

SECTION 8: RFP CLARIFICATION REQUEST FORM

RFP No: FOSRBY-RFP-06-24/25

RFP deadline for questions / RFP Clarifications: Before 12:00 pm on 19th July 2024

REQUEST FOR RFP CLARIFICATION

Cooling Tower

1. What is the material of construction used in the heat exchangers for the acid cooler? **Stainless steel 316**
2. Are there any other heat exchangers in the cooling system besides the acid cooler? If so, please provide the construction design, material of construction, and operating temperature. **Steam Condenser Mild steel.**
3. Kindly provide the makeup water data for the cooling tower for the past 12 months. **Attached**
4. What is the maximum conductivity allowed for bleed-off in the cooling tower? **2500mg/Litre**
5. Where is the cooling tower bleed-off directed? **Effluent system**
6. Are there any environmental restrictions on the chemicals used in the cooling tower? **Legionella Testing**
7. Is there any filtration system for the cooling tower? **N/A**
8. Are there any leaks in the cooling tower that need to be addressed? **NO**

Boiler

1. Are there any chemical restrictions in the boiler, such as the use of Carbohydrazide versus Hydrazine? **Yes
Carcinogenic chemicals cannot be used**
2. Is the blowdown process automatic and based on conductivity? **Manual and based on conductivity**
3. What is the maximum cycle of concentration run on the boiler based on conductivity? **50 Cycles**
4. Does the condensate require treatment? **No**
5. What is the dissolved oxygen content in the deaerator? **< 5PPM**
6. Is there any condensate polishing system in place? **No**

Additionally:

- What are the size limitations for the bunded area for chemicals? **1Ton chemtrax**
- Can the existing dosing equipment be purchased from the current supplier? If so, could you please provide the procurement list for the equipment? **That is the negotiations between you and the current supplier**

Boiler

1. What is the percentage of condensate return and do you have recorded figures to share? **90% by design**
2. Can you supply us with water make-up figures per month. **Potable water quality attached**
 - a. And also boiler feed water figures per month? **BFW water quality attached**
3. Is there an opportunity for a designated site visit day? **Not specified but can be arranged**
4. Is there any possibility that the submission date is going to be pushed back? **No**

• Boiler

1. Can you offer an idea as to the length of the steam lines and their pressure? **2 KM line Pressure : 45 Bar, 29 Bar, 11 Bar, 4.2& Bar 2.4 Bar**
2. What is the dissolved oxygen readings in the feedwater and deaerator? **5 ppm**
3. Can you supply an analytical report (or average) of the economiser, boiler and condensate return water for accurate treatment determination?

• Cooling

1. Please can you supply an analysis of the make-up water quality? **Attached**
2. Please can you supply the 2 x cooling total system water volume? **C Plant 600 m3, A&B 550 m3**
3. Please can you supply the recorded make-up water rate for the 2 x cooling towers (m³ per month)?

Technical:

- 1) Can we get the analysis / water quality that is of the makeup water to the cooling towers **Attached**
- 2) Can we get historical data of the quality that is feeding the boilers (we understand the specification is there but we want to know if there is a historical log of what the real values are) **Attached**
- 3) Do we have make-up volumes for the cooling towers : **C Plant 173 m3/hr , A&B 211m3/hr**
- 4) Please can we get the system volumes for the cooling towers : **C Plant 600 m3, A&B 550 m3**

Commercial:

- 1) Is it possible to share what is the current shift arrangement and staffing of the contractor or expected staff compliments will be. It was mentioned in the briefing of Monday to Friday with a response time during the weekends – **Please check the BOQ below**
- 2) Please can you confirm and share what is the expectation with the BOQ submission. Items such as "method" and "elemental breakdown" is not clear on whether that is a rate basis. It was discussed during the briefing that the contractor must submit a rate per month value – please confirm this. Perhaps share an example of how this is meant to be compiled such that all contractors compile it the same way – **Please check the revised BOQ below**

General:

- 1) Please advise on the times where we can conduct a site visit – 24 July 2024, 10:00am – 11:00am

FOSKOR TENDER DOCUMENT
SUPPLY OF BOILER & COOLING WATER TREATMENT CHEMICALS IN THE
SULPHURIC PLANT

BILL OF QUANTITIES

ELEMENT	METHOD	ELEMENTARY BREAKDOWN	COST(ZAR)	OTHER
1.1 Treatment program / Technology used	Monthly	Clarient /AECI Water/ Suez Technology / SudChemie Technology / GE (General Electric) etc.		
1.2 Sampling and sampling frequency	4 x per week	Raw water, Filtered water, Demin water, BFW, Boiler water, Steam, Cooling towers and Condensate.		
1.3 Analysis conducted	4 x per week	1.3(a) Raw Water & Filtered Water - TSS & Turbidity 1.3(b) Demin Water - pH, Conductivity, Silica, Total hardness, Iron content. 1.3 c) BFW - pH, Conductivity, Total hardness, Oxygen scavenger residual, Silica, Iron content. 1.3(d) Boiler Water - pH, Conductivity, Total hardness, OH Alkalinity, Silica, Boiler internal treatment, Iron content. Cycles of concentration. 1.3(e) Steam & Condensate - pH, Conductivity, Silica, Iron content. 1.3 (f) Cooling Towers - Calcium Hardness, Total Alkalinity, TDS, Chlorides, TSS, pH, Conductivity, Zinc residual, Free chlorine residual, Cycles of concentration, Ryzner Stability Index.		
1.4 Reporting frequency		1.4(a) Personal service reports emailed to relevant plant personnel with comments and recommendations three times per week. 1.4(b) Daily plant inspection and morning meetings attendance. (Mondays to Fridays) 1.4(c) Quarterly performance review meetings with plant management. 1.4(d) Equipment inspection reports on adhoc basis.		
1.5 Years of experience with >45 bar and 29 bar boiler water treatment	Number of Years	>50 years experience on both >45 bar and 29 bar. Refer to detailed boiler reference list submitted in tender package.		
1.6 Years of experience with cooling tower treatment	Number of Years	>50 years experience. Current customer base in excess of 3000 customers on the continent.		
1.7 Labour supplied	Monthly	1.7(a) Full time Site Representative - Mondays to Fridays 1.7(b) 24/7 Standby 1.7(c) Local based equipment technician. Available 24/7/365. 1.7(d) 2 x Durban based equipment technicians.		

		Available 24/7/365. 1.7(e) Account management local based.		
1.10 Value adding service	Ongoing	Refer to the attachement titled "IMPROCHEM Value Add"		
1.11 Company ownership		Wholly owned by AECI.		
1.12 Boiler treatment	Monthly	Boiler internal treatment and pH adjustment, caustic embrittlement inhibitor and oxygen scavenger.		
1.13 Cooling water treatment	Monthly	Scale / Corrosion inhibitor, Biocide, Biodispersant and pH control and adjustment.		
1.14 Boiler dosing equipment	Monthly	1.14(a) Chemical dosing systems including ChemTrac tanks.		
1.15 Gas boiler dosing system and equipment	Monthly	1.15(a) Chemical dosing system including ChemTrac tanks.		
1.16 Cooling tower dosing system and equipment	Monthly	1.16(a) Chemical dosing systems including ChemTrac tanks - Biocide & Scale / Corrosion inhibitor. 1.16(b) pH control and adjustment systems. 1.16(c) Online corrosion monitors		
TOTAL MONTHLY PRICE				

Boiler Data

Sample_Point	Sample_Date	Sample_Time	Sample_Status	Conduct μS/cm	pH	SiO2 mg/d m3	Monthly Ave: SiO2
Boiler Water (New)	20230403	06:00	Received	508,5	11,72	17	
Boiler Water (New)	20230404	06:00	Received	866,2	11,62	1	
Boiler Water (New)	20230405	06:00	Received	417,3	11,41	5	
Boiler Water (New)	20230406	06:00	Received	303,8	11,53	10	
Boiler Water (New)	20230411	06:00	Received	536,9	11,8	11	
Boiler Water (New)	20230412	06:00	Received	491,4	11,61	2	
Boiler Water (New)	20230413	06:00	Received	194,3	11,43	0	
Boiler Water (New)	20230414	06:00	Received	559,8	11,77	20	
Boiler Water (New)	20230417	06:00	Received	526,2	11,75	28,5	
Boiler Water (New)	20230418	06:00	Received	522,6	11,68	14,75	
Boiler Water (New)	20230419	06:00	Received	245,7	11,78	21	
Boiler Water (New)	20230420	06:00	Received	226,2	11,79	14	
Boiler Water (New)	20230421	06:00	Received	324,6	11,79	26	
Boiler Water (New)	20230424	06:00	Received	536,2	11,76	19	
Boiler Water (New)	20230425	06:00	Received	642,8	11,75	17	
Boiler Water (New)	20230426	06:00	Received	367,3	11,72	17	
Boiler Water (New)	20230428	06:00	Received	339,5	11,73	16	12
Boiler Water (New)	20230502	06:00	Received	393	11,69	2	
Boiler Water (New)	20230503	06:00	Received	550,4	5,72	28	

Boiler Water (New)	20230504	06:00	Received	587,3	11,2	10	
Boiler Water (New)	20230505	06:00	Received	21,9	11,19	14	
Boiler Water (New)	20230508	06:00	Received	192,7	11,61	9,25	
Boiler Water (New)	20230509	06:00	Received	300,3	11,61	18	
Boiler Water (New)	20230516	06:00	Received	189,2	10,87	20	
Boiler Water (New)	20230518	06:00	Received	170,9	11,35	4	
Boiler Water (New)	20230519	06:00	Received	0	0	19,25	
Boiler Water (New)	20230522	06:00	Received	853	11,84	19,25	
Boiler Water (New)	20230523	06:00	Received	61,3	11,16	4	
Boiler Water (New)	20230524	06:00	Received	237,9	11,46	10,25	
Boiler Water (New)	20230525	06:00	Received	246,4	11,83	1	
Boiler Water (New)	20230526	06:00	Received	260,2	11,8	14	
Boiler Water (New)	20230529	06:00	Received	159	11,51	26	
Boiler Water (New)	20230530	06:00	Received	134,6	11,5	13	
Boiler Water (New)	20230531	06:00	Received	121	11,36	11	13
Boiler Water (New)	20230601	06:00	Received	131,3	11,77	10	
Boiler Water (New)	20230602	06:00	Received	57,8	11,66	11	
Boiler Water (New)	20230605	06:00	Received	76,4	11,5	9	
Boiler Water (New)	20230606	06:00	Received	129,8	11,7	9	
Boiler Water (New)	20230607	06:00	Received	112,9	11,84	9	
Boiler Water (New)	20230608	06:00	Received	42	11,4	11	
Boiler Water (New)	20230609	06:00	Received	127,9	11,76	25	
Boiler Water (New)	20230612	06:00	Received	102,7	11,71	16	
Boiler Water (New)	20230613	06:00	Received	177,5	11,78	1	
Boiler Water (New)	20230614	06:00	Received	144,99	11,92	23	
Boiler Water (New)	20230615	06:00	Received	93,9	11,56	12	
Boiler Water (New)	20230619	06:00	Received	108,3	11,59	14	
Boiler Water (New)	20230620	06:00	Received	143,5	11,58	13	

Boiler Water (New)	20230621	06:00	Received	492,1	11,9	15	
Boiler Water (New)	20230622	06:00	Received	249,9	11,44	8,75	
Boiler Water (New)	20230623	06:00	Received	2,4	11,74	7	
Boiler Water (New)	20230626	06:00	Received	456,8	12,01	9	
Boiler Water (New)	20230627	06:00	Received	404,6	11,82	10	
Boiler Water (New)	20230628	06:00	Received	458,1	11,86	25	
Boiler Water (New)	20230629	06:00	Received	693,7	11,71	11	
Boiler Water (New)	20230630	06:00	Received	187,4	11,83	8,75	13
Boiler Water (New)	20230703	06:00	Received	351,6	11,7	11	
Boiler Water (New)	20230704	06:00	Received	323,1	11,79	13	
Boiler Water (New)	20230705	06:00	Received	61,2	10,23	20	
Boiler Water (New)	20230706	06:00	Received	183,7	11,78	18,25	
Boiler Water (New)	20230707	06:00	Received	249,8	11,97	11	
Boiler Water (New)	20230710	06:00	Received	227	11,73	38	
Boiler Water (New)	20230712	06:00	Received	235,4	11,59	12	
Boiler Water (New)	20230713	06:00	Received	214,4	11,56	12	
Boiler Water (New)	20230714	06:00	Received	243,8	11,73	19	
Boiler Water (New)	20230717	06:00	Received	237,5	11,63	2	
Boiler Water (New)	20230718	06:00	Received	157,3	11,56	15	
Boiler Water (New)	20230719	06:00	Received	160,3	11,41	10,5	
Boiler Water (New)	20230720	06:00	Received	168,5	11,59	16	
Boiler Water (New)	20230721	06:00	Received	73,7	11,05	0	
Boiler Water (New)	20230724	06:00	Received	189,1	11,68	7	
Boiler Water (New)	20230725	06:00	Received	199,7	11,86	11	
Boiler Water (New)	20230726	06:00	Received	132	11,52	6	
Boiler Water (New)	20230727	06:00	Received	66,6	11,82	8	
Boiler Water (New)	20230728	06:00	Received	100,5	11,49	4	
Boiler Water (New)	20230731	06:00	Received	135	11,99	4	12

Boiler Water (New)	20230801	06:00	Received	309	11,58	10	
Boiler Water (New)	20230802	06:00	Received	245	11,32	9	
Boiler Water (New)	20230803	06:00	Received	282	11,4	8,25	
Boiler Water (New)	20230804	06:00	Received	339	11,4	3	
Boiler Water (New)	20230807	06:00	Received	418,1	11,69	3	
Boiler Water (New)	20230808	06:00	Received	300	11,32	2,75	
Boiler Water (New)	20230810	06:00	Received	180,6	11,44	0	
Boiler Water (New)	20230811	06:00	Received	96,2	11,26	2	
Boiler Water (New)	20230814	06:00	Received	202,5	11,4	5	
Boiler Water (New)	20230815	06:00	Received	189	11,16	7,25	
Boiler Water (New)	20230816	06:00	Received	270	11,62	1	
Boiler Water (New)	20230817	06:00	Received	442,6	11,79	2	
Boiler Water (New)	20230818	06:00	Received	124,5	11,28	13	
Boiler Water (New)	20230821	06:00	Received	39,4	10,46	0	
Boiler Water (New)	20230822	06:00	Received	279	11,74	1	
Boiler Water (New)	20230823	06:00	Received	187,1	11,5	17	
Boiler Water (New)	20230824	06:00	Received	266	11,56	17	
Boiler Water (New)	20230825	06:00	Received	225	11,55	23	
Boiler Water (New)	20230828	06:00	Received	149,5	11,47	11	
Boiler Water (New)	20230829	06:00	Received	168,1	11,4	13	
Boiler Water (New)	20230830	06:00	Received	158,7	11,44	13	
Boiler Water (New)	20230831	06:00	Received	114,6	11,27	0	8
Boiler Water (New)	20230901	06:00	Received	146,8	11,12	7,75	
Boiler Water (New)	20230904	06:00	Received	148,4	11,63	11	
Boiler Water (New)	20230905	06:00	Received	174,2	11,54	3	
Boiler Water (New)	20230906	06:00	Received	176	11,45	4	
Boiler Water (New)	20230907	06:00	Received	123,8	11,24	4	
Boiler Water (New)	20230908	06:00	Received	214,4	11,73	0	

Boiler Water (New)	20230911	06:00	Received	150	11,18	6	
Boiler Water (New)	20230912	06:00	Received	0	11,27	6	
Boiler Water (New)	20230913	06:00	Received	185,4	10,73	10	
Boiler Water (New)	20230915	06:00	Received	143,1	10,48	7	
Boiler Water (New)	20230918	06:00	Received	247	11,53	11	
Boiler Water (New)	20230919	06:00	Received	82,3	11,75	9	
Boiler Water (New)	20230920	06:00	Received	140	11,85	5	
Boiler Water (New)	20230921	06:00	Received	116,2	11,84	1	
Boiler Water (New)	20230922	06:00	Received	147,1	11,48	4	
Boiler Water (New)	20230926	06:00	Received	102,2	11,81	7	
Boiler Water (New)	20230927	06:00	Received	157,9	11,82	5	
Boiler Water (New)	20230928	06:00	Received	98,7	11,27	3	
Boiler Water (New)	20230929	06:00	Received	230,8	11,49	3	19
Boiler Water (New)	20231002	06:00	Received	254	11,75	1	
Boiler Water (New)	20231003	06:00	Received	159,4	11,71	2	
Boiler Water (New)	20231004	06:00	Received	129,2	11,33	1	
Boiler Water (New)	20231005	06:00	Received	174,5	11,85	8	
Boiler Water (New)	20231006	06:00	Received	188,5	11,76	10	
Boiler Water (New)	20231009	06:00	Received	243,6	12	8	
Boiler Water (New)	20231010	06:00	Received	134,8	11,5	4	
Boiler Water (New)	20231016	06:00	Received	205,2	11,78	8	
Boiler Water (New)	20231017	06:00	Received	218	11,71	10	
Boiler Water (New)	20231018	06:00	Received	251,3	11,39	6	
Boiler Water (New)	20231019	06:00	Received	97,3	11,22	3	
Boiler Water (New)	20231020	06:00	Received	184	11,47	5	
Boiler Water (New)	20231023	06:00	Received	91,2	11,34	2	
Boiler Water (New)	20231024	06:00	Received	121,6	11,34	11	
Boiler Water (New)	20231025	06:00	Received	177,9	11,61	40	

Boiler Water (New)	20231026	06:00	Received	119,8	11,59	16	
Boiler Water (New)	20231027	06:00	Received	137,6	11,34	17	
Boiler Water (New)	20231030	06:00	Received	158,5	11,54	14,5	
Boiler Water (New)	20231031	06:00	Received	173,5	11,68	2	19
Boiler Water (New)	20231101	06:00	Received	139,5	11,84	2,5	
Boiler Water (New)	20231102	06:00	Received	173,3	11,56	8	
Boiler Water (New)	20231103	06:00	Received	167,8	11,5	10	
Boiler Water (New)	20231106	06:00	Received	110,2	7,93	1	
Boiler Water (New)	20231107	06:00	Received	102,9	11,62	6	
Boiler Water (New)	20231108	06:00	No Sample Received	178,1	0	0	
Boiler Water (New)	20231109	06:00	Received	162,11	12,05	7	
Boiler Water (New)	20231110	06:00	Received	162,1	11,91	6,75	
Boiler Water (New)	20231113	06:00	Received	113,5	11,85	19	
Boiler Water (New)	20231115	06:00	No Sample Received	0	0	0	
Boiler Water (New)	20231121	06:00	Received	222	11,46	13	
Boiler Water (New)	20231122	06:00	Received	417,1	12,14	12	
Boiler Water (New)	20231123	06:00	Received	550,3	12,15	12	
Boiler Water (New)	20231124	06:00	Received	326,4	12,21	15	
Boiler Water (New)	20231127	06:00	Received	127,1	11,6	7	
Boiler Water (New)	20231128	06:00	Received	155,5	11,55	6	
Boiler Water (New)	20231129	06:00	Received	121,9	11,59	7	
Boiler Water (New)	20231130	06:00	Received	121,5	11,61	5	8
Boiler Water (New)	20231201	06:00	Received	209,1	11,8	5	
Boiler Water (New)	20231204	06:00	Received	169,1	11,64	9	
Boiler Water (New)	20231205	06:00	Received	154,7	10,96	3	
Boiler Water (New)	20231207	06:00	Received	153,2	11,65	5	
Boiler Water (New)	20231208	06:00	Received	356	12,01	8	
Boiler Water (New)	20231211	06:00	Received	146,5	11,51	2	

Boiler Water (New)	20231212	06:00	Received	191,2	11,6	8	
Boiler Water (New)	20231213	06:00	Received	205,1	11,62	12	
Boiler Water (New)	20231214	06:00	Received	450,8	11,79	1	
Boiler Water (New)	20231218	06:00	Received	160,8	11,8	4	
Boiler Water (New)	20231219	06:00	Received	356,6	11,88	6	
Boiler Water (New)	20231220	06:00	Received	156	12,35	7	
Boiler Water (New)	20231221	06:00	Received	158,1	11,96	9	
Boiler Water (New)	20231222	06:00	Received	330,3	11,99	2,25	
Boiler Water (New)	20231227	06:00	Received	337	12,06	7	
Boiler Water (New)	20231228	06:00	Received	347,7	12,09	3	
Boiler Water (New)	20231229	06:00	Received	674,8	12,03	3	6
Boiler Water (New)	20240102	06:00	Received	341,6	11,71	7	
Boiler Water (New)	20240103	06:00	Received	308,09	11,83	11,25	
Boiler Water (New)	20240104	06:00	Received	345,9	9,27	6	
Boiler Water (New)	20240105	06:00	Received	739	12,08	10	
Boiler Water (New)	20240108	06:00	Received	99,6	11,77	6	
Boiler Water (New)	20240109	06:00	Received	74,4	12	8	
Boiler Water (New)	20240110	06:00	Received	99,1	12,32	11,25	
Boiler Water (New)	20240111	06:00	Received	139,8	12,16	17,75	
Boiler Water (New)	20240112	06:00	Received	138,1	11,77	0,3125	
Boiler Water (New)	20240115	06:00	Received	111,4	11,65	0	
Boiler Water (New)	20240116	06:00	Received	81,9	11,46	11	
Boiler Water (New)	20240117	06:00	Received	140,1	11,65	15	
Boiler Water (New)	20240118	06:00	Received	104,6	11,59		
Boiler Water (New)	20240119	06:00	Received	177,3	11,86	10	
Boiler Water (New)	20240122	06:00	Received	67,9	11,42	7,75	
Boiler Water (New)	20240123	06:00	Received	64,3	11,7	6	
Boiler Water (New)	20240124	06:00	Received	141,1	11,61	4,25	

Boiler Water (New)	20240125	06:00	Received	118,3	11,5	8	
Boiler Water (New)	20240126	06:00	Received	159,1	11,76	5	
Boiler Water (New)	20240129	06:00	Received	174,7	11,33	6,75	
Boiler Water (New)	20240130	06:00	Received	277,9	11,57	23	
Boiler Water (New)	20240131	06:00	Received	169,8	11,48	5	9
Boiler Water (New)	20240201	06:00	Received	195,9	11,81	11	
Boiler Water (New)	20240202	06:00	Received	229,6	11,9	4	
Boiler Water (New)	20240205	06:00	Received	230,1	11,8	7	
Boiler Water (New)	20240206	06:00	Received	11,9	10,64	2	
Boiler Water (New)	20240207	06:00	Received	210,7	11,93	14	
Boiler Water (New)	20240208	06:00	Received	269,6	12,04	12	
Boiler Water (New)	20240209	06:00	Received	180,1	11,79	14	
Boiler Water (New)	20240212	06:00	Received	168,7	11,75	4	
Boiler Water (New)	20240213	06:00	Received	212,1	11,82	17	
Boiler Water (New)	20240214	06:00	Received	202,8	11,87	13	
Boiler Water (New)	20240215	06:00	Received	283,3	12,01	17	
Boiler Water (New)	20240216	06:00	Received	211,5	11,82	14	
Boiler Water (New)	20240219	06:00	Received	51,8	11,87	11	
Boiler Water (New)	20240220	06:00	Received	150,7	11,85	15	
Boiler Water (New)	20240221	06:00	Received	124,8	11,81	8	
Boiler Water (New)	20240222	06:00	Received	128,8	11,79	13	
Boiler Water (New)	20240223	06:00	Received	235	12,15	8,5	
Boiler Water (New)	20240226	06:00	Received	122,1	11,02	3	
Boiler Water (New)	20240227	06:00	Received	129,1	11,87	1	
Boiler Water (New)	20240228	06:00	Received	155,7	11,87	4	
Boiler Water (New)	20240229	06:00	Received	148,4	12,04	11	10
Boiler Water (New)	20240301	06:00	Received	87,5	11,85	4	
Boiler Water (New)	20240304	06:00	Received	59	11,38	19,75	

Boiler Water (New)	20240305	06:00	Received	211,2	11,72	20,75	
Boiler Water (New)	20240306	06:00	Received	63,6	11,79	31	
Boiler Water (New)	20240307	06:00	Received	725	11,63	12	
Boiler Water (New)	20240308	06:00	Received	670,9	11,7	13	
Boiler Water (New)	20240311	06:00	Received	567,1	11,87	12	
Boiler Water (New)	20240312	06:00	Received	1238,4	12,06	19	
Boiler Water (New)	20240313	06:00	Received	585,3	11,88	8	
Boiler Water (New)	20240314	06:00	Received	1106,7	11,79	18	
Boiler Water (New)	20240318	06:00	Received	1038,5	12,01	0	
Boiler Water (New)	20240319	06:00	Received	1,8	12,13	2	
Boiler Water (New)	20240322	06:00	Received	726,2	10,39	7	
Boiler Water (New)	20240325	06:00	Received	817,8	10,45	3	
Boiler Water (New)	20240326	06:00	Received	921,9	11,9	6	
Boiler Water (New)	20240327	06:00	Received	1035,1	11,66	5	
Boiler Water (New)	20240328	06:00	Received	1207,8	11,92	14	10
							12

SiO2		
Complince		98.690
SiO2 off spec	3	
SiO2 on spec	226	
SiO2 total sample	229	

Portable Water Data

Sample Date	Cl (mg/l)	Conductivity (µS/cm)	Hardness (mg/L)	Iron (mg/L)	pH	SiO2 (mg/dm3)	Na (mg/L)	Turbidity (NTU)	Susp Solids (mg/L)
1-Jun-24	79.90	4.50	79.24	0.07	7.97	8.81	101.40	3.00	0.00
2-Jun-24	77.46	20.20	0.00	0.03	7.75	13.41	4.53	2.89	1.00
3-Jun-24	86.22	37.90	67.66	0.00	8.65	11.22	89.53	1.37	2.00
4-Jun-24	91.29	44.20	70.89	0.06	7.92	11.38	86.60	1.28	2.00
5-Jun-24	82.45	43.90	106.33	0.01	8.89	7.88	98.80	18.20	0.00
6-Jun-24	93.34	52.10	94.61	0.07	7.57	11.03	75.55	2.49	0.00
7-Jun-24	756.44	44.10	76.65	0.12	8.43	11.75	84.40	7.64	7.00
8-Jun-24	87.82	50.20	102.53	0.06	8.09	8.28	56.49	1.82	1.00
9-Jun-24	96.66	69.00	91.13	0.04	7.93	14.97	95.90	7.22	1.00
10-Jun-24	101.63	45.30	50.15	0.00	7.04	16.78	95.18	2.41	2.00
11-Jun-24	80.82	44.50	44.66	0.00	7.75	11.44	94.60	0.00	0.00
12-Jun-24	100.68	46.80	41.85	0.49	7.51	21.19	46.13	1.62	1.00
13-Jun-24	77.02	47.40	47.73	0.00	7.61	15.19	74.04	2.13	1.00
14-Jun-24	91.64	145.30	65.92	0.51	7.92	14.81	63.49	52.60	35.00
15-Jun-24	88.08	142.00	47.48	0.03	8.03	3.75	92.87	1.99	1.00
16-Jun-24	72.46	134.90	95.35	0.14	7.80	16.84	36.80	2.39	0.00
17-Jun-24	88.16	124.50	106.18	0.00	7.56	16.84	59.62	1.84	0.00
18-Jun-24	87.78	122.10	85.70	0.32	7.51	9.63	26.91	2.04	1.00
19-Jun-24	92.40	127.50	50.20	0.24	8.45	10.91	63.82	2.32	2.00
20-Jun-24	91.44	137.90	100.05	0.00	8.23	9.41	56.51	1.67	1.00
21-Jun-24	82.54	143.30	118.56	0.00	8.07	7.66	53.31	1.77	0.00
22-Jun-24	96.41	129.20	109.34	0.00	8.48	11.03	97.60	1.19	0.00
23-Jun-24	92.33	177.40	127.53	0.02	7.69	7.22	81.16	2.57	3.00
24-Jun-24	82.64	77.20	546.12	0.00	7.24	29.06	81.04	1.37	0.00
25-Jun-24	87.75	82.30	110.02	0.00	7.37	21.78	83.41	2.33	0.00
26-Jun-24	85.80	79.40	103.88	0.03	7.95	16.44	110.40	1.63	1.00
27-Jun-24	117.69	72.70	117.88	0.00	7.90	8.53	75.68	2.16	0.00
28-Jun-24	205.96	73.60	80.71	0.00	8.55	9.31	69.52	1.03	1.00
29-Jun-24	300.12	74.00	91.89	0.00	8.08	7.97	52.40	1.38	1.00
30-Jun-24	104.29	67.50	113.36	1.42	7.55	6.81	45.17	1.02	0.00
1-Jul-24	81.00	66.30	126.50	0.19	7.59	8.72	50.19	0.00	0.00
2-Jul-24	87.04	77.60	137.33	0.00	7.69	11.69	63.21	0.82	0.00
3-Jul-24	86.89	67.10	39.50	0.06	7.62	10.66	57.13	0.60	0.00
4-Jul-24	89.62	66.10	120.24	0.00	7.36	13.22	33.36	1.53	0.00
5-Jul-24	87.28	72.60	96.67	0.00	7.63	17.84	53.12	1.00	1.00
6-Jul-24	95.19	68.20	97.06	0.08	7.54	5.88	45.73	0.98	1.00
7-Jul-24	92.94	64.70	0.00	0.00	7.69	15.06	60.91	1.00	1.00

8-Jul-24	98.74	61.90	86.76	0.00	7.66	15.38	47.45	1.23	1.00
9-Jul-24	94.62	62.80	79.79	0.65	7.65	13.94	66.73	1.08	1.00
10-Jul-24	99.09	62.00	88.25	0.10	7.33	9.91	88.28	1.00	1.00
11-Jul-24	89.32	44.20	72.71	0.00	7.28	10.28	61.46	0.80	0.00
12-Jul-24	205.96	121.10	136.77	0.00	6.64	9.34	59.39	0.00	0.00
13-Jul-24	89.28	125.90	94.78	0.11	7.29	11.91	70.22	1.08	1.00
14-Jul-24	176.54	143.80	145.50	0.08	6.32	13.09	87.54	0.00	0.00
15-Jul-24	87.08	116.10	93.41	0.22	8.92	1.66	68.37	1.41	1.00
16-Jul-24	92.14	115.10	101.96	0.15	7.62	13.91	74.91	1.51	1.00
17-Jul-24	139.42	117.70	72.75	0.00	7.53	8.06	53.42	2.81	2.00
18-Jul-24	127.30	119.70	82.45	0.24	7.63	8.91	63.78	0.69	0.00
19-Jul-24	75.59	120.90	95.55	0.00	6.42	7.38	60.36	0.91	1.00
20-Jul-24	74.88	116.80	90.03	0.00	6.66	10.16	39.89	1.51	1.00
21-Jul-24	115.18	117.10	61.11	0.00	7.00	10.72	61.32	0.96	0.00
22-Jul-24	127.30	119.20	78.57	0.00	7.00	9.25	62.36	0.82	0.00
23-Jul-24	121.38	137.90	88.59	0.00	7.23	12.34	81.40	1.19	1.00
24-Jul-24	165.01	83.00	84.09	0.00	7.33	9.72	87.64	1.21	1.00
25-Jul-24	110.87	98.40	96.36	0.00	7.77	12.16	94.66	0.68	0.00
26-Jul-24	68.10	92.30	126.10	0.04	7.59	13.56	103.23	4.06	5.00
27-Jul-24	47.04	31.60	13.77	0.00	7.34	5.63	48.27	2.10	2.00
28-Jul-24	66.93	75.70	93.14	0.00	7.34	5.88	88.22	2.61	3.00
29-Jul-24	86.66	77.70	96.94	0.01	7.39	11.22	88.15	1.28	1.00
30-Jul-24	75.91	77.50	74.83	0.09	6.82	9.75	86.37	1.46	1.00
31-Jul-24	87.10	79.40	81.72	0.28	6.54	11.84	84.43	0.83	1.00
1-Aug-24	91.59	77.60	77.89	0.00	6.84	10.97	84.37	3.49	1.00
2-Aug-24	89.61	89.50	92.64	0.16	7.21	7.09	246.31	0.91	1.00
3-Aug-24	81.92	79.30	92.67	0.29	6.56	11.19	93.36	1.98	2.00
4-Aug-24	83.27	83.70	103.92	0.00	6.41	12.47	80.90	1.08	0.00
5-Aug-24	86.55	77.60	103.24	0.06	7.99	8.88	46.83	0.95	1.00
6-Aug-24	88.08	78.50	100.60	0.43	6.40	10.31	40.00	1.77	1.00
7-Aug-24	90.78	79.90	73.50	0.00	6.73	7.09	39.80	1.04	2.00
8-Aug-24	95.13	87.90	110.88	0.11	7.72	11.25	100.20	0.78	1.00
9-Aug-24	83.35	78.30	93.12	0.28	6.75	9.38	88.42	0.66	1.00
10-Aug-24	89.48	86.30	113.03	0.14	7.22	9.69	48.80	0.82	2.44
11-Aug-24	88.58	84.00	95.89	0.00	7.97	10.22	48.18	0.90	2.00
12-Aug-24	78.14	98.20	105.33	0.00	6.94	10.22	48.61	0.66	1.00
13-Aug-24	96.47	102.00	113.85	0.00	7.52	12.91	54.40	0.81	2.00
14-Aug-24	83.91	72.00	90.62	0.01	7.35	10.34	43.20	1.58	0.00
15-Aug-24	85.61	87.40	112.13	0.30	6.99	10.53	49.30	0.81	0.00
16-Aug-24	89.88	90.40	104.06	1.22	6.95	12.94	47.66	1.50	1.00
17-Aug-24	77.74	88.60	114.50	0.00	6.68	19.25	111.40	1.39	0.66
18-Aug-24	83.63	55.80	102.22	0.05	6.60	14.69	75.00	0.65	0.00

19-Aug-24	85.30	139.00	102.61	0.00	6.94	10.72	23.19	0.89	0.00
20-Aug-24	85.86	103.10	98.44	0.00	6.33	9.50	86.71	0.84	0.00
21-Aug-24	85.17	145.00	105.89	0.00	7.57	10.25	46.19	0.85	1.00
22-Aug-24	80.19	136.80	105.44	0.00	7.77	20.78	40.00	1.22	2.00
23-Aug-24	81.92	123.40	114.03	0.20	7.93	8.28	60.00	0.88	1.00
24-Aug-24	91.67	177.90	116.51	0.00	7.88	15.78	60.00	1.10	1.00
25-Aug-24	87.42	114.40	123.58	0.06	8.20	18.53	80.00	0.54	0.00
26-Aug-24	80.71	91.70	104.02	0.00	7.63	17.09	60.00	0.63	1.00
27-Aug-24	94.45	91.50	121.92	0.00	7.64	12.19	60.00	1.04	1.00
28-Aug-24	76.68	88.10	109.77	0.00	7.76	9.69	60.00	0.71	0.00
29-Aug-24	83.10	88.60	107.03	0.63	7.65	11.78	40.00	3.12	1.00
30-Aug-24	72.14	84.80	101.32	0.31	7.68	25.94	60.00	0.84	1.00
31-Aug-24	99.47	118.80	139.71	0.09	8.23	15.81	80.00	0.65	0.00
1-Sep-24	83.41	81.80	117.40	0.00	7.22	14.34	47.86	1.79	1.00
2-Sep-24	91.22	84.80	112.39	0.00	7.59	10.97	75.69	0.60	1.00
3-Sep-24	87.49	85.50	100.00	0.00	7.48	8.13	40.67	1.14	1.00
4-Sep-24	81.85	85.40	98.88	0.00	7.32	6.22	75.10	1.20	1.00
5-Sep-24	91.70	88.70	103.70	0.00	7.76	9.53	50.87	0.82	2.00
6-Sep-24	117.09	107.70	142.18	0.00	7.89	11.00	99.10	0.58	0.00
7-Sep-24	104.16	104.60	125.60	0.00	7.98	7.44	95.33	0.73	0.00
8-Sep-24	85.99	102.90	126.19	0.00	7.98	9.22	55.89	0.71	1.00
9-Sep-24	102.38	95.70	110.97	0.14	7.86	7.69	47.27	1.15	2.00
10-Sep-24	90.97	108.50	102.78	0.00	8.16	13.22	65.35	0.88	0.00
11-Sep-24	80.74	88.40	112.54	0.00	7.72	14.00	51.20	0.67	0.00
12-Sep-24	82.55	89.30	112.52	0.00	7.08	7.13	62.84	0.94	1.00
13-Sep-24	84.64	90.50	110.51	0.00	7.79	8.75	234.80	0.54	1.00
14-Sep-24	127.70	94.40	99.85	0.02	7.65	7.88	138.00	0.46	0.00
15-Sep-24	94.72	103.80	120.09	0.10	7.60	7.53	168.80	0.70	1.00
16-Sep-24	84.89	98.80	113.45	0.08	7.66	9.44	51.00	0.96	0.00
17-Sep-24	98.72	104.30	121.03	0.00	8.00	16.84	0.00	0.71	0.00
18-Sep-24	86.53	78.20	69.04	0.00	0.00	0.00	0.00	0.96	0.00
19-Sep-24	92.58	93.60	96.76	0.00	8.06	13.66	0.00	1.28	0.00
20-Sep-24	90.99	86.10	101.10	0.00	7.21	13.22	86.62	0.90	1.00
21-Sep-24	83.83	93.50	113.03	0.06	7.44	24.69	64.94	0.80	1.00
22-Sep-24	122.60	45.20	71.78	0.04	7.28	8.53	57.09	1.40	1.00
23-Sep-24	84.41	157.20	77.02	0.00	8.01	10.09	0.00	3.51	7.00
24-Sep-24	83.36	106.10	116.84	0.00	7.45	10.97	0.00	0.87	1.00
25-Sep-24	0.00	84.10	114.20	0.25	7.68	0.00	0.00	0.00	0.00
26-Sep-24	92.66	140.30	103.26	0.10	8.10	14.13	109.80	1.80	2.00
27-Sep-24	79.27	208.50	80.88	0.21	7.77	41.31	205.60	2.01	1.00
28-Sep-24	82.17	148.40	13.07	0.33	7.92	1.44	41.00	1.33	1.00
29-Sep-24	92.27	149.80	14.68	0.00	7.91	8.66	97.85	1.48	0.00

30-Sep-24	83.48	146.10	104.26	0.14	8.07	7.81	100.79	1.24	0.00
1-Oct-24	616.71	8.40	0.00	0.00	8.16	15.41	2.60	2.10	0.00
2-Oct-24	97.62	89.10	0.00	0.00	7.10	13.19	48.80	0.98	1.00
3-Oct-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Oct-24	118.18	99.60	53.29	0.00	7.90	11.69	28.62	0.96	0.00
5-Oct-24	84.86	90.00	25.57	0.00	7.00	8.34	97.46	1.00	1.33
6-Oct-24	87.98	88.60	94.32	0.27	7.96	16.78	124.62	2.31	1.00
7-Oct-24	104.43	81.80	127.60	0.00	7.90	6.38	3.49	2.02	0.00
8-Oct-24	99.42	83.10	144.07	0.82	7.58	8.06	82.29	0.98	0.00
9-Oct-24	105.20	82.30	61.70	0.00	7.47	9.00	47.84	1.02	0.00
10-Oct-24	96.74	84.70	50.08	0.06	7.58	11.69	3.39	1.11	1.00
11-Oct-24	107.02	85.10	128.62	0.00	7.67	5.63	39.80	0.98	0.00
12-Oct-24	98.84	83.00	139.04	0.01	7.54	11.16	1.54	1.54	1.00
13-Oct-24	105.44	93.30	63.33	0.79	7.58	159.72		6.78	4.00
14-Oct-24	96.29	84.70	54.19	0.00	7.75	8.19	3.85	1.93	1.00
15-Oct-24	107.77	86.10	50.82	0.01	7.75	6.91	4.47	1.11	1.00
16-Oct-24	111.95	91.10	55.74	0.00	7.79	8.22	3.05	1.81	1.00
17-Oct-24	84.06	94.00	51.39	0.00	8.11	14.03	72.25	1.25	1.00
18-Oct-24	87.23	46.70	53.25	0.55	7.65	13.38	63.18	0.33	1.00
19-Oct-24	83.60	158.80	149.26	0.00	7.76	12.94	59.61	2.49	1.00
20-Oct-24	76.85	176.90	49.97	0.00	7.40		66.00	0.56	0.00
21-Oct-24	81.34	162.90	149.69	1.26	7.88	10.88	22.27	1.33	0.00
22-Oct-24	101.36	160.30	144.02	0.10	7.81	9.59	2.18	0.00	0.00
23-Oct-24	95.65	169.20	86.86	0.00	7.86	17.25	2.21	0.00	0.00
24-Oct-24	84.08	169.90	147.88	0.02	8.52	19.31	38.00	0.00	0.00
25-Oct-24	86.72	129.07	117.10	0.13	8.41	10.44	63.80	1.00	1.00
26-Oct-24	89.81	164.50	0.00	0.06	8.38	173.00	2.60	1.39	1.00
27-Oct-24	88.88	342.90	110.62	0.00	8.05	9.34	2.21	1.20	1.00
28-Oct-24	87.78	74.70	159.71	0.00	7.90	16.16	2.10	1.27	1.00
29-Oct-24	92.76	5.30	34.81	0.06	7.91	10.53	36.20	1.20	0.00
30-Oct-24	88.65	71.60	259.99	0.00	7.91	12.63	2.05	1.00	0.00
31-Oct-24	77.25	70.40	126.89	0.08	8.12	16.81	44.40	1.20	1.00
1-Nov-24	91.42	69.00	130.76	0.01	7.82	12.38	41.00	1.03	1.00
2-Nov-24	41.26	66.00	121.84	0.05	8.07	5.44	1.90	1.54	1.00
3-Nov-24	84.16	45.80	119.65	0.04	7.79	13.09	37.60	1.63	1.00
4-Nov-24	88.54	69.40	120.13	0.05	8.17	21.69	42.00	1.20	0.00
5-Nov-24	89.48	65.70	121.01	0.06	7.61	9.13	39.60	1.44	0.00
6-Nov-24	141.06	63.70	0.00	0.03	6.99	13.78	38.20	1.54	0.00
7-Nov-24	93.83	58.70	53.55	0.00	7.32	13.44	40.40	3.08	4.00
8-Nov-24	87.03	61.70	30.60	0.00	7.74	13.47	43.60	1.19	0.00
9-Nov-24	91.61	120.80	36.50	0.01	7.64	12.22	42.60	1.52	0.00
10-Nov-24	83.65	65.90	86.95	0.00	7.95	21.41	45.40	1.28	0.00

11-Nov-24	100.57	65.80	42.33	0.06	7.69	3.25	41.20	7.78	5.00
12-Nov-24	87.76	64.70	101.33	0.00	7.83	17.53	42.20	1.40	1.00
13-Nov-24	95.28	122.80	82.78	0.09	7.63	21.75	40.00	2.32	0.00
14-Nov-24	93.16	65.60	91.47	0.00	7.76	4.94	2.40	1.39	0.00
15-Nov-24	95.48	63.10	155.25	0.33	7.47	6.06	0.00	2.72	2.00
16-Nov-24	98.60	66.60	55.28	0.03	7.90	11.75	47.60	1.44	0.00
17-Nov-24	84.24	60.40	136.52	0.02	8.22	17.81	57.60	1.46	1.00
18-Nov-24	86.42	60.00	130.21	0.26	7.85	5.50	41.00	1.45	1.00
19-Nov-24	85.90	69.50	153.24	0.00	8.05	12.44	59.40	0.98	1.00
20-Nov-24	93.25	63.70	287.11	0.00	7.28	3.16	45.60	1.75	0.00
21-Nov-24	93.66	76.10	145.45	0.00	7.77	11.00	43.80	1.11	0.00
22-Nov-24	99.05	69.10	141.74	0.15	7.68	9.34	16.60	1.18	0.00
23-Nov-24	102.10	69.50	139.57	0.00	7.46	14.06	57.40	1.47	1.00
24-Nov-24	93.02	74.30	163.50	0.14	7.78	14.25	109.44	1.44	0.00
25-Nov-24	0.00	80.60	75.06	0.25	8.39	4.63	69.95	1.02	1.00
26-Nov-24	95.42	75.90	160.48	0.00	7.74	9.78	127.49	0.93	0.00
27-Nov-24	111.05	78.70	66.64	0.01	7.54	9.13	82.48	1.24	1.00
28-Nov-24	102.16	81.90	138.14	0.08	7.66	9.31	87.46	0.94	1.00
29-Nov-24	93.17	89.30	152.69	0.09	7.96	10.94	76.25	0.97	1.00
30-Nov-24	119.09	79.30	148.13	0.18	7.66	3.94	14.79	1.32	0.00
1-Dec-24	111.92	73.90	138.53	0.00	7.17	4.41	19.65	0.83	1.00
2-Dec-24	98.51	73.40	152.86	0.00	7.87	6.41	48.22	0.87	1.00
3-Dec-24	105.42	72.30	93.27	0.00	7.71	13.28	22.25	1.16	1.00
4-Dec-24	125.07	87.20	151.24	0.00	8.26	16.78	74.49	0.00	0.90
5-Dec-24	95.69	68.90	160.69	0.00	7.63	10.09	93.57	0.61	0.00
6-Dec-24	90.86	133.10	127.45	0.21	6.76	8.25	63.80	1.00	1.00
7-Dec-24	95.61	75.70	169.93	0.00	7.97	13.25	63.79	1.02	1.00
8-Dec-24	91.14	473.00	171.07	0.00	7.13	8.09	49.43	0.86	0.00
9-Dec-24	84.07	484.70	175.41	0.00	0.00	11.59	73.36	0.90	0.00
10-Dec-24	97.38	405.60	144.69	0.00	7.59	13.50	18.69	1.00	1.00
11-Dec-24	87.34	431.80	137.61	0.00	7.71	14.44	44.75	0.87	1.00
12-Dec-24	90.13	407.00	139.51	0.00	7.64	5.34	4.33	1.31	0.00
13-Dec-24	124.83	394.20	112.26	0.00	7.70	12.38	53.49	0.46	0.00
14-Dec-24	101.22	400.40	112.26	0.23	6.92		63.62	1.75	2.00
15-Dec-24	87.13	435.80	0.00	0.00	7.93	15.78	71.27	0.66	0.00
16-Dec-24	97.73	389.80	0.00	0.00	7.85	5.44	0.00	0.90	1.00
17-Dec-24	93.63	374.20	111.31	0.00	7.85	15.09	53.47	0.88	0.00
18-Dec-24	100.52	386.60	49.90	0.00	7.51	1.88	54.08	0.64	1.00
19-Dec-24	94.33	376.60	126.80	0.12	7.51	11.44	57.50	1.42	1.00
20-Dec-24	87.83	386.60	72.50	0.03	7.90	16.25		0.86	1.00
21-Dec-24	88.61	411.80	72.43	0.00	7.87	13.69	32.73	1.06	1.00
22-Dec-24	85.36	383.00	11.17	0.05	8.89	9.16	66.92	0.74	0.00

23-Dec-24	95.53	598.40	39.34	0.00	6.93	13.63	42.28	0.54	0.00
24-Dec-24	85.86	375.20	87.46	0.20	7.19	9.31	0.00	0.65	0.00
25-Dec-24	95.41	388.80	90.77	0.00	7.65	8.91	68.25	0.63	0.00
26-Dec-24	117.19	384.00	39.02	0.00	7.56	9.38	65.78	0.58	1.00
27-Dec-24	97.11	372.10	103.44	0.00	7.82	16.88	62.87	0.64	0.00
28-Dec-24	152.44	396.00	34.85	0.00	6.31	16.13	72.05	0.33	0.00
29-Dec-24	86.57	375.70	96.78	0.00	7.79	12.50	69.70	0.60	0.00
30-Dec-24	108.90	386.40	111.29	0.00	7.63	23.66	0.73	1.58	0.00
31-Dec-24	97.58	600.50	90.64	0.00	7.61	13.50	51.55	0.68	0.00
1-Jan-25	0.00	388.30	96.63	0.00	7.81	11.84	106.73	0.70	0.00
2-Jan-25	87.44	365.40	116.06	0.11	7.54	14.03	113.35	1.16	1.00
3-Jan-25	99.30	367.70	72.01	0.00	7.48	34.34	22.25	1.10	0.00
4-Jan-25	95.78	266.00	70.39	0.00	7.61	5.13	69.40	1.36	0.00
5-Jan-25	96.95	215.80	80.47	0.96	7.69	2.28	61.48	1.38	0.00
6-Jan-25	95.42	376.70	97.62	0.00	7.79	13.75	70.73	1.54	1.00
7-Jan-25	102.78	365.00	112.89	0.16	7.62	10.13	68.77	0.00	0.00
8-Jan-25	98.15	358.20	96.43	0.14	7.60	14.84	69.36	0.86	0.00
9-Jan-25	97.19	427.90	73.59	0.03	7.54	15.97	70.18	0.89	0.00
10-Jan-25	89.57	302.50	104.90	0.00	7.74	15.13	71.23	0.85	0.00
11-Jan-25	105.69	404.30	91.49	0.41	6.76	11.75	64.26	1.31	1.00
12-Jan-25	106.54	205.20	0.00	0.00	7.42	13.41	100.38	0.95	0.00
13-Jan-25	104.92	388.80	107.59	0.00	7.41	10.47	172.24	0.79	1.00
14-Jan-25	96.02	403.10	109.35	0.00	7.63	16.16	65.90	0.63	0.00
15-Jan-25	94.83	405.00	116.10	0.06	6.61	12.94	68.69	0.63	0.00
16-Jan-25	88.60	399.60	104.87	0.08	7.77	10.56	67.29	0.56	0.00
17-Jan-25	89.35	408.70	120.88	0.06	7.77	1.91	70.83	0.90	0.00
18-Jan-25	86.14	488.40	0.80	0.05	8.56	9.91	95.19	0.57	0.00
19-Jan-25	90.81	407.90	113.65	0.00	8.04	5.94	68.04	0.00	0.00
20-Jan-25	90.63	391.10	108.44	0.07	7.19	10.06	67.03	0.53	0.00
21-Jan-25	97.24	380.00	124.39	0.01	7.72	9.44	68.90	0.54	0.00
22-Jan-25	92.05	370.60	128.91	0.00	7.59	4.66	66.31	0.77	0.00
23-Jan-25	41.54	392.30	132.66	0.00	7.61	14.34	58.86	0.98	0.00
24-Jan-25	98.16	385.10	123.47	0.00	7.61	9.25	57.35	0.78	1.00
25-Jan-25	93.37	385.40	135.14	0.22	7.48	15.50	67.50	0.78	0.00
26-Jan-25	94.91	384.20	116.17	0.00	7.32	13.47	62.02	0.91	0.00
27-Jan-25	92.35	417.40	128.73	0.00	8.05	14.38	81.82	0.42	1.00
28-Jan-25	88.36	372.50	131.02	0.00	6.67	97.69	58.88	0.73	0.00
29-Jan-25	148.18	458.20	141.06	0.00	8.02	13.19	70.79	1.18	0.00
30-Jan-25	88.19	396.70	122.89	0.00	7.64	15.09	58.38	0.54	0.00
31-Jan-25	95.33	408.30	125.73	0.00	7.87	14.47	68.31	0.24	0.00
1-Feb-25	34.47	430.00	138.67	0.00	7.95	16.97	72.48	0.81	0.00
2-Feb-25	91.75	379.40	115.15	0.00	7.62	11.41	60.38	1.00	0.86

3-Feb-25	90.19	389.80	103.79	0.00	8.01	7.69	66.41	0.50	1.00
4-Feb-25	100.16	452.40	109.20	0.07	7.52	14.25	55.37	0.51	0.00
5-Feb-25	128.98	415.00	119.42	0.00	7.83	14.72	64.79	0.64	0.00
6-Feb-25	86.14	450.00	132.69	0.00	8.28	14.00	75.49	0.24	0.00
7-Feb-25	85.77	402.50	103.67	0.00	7.95	11.97	62.52	0.52	0.00
8-Feb-25	91.46	396.00	105.77	0.00	6.98	12.38	59.47	0.00	0.00
9-Feb-25	121.95	392.80	130.07	0.13	7.78	13.25	64.35	4.10	3.00
10-Feb-25	97.56	451.80	113.72	0.01	7.86	13.31	64.00	0.59	0.00
11-Feb-25	73.17	502.80	124.47	0.00	7.97	15.50	73.76	0.38	0.00
12-Feb-25	91.46	450.70	140.58	0.35	7.75	11.63	58.00	1.14	0.00
13-Feb-25	121.95	456.70	134.72	0.14	7.69	26.38	59.59	1.16	0.00
14-Feb-25	103.66	430.30	121.18	0.00	7.61	11.03	64.26	0.47	1.00
15-Feb-25	109.75	419.60	127.11	0.00	7.50	12.16	60.56	1.05	1.00
16-Feb-25	103.66	446.80	0.00	0.00	7.87	13.88	76.98	0.60	1.00
17-Feb-25	97.56	442.50	40.80	0.00	7.99	14.34	73.14	0.45	0.00
18-Feb-25	97.56	444.50	46.28	0.00	7.91	12.09	74.16	1.01	1.00