



3rd Quarter 2022 MRFC REPORT

Presented by:

Jeb B. Badlon

General Supervisor

MEPEO / Environmental Management & QC Section

Section I.

CBNC PROJECT AREAS

(Introduction)

Section I.1 PROJECT AREA

Project Information	
ECC No.	ECC CO-1806-0014
MPP No.	006-2004-IVB (3 rd Renewal)
Date Approved	07-Dec-20
Permit Holder	Coral Bay Nickel Corporation
President	SHIROIMAI
Area	583 has.
Location	Rio Tuba, Bataraza, Palawan
Product	Mixed Sulfide of Nickel and Cobalt
Type of Processing	High Pressure Acid Leach Technology

Source of Material	(MPSA) Tenement No.	Commodity
Rio Tuba Nickel Mining Corp.	114-98-IV	Limonite Ore



Image © 2021 Maxar Technologies
 Data SIO, NOAA, U.S. Navy, NGA, etc.

Section II.

CAPACITY & PRODUCTION DATA

Section II.1

2022	Milled Ore	Metal Content	
		NICKEL	COBALT
	DMT	DMT	DMT
JANUARY	206,218	1,897	156
FEBRUARY	163,983	1,453	108
MARCH	165,877	1,572	112
APRIL	182,435	1,561	104
MAY	121,496	1,154	80
JUNE	175,702	1,593	115
JULY	192,776	1,782	114
AUGUST	193,299	1,725	114
Total	1,401,786	12,738	962



Section III.

REQUIRED ENVIRONMENTAL FUNDS & FEES

Section III.1

REQUIRED FUNDS for ETF, MTF, RCF, FMRDPF

Required Funds	Required Amount Php	Deposited Amount		Account Name / Number at DBP Trust System
		Php	As of	
ETF	200,000.00	319,185.12	Sep.19, 2022	CBNC - ETF / 016-24-211312
MTF	150,000.00	163,958.23	Sep.19, 2022	CBNC - MTF / 016-24-111312
RCF	5,000,000.00	5,727,792.71	Sep.19, 2022	CBNC - RCF / 016-24-011312
FMRDPF	Required cumulative amount of deposit in year 2022: 264,372,502.00	211,432,100.65	Sep.22, 2022	CBNC FMRDP – ESCROW / 016-24- 012278
TOTAL		217,643,036.71		

Section III.2

FMRDP Fund Update

Amount of 1st Lodging	Total Deposited as of Sep.22, 2022	Amount to be lodged for 2022 as per approved FMRDP	Total Cumulative Amount required as of 31 Dec 2022
	Php	Php	Php
28,071,450.00	211,432,100.65	66,093,125.00	264,372,502.00

**To be deposited
before Dec. 2022**

Schedule of Annual Cash Provisions for the Final Mine Rehabilitation and Decommissioning Fund of Coral Bay Nickel Corporation's CBNC Expansion Project

Year	Factor	Amount to be Deposited, P	Cumulative Amount, P
2010-2019	-	105,930,000.00	105,930,000.00
2020	0.333	4,115,054.00*	110,045,054.00
2021	0.267	88,234,322.00	198,279,376.00
2022	0.200	66,093,125.00	264,372,502.00
2023	0.133	43,951,928.00	308,324,430.00
2024	0.067	22,141,197.00	330,465,627.00
2025	-	-	-
Total	1.00	330,465,627.00	330,465,627.00

*Note – CBNC will only be required to deposit an amount of P4,115,053.79 to complete the required cash provision of P110,045,053.79 for 2020. This is after deducting its total approved FMRDP of P105,930,000.00 from 2010-2019, which is already deposited by the company.

171-2020-14
NOV 04 2020

Run Date: 09-28-2022
Run Time: 10:20:34



TRUST SYSTEM
OUTSTANDING BALANCE OF INVESTMENT
As of September 30, 2022

CBN NUMBER 011312

T.O. In No.	Value Date	Cash Out	Gross Rate	Net of Tax	Coupon Rate	Full Term	Maturity Date	Sec Type	Face Value	Maturity Value	Maturity Value Net of Trust Fees
016-24 -011312 - CORAL BAY NICKEL CORPORATION - RCF											
00159208	09/19/22	5,727,792.71	4.125000%	3.300000%	0.000000%	35	10/24/22	CTO	5,727,792.71	5,746,169.38	5,743,385.04
016-24 -012278 - CORAL BAY NICKEL CORPORATION FMRDF-ESCROW											
00158930	09/07/22	4,496,761.42	3.500000%	2.800000%	0.000000%	35	10/12/22	CTO	4,496,761.42	4,509,002.60	4,507,909.64
00158931	09/07/22	45,252,198.00	3.500000%	2.800000%	0.000000%	35	10/12/22	CTO	45,252,198.00	45,375,384.54	45,364,385.74
00158932	09/07/22	20,379,140.92	3.500000%	2.800000%	0.000000%	35	10/12/22	CTO	20,379,140.92	20,434,617.47	20,429,664.21
00158933	09/07/22	5,622,706.73	3.500000%	2.800000%	0.000000%	35	10/12/22	CTO	5,622,706.73	5,638,012.99	5,636,646.36
00158935	09/07/22	13,127,532.03	3.500000%	2.800000%	0.000000%	35	10/12/22	CTO	13,127,532.03	13,163,268.09	13,160,077.37
00158936	09/07/22	51,050,423.92	3.500000%	2.800000%	0.000000%	35	10/12/22	CTO	51,050,423.92	51,189,394.52	51,176,986.43
00158937	09/07/22	2,269,718.86	3.500000%	2.800000%	0.000000%	35	10/12/22	CTO	2,269,718.86	2,275,897.54	2,275,345.87
00158938	09/07/22	3,883,497.70	3.500000%	2.800000%	0.000000%	35	10/12/22	CTO	3,883,497.70	3,894,069.44	3,893,125.53
00159204	09/19/22	1,745,891.79	4.125000%	3.300000%	0.000000%	35	10/24/22	CTO	1,745,891.79	1,751,493.19	1,751,068.84
00159207	09/19/22	5,821,177.80	4.125000%	3.300000%	0.000000%	35	10/24/22	CTO	5,821,177.80	5,839,854.08	5,838,439.21
00159210	09/19/22	50,831,759.85	4.125000%	3.300000%	0.000000%	35	10/24/22	CTO	50,831,759.85	50,994,845.08	50,982,490.14
00159276	09/21/22	1,131,060.11	4.250000%	3.400000%	0.000000%	35	10/26/22	CTO	1,131,060.11	1,134,798.89	1,134,523.98
00159290	09/22/22	4,168,841.15	4.125000%	3.300000%	0.000000%	35	10/27/22	CTO	4,168,841.15	4,182,216.18	4,181,202.92
00159291	09/22/22	1,651,390.37	4.125000%	3.300000%	0.000000%	35	10/27/22	CTO	1,651,390.37	1,656,688.58	1,656,287.20
016-24 -111312 - CORAL BAY NICKEL CORPORATION - MTF											
00159206	09/19/22	163,958.23	4.125000%	3.300000%	0.000000%	35	10/24/22	CTO	163,958.23	164,484.26	164,404.56
016-24 -211312 - CORAL BAY NICKEL CORPORATION - ETF											
00159205	09/19/22	319,185.12	4.125000%	3.300000%	0.000000%	35	10/24/22	CTO	319,185.12	320,209.17	320,054.01
TOTAL		<u>217,643,036.71</u>							<u>217,643,036.71</u>	<u>218,270,406.00</u>	<u>218,215,997.05</u>

Section III.3

DBP BANK STATEMENT REQUIRED FUNDS



Section III.4

Wastewater Discharge Fee = Php 102,466.58
covering the period of Oct. 2020 to Sep. 2021

DATA AS REPORTED IN SMR

Month/Yr	Discharged Water to the Sea m3	Ibelnan TSS mg/L	Effluent TSS mg/L	Increase in TSS mg/L
		As reported in SMR	As reported in SMR	
Oct-20	369,083	2.6	2.0	-0.6
Nov-20	207,013	0.5	15.0	14.5
Dec-20	101,991	0.9	10.0	9.1
Jan-21	193,292	2.7	8.0	5.3
Feb-21	300,487	3.2	11.0	7.8
Mar-21	338,125	5.2	11.0	5.8
Apr-21	270,270	1.6	3.0	1.4
May-21	227,152	0.8	3.0	2.2
Jun-21	279,277	5.4	4.0	-1.4
Jul-21	331,212	1.2	13.0	11.8
Aug-21	314,793	1.6	14.0	12.4
Sep-21	363,470	6.0	13.0	7.0
TOTAL	3,296,165			

Computation of Discharge Fee per Month Peso	Remarks
P 0.00	
P 15,008.44	
P 4,640.59	
P 5,122.24	
P 11,718.99	
P 9,805.63	
P 1,891.89	
P 2,498.67	
P 0.00	
P 19,541.51	
P 19,517.17	
P 12,721.45	
P 102,466.58	WASTEWATER DISCHARGE FEE PAYABLE

$$WDF = Ln \times R$$

Where:

WDF = Wastewater Discharge Fee

Ln = Net waste Load = (Q x TSS x 0.001)

R = Rate per kilogram = P 5/kg for TSS

RECEIVED January 2, 2022 (MIMAROPA)

Official Receipt of the Republic of the Philippines

Nº 0852047 B

Date 02.22.2022

Agency EMB MIMAROPA Fund

Payor CORAL BAY NICKEL CORPORATION BRGY. RIO TUBA

Collection Code Amount

Wastewater Discharge Fee (Water 153) 102,466.58

TOTAL 102,466.58

Amount in Words One Hundred Two Thousand Four Hundred Sixty Six and 58/100 Pesos Only

☐ Cash ☒ Check ☐ Money Order

Drawee Bank Number Date

Received the amount stated above.

MARIA PRINCESS LOUELLA D. OCLARIT
CLC, Charge Section
EMB IV-B (MIMAROPA)
Collecting Officer

NOTE: Write the number and date of this receipt on the back of check or money order received.



Mr. Benjamin A. Tansingon
Vice President - Environmental Management
CORAL BAY NICKEL CORPORATION
24th, 25th Floor, NAC Tower
32nd Street, Bonifacio Global City
Taguig City 1634, Philippines
Fax No.: (02)8548-7130; (02)8548-7131

Attention : Mr. Job B. Badion
Pollution Control Officer

Dear Mr. Tansingon:

This has reference to the wastewater discharge fee (October 2019 - September 2020) computation for your hydrometallurgical processing plant project located at Brgy. Rio Tuba, Zamboanga, Palawan.

Please be informed that after thorough evaluation of documents submitted and our records, this Office agrees with the wastewater discharge fee computation. As such, you may now pay the amount of Eighty Thousand Nine Hundred Twelve and 58/100 Pesos (P 80,912.58) at our Regional Office through cash, Postal Money Order, Manager's/Cashier's Check payable to EMB - MIMAROPA Region on or before 30 December 2020. Attached is the Order of Payment for your reference.

Please be guided accordingly.

Very truly yours,

MARIA FE A. RUIFLORIDO
OR, Compliance and Permitting Division



Section III.5

Payment of Mill Tailings Fee

Period	Mill Tailings Generated (MT)	Amount Paid (₱)	Date of Payment
Jul-Dec 2021	1,103,167.53	110,316.75	Jan.28, 2022 (OR. No. 6099778 I) Jul.21, 2022 (OR. No. 6100741)
Jan-Jun 2022	1,270,582.35	127,058.24	

Section IV.

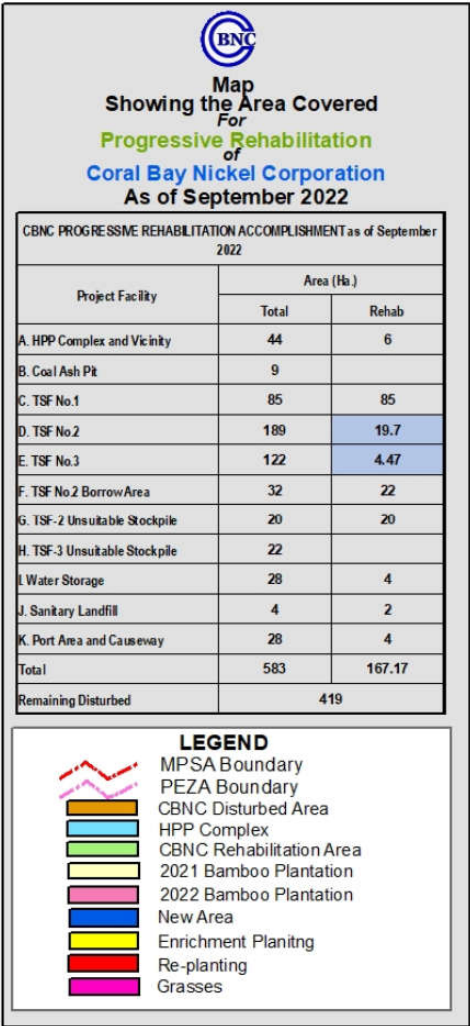
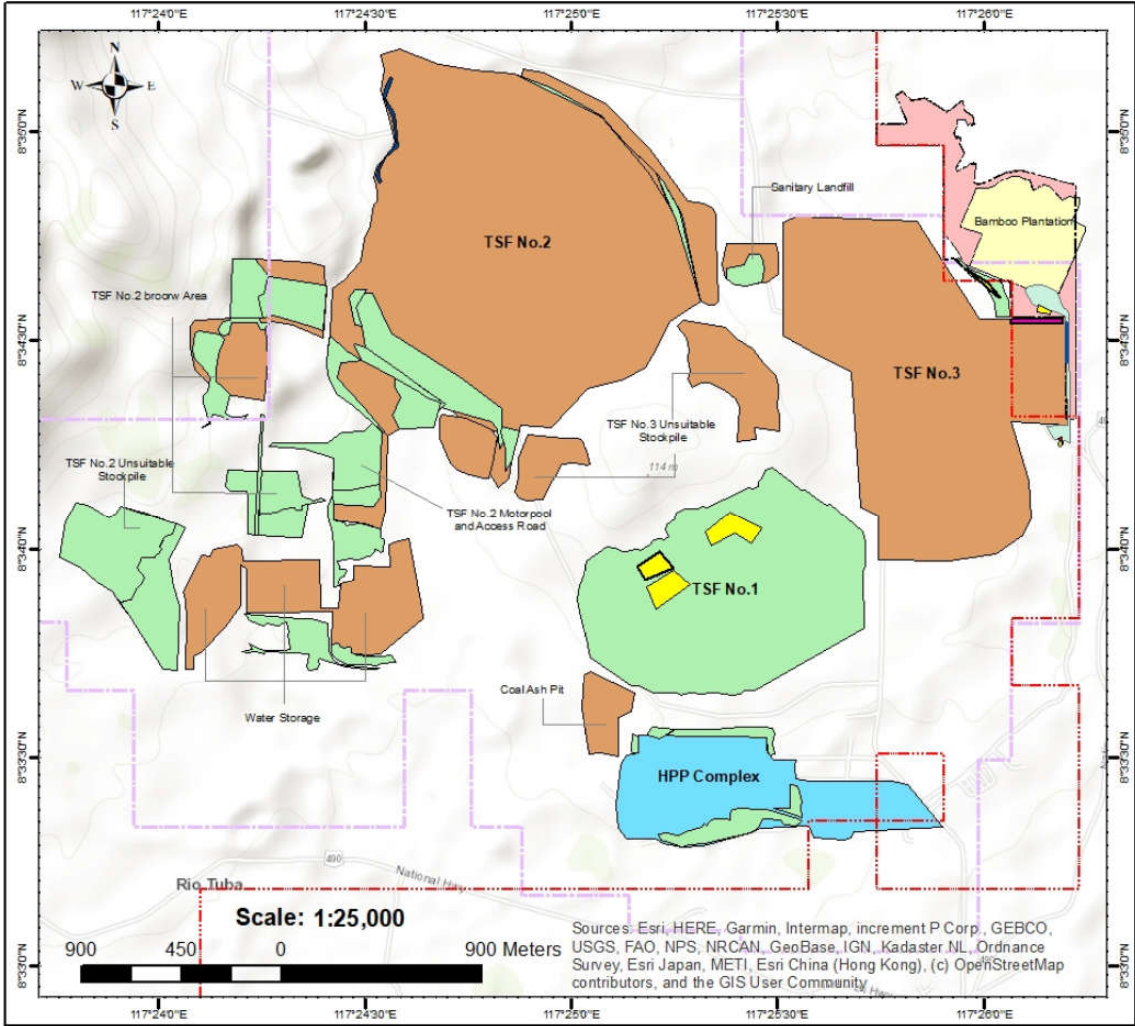
AEPEP ACCOMPLISHMENTS

Section IV. 1 Land Resources - 2022 AEPEP Accomplishment



2022 AEPEP Activities	Unit of Work Measure (UWM)	Annual Physical / Financial Target, Php	Quarterly Physical / Financial Accomplishment			Total as of this Quarter	% Accomplishment	REMARKS
	Unit Cost, Php		1stQ	2ndQ	3rdQ			
1. Land Resource							80%	PHYSICAL ACCOMPLISHMENT
a. Progressive Rehabilitation								
a.1 New Area established	Area planted (hectares)	5	0	0.5	1.0	1.5	30%	3Q2022 a total of 0.8 hect are was planted with trees and 0.2 hecatre with
	239,555	1,197,774	0	0	368,164	368,164.1	31%	No billing yet.
	no. of seedlings planted	13,332	0	0	3,580	3,580.0	27%	
	Grass planted (in hectares)	2	0	0.5	0.2	0.7	35%	Grass planted on the Sope of Motorpool and Stockyard of TSF-3
a.2 Maintenance of established areas	Total Area maintained (hectares)	167	167	167	167	167	100%	
	27,885	4,656,838	952,201	891,577	844,726	2,688,504.2	58%	Maintenance and Enhancement conducted.
	no. of seedlings to be replanted	4,444	0	500	0	500.0	11%	To start in the 2Q2022. Only 10 hectares out of the 167 hectares old plantation is estimated to be replanted for mortality.
	no. of seedling planted for enhancement	25,556	500	15,186	16,236	31,922.0	125%	In 2Q2022, enrichment planting is at TSF-1 and TSF-3 buffer zone. In 1Q2022 enrichment planting is at TSF-3 buffer zone during the Bataraza National High
b. Mangrove reforestation								
b.1 New Area established	Area planted (hectares)	15	0	15	0	15.0	100%	
	12,500	187,500	0	187,500	0	187,500.0	100%	With the confirmation of CENRO Brooke's Pt., 15 hectare area at Sito Bongkol-bongkol, Rio Tuba was planted with mangrove by CBNC.
	no. of seedlings planted	37,500	0	37,500	0	37,500.0	100%	
b.2 Maintenance of established areas	Area maintained (hectares)	51	51	51	51	51.0	100%	Continue Maintenance of 51 has. Of mangrove area was planted (2015-2021)
	Maintenance of mangrove	100%	100%	100%	100%	100%	100%	
c. Bamboo Plantation								
c.1 New Area established	Area planted (hectares)	20	2	18	0	20.0	100%	Finished planting of the 20 hectare bamboo plantation 2022 target.
	15,580	311,600	141,836	256,293	48,036	446,164.7	143%	Exceeded the budget on area preparation/clearing due to overgrowth of grass
	no. of propagules planted	4,080	0	3,672	0	3,672.0	90%	204 Culms per Hectare
c.2 Maintenance of established areas	Area maintained (hectares)	30	30	30	30	30.0	100%	Continue Maintenance of Planted Bamboo
	27,885	836,558	406,033	405,587	426,456	1,238,075.9	148%	Exceeded the budget due to overgrowth of grass.
	no. of propagules maintained	6,120	6,120	6,120	6,120	6,120.0	100%	Continued maintenance of the previously planted bamboo propagules.
d. Seedlings production	no. of seedlings produced	90,000	17,668	5,168	48,117	70,953.0	79%	This seedling will be produced in 2022 for the 2023 planting to new area for
	15	1,350,000	284,179	310,454	438,658	1,033,291.6	77%	rehab, enrichment, donation and ornamental plants.
SUB Total		8,540,270	1,784,249	2,051,411	2,126,040	5,961,701	70%	FINANCIAL ACCOMPLISHMENT

Section IV. 2 Land Resources - 2022 AEPEP Accomplishment



Section IV. 2 Land Resources - 2022 AEPEP Accomplishment



**0.7 hectare new area planted/established at
TSF-2 West Diversion Channel**

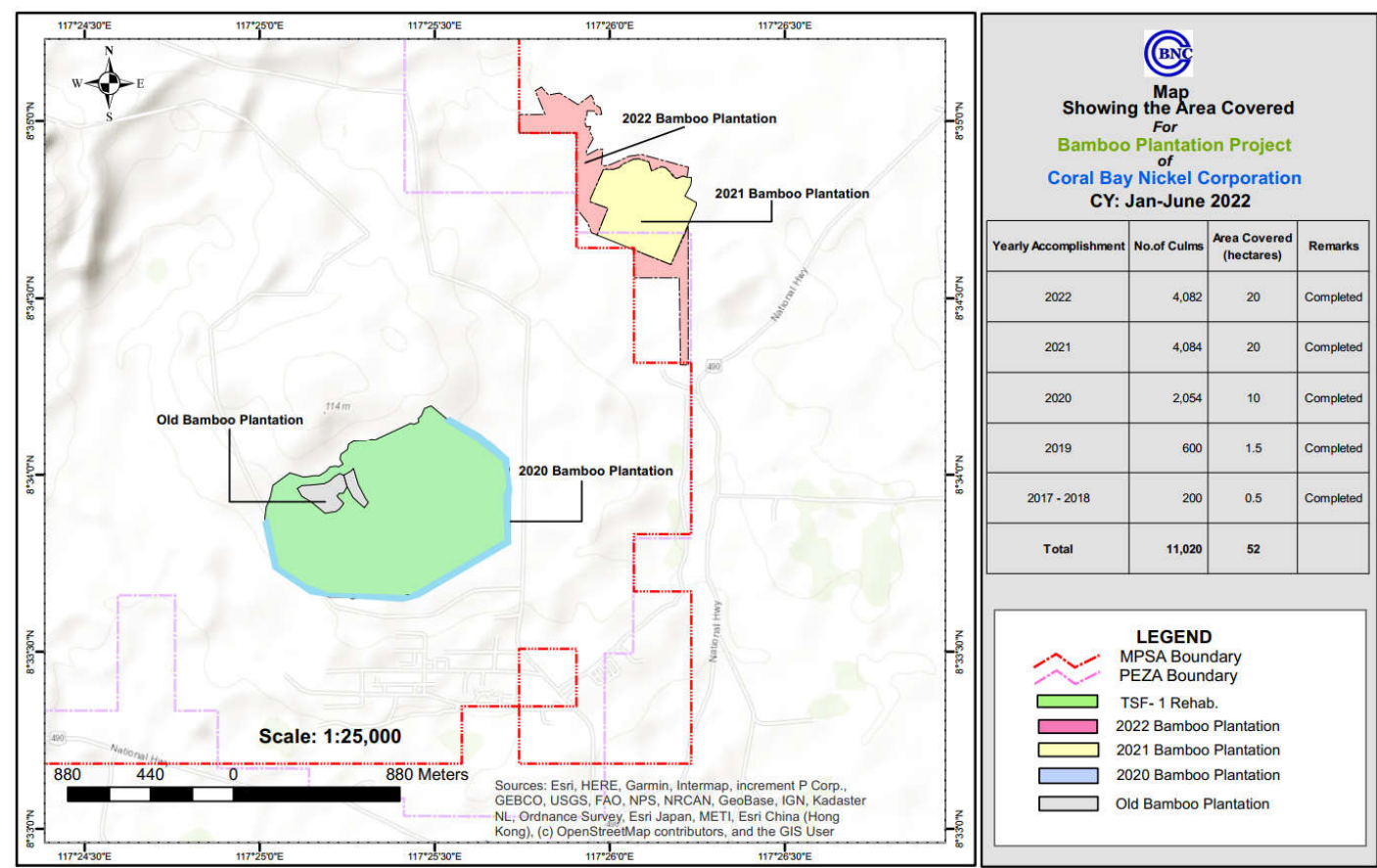


**Malakatmon planting in
TSF-3 Slope**



**0.3 hectare new area planted with trees and grass
at TSF-3 Motorpool and Stockyard**

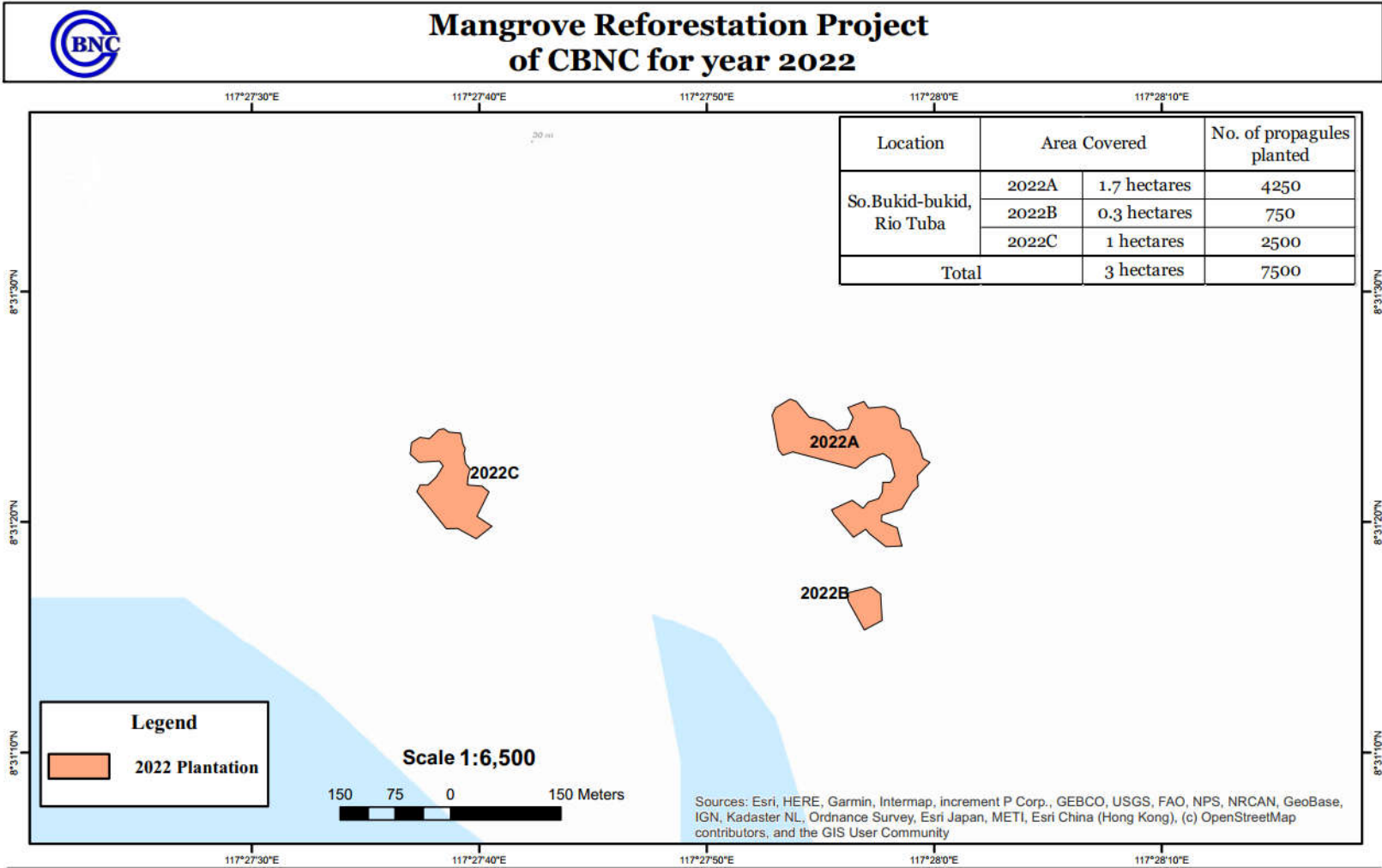
Section IV. 4 Land Resources - 2022 AEPEP Accomplishment for Bamboo Plantation Project



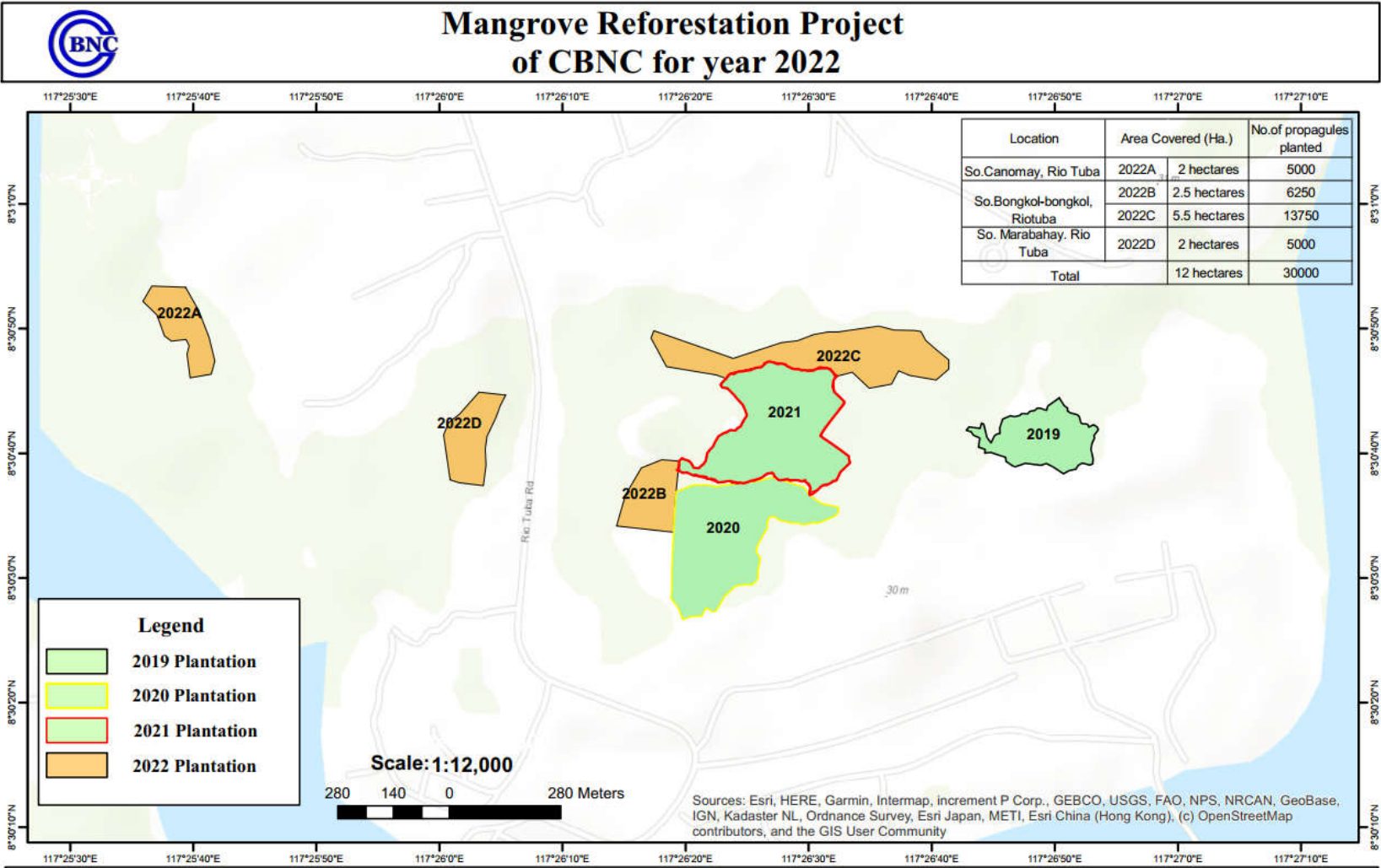
- Completed 20 hectares bamboo plantation in Bohoy Road near TSF-3 Buffer zone.
- A total of 4,082 bamboo culms was planted within the acquired lot of RTNMC.)



Section IV. 5 Land Resources - 2022 AEPEP Accomplishment_Mangrove Reforestation So. Bukid-bukid



Section IV. 5 Land Resources - 2022 AEPEP Accomplishment_Mangrove Reforestation_So. Bongkol-bongkol, Canomay, Marabahay



Section V. Water Resource and Quality - 2022 AEPEP Accomplishment

2022 AEPEP Activities	Unit of Work Measure (UWM)	Annual Physical / Financial Target, Php	Quarterly Physical / Financial Accomplishment			Total as of this Quarter	% Accomplishment	REMARKS
	Unit Cost, Php		1stQ	2ndQ	3rdQ			
2. Water Resource and Quality							70%	PHYSICAL ACCOMPLISHMENT
a. Water Pollution Control Facilities								
a.1 Operation of Final-Neutralization Plant	no. of fully operational plant	2	2	2	2	2	100%	Continuously operated
	no. of days operational plant	365	90	79	92	261	72%	
	3,727,008	1,360,357,747	426,572,769	493,724,817	411,361,242	1,331,658,827	98%	
a.2 Operation of Tailings Storage Facilities (TSF)	no. of fully operational TSF	1	1	1	1	1	100%	TSF is operational throughout the year.
	no. of days of fully operational TSF	365	90	91	92	273	75%	
	54,809	20,005,191	1,320,983	8,681,612	5,001,298	15,003,893	75%	
	Power Consumption Cost per Day	365	0	0	0	0	0%	
	468,999	171,184,497	0	0	0	0	0%	
	Daily Admin. Cost	365	0	0	0	0	0%	
	183,156	66,851,935	0	0	0	0	0%	
	Daily Lab. Analysis Cost	365	0	0	0	0	0%	
b.1 Water Quality Monitoring - (Effluent) and Water Bodies	57,630	21,034,796	0	0	0	0	0%	Conducted sampling as planned
	no. of submissions to laboratory for analysis	12	3	3	3	9	75%	
	26,406	316,876	73,080	136,600	280,733	490,413	155%	
	no. of lots of sampling materials/equipment utilized	12	3	3	3	9	75%	
	6,192	74,300	0	0	0	0	0%	
b.2 Water Quality Monitoring - Ground Water Quality Monitoring	No. of sampling conducted	264	66	66	66	198	75%	Sampling conducted per month to 22 stations
	No. of parameters measured per sample	16	16	16	16	16	100%	Analyzed parameters: As, Cd, COD, Cu, Fe, Pb, Mn, Hg, Ni, O&G, pH, Se, Temp, TSS, Zn, Cr6+.
	No. of sampling conducted	24	6	6	6	18	75%	Conducted sampling as planned
c. Solid Waste Management	No. of parameters measured per sample	14	14	14	14	14	100%	pH, Temp., TSS, Mn, As, Cd,Pb,Ni, COD, Se, Fe, Cu, Zn, Hg
c.1 Non-Hazardous Waste Management	No. of days of wastes collection	313	77	79	79	235	75%	No collection during Sundays. Practiced solid waste segregation at source and complied RA 9003
	41,102	12,865,000	2,419,653	1,551,626	1,576,703	5,547,983	43%	
	Amount of wastes generated (Tons)	2,600	418	475	365	1,258	48%	
c.2 Hazardous Waste Management	No. of Transport and Treatment	3	1	1	0	2	67%	March 26, 2022 Date of Treatment for the first transported wastes this year as per Certificate of Treatment (COT).
	878,333	2,635,000	102,971	1,161,401	164,238	1,428,609	54%	Still waiting for billing from Transporter and Treater.
	Amount of wastes generated (Tons)	100	22	29	20	71	71%	89 Tons of various hazardous wastes was treated as of 2nd quarter as per COT.
d. Coal ash sampling & analysis	No. of analysis conducted	2	1	0	0	1	50%	In 2022, there are 2 stations per sampling (Line 1 and 2 coal ash)
	133,153	266,306	0	13,560	0	13,560	5%	
	No. of sampling conducted	4	2	0	0	2	50%	
	No. of parameters measured per sample	8	8	0	0	4	50%	
e. Fish tissue & sediment sampling & analysis	No. of analysis conducted	2	1	0	0	1	50%	Parameters: Pb, As, Hg, Cd, Cr, Ba, Se, F
	205,800	411,600	0	132,567	0	132,567	32%	
	No. of sampling conducted	34	17	0	0	17	50%	
	No. of parameters measured per sample	7	7	0	0	4	50%	
SUB Total		1,396,932,020	430,489,456	505,402,182	418,384,213	1,354,275,852	97%	FINANCIAL ACCOMPLISHMENT

Section V. 1 Water Resource and Quality - 2022 AEPEP Accomplishment



**August 25, 2022
MMT Water Sampling**

**September 8, 2022
Regular
Internal Water
Sampling**



Section V. 2 Water Resource and Quality - 2022 AEPEP Accomplishment



June 28-July 1, 2022 EMB MIMAROPA Inspection to CBNC Hazardous Waste Area



HAZARDOUS WASTE AREA AT
PLANTSITE



LOADING OF USED OIL TO
HAULING TRUCK



TRANSPORT TO PIERSITE



LOADING OF USED OIL TO
CONTAINER VAN

Hazardous Waste- Used oil Transport/ Hauling

CAAQMS

CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM



MOA Signing at NAC Tower,
April 8, 2022



CAAQMS Shelter & Eqpt at CBNC Warehouse
Aug 1, 2022



CAAQMS Installation at RT Hangar by
BP Integrated
Aug 8-12, 2022



CAAQMS Turn over & Basic Training to CBNC, RTNMC & GPI Staffs
Aug 8-12, 2022



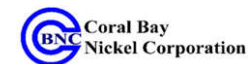
During MMT Validation, the sampling Team visited CAAQMS last Aug 25, 2022

Section VI Noise - 2022 AEPEP Accomplishment

2022 AEPEP Activities	Unit of Work Measure (UWM)	Annual Physical / Financial Target, Php	Quarterly Physical / Financial Accomplishment			Total as of this Quarter	% Accomplishment	REMARKS
	Unit Cost, Php		1stQ	2ndQ	3rdQ			
3. Noise							75%	PHYSICAL ACCOMPLISHMENT
a. Noise Monitoring Activities	No. of monitoring conducted	12	3	3	3	9	75%	Conducted Activity
	175	2,100	525	525	525	1,575	75%	
	No. of sampling stations	84	21	21	21	63	75%	
SUB Total		2,100	525	525	525	1,575	75%	FINANCIAL ACCOMPLISHMENT



Section VII Air Quality - 2022 AEPEP Accomplishment



2022 AEPEP Activities	Unit of Work Measure (UWM)	Annual Physical / Financial Target, Php	Quarterly Physical / Financial Accomplishment			Total as of this Quarter	% Accomplishment	REMARKS
	Unit Cost, Php		1stQ	2ndQ	3rdQ			
4. Air Quality							92%	PHYSICAL ACCOMPLISHMENT
a. Air Pollution Control Facilities	no. of fully operational Air Pollution Control Facilities plant	4	4	4	4	4	100%	Continuously Operated
	no. of days operational final neutralization plant	326	90	79	92	261	80%	
	1,118,327	364,574,655	126,898,204	164,135,978	145,460,634	436,494,816	120%	
b. Air Quality Monitoring- TSP/PM 10 Air Sampling (1hour), NOx and Sox (1hour), Acid Mist Inside Plantsite (1hour)	Monthly Lab. Analysis Cost	12	3	3	3	9	75%	Conducted
	5,864	70,364	16,200	10,800	16,848	43,848	62%	Conducted
	Monthly Materials/Equipment Cost	12	3	3	3	9	75%	Cleaning of equipment only.
	42,957	515,479	0	0	0	0	0%	No material cost for this quarter
	No. of sampling conducted	204	51	51	51	153	75%	17 Stations per Month
	No. of parameters measured per sample	1	1	1	1	1	100%	1 parameter per station. Some for TSP/PM10 and Acid Mist, Nox and Sox for others
c. Stack Sampling	No. of Activity	1	0	1	0	1	100%	June 20-25, 2022 by OMLI SET Team and witnessed by Engr. Erwin Lizardo EMB MIMAROPA
	1,355,415	1,355,415	0	0	870,524	870,524	64%	
	No. of sampling conducted	13	0	13	0	13	100%	
	No. of parameters measured per sample	3	0	3	0	3	100%	
d. Cylinder Gas Audit (CGA) for Continuous Emission Monitoring System (CEMS)	No. of CGA conducted	1	0	0	1	1	100%	Conducted September 14. All CEMS are accurate base on CGA. Witnessed by Engr. Mark Rogel of EMB MIMAROPA
	316,613	316,613	0	0	316,613	316,613	100%	
	No. of sampling conducted	7	0	0	7	7	100%	
	No. of parameters measured per sample	3	0	0	3	3	100%	
SUB Total		366,832,526	126,914,404	164,146,778	146,664,619	437,725,801	119%	FINANCIAL ACCOMPLISHMENT

Section VII.1 Air Quality - 2022 AEPEP Accomplishment



August 25, 2022 MMT Air Sampling



**September 14, 2022 Cylinder Gas Audit was conducted.
Witnessed by Engr. Mark Angelo Rogel of EMB MIMAROPA.
All CEMS reading are accurate base on the CGA result.**

Section VII.2 Conservation Values- 2022 AEPEP Accomplishment

2022 AEPEP Activities	Unit of Work Measure (UWM)	Annual Physical / Financial Target, Php	Quarterly Physical / Financial Accomplishment			Total as of this Quarter	% Accomplishment	REMARKS
	Unit Cost, Php		1stQ	2ndQ	3rdQ			
5. Conservation Values							133%	PHYSICAL ACCOMPLISHMENT
a. ICRMP (Partner with Bataraza LGU)	No.of project implemented	1	1	3	3	7	700%	July 13-15, 2022 ICRMP Coastal Mapping. Coastal Mgt. IEC for the CENRO OJT. Support of CBNC to MPA Summit.
		3,550,000	80,000	0	114,498	194,498	5%	
	Progress report prepared	4	1	1	1	3	75%	
b. Carbon Sink Program (Mangrove Forest Protection & Enhancement)	MOA signed	1	1	0	0	1	100%	CENRO is currently asking upodate from DENR 4B on the update of the MOA.
	40,000	40,000	0	0	0	0	0%	
c. Maintenance of Bio Indicators	No.of project implemented	1	1	1	1	1	100%	Progress Report is Prepared
		367,800	23,007	89,195	95,350	207,552	56%	
	Progress report prepared	4	1	1	1	3	75%	
d. CRA	No. of Activity	1	0	1	0	1	100%	Conducted May 23-28, 2022 (by Mr. Perez of Threesevens)
	239,940	239,940	0	62,350	0	62,350	26%	
e. Fauna	No. of Activity	1	0	1	0	1	100%	Conducted June 12-18, 2022 (by For. De Guia of Ferestereplan)
	309,441	309,441	0	202,883	26,835	229,718	74%	
f. Flora	No. of Activity	1	0	1	0	1	100%	Conducted May 30-June 4, 2022 (by For. Castillo of Foresterei)
	265,100	265,100	0	61,155	75,000	136,155	51%	
g. Coastal Resources Protection and Enhancement of Ameril and Ursula Islands	No. of Activity	4	1	1	1	3	75%	Maintenance and Labor for Boat Construction PAMB-UIGRIBS
	290,277	1,161,108	241,182	115,053	141,685	497,920	43%	
h. Piersite Nursery (Mangrove and other Trees)	No. of nursery maintained	1	1	1	1	1	100%	Continued operation of Nursery.
	18,500	74,000	0	0	0	0	0%	
i. Support to National and International Environmental Activities								
i.1 Solid Waste Month (Jan)	No. of Activity	1	1	0	0	1	100%	Conducted. January 29, 2022
	101,000	101,000	53,594	0	0	53,594	53%	Food 20,650, shirt,tarp 32,944
i.2 World Wildlife Day (Mar)	No. of Activity	1	1	0	0	1	100%	Conducted. March 12, 2022
	116,000	116,000	40,000	0	0	40,000	34%	Shirts, snacks and prizes and Tarp
i.3 Earth Hour (Mar)	No. of Activity	1	1	0	0	1	100%	Conducted. March 26, 2022
	80,000	80,000	0	3,840	0	3,840	5%	
i.4 Month of the Ocean (May)	No. of Activity	1	0	1	0	1	100%	Conducted May 14, 2022
	80,000	80,000	0	0	30,432	30,432	38%	No billing yet
i.5 Arbor Day, Shokoju Day and World Environment Day (Jun)	No. of Activity	1	0	1	0	1	100%	Conducted June 11, 2022
	80,000	80,000	0	0	307,764	307,764	385%	No billing yet
i.6 International Coastal Cleanup and World Bamboo Day (Sep)	No. of Activity	1	0	0	1	1	100%	Conducted September 27, 2022. CENRO Brooke's Point, LGU
	80,000	80,000	0	0	166,805	166,805	209%	Rio Tuba, Sitio Tagdalongon Residents and Sanguniang Kabataan of Bataraza.
SUB Total		6,544,389	334,776	445,281	748,521	1,528,578	23%	FINANCIAL ACCOMPLISHMENT

Section VII.4 Conservation Values- 2022 AEPEP Accomplishment



July 13-15, 2022 ICRMP Coastal Mapping for the 400 hectares mangrove project (carbon-zinc program)



**July 05, 2022
On-hand
Vermicomposting
Orientation to LGU
Bono-Bono**

Section VII.4 Conservation Values- 2022 AEPEP Accomplishment



August 19, 2022 – Mangrove Planting with Rio Tuba Sangguniang Kabataan



August 20, 2022 – Tree Planting with Zeta Phi Omega at TSF-3 Buffer Zone Area

Section VII.4 Conservation Values- 2022 AEPEP Accomplishment



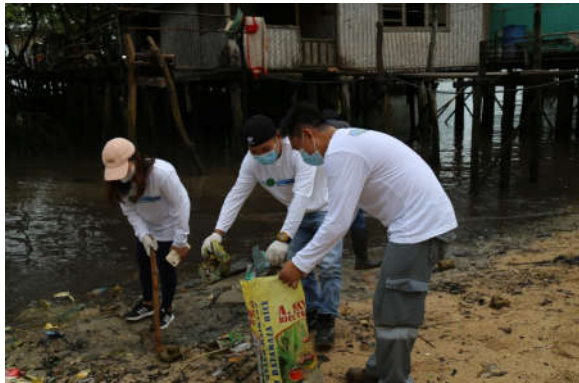
**September
13, 2022
Simultaneous Tree
Planting at PQMI
Bgy. Sta. Lourdes,
PPC, 450 trees
planted by 300
participants from
different agencies
in Palawan**

Section VII.3 Conservation Values- 2022 AEPEP Accomplishment



September 19-20, 2022 2nd Palawan MPA Summit

Section VII.3 Conservation Values- 2022 AEPEP Accomplishment



**September 27, 2022 International Coastal Clean-up Day Celebration with
CENRO BP, So. Tagdalongon Community & Fraternal Organization**

Section VII.3 Conservation Values- 2022 AEPEP Accomplishment



September 24, 2022 IEC & Tour to Most Sacred Heart of Jesus

Section VII.4 Conservation Values- 2022 AEPEP Accomplishment



Section VIII Environmental Research-2022 AEPEP Accomplishment

2022 AEPEP Activities	Unit of Work Measure (UWM)	Annual Physical / Financial Target, Php	Quarterly Physical / Financial Accomplishment			Total as of this Quarter	% Accomplishment	REMARKS
	Unit Cost, Php		1stQ	2ndQ	3rdQ			
6. Environmental Research							75%	PHYSICAL ACCOMPLISHMENT
a. Bamboo Growth Performance on Dried Tailings Soil Study	Research conducted	1	1	1	1	1	100%	Field planting conducted last January 26 - 28, 2022; Watering and Maintenance continuously conducted from planting to recent; Fertilizer application and Data gathering for culm height and counting of culms was conducted on March 28, 2022
	Progress Report submitted/prepared	4	1	1	1	3	75%	Research progress report is prepared.
b. Seagrass Enhancement	Research conducted	1	1	1	1	1	100%	On-going evaluation of the sea grass growth and survival performance.
	Progress Report submitted/prepared	4	1	1	1	3	75%	Research progress report is prepared.
c. Fish at Kinurong	Research conducted	1	1	1	1	1	100%	On going evaluation of the fish stock status.
	Progress Report submitted/prepared	4	1	1	1	3	75%	Research progress report is prepared.
d. Soil Amelioration	Research conducted	1	1	1	1	1	100%	Tailings Sample Analysis for Microbial Content
	Progress Report submitted/prepared	4	0	1	1	2	50%	Research progress report is prepared.
	Established Plots	15	0	0	0	0	0%	
	147,280	2,209,200	0	13,300	0	13,300	1%	Expenses for Soil Microbial Analysis
SUB Total		2,209,200	0	13,300	0	13,300	1%	FINANCIAL ACCOMPLISHMENT

Section VIII.1 Environmental Research-2022 AEPEP Accomplishment

GROWTH PERFORMANCE OF BAMBOO ON DRIED TAILINGS SOIL

Activities	2022			
	1QTR	2QTR	3QTR	4QTR
Site preparation and field planting				
Gathering of soil sample for analysis				
Maintenance, monitoring and data gathering				
Research Writing				
Report Submission				



Section VIII.1 Environmental Research-2022 AEPEP Accomplishment

SOIL AMELIORATION STUDY

Activities	2022			
	1QTR	2QTR	3QTR	4QTR
Planting material preparation				
Site Identification and Inspection		June 13, 2022		
Gathering of Soil sample for Microbial and pH Analysis		June 18, 2022		
Preparation and mixing of tailings soil & soil ameliorant, and monitoring of soil structure				
Report writing				

Note:

The purchase request for rental of equipment to be used in hauling tailing soil have been generated. Hauling and stocking of tailing soil will be executed once weather is favorable.

Section VIII.2 Environmental Research-2022 AEPEP Accomplishment

Seagrass Enhancement at CBNC Causeway



Based on conducted validation, it observes the high survival rate of sea grass plants. Fishes and other marine animals like bi-valves and gastropods are found in the area.

Section VIII.3 Environmental Research-2022 AEPEP Accomplishment

STUDY: Fish Stock Enhancement at Siltation Pond

Activities	2022				Remarks	Total Cost
	1st	2nd	3rd	4th		
Materials preparation	Php 26,000				Purchase requested	Php 26,000
	Php 26,000					
Fabrication and installation of fish pen					Improvement and installation of gate in the fish pen to avoid intrusion and pilferage.	
Fish stocking					Around 700 individual of tilapia weighing 250 grams to 450 grams in 4 and half months in the fish pen.	
Maintenance and feeding						
Data gathering/ Reporting						

Section VIII.4 Fish Stock Enhancement at Lower Kinurong



Improvement and installation of gate in the fish pen to avoid intrusion and pilferage.



Around 700 individual of tilapia weighing 250 grams to 450 grams in 4 and half months in the fish pen.

Section IX. Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



2022 AEPEP Activities	Unit of Work Measure (UWM)	Annual Physical / Financial Target, Php	Quarterly Physical / Financial Accomplishment			Total as of this Quarter	% Accomplishment	REMARKS
	Unit Cost, Php		1stQ	2ndQ	3rdQ			
7. Others (Administration, Compliance Management and MEPEO Operation)							73%	PHYSICAL ACCOMPLISHMENT
a.1 MEPEO Operation	MEPEO Operationalized	1	1	1	1	1	100%	Continue Operation and Management of MEPEO
	No. of months operated	12	3	3	3	9	75%	
	155,306.77	1,863,681	3,468,758	4,031,533	10,799,694	18,299,985	982%	
a.2 Office Management (inc. safety, PPE issuance, transportation, materials & Equipment for Envi. Mgt., etc.)	No. of months managed	12	3	3	3	9	75%	
	7,667	92,000	52,982	0	1,478,524	1,531,505	1665%	
a.3 Covid-19 Prevention Activities in the Workplace	No. of Activity	12	3	3	3	9	75%	CoVid-19 protocols are continuously implemented.
	3,333	40,000	0	0	0	0	0%	
a.4 Calibration of Monitoring Instruments	No. of Calibration	1	0	1	0	1	100%	Conducted April 9-10, 2022. A total of 7 instruments for air
	39,375	39,375	0	0	45,000	45,000	114%	and water sampling.
a.5 Envi. Monitoring Equipment Maintenance & Repairs	No. of maint and repair	12	3	3	3	9	75%	Note: 3Q is an adjustment because of the 2Q2022 expense
	108,692	1,304,298	162,378	1,237,724	-158,242	1,241,860	95%	adjustment.
b. Maintenance of Integrated Management System	Audit conducted	4	1	1	1	3	75%	September 20-28, 2022 2 nd Internal Audit
	156,000	623,999	3,750	91,755	54,155	149,660	24%	
c. Permitting and Compliance (Regulatory Fees, New Application, Amendment and Renewal)	Activity conducted	4	1	1	1	3	75%	Tailings Mgt. Sys. Conformance to GISTM and Activities for
	2,791,908	11,167,631	648,671	3,589,845	946,569	5,185,084	46%	ECC Amendment
d. MMT validation and sampling	MMT Monitoring Conducted	4	1	1	1	3	75%	August 22-27, 2022
	413,560	1,654,240	316,553	901,638	217,386	1,435,577	87%	MMT 2Q Inspection and Validation
e. MRFC Meeting	Meeting conducted	4	2	0	1	3	75%	March 23 - 1Q2022 MRFC Meeting
	118,400	473,600	106,990	27,066	47,968	182,024	38%	Expenses for 1Q2022 MRFC Meeting
f. EMB Monitoring/Validation	Monitoring conducted	1	0	1	0	1	100%	June 30, 2022 Conducted
	53,908	53,908	0	0	18,540	18,540	34%	Note: EMB Conducted New Monitoring to ECP's. 1H2022
g. MGB Inspections			0					was conducted last June 28-30, 2022.
g.1SHES (RO)	SHES Monitoring conducted	1	0	0	0	0	0%	June 1-3, 2022 by MGB MIMAROPA
	50,000	50,000	0	9,500	0	9,500	19%	
g.2 TSHEs/MPP (RO)	TSHEs/MPP monitoring conducted	1	1	0	0	1	100%	March 2-7, 2022 by MGB MIMAROPA
	60,000	60,000	52,358	538	6,450	59,346	99%	
g.3 Mill Tailings Fee Inspection	Inspection conducted	2	0	0	0	0	0%	For 1H2022 MGB MIMAROPA will possibly conduct on July
	5,314	10,628	0	0	0	0	0%	2022
h. PEZA Annual Inspection for PTO Renewal	Inspection conducted	1	1	0	0	1	100%	March 22-26, 2022, by MEZ
	150,000	150,000	91,250	4,800	0	96,050	64%	
i. IEC for Stake Holders, Visitors and Workers.	IEC Conducted	6	2	2	0	4	67%	Please see photo documentation
	46,333	278,000	185,160	0	126,600	311,760	112%	Includes Materials purchased for IEC presentation and AVP's for Awards Entries
SUB Total		17,861,359	5,088,851	9,894,399	13,582,643	28,565,893	160%	FINANCIAL ACCOMPLISHMENT

Section IX.1 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



SMM Executive Officer Takebayashi and team visit CBNC on July 4–5, 2022, together with PM Oishi and managers.



On July 6, 2022, completed the IEC to BLGU Rio Tuba Council for CBNC's proposed ECC amendment. The purpose of this was to discuss the planned TSF-4 with barangay authorities in order to raise their understanding of the project's goals and to get feedback from the BLGU of Rio Tuba.

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



To ensure that the TSF-2 won't fail or even result in disaster, the Geo Technical Review was conducted to look into the geomaterial qualities, manage groundwater level and flow, and environmental and hydrological interactions. Third-party experts did this on July 20, 2022. (AMH Philippines, Inc. based inside the University of the Philippines Campus in Diliman, Quezon City.)



In relation to the IEC presented to the BLGU Rio Tuba Council for the proposed TSF-4, a Site Inspection was held on July 22, 2022 in order for them to visualize and understand the project, its design and safety, as well as to verify the boundaries in the surrounding community.

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



The Typhoon – Dam Break Drill was held on July 26, 2022 in the TSF-2 area. This was to evaluate the Emergency Procedure's effectivity. The drill is conducted annually to increase awareness and preparedness of each employee and the emergency response team for the possible scenarios that may arise. Preparedness will provide information on making an evacuation plan.



IEC and Sampling with Western Palawan University (WPU) OJT's.

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



July 27, 2022 Virtual Meeting with THPAL & Stebbins_PMPIN Application Requirements by EMB

36th IMS Quarterly Meeting (2nd Quarter for 2022) was held on July 26, 2022 this is in relation to ISO where targets for both quality and environmental OTPs were being discussed to inform and give update to the management, this also helped solve issues and concerns within each department.

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



IEC & Public Hearing at Brgy. Rio Tuba. IEC on the proposed ECC Amendment for TSF-4 was held on July 28, 2022. This was conducted to inform the public on the purpose of the proposed TSF-4 and highlight the important role of the residents in decision making. And the major point to emphasize to the public was to contemplate and consider all the aspects involved—economic, health, and environment—in relation to the proposed TSF-4. This also involved questions and answers to clarify all community assumptions and to avoid misconceptions about the company, its operation, and the proposed project.

July 28, 2022
EMQCS Contractors Safety Meeting



Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



August 02, 2022 – 1H 2022 Power Share Turn-over to Brgy. Rio Tuba. Allocate 0.1 of one percent (1%) of the value of the generated electricity for the development of Brgy. Rio Tuba and its community.



August 04, 2022 – IEC to PSU Petroleum Engineering OJTs



August 04, 2022 – IEC to CENRO Brookes Point WPU OJTs

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



August 08-11, 2022 – CAAQMS Meeting, Installation and Turnover



August 08, 2022 – CEMS Online Technical Meeting

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



August 08, 2022 EMP, EMoP Orientation to Energy Auditors. Discussed the company's Program towards the Environment.



August 09, 2022 Attended Public Scoping for the Proposed Expansion of the Gotok Limestone Quarry of RTNMC

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



August 09, 2022 Tailings Management Virtual Conference



August 11, 2022 Meeting with RTNMC for Rio Tuba and RTN Townsite Water System

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



August 18, 2022 IEC & Tour with PSU Electrical Engineering OJTs



August 18-19, 2022 PAMB Activities at Ursula Island

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



**September
20-28, 2022**

**CBNC 22nd
Internal ISO
Audit**



Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



August 30, 2022 12TH Management Review

**August 22-27, 2022
MMT 2Q Inspection and
Validation**

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



September
07, 2022
WESCOM
Visitor



September 09, 2022- Plant & TSF-1 Tour to the
MEZ Assistant Zone Administrator

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



September 13,
2022 CBNC Doc
Info Controllers
Meeting



September 16, 2022 CBNC Internal Auditors Team Meeting

Section IX.2 Others (Administration, Compliance Management and MEPEO Operation)-2022 AEPEP Accomplishment



September 17-23, 2022
Ground Validation of the Stations or Locations of the Proposed Bore Holes for TSF 4



September 22, 2022
Attended the MGB MIMAROPA Technical Conference - Bore Sampling & trial Excavation for TSF-4

Section X

COMPLIANCE TO MMT FINDINGS AND RECOMMENDATIONS

Section X.1 Compliance to MMT Findings & Recommendations (August 22-27, 2022 –Validation, Inspection & Sampling)

Commitment - MMT Findings & Recommendations	Compliance Status	Area	Update as of Sep 30, 2022
Continue the good practice for new planting area, enhancement and maintenance, bamboo plantation, mangrove planting and seedlings production. Commending and suggest to continue IEC and community collaboration activities. MMT requested IEC material for bamboo plantation best practices.	Good Practice is continuously done	National Greening Program (NGP)/Mining Forest Program (MFP) Report.	Continuously done
Overall, the good implementation of programs are as planned and recommended to continue. However, MGB noticed the over expense of for MEPEO Operation.	The expense for the Manpower of MEPEO is not included in the 2022 AEPEP. There is no over expense. The 2022 AEPEP budget indicated does not include the Manpower cost.	Annual Environmental Protection and Enhancement Program (AEPEP) Accomplishment.	CBNC will include the manpower cost of MEPEO for 2023 AEPEP.

Section X.1 Compliance to MMT Findings & Recommendations (August 22-27, 2022 –Validation, Inspection & Sampling)

Commitment - MMT Findings & Recommendations	Compliance Status	Area	Update as of Sep 30, 2022
All complied and commendable.	Continue compliance to the conditions	Strategic Environmental Plan (SEP) Conditions Compliance	Continuously done
MMT member asks if the public can be given access to the MMT Sampling result. MMT members noted this and will be discussed in the MRFC Meeting. Mr. Abela brought up again that sampling is not required for MMT as per law. He suggested to lessen from quarterly to semi annual only. But this is subject for MRFC approval.	To be discussed in the MRFC meeting.	MMT Sampling	For MRFC approval.
MMT member suggested to review the turnover MOA of the projects to the Barangay. Atty. Aquino of the Provincial Envi. Office, asked MGB to write Bataraza LGU for them to take action to ensure that the SDMP project will be utilized as planned.	Review of MOA/Certificate of Turn-over is on-going.	Non-functioning Social Development and Management Programs (SDMP) Projects -	On-going

Section X.1 Compliance to MMT Findings & Recommendations (August 22-27, 2022 –Validation, Inspection & Sampling)

Commitment - MMT Findings & Recommendations	Compliance Status	Area	Update as of Sep 30, 2022
Kgd. Didik updated the MMT on the SWMP of Rio Tuba LGU. They conducted public hearing already regarding SWMP. He said that Rio Tuba has 45 Puroks, with a population of 37K. One of the output is the purchase of street sweeper and garbage truck funded by the companies but the problem of solid waste is still recurring. CBNC suggested to conduct waste characterization study so that the SWMP be improved. This matter will be discussed separately by the Barangay and Municipal Environmental Office.	For discussion with BLGU Rio Tuba on a separate meeting.	Solid Waste Management Program (SWMP) of Barangay Rio Tuba	For discussion with BLGU Rio Tuba
NAC will provide MMT and MRFC a sample of insurance policy in Surigao as basis for our MMT members. It was requested and approved by the MRFC the provision of insurance of the MMT members during validation and sampling.	NAC will provide the sample insurance.	MMT Insurance	To be discussed in the MRFC meeting.

Section XI

LATEST DRONE PHOTOS OF CBNC PROJECT

Section XI.1 TSF-1 Rehabilitation



Section XI.2 TSF-2 Operation



October 1, 2022

Section XI.3 TSF-3 Construction



Section XI.4 CBNC HPP Complex



October 1, 2022

Section XI.5 Piersite Operations



October 1, 2022



CBNC Personnel and Residents of Sitio Tagdalungon accumulates more than 50 garbage bags of waste were filled, and 2 trucks of garbage (12 cubic meters) were collected.



EMQCS together with Harvie Manpower Services, DENR-CENRO BP & SK Rio Tuba planted 100 bamboo culms

World Bamboo Day



Thank you, from CBNC EMQCS 😊