.05	20.17	21.2	268308.56	80.19	101.33	462974.34
401	15/01/2023 7:00	156.15	1.57	1.03	20.33	21.53	268884.48	79.53	101.33	462267.3
402	15/01/2023 6:00	176.84	1.76	1.11	20.24	23.34	250280.1	81.98	101.33	427355.06
403	15/01/2023 5:00	195.26	1.64	1.05	20.16	24.81	246112.24	81.09	101.33	416473.87
404	15/01/2023 4:00	148.28	11.08	5.27	20.39	25.33	247863.07	80.84	101.33	413329.94
405	15/01/2023 3:00	162.65	1.63	1.03	20.3	23.83	238124.56	82.1	101.33	406367.7
406	15/01/2023 2:00	188.74	1.7	1.05	20.25	25.98	243534.92	81.32	101.33	404790.17
407	15/01/2023 1:00	168.34	1.8	1.13	20.19	26.8	234183.42	81.48	101.33	395741.13
408	15/01/2023 0:00	185.28	1.77	1.12	20.2	26.92	249151.32	74.96	101.33	429850.08
409	14/01/2023 23:00	182.32	1.86	1.13	20.27	26.72	257065.43	74.95	101.33	455933.71
410	14/01/2023 22:00	170.94	40.23	21.8	20.3	26.69	243521.81	74.8	101.33	432774.4
411	14/01/2023 21:00	138.12	1.75	4.45	20.46	26.48	240785.4	69.46	101.33	424601.85
412	14/01/2023 20:00	152.39	1.69	1.1	20.28	26.19	223305.42	67.84	101.33	391236.89
413	14/01/2023 19:00	17.42	1.87	1.21	20.85	25.15	25233.76	42.76	101.33	27114.95
414	14/01/2023 18:00	31.29	1.82	1.19	20.85	18.66	1972.46	48.34	101.33	1774.18
415	14/01/2023 17:00	20.08	1.82	1.15	20.91	4.42	149192.56	61.93	101.33	263181.3
416	14/01/2023 16:00	122.8	33.44	16.08	20.39	1.04	278280.14	86.46	101.33	460104.52
417	14/01/2023 15:00	166.65	1.7	1.41	19.9	2.77	268890.94	87.58	101.33	449151.22
418	14/01/2023 14:00	203.15	1.57	0.98	19.92	9.13	265407.49	87.81	101.33	451395.67
419	14/01/2023 13:00	184.64	1.74	1.05	20	13.5	269727.27	85.21	101.33	462449.94
420	14/01/2023 12:00	211.49	12.72	5.18	19.92	13.4	273644.94	82.81	101.33	468368.17
421	14/01/2023 11:00	89.83	1.76	1.12	20.23	6.88	274053.42	82.6	101.33	472511.94
422	14/01/2023 10:00	135.48	3.28	1.44	20.37	8.94	274988.85	79.54	101.33	470240.96
423	14/01/2023 9:00	123.02	1.66	1.07	20.44	15.49	273706.7	83.17	101.33	467546.92
424	14/01/2023 8:00	202.3	1.66	1.05	20.27	24.92	266825.81	84.23	101.33	448375.05
425	14/01/2023 7:00	168.44	1.64	2.68	20.14	26.65	264469.6	82.04	101.33	435825.49
426	14/01/2023 6:00	157.79	7.06	4.4	20.18	26.9	256921.84	79.87	101.33	427031.22
427	14/01/2023 5:00	141.75	4.96	5.84	20.29	26.68	244002.68	81.42	101.33	426332.96
428	14/01/2023 4:00	120.76	11.12	5.36	20.28	25.62	234639.63	80.83	101.33	408745.73
429	14/01/2023 3:00	152.1	1.63	1.03	20.25	27.02	241309.61	81.13	101.33	417661.1
430	14/01/2023 2:00	158.1	1.74	1.06	20.3	26.81	244774.85	80.45	101.33	418148.6
431	14/01/2023 1:00	98	1.68	1.06	20.25	26.21	245819.92	80.51	101.33	422244.9



432	14/01/2023 0:00	65.96	1.75	1.13	20.37	26.2	231105.11	77.71	101.33	420313.12
433	13/01/2023 23:00	121.02	1.74	1.11	20.4	26.68	256926.4	72.14	101.33	459971.26
434	13/01/2023 22:00	122.33	6.81	2.96	20.31	27.16	258436.81	73.06	101.33	457680.75
435	13/01/2023 21:00	112.23	1.45	0.91	20.3	27.1	258368.81	72.2	101.33	458538.13
436	13/01/2023 20:00	124.49	1.65	1.08	20.12	27.12	240278.29	67.3	101.33	409422.91
437	13/01/2023 19:00	11.09	3.32	1.54	20.73	26.79	38018.9	42.02	101.33	78657.14
438	13/01/2023 18:00	23.95	1.87	1.2	20.84	26.43	1942.88	47.72	101.33	1774.94
439	13/01/2023 17:00	50.22	1.78	1.12	20.63	24.36	186297.51	70.65	101.33	338469.68
440	13/01/2023 16:00	122.85	40.97	18.01	20.19	17.62	274566.1	87.04	101.33	481696.64
441	13/01/2023 15:00	169.14	1.73	1.08	20.02	9.97	270681.83	87.09	101.33	473024.79
442	13/01/2023 14:00	54.65	1.73	1.15	20.34	1.68	267692.47	82.29	101.33	461544.01
443	13/01/2023 13:00	153.79	1.46	0.96	20.11	4.9	267035.82	85.83	101.33	467955.99
444	13/01/2023 12:00	171.71	1.75	1.12	20.15	11.84	245910.2	84.8	101.33	425630.34
445	13/01/2023 11:00	164.01	1.6	1.02	20.12	19.91	255972.71	80.94	101.33	439621.57
446	13/01/2023 10:00	170.11	13.33	6.39	20.27	23.41	258656.77	80.63	101.33	440319.09
447	13/01/2023 9:00	157.88	1.48	0.97	20.23	20.46	265880	79.35	101.33	449660.57
448	13/01/2023 8:00	156.79	4.74	1.76	20.12	18.15	265371.3	78.82	101.33	453044.02
449	13/01/2023 7:00	194.6	3.34	1.92	20.06	25.46	256265.19	78.29	101.33	431981.45
450	13/01/2023 6:00	206.3	2.41	1.29	20.05	23.64	255067.18	79.57	101.33	433474.34
451	13/01/2023 5:00	147.59	1.69	1.14	20.08	27.36	254981.7	79.56	101.33	435671.86
452	13/01/2023 4:00	136.05	20.87	9.85	20.29	27.55	247727.05	80.57	101.33	429814.26
453	13/01/2023 3:00	169.19	1.75	1.11	20.14	27.54	227305.42	80.59	101.33	423614.34
454	13/01/2023 2:00	160.16	1.65	1.14	20.01	27.52	221320.32	77.77	101.33	426201.65
455	13/01/2023 1:00	127.74	1.67	0.99	20.37	27.41	233405.85	72.57	101.33	418990.77
456	13/01/2023 0:00	157.74	1.7	1.13	20.12	27.19	240951.66	80.63	101.33	417296.26
457	12/01/2023 23:00	140.27	13.6	7.16	20.18	26.94	226171.48	74.06	101.33	395008.26
458	12/01/2023 22:00	124.5	22.38	9.55	20.4	27.29	237231.65	64.66	101.33	415966.99
459	12/01/2023 21:00	136.21	1.54	0.94	20.42	27.54	229372.05	60.16	101.33	397345.72
460	12/01/2023 20:00	247.2	1.79	1.15	20.42	27.73	223683.66	42.32	101.33	365601.68
461	12/01/2023 19:00	2.54	1.46	0.93	20.93	27.6	39886.65	24.34	101.33	81308.13
462	12/01/2023 18:00	1.58	1.38	0.78	20.93	27.1	1708.65	23.93	101.33	1650.04
463	12/01/2023 17:00	1.33	1.59	1	20.94	26.83	1770.67	24.4	101.33	3558.17
464	12/01/2023 16:00	1.78	6.49	3.45	20.92	26.26	1808.45	24.77	101.33	9965.38
465	12/01/2023 15:00	1.59	1.63	1.08	20.86	26.1	1822.37	24.78	101.33	1732.36
466	12/01/2023 14:00	1.69	1.76	1.14	20.87	25.58	1845.76	24.8	101.33	8026.87
467	12/01/2023 13:00	1.54	1.58	1.01	20.88	25.33	1836.29	24.8	101.33	1756.63
468	12/01/2023 12:00	1.65	1.68	1.06	20.91	24.6	1814.52	24.78	101.33	1739.89
469	12/01/2023 11:00	1.59	1.69	1.06	20.94	25.09	1812.42	24	101.33	1742.31
470	12/01/2023 10:00	1.64	11.22	5.28	20.94	26.45	1781.01	23.04	101.33	1715.26
471	12/01/2023 9:00	1.56	1.63	1.02	21.01	26.78	1776.23	22.52	101.33	5549.48
472	12/01/2023 8:00	1.6	1.65	1.03	21	27.35	1782.2	22.26	101.33	1729.98
473	12/01/2023 7:00	1.65	1.75	1.06	20.99	27.82	1791.35	22.28	101.33	1747.09
474	12/01/2023 6:00	1.74	1.8	1.17	20.98	27.5	1814.02	22.28	101.33	1761.01
475	12/01/2023 5:00	1.58	1.63	1.09	20.95	27.11	1775.44	22.27	101.33	1739.92
476	12/01/2023 4:00	1.6	7.32	3.98	20.94	27.45	1768.28	22.26	101.33	1710.88
477	12/01/2023 3:00	1.55	1.75	1.12	20.95	27.36	1783.39	22.69	101.33	1737.94
478	12/01/2023 2:00	1.6	1.67	1.06	20.96	27.35	1779.02	22.89	101.33	1724.4

479	12/01/2023 1:00	1.73	1.74	1.11	20.96	27.84	1794.61	22.9	101.33	1723.14
480	12/01/2023 0:00	1.48	1.59	0.99	20.97	27.79	1757.54	23.24	101.33	1717.65
481	11/01/2023 23:00	1.61	1.62	1.05	20.95	27.77	1765.89	23.52	101.33	1728.78
482	11/01/2023 22:00	1.59	2.54	1.16	20.97	27.89	1788.56	23.94	101.33	1733.96
483	11/01/2023 21:00	1.41	1.41	0.86	20.99	27.88	1747.59	24.12	101.33	1700.14
484	11/01/2023 20:00	1.42	1.56	1.08	20.99	27.79	1756.74	24.15	101.33	1736.35
485	11/01/2023 19:00	1.4	1.5	1.02	20.99	27.67	1741.23	24.49	101.33	1710.88
486	11/01/2023 18:00	1.51	1.58	1.07	20.97	27.56	1775.84	24.76	101.33	1720.03
487	11/01/2023 17:00	1.54	1.65	1.01	20.96	27.49	1773.45	25.13	101.33	1726.4
488	11/01/2023 16:00	1.62	9.06	4.63	20.92	27.22	1800.9	25.4	101.33	1743.9
489	11/01/2023 15:00	1.38	1.48	0.94	20.84	26.97	1759.85	25.84	101.33	3801.99
490	11/01/2023 14:00	1.59	1.67	1.07	20.85	26.24	1802.81	26.39	101.33	1740.32
491	11/01/2023 13:00	1.6	2.74	1	20.83	25.61	1794.92	26.76	101.33	3634.95
492	11/01/2023 12:00	1.59	2.76	1.24	20.85	25.56	1774.64	27.29	101.33	1702.53
493	11/01/2023 11:00	1.47	2.22	0.96	20.89	26.66	1744.02	26.65	101.33	10873.23
494	11/01/2023 10:00	1.82	8.16	3.75	20.95	27.1	1823.16	26.06	101.33	1761.01
495	11/01/2023 9:00	1.75	1.85	1.14	21	27.04	1818.39	26.05	101.33	1760.61
496	11/01/2023 8:00	1.62	1.71	1.11	20.98	26.96	1778.62	26.05	101.33	1728.78
497	11/01/2023 7:00	1.65	1.71	1.1	20.97	26.97	1785.88	26.04	101.33	3785.49
498	11/01/2023 6:00	1.65	1.83	1.11	20.95	27.11	1796.52	26.14	101.33	1729.18
499	11/01/2023 5:00	1.69	1.74	1.1	20.94	27.43	1798.9	26.67	101.33	5562.61
500	11/01/2023 4:00	1.72	9.47	3.99	20.92	27.59	1796.3	27.07	101.33	1732.51
501	11/01/2023 3:00	1.8	1.89	1.17	20.97	27.54	1829.53	27.52	101.33	1763
502	11/01/2023 2:00	1.71	1.78	1.13	20.95	27.49	1817.2	27.94	101.33	1759.82
503	11/01/2023 1:00	1.63	2.08	1.13	20.96	27.37	1811.05	28.37	101.33	1746.83
504	11/01/2023 0:00	1.72	2.27	1.46	20.98	27.34	1805.27	29.14	101.33	15417.33
505	10/01/2023 23:00	1.56	1.68	1.05	21	27.41	1768.67	29.77	101.33	3640.13
506	10/01/2023 22:00	2.6	3.78	2.3	20.94	27.78	1810.44	30.49	101.33	1735.95
507	10/01/2023 21:00	1.52	1.54	0.95	20.7	28.27	1751.97	31.88	101.33	1691.39
508	10/01/2023 20:00	1.7	1.78	1.13	20.73	27.25	1845.83	34	101.33	1761.01
509	10/01/2023 19:00	1.49	1.5	0.98	20.76	27.17	1788.96	36.32	101.33	1694.57
510	10/01/2023 18:00	4.93	1.43	0.91	20.85	27.09	1845.44	40.99	101.33	1713.27
511	10/01/2023 17:00	63.46	1.39	0.85	20.77	26.65	183906.88	58.83	101.33	318798.55
512	10/01/2023 16:00	136.41	6.85	4.49	20.33	25.72	264882.09	81.41	101.33	457375.95
513	10/01/2023 15:00	153.99	4.75	5.4	20.27	25.34	263392.17	79.7	101.33	453215.5
514	10/01/2023 14:00	150.13	2.39	1.5	20.11	26.07	262616.2	80.96	101.33	453243.74
515	10/01/2023 13:00	107.48	13.07	7.38	20.22	25.27	251561.19	81.35	101.33	438139.59
516	10/01/2023 12:00	107.67	3.35	2.03	20.23	21.87	245412.67	83.38	101.33	423072.7
517	10/01/2023 11:00	133.64	5.3	3.17	20.23	24.89	254950.89	80.98	101.33	441434.54
518	10/01/2023 10:00	112.06	8.13	4.07	20.25	26.05	256624.34	79.6	101.33	428954.9
519	10/01/2023 9:00	106.39	1.67	1.57	20.3	26.5	262869.56	78.29	101.33	434567.98
520	10/01/2023 8:00	129.96	2.29	2.59	20.28	26.55	260745.66	82.6	101.33	430817.29
521	10/01/2023 7:00	133.39	2.22	3.35	20.24	25.3	265636.58	81.99	101.33	434717.57
522	10/01/2023 6:00	161.89	1.98	1.13	20.08	24.68	264075.48	83.35	101.33	430283.75
523	10/01/2023 5:00	153.16	1.81	1.06	20.17	25.98	246585.56	80.05	101.33	418057.37
524	10/01/2023 4:00	123.5	7.18	5.68	20.31	24.64	241487.41	78.64	101.33	411440.09
525	10/01/2023 3:00	164.12	1.75	1.65	20.21	24.89	239839.6	80.42	101.33	411218.48
526	10/01/2023 2:00	164.23	1.69	1.11	20.17	27.09	226286.42	83.23	101.33	396009.68



527	10/01/2023 1:00	176.36	1.83	1.16	20.15	27.01	225498.91	80.74	101.33	394225.66
528	10/01/2023 0:00	157.25	8.47	6.85	20.17	26.99	226451.49	77.63	101.33	391237.7
529	09/01/2023 23:00	148.2	1.82	1.07	20.24	28.15	225604.32	78.48	101.33	394612.39
530	09/01/2023 22:00	104.92	17.81	7.76	20.41	27.46	226908.88	75.79	101.33	395625.36
531	09/01/2023 21:00	168.13	76.59	12.32	20.41	26.8	232566.24	72.12	101.33	395387.03
532	09/01/2023 20:00	214.92	86.57	11.44	20.23	26.81	179988.83	68.77	101.33	357840.8
533	09/01/2023 19:00	17.23	2.52	1.15	20.91	26.6	33130.61	40.44	101.33	68640.21
534	09/01/2023 18:00	22.05	4.56	1.24	20.89	26.52	1903.9	44.58	101.33	1751.06
535	09/01/2023 17:00	74.31	3.5	1.16	20.69	26.5	197025.58	68.92	101.33	320685.91
536	09/01/2023 16:00	105.36	12.64	4.84	20.28	25.55	262033.51	82.45	101.33	436357.96
537	09/01/2023 15:00	134.88	10.31	4.19	20.12	20.64	261771.02	85.38	101.33	437146.12
538	09/01/2023 14:00	130.65	4.78	1.94	20.07	11.29	260679.23	85.39	101.33	431959.16
539	09/01/2023 13:00	120.54	10.33	2.63	20.15	13.96	254538.62	85.16	101.33	425890.14
540	09/01/2023 12:00	166.34	10.96	3.84	20.12	20.09	245700.2	88.45	101.33	421254.2
541	09/01/2023 11:00	128.5	1.85	1.15	20.13	22.46	243781.94	86.67	101.33	420972.94
542	09/01/2023 10:00	138.23	16.36	9.67	20.2	24.9	242360.82	86.44	101.33	416926.66
543	09/01/2023 9:00	124.71	13.93	7.3	20.41	26.61	245935.65	82.26	101.33	418290.92
544	09/01/2023 8:00	148.08	23.78	13.54	20.1	27.14	226844.05	86.78	101.33	403218.2
545	09/01/2023 7:00	137.1	3.48	4.64	20.19	27.04	246095.62	79.72	101.33	418597.79
546	09/01/2023 6:00	130.08	2.89	3.4	20.28	26.72	247675.74	79.27	101.33	418015.58
547	09/01/2023 5:00	90.23	2.26	7.37	20.49	24.2	234406.56	71	101.33	404834.73
548	09/01/2023 4:00	94.65	26.29	15.47	20.31	25.48	228043.62	80.06	101.33	402513.57
549	09/01/2023 3:00	133.69	7.29	5.72	20.07	25.28	201374.79	85.31	101.33	402050.88
550	09/01/2023 2:00	133.39	2.45	2.5	20.06	24.69	222922.41	85.4	101.33	404868.95
551	09/01/2023 1:00	187.64	2.02	3.55	20.04	26.56	219941.39	83.92	101.33	402122.48
552	09/01/2023 0:00	177.8	1.88	3.69	20.13	27.75	221289.31	79.42	101.33	400631.28
553	08/01/2023 23:00	157.54	2.54	4.39	20.18	28.65	220135.08	81.35	101.33	402353.64
554	08/01/2023 22:00	100.33	3.3	2.39	20.39	28.73	222780.01	79.21	101.33	401778.33
555	08/01/2023 21:00	115.47	10.19	7.72	20.34	28.74	237479.84	76.12	101.33	425052.76
556	08/01/2023 20:00	121.51	5.86	9.63	20.29	28.23	231468.1	77.52	101.33	420544.42
557	08/01/2023 19:00	111.51	2.66	3.64	20.47	28.03	238715.99	70.42	101.33	436478.1
558	08/01/2023 18:00	142.66	3.52	5.47	20.24	27.65	249927.32	83.24	101.33	445081.15
559	08/01/2023 17:00	117.65	2.64	3.96	20.22	27.13	261227.71	81.79	101.33	441577.93
560	08/01/2023 16:00	85.47	15.57	9.45	20.3	26.8	265012.95	82.13	101.33	447197
561	08/01/2023 15:00	152.09	12.59	5.12	20.01	25.9	265801.65	83.43	101.33	447582.53
562	08/01/2023 14:00	149.08	11.24	3.33	20.09	24.19	267925.94	82.11	101.33	446361.08
563	08/01/2023 13:00	96.32	8.41	3.41	20.16	25.08	268213.5	82.65	101.33	447145.67
564	08/01/2023 12:00	99.27	3.86	2.55	20.21	24.9	261582.49	85.58	101.33	438313.86
565	08/01/2023 11:00	134.77	2.65	2.38	20.18	23.11	262511.58	85.21	101.33	431041.69
566	08/01/2023 10:00	114.74	3.87	4.05	20.22	23.18	255829.28	83.47	101.33	432877.04
567	08/01/2023 9:00	121.34	1.72	1.06	20.29	24.24	265632.61	81.02	101.33	440533.15
568	08/01/2023 8:00	108.5	1.77	1.17	20.42	26.54	264543.37	76.68	101.33	438512.17
569	08/01/2023 7:00	109.97	1.69	1.04	20.37	25.26	264032.53	74.66	101.33	437815.35
570	08/01/2023 6:00	128.46	2.31	3.69	20.27	23.26	248616.08	83.3	101.33	420057.91
571	08/01/2023 5:00	159.24	1.76	3.66	20.05	23.68	223842.36	83.85	101.33	388699.7
572	08/01/2023 4:00	153.01	19.12	9.56	20.1	24.28	211976.59	83.8	101.33	382637.63

573	08/01/2023 3:00	185.23	30.6	11.26	19.97	25.46	224879.64	81.39	101.33	390557.33
574	08/01/2023 2:00	161.44	26.07	9.3	20.06	27.06	223009.14	82.36	101.33	391179.41
575	08/01/2023 1:00	172.61	6.72	3.49	20.1	26.27	225358.52	78.21	101.33	392170.69
576	08/01/2023 0:00	123.08	9.35	7.95	20.15	25.65	225669.15	79.97	101.33	388222.69
577	07/01/2023 23:00	150.75	6.07	5.54	20.17	26.84	228159.42	74.85	101.33	391166.41
578	07/01/2023 22:00	103.78	11.88	7.46	20.46	26.79	222727.51	75.44	101.33	395021.79
579	07/01/2023 21:00	141.52	1.59	0.83	20.43	25.96	223396.89	73.03	101.33	394055.79
580	07/01/2023 20:00	179.47	1.45	0.86	20.36	28.07	165370.76	69.03	101.33	327354.52
581	07/01/2023 19:00	15.9	1.5	0.99	21	26.67	24603.35	39.11	101.33	51625.42
582	07/01/2023 18:00	19.4	1.6	1.02	20.94	26.15	18383.19	44.08	101.33	27366
583	07/01/2023 17:00	58.1	1.66	1.81	20.73	24.88	229432.9	66.04	101.33	370197.34
584	07/01/2023 16:00	124.16	5.05	5.02	20.38	20.12	266332.73	80.74	101.33	442657.21
585	07/01/2023 15:00	191.55	1.61	2.36	20.18	20.54	266792.64	78.11	101.33	440967.08
586	07/01/2023 14:00	134.6	1.59	1.84	20.26	23.73	268262.82	79.26	101.33	445170.65
587	07/01/2023 13:00	123.21	4.44	7.7	20.16	20.4	260020.19	83.22	101.33	438600.32
588	07/01/2023 12:00	163.23	10.53	10.51	20.15	21.2	265263.51	80.11	101.33	439805.84
589	07/01/2023 11:00	131.56	1.53	0.97	20.27	21.27	267345.65	81.98	101.33	443866.85
590	07/01/2023 10:00	134.64	14.09	7.47	20.33	19.67	268711.86	77.93	101.33	441861.22
591	07/01/2023 9:00	161.81	21.98	7.35	20.2	25.75	267814.17	77.42	101.33	446764.13
592	07/01/2023 8:00	123.1	14.52	4.84	20.32	29.17	267750.53	73.34	101.33	446168.91
593	07/01/2023 7:00	128.68	11.22	6.41	20.32	30.44	266074.13	73.62	101.33	444323.92
594	07/01/2023 6:00	127.9	5.72	9.08	20.27	30.75	264117.27	75.74	101.33	442308.66
595	07/01/2023 5:00	140.74	1.58	0.98	20.23	31.11	259137.95	75.56	101.33	440260.04
596	07/01/2023 4:00	147.67	6.11	3.47	20.16	31	257645.72	77.3	101.33	437335.12
597	07/01/2023 3:00	149.52	1.62	0.95	20.04	28.41	249967.48	77.51	101.33	429229.02
598	07/01/2023 2:00	118.35	1.76	1.04	20.13	27.16	260266.78	75.33	101.33	432606.09
599	07/01/2023 1:00	169.8	1.42	0.78	20.15	27.13	259799.05	74.73	101.33	435021.13
600	07/01/2023 0:00	135.67	1.66	1.02	20.26	26.98	245366.1	75.06	101.33	415881.04
601	06/01/2023 23:00	169.98	1.49	0.97	20.06	26.92	230017.78	77.23	101.33	389113.85
602	06/01/2023 22:00	169.99	19.42	10.97	20.19	27.17	231776.34	72.13	101.33	390345.67
603	06/01/2023 21:00	130	3.37	3.2	20.48	28.12	239933.46	66.33	101.33	401515.34
604	06/01/2023 20:00	169.87	3.36	1.92	20.34	27.53	211845.92	63.34	101.33	367893.37
605	06/01/2023 19:00	10.21	2	1.03	20.91	27.09	40550.47	36.07	101.33	71140.29
606	06/01/2023 18:00	18.32	2.18	1.11	20.89	26.73	1890.78	37.9	101.33	1743.9
607	06/01/2023 17:00	25.11	2.58	1.11	20.9	25.01	91558.2	46	101.33	145770.99
608	06/01/2023 16:00	119.7	6.01	3.22	20.43	21.55	244767.12	74.94	101.33	421759.11
609	06/01/2023 15:00	153.15	12.32	3.29	20.2	20.53	255439.5	79.99	101.33	438420.51
610	06/01/2023 14:00	146.39	18.73	4.95	20.03	11.45	247261.91	83.85	101.33	420888.64
611	06/01/2023 13:00	154.54	6.04	0.99	20.13	15.54	260541.58	82.32	101.33	439182.34
612	06/01/2023 12:00	179.68	18.13	4.4	20.08	20.79	266239.45	78.67	101.33	451218.53
613	06/01/2023 11:00	158.76	7.25	1.76	20.27	18.5	265694.04	78.67	101.33	456335.36
614	06/01/2023 10:00	138.67	17.46	8.51	20.34	23.49	260071.42	78.4	101.33	444516.64
615	06/01/2023 9:00	118.67	1.62	1.78	20.36	23.49	258658.75	73.6	101.33	434208.69
616	06/01/2023 8:00	145.66	1.62	1.54	20.32	24.72	257496.17	75.25	101.33	437968.52
617	06/01/2023 7:00	137.44	3.93	4.91	20.3	23.36	259018.7	75.99	101.33	434589.46
618	06/01/2023 6:00	131.32	3.19	1.4	20.22	24.43	266680.28	73.74	101.33	453813.18

619	06/01/2023 5:00	122.9	4.89	2.37	20.18	25.46	245059.84	74.51	101.33	419075.91
620	06/01/2023 4:00	106.2	10.48	5.51	20.31	26.71	232805.67	73.99	101.33	393724.35
621	06/01/2023 3:00	136.88	1.5	1.1	20.17	27.06	234200.93	72.87	101.33	396192.69
622	06/01/2023 2:00	150.48	7.73	5.68	20.26	27.12	225521.81	69.66	101.33	390892.09
623	06/01/2023 1:00	70.77	3.84	3.03	20.58	26.49	254974.95	62.02	101.33	431146.73
624	06/01/2023 0:00	154.75	3.33	2	20.32	25.28	256645.24	68.05	101.33	439696.66
625	05/01/2023 23:00	146.73	1.52	0.81	20.41	24.44	259205.63	60.8	101.33	441135.91
626	05/01/2023 22:00	161.65	10.86	4.51	20.46	25.07	244483.13	57.35	101.33	401318.01
627	05/01/2023 21:00	132.7	4.51	0.81	20.59	26.88	203977.95	46.77	101.33	354910.64
628	05/01/2023 20:00	131.87	12.51	0.85	20.75	26.64	196757.9	35.63	101.33	341837.98
629	05/01/2023 19:00	2.39	1.68	1.05	20.98	26.37	16083.11	20.97	101.33	29235.97
630	05/01/2023 18:00	2.78	1.64	1.03	20.98	26.1	1826.74	21.01	101.33	1728.39
631	05/01/2023 17:00	2.51	1.62	1.04	20.97	26.01	1826.74	21.64	101.33	1724.01
632	05/01/2023 16:00	3.41	15.94	6.5	20.92	26.17	1857.76	22.27	101.33	1741.92
633	05/01/2023 15:00	1.55	1.62	1.03	20.8	26.23	1855.78	23.73	101.33	1714.86
634	05/01/2023 14:00	1.46	1.53	1.01	20.83	25.69	67044.69	25.2	101.33	121581.2
635	05/01/2023 13:00	1.57	1.67	1.07	20.87	24.67	1874.48	23.17	101.33	5582.11
636	05/01/2023 12:00	1.59	1.67	1.04	20.89	24.06	1851.01	23	101.33	3654.05
637	05/01/2023 11:00	1.54	1.66	1.06	20.92	25.5	1817.99	20.86	101.33	1741.12
638	05/01/2023 10:00	1.59	9.92	4.18	20.91	26.39	1805.66	19.43	101.33	1709.69
639	05/01/2023 9:00	1.55	1.66	1.07	20.99	27.44	1810.83	18.35	101.33	1731.17
640	05/01/2023 8:00	1.49	1.56	0.96	20.97	27.67	1791.53	17.87	101.33	1714.28
641	05/01/2023 7:00	1.57	1.65	1.07	20.95	27.66	1800.1	17.41	101.33	1732.77
642	05/01/2023 6:00	1.44	1.52	1.03	20.93	28.22	1795.43	17.25	101.33	1726.43
643	05/01/2023 5:00	1.62	1.59	1.01	20.91	28.61	1785.78	17.35	101.33	1720.43
644	05/01/2023 4:00	1.55	8.2	3.88	20.9	28.85	1811.63	17.89	101.33	1738.73
645	05/01/2023 3:00	1.47	1.53	0.94	20.89	27.94	1777.03	17.88	101.33	1708.89
646	05/01/2023 2:00	1.48	1.57	1.01	20.89	27.7	1780.61	17.87	101.33	1731.57
647	05/01/2023 1:00	1.56	1.69	1.08	20.91	28.07	1802.88	17.89	101.33	1739.13
648	05/01/2023 0:00	1.59	1.67	1.09	20.92	28.99	1810.04	17.88	101.33	1739.53
649	04/01/2023 23:00	1.86	3.42	1.52	20.92	29.51	1789.36	18.45	101.33	1713.67
650	04/01/2023 22:00	2.38	17.05	6.79	20.94	28.56	1798.11	18.5	101.33	1713.27
651	04/01/2023 21:00	1.6	1.7	1.07	21	28.65	1821.97	18.67	101.33	1740.32
652	04/01/2023 20:00	1.57	1.69	1.04	21	28.4	1823.2	19.14	101.33	1731.21
653	04/01/2023 19:00	1.55	1.65	1.05	20.99	27.59	1821.57	19.14	101.33	1740.72
654	04/01/2023 18:00	1.27	1.34	0.85	20.97	27.37	1768.53	19.73	101.33	1669.58
655	04/01/2023 17:00	1.5	1.58	0.94	20.97	27.35	1826.24	20.5	101.33	1722.96
656	04/01/2023 16:00	1.55	6.58	2.99	20.96	27.09	1849.02	21.39	101.33	3661.21
657	04/01/2023 15:00	1.56	1.66	1.03	20.92	26.92	1857.37	21.96	101.33	5577.73
658	04/01/2023 14:00	1.25	1.37	0.87	20.93	26.67	1800.5	22.56	101.33	3606.71
659	04/01/2023 13:00	1.31	1.47	0.9	20.94	25.85	1827.1	23.06	101.33	5893.6
660	04/01/2023 12:00	1.59	1.67	1.05	20.95	23.93	1863.34	23.16	101.33	1750.27
661	04/01/2023 11:00	1.6	1.68	1.08	20.99	25.42	1851.81	21.75	101.33	3634.16
662	04/01/2023 10:00	2.4	6.69	3.2	21	26.23	1823.17	20.91	101.33	1727.99
663	04/01/2023 9:00	1.48	1.49	0.93	20.98	27.15	1790.95	19.22	101.33	1699.34
664	04/01/2023 8:00	2.33	1.54	0.99	20.99	29.28	1779.02	17.45	101.33	1719.23
665	04/01/2023 7:00	1.75	1.61	1	20.97	29.66	3690.52	16.72	101.33	1731.17
666	04/01/2023 6:00	1.82	1.57	1	20.95	29.49	1779.42	16.61	101.33	1714.86
667	04/01/2023 5:00	1.99	1.33	0.87	20.94	28.69	1761.92	16.6	101.33	1707.3

668	04/01/2023 4:00	3.23	7.09	3.9	20.9	29.18	1761.12	16.61	101.33	1695.37
669	04/01/2023 3:00	3.91	1.53	0.97	20.83	27.62	1773.05	16.67	101.33	3633.36
670	04/01/2023 2:00	2.42	1.55	1.01	20.85	27.97	1769.79	17.25	101.33	1734.11
671	04/01/2023 1:00	2.63	1.57	1.01	20.86	28.43	1776.63	17.24	101.33	3635.35
672	04/01/2023 0:00	2.33	1.49	0.95	20.87	27.89	1767.23	17.24	101.33	1710.37
673	03/01/2023 23:00	1.78	1.46	0.9	20.89	27.47	1741.23	17.22	101.33	1682.63
674	03/01/2023 22:00	2.1	7.85	4.04	20.93	28.49	1800.89	17.24	101.33	1738.34
675	03/01/2023 21:00	1.86	1.62	1.02	21.05	28.61	1796.92	17.24	101.33	1731.57
676	03/01/2023 20:00	1.43	1.51	0.95	21.05	28.7	1768.28	17.23	101.33	1700.93
677	03/01/2023 19:00	1.52	1.63	1.01	21.04	28.93	1795.33	17.25	101.33	1733.56
678	03/01/2023 18:00	1.43	1.59	1.01	21.03	30.2	1763.9	17.56	101.33	3640.52
679	03/01/2023 17:00	1.44	1.54	0.98	21	29.57	1775.04	18.03	101.33	1722.82
680	03/01/2023 16:00	1.55	5.2	2.91	20.95	28.61	1775.47	18.9	101.33	3820.65
681	03/01/2023 15:00	1.45	1.47	0.91	20.78	28.71	1787.77	19.42	101.33	1704.91
682	03/01/2023 14:00	1.4	1.51	0.92	20.79	28.21	75925.72	21.24	101.33	119456.54
683	03/01/2023 13:00	1.49	1.59	1.02	20.81	27.32	14695.02	19.81	101.33	53893.25
684	03/01/2023 12:00	1.39	1.47	0.99	20.83	26.95	1795.33	19.21	101.33	5526.8
685	03/01/2023 11:00	1.46	1.57	0.99	20.87	27.95	1780.61	18.6	101.33	1730.38
686	03/01/2023 10:00	1.4	6.51	3.03	20.95	28.06	1786.18	17.61	101.33	1731.97
687	03/01/2023 9:00	1.43	1.61	0.98	21.06	30.56	1770.27	16.4	101.33	5556.24
688	03/01/2023 8:00	1.29	1.4	0.91	21.02	31.57	1722.94	15.41	101.33	3607.1
689	03/01/2023 7:00	1.34	1.42	0.93	21	31.73	1734.07	15.35	101.33	3611.48
690	03/01/2023 6:00	1.36	1.52	0.95	20.98	31.18	1708.75	15.34	101.33	1681.97
691	03/01/2023 5:00	1.46	1.59	0.99	20.96	29.4	1763.5	15.37	101.33	1721.22
692	03/01/2023 4:00	1.33	7.94	3.9	20.94	30.69	1711.8	15.35	101.33	7421.83
693	03/01/2023 3:00	1.24	1.37	0.83	20.91	30.48	1704.64	15.39	101.33	9337.55
694	03/01/2023 2:00	1.54	1.62	1.02	20.92	29.11	1772.25	16	101.33	1726.8
695	03/01/2023 1:00	1.43	1.45	0.87	20.92	28.79	1758.55	15.98	101.33	1699.96
696	03/01/2023 0:00	1.53	1.62	0.98	20.92	28.93	1771.86	15.98	101.33	1720.43
697	02/01/2023 23:00	1.49	1.59	0.94	20.92	28.59	1734.47	15.98	101.33	1696.56
698	02/01/2023 22:00	1.53	2.37	1.21	20.94	28.83	1772	16.4	101.33	5903.15
699	02/01/2023 21:00	1.48	1.59	0.97	20.99	28.51	1772.65	16.62	101.33	1722.82
700	02/01/2023 20:00	1.55	1.63	1.01	20.98	28.24	1779.01	16.62	101.33	3643.31
701	02/01/2023 19:00	1.49	1.59	0.96	20.97	28.35	1775.04	17.04	101.33	1724.41
702	02/01/2023 18:00	1.2	1.29	0.79	20.95	28.21	1708.62	17.23	101.33	3596.36
703	02/01/2023 17:00	1.31	1.43	0.8	20.94	27.62	1745.54	17.75	101.33	1687.37
704	02/01/2023 16:00	1.54	8.05	3.44	20.92	27.53	1796.3	18.05	101.33	1710.37
705	02/01/2023 15:00	1.45	1.53	0.91	20.86	27.7	1792.54	18.6	101.33	1712.47
706	02/01/2023 14:00	1.45	1.53	0.99	20.87	27.57	1797.71	19.14	101.33	1723.61
707	02/01/2023 13:00	1.48	1.59	0.98	20.88	27.09	1794.13	19.13	101.33	1720.83
708	02/01/2023 12:00	1.36	1.36	0.81	20.9	26.93	1758.34	19.12	101.33	1691.62
709	02/01/2023 11:00	1.48	1.55	0.98	20.92	26.76	1790.16	18.71	101.33	3638.54
710	02/01/2023 10:00	1.49	7.36	3.72	20.95	27.8	1784.98	17.93	101.33	1724.8
711	02/01/2023 9:00	1.45	1.58	0.99	21.04	29.18	1771.06	17.25	101.33	1721.22
712	02/01/2023 8:00	1.52	1.61	1	21.02	30.16	2177.14	16.68	101.33	3607.1
713	02/01/2023 7:00	1.38	1.48	0.9	20.99	31.02	2062.27	16.63	101.33	1702.99
714	02/01/2023 6:00	1.43	1.55	0.93	20.97	30.42	3673.82	17	101.33	1722.42
715	02/01/2023 5:00	1.49	1.56	0.97	20.95	29.88	2181.16	17.25	101.33	1712.54
716	02/01/2023 4:00	1.36	7.28	3.25	20.95	29.87	1751.17	17.23	101.33	3783.75
717	02/01/2023 3:00	1.48	1.56	0.95	20.9	29.27	1777.21	17.24	101.33	1714.28



718	02/01/2023 2:00	1.4	1.51	0.99	20.9	28.44	1761.92	17.25	101.33	7446.5
719	02/01/2023 1:00	1.51	1.62	1.01	20.91	27.29	1787.37	17.26	101.33	1726.79
720	02/01/2023 0:00	1.43	1.52	0.96	20.94	27.95	1763.5	17.25	101.33	1712.07
721	01/01/2023 23:00	1.45	1.53	0.96	20.94	28.14	1772	16.86	101.33	3792.44
722	01/01/2023 22:00	1.65	11.76	5.76	20.94	27.68	1762.71	16.72	101.33	1704.12
723	01/01/2023 21:00	1.53	1.64	1.01	20.93	28.29	1793.33	17.27	101.33	1729.58
724	01/01/2023 20:00	1.41	1.5	0.92	20.92	27.93	1781.8	17.58	101.33	1720.83
725	01/01/2023 19:00	1.45	1.53	0.95	20.92	27.37	1783.79	18.15	101.33	1713.27
726	01/01/2023 18:00	1.4	1.49	0.91	20.91	27	1788.56	19.35	101.33	1706.1
727	01/01/2023 17:00	1.42	1.52	0.94	20.9	27.01	1810.84	20.81	101.33	3629.39
728	01/01/2023 16:00	1.47	2.22	1.38	20.9	26.7	1839.47	21.92	101.33	1735.15
729	01/01/2023 15:00	1.39	1.49	0.92	20.84	25.91	1806.71	23.07	101.33	1722.09
730	01/01/2023 14:00	1.43	1.54	0.95	20.85	24.94	1829.53	22.91	101.33	1727.19
731	01/01/2023 13:00	1.36	1.55	0.9	20.87	25.77	1800.64	23.24	101.33	3802.42
732	01/01/2023 12:00	1.35	1.46	0.9	20.91	21.66	1835.49	24.11	101.33	7464.8
733	01/01/2023 11:00	1.28	1.4	0.85	20.94	21.82	1794.13	22.49	101.33	1706.9
734	01/01/2023 10:00	1.46	7.29	3.9	20.97	23.87	1839.87	21.12	101.33	3635.75
735	01/01/2023 9:00	1.34	1.44	0.83	21.01	22.51	1789.36	18.66	101.33	3628.59
736	01/01/2023 8:00	1.53	1.55	0.97	21	26.49	1743.37	14	101.33	1719.05
737	01/01/2023 7:00	1.43	1.55	0.94	20.98	31.58	1724.93	12.91	101.33	1712.47
738	01/01/2023 6:00	1.47	1.55	0.97	20.95	32.25	1727.71	12.86	101.33	1716.45
739	01/01/2023 5:00	1.5	1.59	1	20.94	32.16	1737.26	12.86	101.33	1719.23
740	01/01/2023 4:00	1.82	6.84	3.63	20.92	32.09	1733.68	12.86	101.33	1716.45
741	01/01/2023 3:00	1.46	1.54	0.98	20.87	31.91	1714.98	13.48	101.33	1710.09
742	01/01/2023 2:00	1.47	1.56	0.94	20.88	32.02	1732.08	13.49	101.33	1710.88
743	01/01/2023 1:00	1.36	1.45	0.89	20.87	31.86	1718.17	13.99	101.33	1683.82
744	01/01/2023 0:00	1.5	1.61	0.99	20.88	31.9	1752.77	14.12	101.33	1715.26
QCVN 51/2017/BTNMT Bảng 3, cột A1 Kv=0,8. Kp=0,8		640	544	320	-	128	-	-	-	-