

## CONSULTING SERVICE REPORT

<b>CUSTOMER: SERCO - NEW YORK UNIVERSITY, ABU DHABI</b>	<b>To: Mr. Ratheesh Muttath Operations Engineer</b>	<b>DATE: 05-10-2019</b>
<b>CUSTOMER ID: 3003</b>	<b>Copy: SERCO - NYUAD</b>	<b>LAST VISIT: 07-09-2019</b>

### POTABLE WATER ANALYSIS

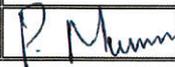
PARAMETER	CONTROL LIMITS	COLD WATER	
		A1D1	
pH at 25°C	7.0 - 9.2	7.84	
Conductivity at 25°C, µs/cm	--	191	
Total Dissolved Solids (TDS)	1000 Max.	124	
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	61	
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	54	
Total Alkalinity	--	32	
Chloride, ppm as Cl <sup>-</sup>	250 Max.	44	
Iron, ppm as Fe	0.2 Max.	<0.05	
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10	
Copper (Cu), mg/l	1 Max.	<0.05	
Aluminum (Al), mg/l	0.2 Max.	<0.05	
Zinc (Zn), mg/l	5 Max.	<0.05	
Nitrate (NO <sub>3</sub> -), mg/l	50 Max.	<1.0	
Nitrite (NO <sub>2</sub> -), mg/l	3.0 Max.	<0.05	
Fluorides (F)	1.5 Max.	<0.01	
Potassium (K)	12 Max.	<5.0	

#### Treatment Residuals

Odor	Unobjectionable	ND	
Chlorine Dioxide ClO <sub>2</sub>	0.2 - 0.5	0.41	
Free Residual Chlorine as Cl	0.2 - 0.5	--	
Turbidity in NTU	4 Max.	<1.0	

All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).

COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. ⇨	No action recommended.
Dissolved iron levels are within control limits ⇨	No action recommended.
Chlorine Dioxide levels found satisfactory ⇨	No action recommended.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Bello Zon Acid	15 Cans		--	--
Bello Zon Chlorite	15 Cans		--	--
Service Engineer:	Murugaraaj	Client:	Mr. Ratheesh Muttath	
Signature:		Signature:		



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### POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	COLD WATER	
		A2A3	
pH at 25°C	7.0 - 9.2	7.89	
Conductivity at 25°C, µs/cm	--	207	
Total Dissolved Solids (TDS)	1000 Max.	134	
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	53	
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	42	
Total Alkalinity	--	29	
Chloride, ppm as Cl <sup>-</sup>	250 Max.	34	
Iron, ppm as Fe	0.2 Max.	<0.05	
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10	
Copper (Cu), mg/l	1 Max.	<0.05	
Aluminum (Al), mg/l	0.2 Max.	<0.05	
Zinc (Zn), mg/l	5 Max	<0.05	
Nitrate (NO <sub>3</sub> -), mg/l	50 Max.	<1.0	
Nitrite (NO <sub>2</sub> -), mg/l	3.0 Max.	<0.05	
Fluorides (F)	1.5 Max	<0.01	
Potassium (K)	12 Max.	<5.0	

#### Treatment Residuals

Odor	Unobjectionable	ND	
Chlorine Dioxide ClO <sub>2</sub>	0.2 - 0.5	0.37	
Free Residual Chlorine as Cl	0.2 - 0.5	--	
Turbidity in NTU	4 Max	<1.0	

*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).*

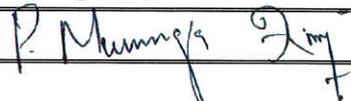
#### COMMENTS:

#### ACTION:

The pH and Conductivity/TDS are found satisfactory. ⇨	No action recommended.
Dissolved iron levels are within control limits ⇨	No action recommended.
Chlorine Dioxide levels found satisfactory ⇨	No action recommended.

#### INVENTORY LEVELS

#### DOSAGE SCHEDULE

Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Bello Zon Acid	15 Cans		--	--
Bello Zon Chlorite	15 Cans		--	--
<b>Service Engineer:</b>	<b>Murugaraaj</b>		<b>Client:</b>	<b>Mr. Ratheesh Muttath</b>
<b>Signature:</b>			<b>Signature:</b>	



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### POTABLE WATER ANALYSIS

PARAMETER	CONTROL LIMITS	COLD WATER	
		A4A5	
pH at 25°C	7.0 - 9.2	7.84	
Conductivity at 25°C, µs/cm	--	210	
Total Dissolved Solids (TDS)	1000 Max.	136	
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	56	
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	52	
Total Alkalinity	--	31	
Chloride, ppm as Cl <sup>-</sup>	250 Max.	39	
Iron, ppm as Fe	0.2 Max.	<0.05	
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10	
Copper (Cu), mg/l	1 Max.	<0.05	
Aluminum (Al), mg/l	0.2 Max.	<0.05	
Zinc (Zn), mg/l	5 Max	<0.05	
Nitrate (NO <sub>3</sub> <sup>-</sup> ), mg/l	50 Max.	<1.0	
Nitrite (NO <sub>2</sub> <sup>-</sup> ), mg/l	3.0 Max.	<0.05	
Fluorides (F)	1.5 Max	<0.01	
Potassium (K)	12 Max.	<5.00	

#### Treatment Residuals

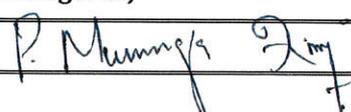
Odor	Unobjectionable	ND	
Chlorine Dioxide ClO <sub>2</sub>	0.2 - 0.5	0.34	
Free Residual Chlorine as Cl	0.2 - 0.5	--	
Turbidity in NTU	4 Max	<1.0	

*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).*

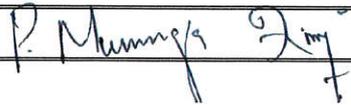
COMMENTS:	ACTION:
The pH and Conductivity/TDS are found satisfactory. ⇨	No action recommended.
Dissolved iron levels are within control limits ⇨	No action recommended.
Chlorine Dioxide levels found satisfactory ⇨	No action recommended.

INVENTORY LEVELS			DOSAGE SCHEDULE	
Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Bello Zon Acid	15 Cans		--	--
Bello Zon Chlorite	15 Cans		--	--
Service Engineer:	Murugaraaj		Client:	Mr. Ratheesh Muttath
Signature:			Signature:	

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<b>POTABLE WATER ANALYSIS</b>				
		<b>COLD WATER</b>		
<b>PARAMETER</b>	<b>CONTROL LIMITS</b>	<b>A6D2</b>		
pH at 25°C	7.0 - 9.2	7.90		
Conductivity at 25°C, µs/cm	--	192		
Total Dissolved Solids (TDS)	1000 Max.	124		
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	54		
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	50		
Total Alkalinity	--	31		
Chloride, ppm as Cl <sup>-</sup>	250 Max.	41		
Iron, ppm as Fe	0.2 Max.	<0.05		
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10		
Copper (Cu), mg/l	1 Max.	<0.05		
Aluminum (Al), mg/l	0.2 Max.	<0.05		
Zinc (Zn), mg/l	5 Max.	<0.05		
Nitrate (NO <sub>3</sub> <sup>-</sup> ), mg/l	50 Max.	<1.0		
Nitrite (NO <sub>2</sub> <sup>-</sup> ), mg/l	3.0 Max.	<0.05		
Fluorides (F)	1.5 Max.	<0.01		
Potassium (K)	12 Max.	<5.0		
<b>Treatment Residuals</b>				
Odor	Unobjectionable	ND		
Chlorine Dioxide ClO <sub>2</sub>	0.2 - 0.5	0.36		
Free Residual Chlorine as Cl	0.2 - 0.5	--		
Turbidity in NTU	4 Max.	<1.0		
<i>All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).</i>				
<b>COMMENTS:</b>	<b>ACTION:</b>			
The pH and Conductivity/TDS are found satisfactory. ⇨	No action recommended.			
Dissolved iron levels are within control limits ⇨	No action recommended.			
Chlorine Dioxide levels found satisfactory ⇨	No action recommended.			
<b>INVENTORY LEVELS</b>				
<b>DOSAGE SCHEDULE</b>				
<b>Chemical</b>	<b>Quantity</b>	<b>Chemical</b>	<b>Present Dosage</b>	<b>Revised Dosage</b>
Bello Zon Acid	15 Cans		--	--
Bello Zon Chlorite	15 Cans		--	--
<b>Service Engineer:</b>	<b>Murugaraaj</b>		<b>Client:</b>	<b>Mr. Ratheesh Muttath</b>
<b>Signature:</b>			<b>Signature:</b>	

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<b>POTABLE WATER ANALYSIS</b>					
			<b>COLD WATER</b>		
<b>PARAMETER</b>		<b>CONTROL LIMITS</b>		<b>C1B1</b>	
pH at 25°C		7.0 - 9.2		8.07	
Conductivity at 25°C, µs/cm		--		204	
Total Dissolved Solids (TDS)		1000 Max.		132	
Total Hardness, ppm as CaCO <sub>3</sub>		300 Max.		54	
Calcium Hardness, ppm as CaCO <sub>3</sub>		200 Max.		50	
Total Alkalinity		--		33	
Chloride, ppm as Cl <sup>-</sup>		250 Max.		36	
Iron, ppm as Fe		0.2 Max.		<0.05	
Sulphate (SO <sub>4</sub> ), mg/l		250 Max.		<10	
Copper (Cu), mg/l		1 Max.		<0.05	
Aluminum (Al), mg/l		0.2 Max.		<0.05	
Zinc (Zn), mg/l		5 Max.		<0.05	
Nitrate (NO <sub>3</sub> -), mg/l		50 Max.		<1.0	
Nitrite (NO <sub>2</sub> -), mg/l		3.0 Max.		<0.05	
Fluorides (F)		1.5 Max.		<0.01	
Potassium (K)		12 Max.		<5.0	
<b>Treatment Residuals</b>					
Odor		Unobjectionable		ND	
Chlorine Dioxide ClO <sub>2</sub>		0.2 - 0.5		0.41	
Free Residual Chlorine as Cl		0.2 - 0.5		--	
Turbidity in NTU		4 Max.		<1.0	
<i>All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).</i>					
<b>COMMENTS:</b>			<b>ACTION:</b>		
The pH and Conductivity/TDS are found satisfactory. ⇨			No action recommended.		
Dissolved iron levels are within control limits ⇨			No action recommended.		
Chlorine Dioxide levels found satisfactory ⇨			No action recommended.		
<b>INVENTORY LEVELS</b>			<b>DOSAGE SCHEDULE</b>		
<b>Chemical</b>	<b>Quantity</b>	<b>Chemical</b>	<b>Present Dosage</b>	<b>Revised Dosage</b>	
Bello Zon Acid	15 Cans		--	--	
Bello Zon Chlorite	15 Cans		--	--	
<b>Service Engineer:</b>	Murugaraaj		<b>Client:</b>	Mr. Ratheesh Muttath	
<b>Signature:</b>			<b>Signature:</b>		

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### POTABLE WATER ANALYSIS

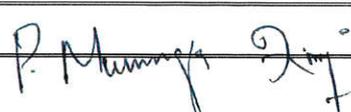
PARAMETER	CONTROL LIMITS	COLD WATER	
		C2	
pH at 25°C	7.0 - 9.2	8.13	
Conductivity at 25°C, µs/cm	--	212	
Total Dissolved Solids (TDS)	1000 Max.	137	
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	57	
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	54	
Total Alkalinity	--	331	
Chloride, ppm as Cl <sup>-</sup>	250 Max.	36	
Iron, ppm as Fe	0.2 Max.	<0.05	
Sulphate (SO <sub>4</sub> ), mg/l	250 Max.	<10	
Copper (Cu), mg/l	1 Max.	<0.05	
Aluminum (Al), mg/l	0.2 Max.	<0.05	
Zinc (Zn), mg/l	5 Max.	<0.05	
Nitrate (NO <sub>3</sub> <sup>-</sup> ), mg/l	50 Max.	<1.0	
Nitrite (NO <sub>2</sub> <sup>-</sup> ), mg/l	3.0 Max.	<0.05	
Fluorides (F)	1.5 Max.	<0.01	
Potassium (K)	12 Max.	<5.00	

#### Treatment Residuals

Odor	Unobjectionable	ND	
Chlorine Dioxide ClO <sub>2</sub>	0.2 - 0.5	0.34	
Free Residual Chlorine as Cl	0.2 - 0.5	--	
Turbidity in NTU	4 Max.	<1.0	

*All test results expressed in parts per million (ppm) as CaCO<sub>3</sub> except pH and conductivity (µmhos).*

COMMENTS:	ACTION:
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Chemical	Quantity	Chemical	Present Dosage	Revised Dosage
Bello Zon Acid	15 Cans		--	--
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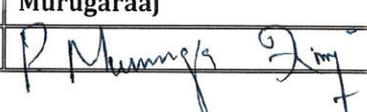
PARAMETER	CONTROL LIMITS	COLD WATER	
		C3B2	
pH at 25°C	7.0 - 9.2	7.91	
Conductivity at 25°C, µs/cm	--	204	
Total Dissolved Solids (TDS)	1000 Max.	132	
Total Hardness, ppm as CaCO <sub>3</sub>	300 Max.	51	
Calcium Hardness, ppm as CaCO <sub>3</sub>	200 Max.	46	
Total Alkalinity	--	28	
Chloride, ppm as Cl <sup>-</sup>	250 Max.	31	
Iron, ppm as Fe	0.2 Max.	<0.05	
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Copper (Cu), mg/l	1 Max.	<0.05	
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Zinc (Zn), mg/l	5 Max	<0.05	
Nitrate (NO <sub>3</sub> <sup>-</sup> ), mg/l	50 Max.	<1.0	
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Odor	Unobjectionable	ND	
Chlorine Dioxide ClO <sub>2</sub>	0.2 - 0.5	0.34	
Free Residual Chlorine as Cl	0.2 - 0.5	--	
Turbidity in NTU	4 Max	<1.0	

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Bello Zon Acid	15 Cans		--	--
Bello Zon Chlorite	15 Cans		--	--
Service Engineer:	Murugaraaj		Client:	Mr. Ratheesh Muttath
Signature:			Signature:	