



NCH (THAILAND) CO., LTD

38/57 Moo 5, Bangsamak, Bangpakong, Chachoengsao 24180

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Email: order.nchthai@nch.com Website: www.nchasia.com

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Company :	Shangri La Hotel Ching Mai	Date :	26/01/2565
Address :	89/2 Chang Klan Road, Muang, Chiang Mai	Rep :	Attanee Chumnanlop
Contact Person :	Mr.Chalerm Proka	Rep Phone :	061-795-8080
Contact Phone :	(053)-253888	Service Tech. :	Pongsakorn
Contact Fax :	(053) 253800	Service Tech Phone :	064 - 730 2151

Waste Water Analysis

SAMPLE IDENTIFICATION	pH	Conductivity	BOD5	Suspended Solid	Total Phosphorus	Total Kjeldahl Nitrogen	Oil and Grease	Sulfide	Dissolve Oxygen	MLSS	MLVSS	SVL30	TDS	Total Coliform Bacteria	Fecal Coliform Bacteria	Free Chlorine
			(mg/cm)	(mg/l)	(mg/l)	(ppm)	(mg/l)	(mg/l)	(ppm)	(ppm)	(ppm)	(ppm)	(mg/l)	(MPN/100ml)	(MPN/100ml)	(ppm)
Influent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aeration	7.40	752	-	-	-	-	-	-	0.11	-	-	5	-	-	-	-
Effluent	7.42	642	5.50	25.20	Not Analysis	21.50	2.75	1.50	-	-	-	-	302	> 160000	> 160000	0.00
Control limit Aeration	6.0 - 8.0	-	-	8.5 - 10.5	< 40	-	-	-	1.5 - 4.0	1000-3000	800-1500	100 - 300	-	-	-	-
Control limit Effluent	6.0 - 8.0	< 3500	< 20	< 30	-	< 35	< 20	< 1	-	-	-	-	-	< 5000	< 1000	< 1

Standard : มาตรฐานการบำบัดน้ำเสียชุมชนและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุม การระบายน้ำทิ้งจากอาคารบางประเภท และบางขนาด 2548

BOD : N : P	RATIO	BOD	N	P
	Target	100	5	1
	Current	-	-	Not Analysis
F/M Ratio, 1Q*BOD/MLSS*AerationTank/d	Target	0.2 - 0.5		
	Current	-		

SYSTEM STATUS: & ACTION REQUIRED

SYSTEM STATUS:

Influent :	Don't Sampling , Next Samplin in March 2022
Aeration :	pH level is Stable , low DO level , SV30 = < 10 , Now we are treatment at EQ tank , water is clear light brown color , low Active bacteria sludge in system
Effluent :	Waste Water has light yellow color, have few shudge, BOD in control range , Grease & Oil and pH in control limit , SS in control limit , but Sulfide over control need more oxygen Fecal Coliform & Total Coliform over control limit , Need to increase chlorine dosing for increase Residual Chlorine in effluent water

Action Required :

1. NCH will follow up our bacteria in Aerator tank because we need to monitor this bacteria by SV30 for maintain our BOD level , now SV30 lower than control need to return sludge for maintain volume
2. For EQ tank now we change to aeration tank , we need to increase more Dissolve oxygen and Bacteria [SV30 > 200] for control performance. Because waste water volume increase.
3. NCH will follow up waste water volume with scm staff .if we have waste water volume Average more than 200 Q/day , NCH will dosing Active Bacteria to Main Aeration Tank and Running

Chemical	L,Kg	per	wk,mth	water	Control	Pump Settings	Stock	Remark
Bioamp	1 Box	per	MTH	Auto	Auto	Auto	Auto	Stop Dosing
Chlorine	-	per	-	-	50 ppm	-	-	NCH will follow up
Active Bacteria	200	per	3 mth	-	-	-	-	-
-	-	per	-	-	-	-	-	-
-	-	per	-	-	-	-	-	-

Customer

Attanee Chumnanlop

Technical Sales Engineer

Chem-Aqua Division,NCH (Thailand) CO.LTD.



NCH (THAILAND) CO., LTD

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Company :	Shangri La Hotel Chiang Mai	Date :	15/02/2565
Address :	89/2 Chang Klan Road, Muang, Chiang Mai	Rep :	Attanee Chumnanlop
Contact Person :	Mr.Chalerm Proka	Rep Phone :	061-795-8080
Contact Phone :	(053) -253888	Service Tech. :	1 Pongsakorn
Contact Fax :	(053) 253800	Service Tech Phone :	064 - 730 2151

Waste Water Analysis

SAMPLE IDENTIFICATION	pH	Conductivity	BOD5	Suspended Solid	Total Phosphorus	Total Kjeldahl Nitrogen	Oil and Grease	Sulfide	Dissolve Oxygen	MLSS	MLVSS	SVL30	TDS	Total Coliform Bacteria	Fecal Coliform Bacteria	Free Chlorine
			(mg/L)	(mg/L)	(mg/L)	(ppm)	(mg/L)	(mg/L)	(ppm)	(ppm)	(ppm)	(ppm)	(mg/L)	(MPN/100 ml)	(MPN/100 ml)	(ppm)
Influent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aeration	7.52	684	-	-	-	-	-	-	0.08	-	-	10	-	-	-	-
Effluent	7.45	657	17.30	27.40	Not Analysis	20.80	6.25	1.34	-	-	-	-	151	> 160000	> 160000	0.00
Control limit Aeration	6.0 - 8.0	-	-	8.5 - 10.5	< 40	-	-	-	1.5 - 4.0	1000-3000	800-1500	100 - 300	-	-	-	-
Control limit Effluent	6.0 - 8.0	< 3500	< 20	< 30	-	< 35	< 20	< 1	-	-	-	-	-	< 5000	< 1000	< 1

Standard : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุม การระบายน้ำทิ้งจากโรงงานประเภท และขนาด 2548

BOD : N : P	RATIO	BOD	N	P
	Target	100	5	1
	Current	-	-	Not Analysis
F/M Ratio	Target	0.2 - 0.5		
EQ*BOD/MLSS*Aeration Tank	Current	-		

SYSTEM STATUS: & ACTION REQUIRED

SYSTEM STATUS:

Influent :	Don't Sampling , Next Sample in March 2022								
Aeration :	pH level is Stable , low DO level , SV30 = < 10 , Now we are treatment at EQ tank , water is clear light brown color , low Active bacteria sludge in system								
Effluent :	Waste Water has light yellow color , have few sludge , BOD in control range , Grease & Oil and pH in control limit , SS in control limit , but Sulfide over control need more oxygen								
	Fecal Coliform & Total Coliform over control limit , Need to increase chlorine dosing for increase Residual Chlorine in effluent water								
Action Required :									
1. as we follow up SV30 in Aerator tank , we need to increase bacteria in this tank and check by SV30 at least 200 ppm for maintain our BOD level , Need to return sludge for maintain volume									
2. For EQ tank , we need to drain waste water inside and keep water level minimum for cover media , Because our waste water need oxygen to treatment if we not running we should drain water out									
3. NCH will follow up waste water volume with slcm staff ,if we have waste water volume Average more than 200 Q/day , NCH will dosing Active Bacteria to Main Aeration Tank and Running									
Chemical	L,Kg	per	wk,mth	water	Control	Pump Settings	Stock	Remark	
Bioamp	1 Box	per	MTH	Auto	Auto	Auto	Auto	Stop Dosing	
Chlorine	-	per	-	-	50 ppm	-	-	NCH will follow up	
Active Bactera	200	per	3 mth	-	-	-	-	-	
-	-	per	-	-	-	-	-	-	
-	-	per	-	-	-	-	-	-	

Customer

Attanee Chumnanlop

Technical Sales Engineer

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Company :	Shangri La Hotel Chiang Mai	Date :	17/03/2565
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Contact Phone :	(053) -253888	Service Tech. :	Pongsakorn
Contact Fax :	(053) 253800	Service Tech Phone :	064 - 730 2151

Waste Water Analysis

SAMPLE IDENTIFICATION	pH	Conductivity	BOD5	Suspended Solid	Total Phosphorus	Total Kjeldahl Nitrogen	Oil and Grease	Sulfide	Dissolve Oxygen	MLSS	MLVSS	SVL30	TDS	Total Coliform Bacteria	Fecal Coliform Bacteria	Free Chlorine
		(us/cm)	(mg/l)	(mg/l)	(ppm)	(mg/l)	(mg/l)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(mg/l)	(MPN/100 ml)	(MPN/100 ml)	(ppm)
Influent	6.69	574	498.00	274.00	Not Analysis	35.30	12.30	2.01	-	-	-	-	403	> 160000	> 160000	-
Aeration	7.40	707	-	-	-	-	-	-	0.49	-	-	< 10	-	-	-	-
Effluent	7.44	672	19.00	6.91	Not Analysis	27.60	4.00	0.66	-	-	-	-	319	> 160000	> 160000	0.00
Control limit Aeration	6.0 - 8.0	-	-	8.5 - 10.5	< 40	-	-	-	1.5 - 4.0	1000-3000	800-1500	100 - 300	-	-	-	-
Control limit Effluent	6.0 - 8.0	< 3500	< 20	< 30	-	< 35	< 20	< 1	-	-	-	-	-	< 5000	< 1000	< 1

Standard : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุม การระบายน้ำทิ้งจากอาคารประเภท และขนาด พ.ศ. 2548

BOD : N : P	RATIO	BOD	N	P
	Target	100	5	1
	Current	-	-	Not Analysis
F/M Ratio	Target	0.2 - 0.5		
BOD/MLSS*AerationTank1	Current	-		

SYSTEM STATUS: & ACTION REQUIRED**SYSTEM STATUS:**

Influent :	Waste water has light yellow & normal sludge volume. This month BOD loading we increase from last 3 month now 498 ppm , pH and conductivity is stable
Aeration :	pH level is Stable , low DO level , SV30 = < 10 , Now we are treatment at EQ tank and use Aeration tank for increase duration time , low Active bacteria sludge in system
Effluent :	Waste Water has light yellow color, have few sludge, BOD in control range , Grease & Oil and pH in control limit , SS in control limit , Sulfide in control but we still need more oxygen for treatment , Fecal Coliform & Total Coliform over control limit , Need to increase chlorine dosing for increase Residual Chlorine in effluent water

Action Required :

1. As we follow up SV30 in Aerator tank , we need to increase bacteria in this tank and check by SV30 at least 200 ppm for maintain our BOD level , Need to return sludge for maintain volume
2. For main aeration tank now water don't stagnant , SLCM change aeration tank for hold waste water after treatment at EQ tank for increase duration time [increase treatment performance]
3. NCH will follow up waste water volume with slcm staff .if we have waste water volume Average more than 200 Q/day , NCH will dosing Active Bacteria to Main Aeration Tank and Running

Chemical	L,Kg	per	wk,mth	water	Control	Pump Settings	Stock	Remark
Bioamp	1 Box	per	MTH	Auto	Auto	Auto	Auto	Stop Dosing
Chlorine	-	per	-	-	50 ppm	-	-	NCH will follow up
Active Bacteria	200	per	3 mth	-	-	-	-	-
-	-	per	-	-	-	-	-	-
-	-	per	-	-	-	-	-	-

Customer

Attanee Chumnanlop

Technical Sales Engineer

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Contact Phone :	(053) -253888	Service Tech. :	Pongsakorn
Contact Fax :	(053) 253800	Service Tech Phone :	064 - 730 2151

Waste Water Analysis

SAMPLE IDENTIFICATION	pH	Conductivity	BOD5	Suspended Solid	Total Phosphorus	Total Kjeldahl Nitrogen	Oil and Grease	Sulfide	Dissolve Oxygen	Settleable Solids	MLVSS	SVL30	TDS	Total Coliform Bacteria	Fecal Coliform Bacteria	Free Chlorine
			(mg/cm)	(mg/l)	(mg/l)	(ppm)	(mg/l)	(mg/l)	(ppm)	(ppm)	(ppm)	(ppm)	(mg/l)	(MPN/100ml)	(MPN/100ml)	(ppm)
Influent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aeration	7.33	695	-	-	-	-	-	-	0.11	-	-	< 10	-	-	-	-
Effluent	7.44	672	15.50	24.90	Not Analysis	33.10	2.50	0.86	-	Waiting	-	-	314	> 160000	> 160000	0.00
Control limit Aeration	6.0 - 8.0	-	-	8.5 - 10.5	< 40	-	-	-	1.5 - 4.0	-	800-1500	100 - 300	-	-	-	-
Control limit Effluent	6.0 - 8.0	< 3500	< 20	< 30	-	< 35	< 20	< 1	-	< 0.5	-	-	-	< 5000	< 1000	< 1

Standard : ประกาศกระทรวงสาธารณสุขและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุม การระบายน้ำทิ้งจากอาคารประเภท โรงแรม พ.ศ. 2548

BOD : N : P	RATIO	BOD	N	P
	Target	100	5	1
	Current	-	-	Not Analysis
F/M Ratio	Target	0.2 - 0.5		
EQ=BOD/MLSS*Aeration Tank	Current	-		

SYSTEM STATUS: & ACTION REQUIRED

SYSTEM STATUS:

Influent :	Next Sample in July 2022
Aeration :	pH level is Stable , low DO level 0.11 ppm , SV30 = 15 , Now we are treatment at EQ tank and use Aeration tank for increase duration time , low Active bacteria sludge in system
Effluent :	Waste Water has light grey color, have few sludge, BOD in control range , Grease & Oil and pH in control limit , SS in control limit , Sulfide in control but we still need more oxygen for treatment , Fecal Cohform & Total Coliform over control limit , Need to increase chlorine dosing for increase Residual Chlorine in effluent water
Action Required :	
1. As we follow up SV30 in Aerator tank , we need to increase bacteria in this tank and check by SV30 at least 200 ppm for maintain our BOD level , Need to return sludge for maintain volume	
2. For main aeration tank now water don't stagnant , SLCM change aeration tank for hold waste water after treatment at EQ tank for increase duration time [increase treatment performance]	
3. NCH will increase Settleable Solids parameter in May 2022 , on April 2022 we have waste water loading increase form 150 Q/Day to 192 Q/Day	

Chemical	L,Kg	per	wk,mth	water	Control	Pump Settings	Stock	Remark
Bioamp	1 Box	per	MTH	Auto	Auto	Auto	Auto	Stop Dosing
Chlorine	-	per	-	-	50 ppm	-	-	NCH will follow up
Active Bacteria	200	per	3 mth	-	-	-	-	-
-	-	per	-	-	-	-	-	-
-	-	per	-	-	-	-	-	-

Customer

Attanee Churnanlop
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Contact Fax :	(053) 253800	Service Tech Phone :	064 - 730 2151

Waste Water Analysis

SAMPLE IDENTIFICATION	pH	Conductivity	BOD5	Suspended Solid	Total Phosphorus	Total Kjeldahl Nitrogen	Oil and Grease	Sulfide	Dissolve Oxygen	Settleable Solids	MLVSS	SVL30	TDS	Total Coliform Bacteria	Fecal Coliform Bacteria	Free Chlorine
			(ns/cm)	(mg/l)	(mg/l)	(ppm)	(mg/l)	(mg/l)	(ppm)	(ppm)	(ppm)	(ppm)	(mg/l)	(MPN/100 ml)	(MPN/100 ml)	(ppm)
Influent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aeration	7.40	695	-	-	-	-	-	-	0.09	-	-	< 10	-	-	-	-
Effluent	7.49	698	15.50	26.70	Not Analysis	29.30	2.75	2.82	-	0.50	-	-	452	> 160000	> 160000	0.00
Control limit Aeration	6.8 - 8.8	-	-	8.5 - 10.5	< 40	-	-	-	1.5 - 4.0	-	800-1500	100 - 300	-	-	-	-
Control limit Effluent	6.8 - 8.8	< 3500	< 20	< 30	-	< 35	< 20	< 1	-	< 0.5	-	-	-	< 5000	< 1000	< 1

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BOD : N : P	RATIO	BOD	N	P
	Target	100	5	1
	Current	-	-	Not Analysis
F/M Ratio	Target	0.2 - 0.5		
10*BOD/MLSS*Aeration Tank	Current	-		

SYSTEM STATUS: & ACTION REQUIRED

SYSTEM STATUS:

Influent :	Next Sample in July 2022									
Aeration :	pH level is Stable , low DO level 0.09 ppm , SV30 = < 10 , Now we are treatment at EQ tank and use Aeration tank for increase duration time , low Active bacteria sludge in system									
Effluent :	Waste Water has light grey color, have few sludge, BOD in control range , Grease & Oil and pH in control limit , SS in control limit , Sulfide out of control because we need more oxygen for treatment , Fecal Coliform & Total Coliform over control limit , Need to increase chlorine dosing for increase Residual Chlorine in effluent water									
Action Required :										
1. As we follow up SV30 in Aerator tank , we need to increase bacteria in this tank and check by SV30 at least 200 ppm for maintain our BOD level , Need to return sludge for maintain volume										
2. For main aeration tank now water don't stagnant , SLCM change aeration tank for hold waste water after treatment at EQ tank for increase duration time [increase treatment performance]										
3. NCH check Settleable Solids parameter in May 2022 (normal level) . On May 2022 we have more waste water loading 192 Q/Day ,NCH Recommended to running air pump in Aeration if June22 have high l										
Chemical	L,Kg	per	wk,mth	water	Control	Pump Settings	Stock	Remark		
Bioamp	1 Box	per	MTH	Auto	Auto	Auto	Auto	Stop Dosing		
Chlorine	-	per	-	-	50 ppm	-	-	NCH will follow up		
Active Bacteria	200	per	3 mth	-	-	-	-	-		
-	-	per	-	-	-	-	-	-		
-	-	per	-	-	-	-	-	-		

Customer

Attanee Chumnanlop
Technical Sales Engineer
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Contact Fax :	(053) 253800	Service Tech Phone :	064 - 730 2151

Waste Water Analysis

SAMPLE IDENTIFICATION	pH	Conductivity	BOD5	Suspended Solid	Total Phosphorus	Total Kjeldahl Nitrogen	Oil and Grease	Sulfide	Dissolve Oxygen	Settleable Solids	MLVSS	SVI.30	TDS	Total Coliform Bacteria	Fecal Coliform Bacteria	Free Chlorine
			(us/cm)	(mg/l)	(mg/l)	(ppm)	(mg/l)	(mg/l)	(ppm)	(ppm)	(ppm)	(ppm)	(mg/l)	(MPN/100ml)	(MPN/100ml)	(ppm)
Influent	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aeration	7.50	715	-	-	-	-	-	-	0.16	-	-	10	-	-	-	-
Effluent	7.50	612	22.70	21.20	Not Analysis	28.00	4.25	0.93	-	< 0.1	-	-	258	> 160000	> 160000	0.00
Control limit Aeration	6.0 - 8.0	-	-	8.5 - 10.5	< 40	-	-	-	1.5 - 4.0	-	800-1500	100 - 300	-	-	-	-
Control limit Effluent	6.0 - 8.0	< 3500	< 20	< 30	-	< 35	< 20	< 1	-	< 0.5	-	-	-	< 5000	< 1000	< 1

Standard : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานคุณภาพน้ำทิ้งจากโรงงานประเภ และขนาด 2548

BOD : N : P	RATIO	BOD	N	P
	Target	100	5	1
	Current	-	-	Not Analysis
F/M Ratio R ² =BOD/MLSS*Aeration Tank	Target	0.2 - 0.5		
	Current	-		

SYSTEM STATUS: & ACTION REQUIRED

SYSTEM STATUS:

Influent :	Next Sample in July 2022
Aeration :	pH level is Stable , DO level increase 0.16 ppm , SV30 = 10 , we are treatment at EQ tank switch to Aeration tank in last week of June 2022 , SV30 increase to 10 ppm on 27 June 2022
Effluent :	Waste Water has light yellow color, have few sludge, BOD over range , Grease & Oil and pH in control limit , SS in control limit , Sulfide in control limit after we increase dissolve oxygen for treatment , Fecal Coliform & Total Coliform over control limit , Need to increase chlorine dosing for increase Residual Chlorine in effluent water

Action Required :

- As we follow up SV30 in Aerator tank , SV30 increase to 10 ppm after we switch to running at aeration tank. We need to increase SV30 to 200 ppm for maintain our BOD level , Need to continue running
- For main aeration tank now water use only one channel , SLCM change piping from EQ tank pump directly to aeration tank for increase treatment time [we have more waste water loading on this month]
- NCH will following SV30 level and Waste Water load in first week of July 2022 , and sampling influent water for analysis. If we have more BOD loading maybe we need more oxygen & bacteria for treatment

Chemical	L,Kg	per	wk,mth	water	Control	Pump Settings	Stock	Remark
Bioamp	1 Box	per	MTH	Auto	Auto	Auto	Auto	Stop Dosing
Chlorine	-	per	-	-	50 ppm	-	-	NCH will follow up
Active Bacteria	200	per	3 mth	-	-	-	-	-
-	-	per	-	-	-	-	-	-
-	-	per	-	-	-	-	-	-

Customer

Attanee Chumnanlop

Technical Sales Engineer

Chem-Aqua Division,NCH (Thailand) CO.LTD.