

Department: ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION-WATER AIR QUALITY MONITORING SECTION

Report Control Number:  
Date of Inspection: March 15, 2022  
Mission Order No.: EMBR8-2022-007030

1. GENERAL INFORMATION																													
Name of Establishment: <b>TBK MANUFACTURING CORPORATION</b>																													
Address: Hollywood Brgy. 74 Nula-tula Tacloban City		Geo Coordinates: 10.39687, 124.77232																											
Nature of Business: Carrageenan Extraction and Refining																													
PSIC Code: 10205	Product: Carrageenan Powder	Year Established: 1999																											
Operating hours/day: 24	Operating days/week: 6	Operating days/year: 312																											
Product Lines	Production Rate as Declared in the ECC (unit/day)	Actual Production Rate (unit/day)																											
Carrageenan Powder	570 MT	1000 KG																											
Name of Managing Head:	Mr. Peter Tan																												
Name of PCO:	Engr. Jeffrey A. Sinodivilla																												
PCO Accreditation No.:	COA No. 2020-RVIII-0013	Date of Effectivity: January 13, 2020																											
Phone/Fax:	888-3252/0943036459/ 09190858627	Email: jeffrey@tbk.com.ph																											
2. PURPOSE OF INSPECTION																													
<div><input type="checkbox"/> Verify accuracy of information submitted by the establishment pertaining to new permit applications, renewals, or modification</div> <table><thead><tr><th></th><th>New</th><th>Renewal</th></tr></thead><tbody><tr><td><input type="checkbox"/> New Renewal</td><td></td><td></td></tr><tr><td><input type="checkbox"/> PMPIN Application</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/> Hazardous Waste ID Registration</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/> Hazardous Waste Transporter Registration</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/> Hazardous waste TSD Registration</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/> Permit to Operate Air Pollution Control Installation</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/> Discharge Permit</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td><input type="checkbox"/> Others _____</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></tbody></table>				New	Renewal	<input type="checkbox"/> New Renewal			<input type="checkbox"/> PMPIN Application	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Hazardous Waste ID Registration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Hazardous Waste Transporter Registration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Hazardous waste TSD Registration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Permit to Operate Air Pollution Control Installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Discharge Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Others _____	<input type="checkbox"/>	<input type="checkbox"/>
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<div><input checked="" type="checkbox"/> Determine compliance status with the environmental regulations, permit conditions, and other requirements</div> <div><input type="checkbox"/> Investigate community complaints</div> <div><input type="checkbox"/> Check status of voluntary commitment</div> <div><input type="checkbox"/> Industrial Ecowatch</div> <div><input type="checkbox"/> Philippine Environmental Partnership Program (PEPP)</div> <div><input type="checkbox"/> Pollution Adjudication Board (PAB)</div> <div><input type="checkbox"/> Others _____</div> <div><input type="checkbox"/> Others _____</div>																													
Name of Contact Person	Rutzel B. Limpiado																												
Position / Designation	Operations Manager																												

3. COMPLIANCE STATUS

3.1 DENR Permits/Licenses/Clearance

Environmental Law	Permits		Date of Issue	Expiry Date
PD 1586	ECC1	ECC-08-000321-0083	Mar 28, 2000	N/A
	ECC2	ECC-R08-1701-0002	Jan. 13, 2017	
	ECC3	N/A		
RA 6969	DENR Registry ID	GR-R8-37-0061	Aug. 17, 2017	
	PCL Compliance Certificate	N/A		
	CCO Registry	N/A		
	Permit to Transport	N/A		
RA 8749	POA No.	POA-2019-E-0837-0144	May 17, 2019	May 17, 2024
RA 9003	ECC for Sanitary Landfill	N/A		
RA 9275	DP No.	DP-R08-21-06096	Sept. 15, 2021	Sept. 15, 2022

4. Water Supply and Wastewater Generation						
A. Water Sources						
Sources of Water Supply	Daily (m³/day)		Annual (m³/day)		Specify if Others	
Surface water (river, lakes, etc.)						
Groundwater						
Water utilities	22.5					
Others (specify)						
B. Wastewater Sources						
Water Use / Sources of Wastewater	Consumed (m³/day)		Generated (m³/day)		Specify if Others	
Process Water			9.0			
Domestic Water			1.0			
Cooling Water						
Maintenance			1.0			
Storm drain						
Others (specify)			1.5		Washing/Cleaning	
			10.0		Recycled/Reuse	
C. Quality of Abstracted Water						
Sources of Water Supply	BOD/ COD	TSS	AVFP	Heavy Metals		Specify if Others

x5. Information on Wastewater Pollution	
A. Does the Establishment have a Wastewater Treatment Plant?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. What type of WWTP?	<input checked="" type="checkbox"/> Physical <input checked="" type="checkbox"/> Biological <input checked="" type="checkbox"/> Chemical <input type="checkbox"/> Others
C. WWTP Detail	
1. Date Installed	2000
2. Design Capacity	215 CU. M/day
3. Cost of WWTP	10 M

4. Annual Maintenance Cost (Php/year)			
5. Location of Discharge Point(s)	Receiving Water Body	Classification of Water Body	
Final Effluent Tank at the back of the Plant	Anibong Bay	SC	
	<input checked="" type="checkbox"/> V-weir	Other (specify) _____	
6. Flow Metering Device Use	<input type="checkbox"/> Flow Meter		
7. Flow Rate	Influent	Effluent	Others (specify)
A. Components of WWTP			
Primary	Biological	Chemical	Others
<input type="checkbox"/> Screening	<input type="checkbox"/> Activated Sludge	<input checked="" type="checkbox"/> pH Adjustment	
<input checked="" type="checkbox"/> Primary Treatment	<input checked="" type="checkbox"/> Anaerobic Digestion	<input type="checkbox"/> Disinfection	
<input type="checkbox"/> Grit Removal	<input type="checkbox"/> Tricking Filter	<input type="checkbox"/> Oxidation/Reduction	
<input type="checkbox"/> Oil/Water Separator	<input checked="" type="checkbox"/> Oxidation/Stabilization Pond	<input type="checkbox"/> Flocculation/ Coagulation	
<input type="checkbox"/> Equalization Tank	<input type="checkbox"/> Sequencing Batch Reactor	<input type="checkbox"/> Others (specify) _____	
<input type="checkbox"/> Others (specify) _____	<input type="checkbox"/> Others (specify) _____		
B. Condition of the WWTP			
1. What is the general condition of the WWTP during sampling?		<input checked="" type="checkbox"/> Properly maintained <input type="checkbox"/> Inadequately maintained <input type="checkbox"/> Poor maintenance <input type="checkbox"/> Others	
2. Is the WWTP under construction or undergoing rehabilitation?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. If the answer is No. 2 is YES, has this been reported to EMB/LLDA?			
4. Which System or units are under construction or being modified?			
5. Estimated date of completion			
6. Treatment units utilized to treat wastewater			

Water Quality Field Date						
Sampling Point No. 1						
Sampling Station				Sampling Time:	AM/PM	
Type of Sample						
Result Analysis						
Parameter	Value	Unit	DENR Effluent Standards	Compliant		Remarks
				Yes	No	
Effluent sampling was not conducted during the time of monitoring due to absence of operations.						

III. SUMMARY OF FINDINGS					
Legal Reference	Compliance Requirements	Compliant			Remarks
		Y	N	N/A	
DAO 2005-10 Rule 13.1	1. Does the establishment pay the required wastewater charge?	/			Paid on 09/10/2021 with OR No. 473761
DAO 2005-10 Rule 14.1	2. Does the establishment have a Discharge Permit?	/			DP-R08-21-06096

DAO 2005-10 Rule 14.5	3. Does the establishment pay the required discharge permit fee?	/			Paid on 09/10/2021 with OR No. 473761
DAO 2005-10 Rule 14.9	4. Is the permit available and valid?	/			DP valid until September 15, 2022
DAO 2005-10 Rule 14.11	5. Do the discharge points correspond to those declared in the discharge permit?	/			
	6. Is the volume discharged within the allowable volume declared in the discharge permit?	/			
	7. Is the permit posted in a proper area?	/			
DAO 2005-10 Rule 14.16	8. Are the SMRs submitted quarterly and on time?	/			
DAO 1990-35 Section 4-6	9. Are the effluent parameters compliant with the standards in DENR existing effluent standards?	/			
DAO 1990-35 Section 8	10. Does the establishment comply with the additional requirements stated in DAO 1990-35?	/			
DAO 1990-35 Section 9	11. Are the pollution control facilities properly and continuously operated?	/			
DAO 1990-35 Section 10	12. Are the methods of analysis used for effluent samples in accordance with the prescribed methods of the Department?	/			
Other Requirements	13. Are the copies of water analysis reports available?	/			
	14. Are the correspondence between the establishment and EMB documented?			/	
	15. Are the establishment's compliance violations and exceedances documented?			/	
	16. Are there any pending litigation/PAB cases?			/	
	17. Are there spill prevention contingency plans?			/	
	18. Are there spill containment facilities available?			/	

<p><b>Other Observations:</b></p> <ol style="list-style-type: none"> <li><b>The carageenan manufacturing project was not operational during the time of monitoring due to lack of fuel. Last operation was on March 10, 2022.</b></li> <li><b>Maintenance activities of plant facilities were conducted.</b></li> <li><b>Discharge Permit and Permit to Operate Air are valid.</b></li> <li><b>No effluent sampling was conducted due to no operations during the time of monitoring.</b></li> <li><b>Compliance Monitoring Report for the 2nd semester 2021 was submitted on January 5, 2022 while the 4th quarter SMR for 2021 was submitted on January 13, 2022.</b></li> <li><b>Volume of generated wastewater in submitted quarterly SMR does not conform with the wastewater volume provided in Discharge Permit.</b></li> <li><b>Good housekeeping was observed in project site.</b></li> <li><b>Emission testing of APSE and APCF were conducted on December 6-7, 2021. Results for boilers 1 and 2 (biomass boilers) were within the DENR standards for PM and CO. Emission test reports were not yet submitted to this Office. No emission test report yet for the 115 BHP “Lincharng” BFO boiler.</b></li> </ol>
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Remarks and Recommendation:
<div>1. To schedule the conduct of effluent wastewater sampling to check efficiency of WTP.</div> <div>2. Provide correct data on volume of generated wastewater in Module 3.0 of SMR. Indicated volume should conform with Discharge Permit.</div> <div>3. Submit emmision test reports of APSE and APCF to this Office.</div>
List of Documents Reviewed:
Environmental Compliance Certificate, SMR, CMR & Discharge Permit

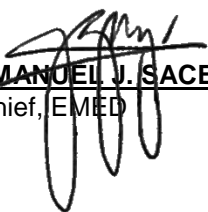
Submitted by:

  
**JO ANNE JOY M. DAÑAL-VILLERO**  
Sr. EMS

Recommending Approval:

  
**ENGR. CARLOS A. CAYANONG**  
Chief, WAQMS

Approved by:

  
**FOR. MANUEL J. SACEDA, JR.**  
OIC Chief, EMED

Noted by:

  
**REYNALDO B. BARRA, PME**  
OIC Regional Director