MMT COMPLIANCE MONITORING AND VALIDATION REPORT (CMVR) FORM FOR MINING INDUSTRIES

RIO TUBA NICKEL SILICATE ORE PROJECT BARANGAY RIO TUBA, BATARAZA, PALAWAN RIO TUBA NICKEL MINING CORPORATION

DATE OF COMPLIANCE MONITORIN	NG AND VALIDATION: _	July :	19-24, 2021	
MONITORING PERIOD COVERED: _	January to June 2021	_Quarter/Semester Year:	1 st Semester 2021	

I. BASIC INFORMATION

A. Nickel Silicate Ore Project.

ECC Control No./Reference Code No.	ECC-CO-1312-0043
Date ECC Issued	09 March 2015
MPSA Control No./Reference Code No.	114-98-IV
Date MPSA Issued	04 June 1998
Project Current Name	Rio Tuba Nickel Laterite Project
Project Name in the ECC	Rio Tuba Beneficiated Nickel Silicate Ore Expansion
	(Production/Extraction Output) Project
Project Status	Commercial Operation
Geographical Coordinates of the Project	X: 8°32′55″-8°37″38″
	Y: 117°26′08″-117°21′24″
Proponent Name	Rio Tuba Nickel Mining Corporation
Proponent Contact Person/Position	Engr. Rommel L. Cruz/Vice-President for Operations/Cynthia E. Rosero –
	Resident Mine Manager
Proponent Mailing Address	29 th Floor, NAC Tower, 32 nd Street, Bonifacio Global City, Taguig City
Proponent Telephone No./Fax No.	Telephone No.: 7879-601; Fax No.: 8128-826/ Contact No. +963178104686
Proponent Email Address	rommel.cruz@nickelasia.com/cynthia.rosero@rtn.nickelasia.com
MMT Contact Person/Position	Joel V. Balquiedra/Supervising Science Research Specialist
MMT Mailing Address	Mines and Geosciences Bureau, MIMAROPA Region
	1515 DENR Bldg., Roxas Blvd., Ermita, Manila
MMT Telephone No./Fax No.	+639088940858
MMT Email Address	Joel.balquiedra@mgb.gov.ph

II. EXECUTIVE SUMMARY OF COMPLIANCE

Reguirements		Complied		Remarks/ECC or EPEP Condition#
	Requirements		No	
Compliance with ECC	Validity	✓		RTNMC applied for ECC on its proposed
Conditions/				Rio Tuba Nickel Mining Project (AMA-
Commitments				IVB-144A) located at Barangays Rio
				Tuba, Ocayan and Taratak. ECC-CO-
				1906-0015 was granted to the company
				on August 22, 2019 although actual
				mining operation in the MPSA No. 114-
				98-IV-Amended I is yet to commence as
				RTNMC is still securing all necessary

			and relevant permits from other
			government agencies. Accordingly,
			actual mining operation of the
			company is still within the initial 990
			hectares under MPSA No. 114-98-IVB.
	Project coverage/limits/components	✓	Included in the ECC
	EMP and updates as deemed necessary	√	A 2010 revised EPEP was submitted to
			MGB MIMAROPA for the project.
			Updates are reflected in the submission
			of the Annual EPEP. AEPEP 2021 was approved by MGB MIMAROPA on 04
			February 2021 with COA No. 2021-02-
			MIMAROPA
	Conduct of Compliance and Impact	√	Various mitigating measures stipulated
	Self-Monitoring		in the AEPEP 2021 for impacts on air,
			water and noise are continuously being
			implemented. In-house monitoring for impacts on air, water and noise are
			regularly conducted. Samples are
			collected monthly for analysis of third
			party (DENR recognized) laboratory. All
			results of the ambient and effluent
			monitoring are within DENR standards.
			Preparation of Compliance Monitoring Report (CMR) for January to June (1st
			Semester 2021) is on-going and will be
			submitted thru online to EMB
			MIMAROPA on or before 30 July 2021.
	Regular reporting of Self-Monitoring	✓	The 1 st and 2 nd quarter SMRs were
	Results by the Project Proponent		submitted thru online to EMB
			MIMAROPA on 15 April 2021 and 15
	Other sectoral requirements mandated	✓	July 2021 respectively. Renewals of permits were secured
	by other agencies to be complied with		during the first semester. These include
	a, and against to the complete that		Mayor's Permits for RTNMC facilities
			and other permits specified in the ECC-
			CO-1312-0043 - Part III. Condition
			1,2,3,4,5,6,7,8
Compliance with EPEP	Implementation of Environmental	✓	Implementation of Environmental
Commitments	Impact Control Strategies		control measures/commitments
			included in the approved 2021 AEPEP
			are continuous. RTNMC is ISO
			14001:2015 (Environmental
			Management System) certified valid
			from 17 May 2019 to 16 May 2022.
	Safety	✓	The 2021 Annual Safety and Health
			Program for the project were approved
			by the MGB MIMAROPA Region on 16
			December 2020 with COA No. SHP -
			2021 – MIMAROPA – 05.
	Rehabilitation		Mining Rehabilitation and
			Reforestation Program is included in
			the activities of approved 2021 AEPEP.
Compliance with SDMP	Commitments	 	The 2021 Annual Social Development
			and Management Program for the
			project was approved by MGB
			MIMAROPA with COA No. ASDMP #

			2021-03-MIMAROPA (4 th). SDMP activities are continuously being implemented.
Complaints Management	Complaint receiving set-up	√	Complaint regarding mining operation, Environmental Laws, DENR Permits, SEP Clearance are included in the MMT functions
	Case investigation Implementation of control measures	√	MMT conducts investigation
	Communication with the complainant/public	√	
	Complaint documentation	√	
monitoring of the pro	d personnel are charged with the routine oject activities in terms of education, a experience of the environmental team	~	The company has a MEPEO which oversees two (2) sections - the Pollution Control Section and the Mine Rehabilitation and Reforestation Section. Both sections are composed of technically competent personnel with the inclusion of accredited Pollution Control Officers, licensed foresters and engineers.
Others, please specify			

III. PROCESS DOCUMENTATION OF ACTIVITIES UNDERTAKEN

Activities	Date Conducted	MMT Members Involved	Methodology/Other Remarks
Document Review of:			
Compliance with ECC Conditions/Commitments	19-24 July 2021		
Compliance with EPEP & SDMP Commitments	19-24 July 2021	All MMT	
Compliance with DENR Permits Conditionalities	19-24 July 2021	members. Please see signatures	Conducted during the MMT activities
Compliance with SEP Clearance Conditionalities	19-24 July 2021	below.	
Site Validation – Ocular	19-24 July 2021		
Site Validation - Confirmatory Sampling (if conducted)	1-8 March 2021 (1st quarter 2021 MMT sampling)	MMT Sampling Team	No sampling activities were conducted for the 2 nd quarter. The 3 rd quarter sampling activities were conducted on
	Resampling activities for Cr ⁶⁺ was conducted on 15 March 2021.		19-24 July 2021.

IV. COMPLIANCE MONITORING RESULTS AND DISCUSSIONS

A. Compliance to Project Location and Coverage Limits (as specified in ECC and/or EPEP)

A.1. Nickel Laterite Project

Parameter	Specification (specify if in ECC or EPEP)		thin ecs?	Remarks - Description of Actual Implementation
	(specify if it lee of LFLF)	Yes	No	Actual implementation
Project Location (indicate geographic coordinates)	X: 8°32′55″-8°37″38″ Y: 117°26′08″-117°21′24″	✓		
Project Area (ha)	5,625 hectares	✓		990 hastotal MPSA Area
Capital Costs	P3.628B	✓		
Type of Minerals	Laterite	✓		
Mining method(s)	Surface Mining	✓		
Production	Production capacity of 10.0 Million WMT of saprolite ores and 5.0 Million WMT of limonite	~		Ore Production: 2,630,323.50 WMT Milled/Processed Ore: 2,953,447.75 WMT
Mill/Processing Plant	N/A			
Mine Life	Year 2023	✓		
Mineral Reserves/ Resources	46,495,000 WMT	✓		
Access/Transportation	Private plane or ship; Land transportation	√		
Power Supply	From CBNC 22-megawatt coal-fired power plant; 75KW cat and 132 KW Olympian generator sets for Pier site	√		
Mining Equipment	Production equipment includes dump trucks, bulldozers, track excavators and loaders, wheel loaders, and drills.	✓		
Workforce	As of June 30, 2021 RTNMC has 473 regular employees	1		66.2% of RTNMC's regular employees are from the Municipality of Bataraza and 21.6% are from other municipalities within Palawan while the remaining 12.2% are from Metro Manila and other provinces.
Development/Utilization Schedule	Mine life until year 2023	✓		
Other Components				

B. Review & Validation of Proponent's Self-Monitoring Reports

B.1. Compliance to other ECC Conditions – Nickel Laterite Ore Project (ECC-CO-1312-0043) (Directions: The MMT shall check compliance of the Proponent to the conditions stipulated in the ECC.)

ECC.) Complied?			
ECC Conditions	Yes	No	Proof of Compliance/Remarks
A. This Certificate shall cover the existing and proposed Rio Tuba Beneficiated Nickel Silicate Ore Expansion (Production/Extraction Output) Project with a maximum annual extraction rate of 4.0 Million WMT of saprolite ores and 6.0 Million WMT of limonite; and annual production capacity of 3.0 Million WMT of saprolite ores and 5.0 Million WMT of limonite within the 990 hectares of MPSA-114-98-IV.	~		Ore Production: 2,630,323.50 WMT Milled/Processed Ore: 2,953,447.75 WMT
The Project shall consist of the following major components: A.1. 61-hectares Pier Stockyard; and A.2. Mining facilities and equipment (town site infrastructure, mine and plant site facilities, fuel storage, RTNMC domestic water system and other facilities).			
I. CONDITIONS			
ENVIRONMENTAL MANAGEMENT All commitments, appropriate mitigating/enhancement measures and monitoring requirements contained in the EPRMP, particularly in the Environmental Management and Monitoring Plans (EMMoPs), as approved by the EMB, shall be instituted to minimize any adverse impact of the Project to the environment throughout its implementation, including among others the following:	✓		AEPEP 2021 was approved by MGB MIMAROPA Region on February 4, 2021 with COA No. 2021-02-MIMAROPA. All activities in the submitted AEPEP are generally being implemented.
1. Observance of good vegetative practices, proper land use, sound soil and water management, and proper waste management throughout the Project implementation, which include: a. Limiting the clearing of vegetation within the planned areas to be mined and conducting revegetation/reforestation on idle land areas in the site with endemic species to provide carbon sink and restore biodiversity;	√		No newly opened areas during the period. No rehabilitation activities conducted for the 1 st semester of 2021. Maintenance activities for established rehab areas are regularly conducted.
b. Strict implementation of effective engineering measures to stabilize and control erosion of the affected side slopes of the roads and nearby gullies, creeks, rivers and settling ponds within the Project site;	✓		Slope stabilization and put-up of boulder toes at stockpiles are being practiced. Good/defined drainage systems for the open pit were established and continuously being maintained. Five siltation ponds including series of Silt Containment Sumps (SCS) were being maintained.

c. Using the recovered topsoil and overburden materials for re-soiling or as soil cover for rehabilitation of the mined-out areas, waste dumps, and other disturbed areas, as well as for landscaping of designated suitable areas. Stockpiling should be maintained at not more than three(3) meters high and stabilized by vegetation to protect it from erosion;

Overburden materials and top soils were collected and will be used as matting in the rehabilitation of mined-out areas. The materials are also being used in the maintenance of Sanitary Landfill.

d. Proper stockpiling and disposal of the overburden and waste materials generated from the mining operations, silt materials scooped-out from the settling ponds, and other solid waste in permanent, stabilized areas away from any water body and drainage systems, and maintaining them in safe and non-polluting conditions; Overburden, solid waste and other waste materials are stored, disposed and managed accordingly. A total of 178.22 metric tons of solid wastes was produced for 1st semester 2021.

Silt recovery is being practiced.

Reported a total of 38,735 cubic meters silt materials dredged from siltation ponds, SCS and canals for 1st semester 2021.

2. Implementation of an intensive and effective Information, Education and Communication (IEC) Program to inform and educate all stakeholders, particularly the local residents, about the Project, its impacts, the corresponding mitigating measures, as embodied in the EPRMP and the conditions stipulated in this Certificate for greater awareness, understanding and sustained acceptance of the Project. The proponent shall implement an annual detailed IEC program in coordination with the Mines and Geosciences Bureau (MGB) Region IVB and EMB Region IVB;

Continuous IEC activities are being conducted still with regulated number of audiences and participants in conformance with Covid-19 prevention measures. The company continuously carries-out information drive activities relative to environmental awareness.

Conducted Environmental Orientation to a total of **29** newly hired RTNMC employees and contractors; Accommodated a total of **197** visitors for 1st semester 2021.

- **1st Quarter 2021.** Covers the celebration of World Wildlife Day, International Day of Forests, World Water Day and Philippine Water Week.
- 2nd Quarter 2021. Covers the facilitation of #RTN2021MOO Virtual Pub Quiz re: ocean and marine environment thru a virtual guiz platform called Ahaslides joined by 17 participants aged 15 to 18 years old on May 29, 2021 and #RTN2021 Poster Making Contest wherein a total of 40 entries highlighting the theme for this year's celebration of Month of the Ocean were submitted, winners were announced during the World Oceans Day on June 8, 2021, conduct of tree planting activities on June 5, 2021 in celebration of World Environment Day and on June 25, 2021 (Philippine Arbor Day) which also kick started the "Adopt-a-Forest Program" of the company wherein departments/sections are assigned with a rehabilitation area for adoption for care and maintenance.

Note: The Company also utilized Social Media Platforms to provide information and/or updates re: its operations, significant activities and accomplishments. Significant updates re: Environment, Safety and Health and Social Development Projects/Programs/Activities are regularly posted. RTN stories were also published online thru Palawan News which significantly helps in disseminating information

			re: the company and its impact to the community and the environment.
3.	Implementation of climate change initiatives including reforestation (may include available areas outside the MPSA) to mitigate greenhouse gas (GHG) emissions of the Project in line with the DENR's thrust for GHG emission reduction programs. The program shall be done in coordination with CENRO having jurisdiction over the area and submitted to EMB CO sixty (60) days upon receipt of this certificate;	*	RTNMC is continuously working on minimizing its Carbon Footprint through: a. Efficient use of energy and resources; b. Progressive rehabilitation within its mined-out area with a total of 196.64 hectares; c. Establishment and maintenance of 659.27 hectares plantations through the National Greening Program; d. Continuous monitoring of GHG emissions vis-à-vis sequestration capacity
4.	The proponent shall conduct socio-economic impact study one year prior to submission of new SDMP;	✓	The Social Impact Assessment (SIA) was conducted in 2018.
5.	The Proponent shall undertake100% forest inventory of all forested portions/patches and every five (5) years thereafter, the results of which shall be submitted to the EMB;	~	The conduct of timber inventory was already completed in March 2019 and the Timber Inventory Report was already submitted and received by EMB CO, EMB MIMAROPA and MGB MIMAROPA last 16 September 2019.
6.	A Watershed Management Plan shall be prepared in coordination with the DENR Regional Units and submitted to the FMB for review and endorsed to the Office of the Undersecretary for Environment and Programs Development for approval. A status report on the implementation of the same including an inventory of each tree species shall be submitted every year thereafter.	·	The Company is setting up for the updating and revision of the initially prepared Watershed Management Plan in 2021. A copy of the existing WMP was already resubmitted to DENR MIMAROPA thru CENRO Brooke's Point and PENRO Palawan for appropriate review on 22 November 2018. Possible revision will be done in coordination with agencies concerned.
7.	The proponent shall continue to monitor the aquatic biota of all surface water resources in the area;	V	The 2021 Aquatic Resource Assessment was conducted by Gaia South Inc. on 8-12 January 2021.
GE	NERAL CONDITIONS		
8.	The mining operation shall conform with the provisions of RA 6969 (Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990), RA 8749 (Philippine Clean Air Act of 1999), RA 9003 (Ecological Solid Waste Management Act of 2000), and RA 9275 (Philippine Clean Water Act of 2004);	✓	Provisions of the applicable laws and regulations were complied.
9.	The proponent shall comply with the environmental management and protection requirements of the pertinent provisions of the Philippine Mining Act of 1995 (RA 7942 and its Consolidated Implementing Rules and Regulations (DAO 2010-21), as well as the pertinent provisions of the Memorandum of Agreement (MOA) between the EMB and MGB executed on 16 April 1998, such as, but not limited to, the following:		
	 Submission of a revised Environmental Protection and Enhancement Program (EPEP) integrating the Final Mine Rehabilitation and/or Decommissioning Plan (FMR/DP) 	✓	The revised FMRDP was submitted to MGB MIMAROPA on 17 May 2013 and was approved on August 2016. The EPEP integrating the AMA-IVB-144A and the existing MPSA 114-98-IV was submitted to MGB MIMAROPA on 11 February

		2019.
 Setting up of a Contingent Liability and Rehabilitation Fund (CLRF) and Environment Trust Fund (ETF); 	✓	CLRF and ETF are established and maintained. All mandatory fund lodgings were secured per submitted bank statement (as of 30 June 2021).
c. Maintain the Mine Environmental Protection and Enhancement Office (MEPEO) to competently handle the environment-related aspect of the Project. In addition to the monitoring requirements as prescribed under the rules and regulations of the Philippine EIS System, the MEPEO shall also monitor the actual Project impacts vis-à-vis the predicted impacts and management measures identify in the EPRMP including the regular submission of Compliance Monitoring Report (CMR) in accordance with the prescribed format;	✓	EnP Janice M. Tupas is the designated MEPEO of RTNMC. The company has accredited Pollution Control Officers and trained Environmental Assistants under the Pollution Control Section and registered Forester in the Mine Rehabilitation and Reforestation Section.
 d. Continuance of a Mine Rehabilitation Fund Committee (MRFC) and a Multipartite Monitoring Team (MMT). A local DOH representative shall be included as member in the MMT; 	1	Recent MMT Validation 4 th Quarter: 01 – 08 March 2021 1 st and 2 nd Quarter: 19-24 July 2021 Recent MRFC Meeting via zoom – 25 March 2021 There are fifteen (15) MMT members being maintained including a representative from DOH and religious sector.
e. Submission of a Social Development and Management Program (SDMP) to the MGB Region IVB for approval, prior to Project implementation. The EMB shall be furnished with the SDMP within thirty (30) days from its approval;	~	The 2021 Annual SDMP was approved by MGB MIMAROPA with COA No. ASDMP # 2021-03-MIMAROPA (4 th).
f. Continuance of a Community Relations Officer (CRO);	✓	Mr. Reynaldo M. Dela Rosa is the Community Relations Officer (CRO).
10. The proponent shall ensure that its contractors and subcontractors properly comply with the relevant conditions of this Certificate;	✓	Complied and maintained.
11. The proponent shall protect the headwaters and natural springs/wells within the Project site that are being utilized as sources of potable water by the community. Should the development activities affect the headwaters and natural springs/wells, the proponent shall immediately provide alternative sources of potable water to the affected community. II. RESTRICTIONS	*	Complied and maintained.
12. Open pit or surface mining method, without	✓	Complied and maintained.
blasting, shall be utilized in ore extraction;		
13. Transfer of ownership of the project carries the same conditions and restrictions for which written notification must be made by herein grantee to EMB within fifteen (15) days from such transfer.	✓	No transfer of ownership yet.

III. OTHER REGULATORY REQUIREMENTS		
Compliance with the Sanitation Code of the Philippines	✓	Certificate of Potability for drinking water supply is annually secured and renewed. Certificate issued by the Municipal Health Office (MHO) on 22 December 2020 and is valid for one (1) year.
2. Compliance with the Labor Code of the Philippines	√	Complied and maintained.
3. Compliance with the Building Code of the Philippines	√	Building Permits were secured and valid.
Provision of proper storm drainage canal, concrete culverts, and other flood control measures to adequately receiving bodies of water	V	Storm drainage canal, concrete culverts, and other flood control measures are generally well-maintained. Five (5) silt containment ponds and sixteen (16) active silt collector sumps in place. Discharge Station was concreted and improved.
Securing of water permit for the allocation of water supply	√	NWRB Water Permit No. 159 was issued on 16 June 1975. Annual payment of dues is facilitated regularly.
6. Implementation of a detailed Traffic Management Plan	V	Traffic Management at main haulage road is handled by LGU Rio Tuba and assisted by the Admin and Safety Office specifically the Safety and Security at Macadam Road. RTNMC is also providing logistics for the Traffic Management Program. RTNMC and CBNC worked on expansion and improvement of haulage road by concreting all 4 lanes of Macadam Road.
7. Implementation of Solid Waste Management System	*	Waste segregation, recycling and retrieval within the RTNMC Mine Site are being managed by RTNMC. The Operation of Sanitary Landfill is also being managed by the Company in coordination with the CBNC. Materials Recovery Facility was also established and an Integrated Waste Management Program for RTNMC controlled areas is in practice.
8. Securing of tree cutting permit	√	A Special Tree Cutting and Earth-balling Permit (STCEP) was issued by DENR on 3 May 2021 with certificate No. RIVB-15-2021 for its Umawi operation.
IV. ENVIRONMENTAL PLANNING RECOMMENDATIONS FOR THE PROPONENT		
9. Priority of employment be given to qualified local residents. Adequate public information for jobs available to local residents in the affected areas needs to be provided.	✓	Complied. As of 30 June 2021, 66.2% of RTNMC's regular employees are from the Municipality of Bataraza and 21.6% are from other municipalities within Palawan while the remaining 12.2% are from Metro Manila and other provinces.
10. An independent third party auditor be commissioned to undertake an environmental audit, including a continuing study on the effects of the Project on the health of the workers and affected residents, particularly women and children. The result of the third party environmental audit, including the auditing of risks and hazards of the Project, shall be submitted to EMB and the MGB, while the result of the continuing health study shall be submitted, every	✓	The Environmental Audit was conducted by the Gaia South, Inc. last 12-15 September 2019. Per presented document (receiving copy), hard copy of the report was already submitted and received by MGB on 3 March 2021. Copy of which was also submitted to EMB. The Environmental Health Impact Assessment (EHIA) on the other hand was conducted on 22-27 October 2019.

two (2) years, to the Department of Health (DOH).		

B.2. Compliance to Impact Management Commitments in EIA Report & EPEP

Directions: The MMT shall check compliance of the Proponent to the commitments made in the EMP.

Project		Mitigating Measures/Con	ntrol Strategies	Effective			
Impacts		Planned	Field Findings and Observations	Yes	No	Recommendation	
Mining	1. LAND	RESOURCES	Observations				
Operation	1.1 Back Min To b cu.m	kfilling & Reshaping of ned-out Areas Dackfill and reshape 20,000 m. with an annual budget HP1,525,000.00 at P16, P7	RTNMC reportedly spent PHP 1,408,000.00 (92% of budget) but no physical accomplishment??		Х	Adhere to the planned schedule of activities.	
	1.2 Reve Area To r proj	egetation of Mined-out	RTNMC reportedly spent PHP 6,227,580.00 (37% of budget) at the Eco-tourism area, which corresponds to only 4% of the physical target.		Х	Accelerate this activity to catch up with the plan for CY 2021.	
	of rom MPS To hect with	intenance/Enhancement rehabilitated areas within SA maintain/enhance 196.44 tares of rehabilitated areas nin MPSA with an annual lget of PHP3,078,000.00	RTNMC was able to maintain/enhance 62 hectares of rehabilitated areas which is equivalent to 32% of its target. RTNMC spent PHP1, 114,130.00 (36% of the budget).		Х	Accelerate this activity to catch up with the plan for CY 2021.	
	outs Plan To outs anno	reforest 55.3 hectares side of MPSA with an	RTNMC reportedly spent PHP553, 610.00 (29% of the budget) but with no physical accomplishment??		х	Accelerate this activity to catch up with the plan for CY 2021.	
	of Refo To hect and area	maintain/enhance 53 tares of coffee plantation 562.83 hectares of NGP as with an annual budget HP1, 758,000.00.	RTNMC was able to maintain/enhance 53 hectares (100% of the target) of coffee plantation and 210 hectares (37% of the target) of NGP areas and reportedly spent a total of PHP343,740.00 (20% of the budget)		х	Accelerate this activity to catch up with the plan for CY 2021.	
		sery Operation: In-house dling production	No clonal project was established (0% of the target) but produced 168		Х	Accelerate this activity to catch up with the plan for CY 2021.	

Project	Mitigating Measures/Co	ntrol Strategies	Effec	tive		
Impacts	Planned	Field Findings and	Yes	No	Recommendation	
illipacts	Planned	Observations				
	To establish 1 clonal project at	cloned seedlings (7% of				
	the Central Nursery to	the target). RTNMC spent PHP162,000.00 (6% of the				
	produce 2,500 cloned	budget)				
	seedlings with an annual	233801)				
	budget of PHP2,901,000.00	BTM 40			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	1.7 Nursery Operation: Out-	RTNMC was only able to outsource 2,445 seedlings		Х	Accelerate this activity to catch up with the plan for CY	
	sourced seedling production	(1% of the target) but			2021.	
	To outsource 200,000 seedlings with an annual	already spent				
	budget of PHP2, 600,000.00.	PHP1,040,000.00 (40% of				
	, ,	the budget)				
	1.8 Nursery Operation: Organic	RTNMC was able to	✓		Continue to conduct the	
	Fertilizer Production	conduct 1 organic fertilizer			organic fertilizer production	
	To conduct 2 organic fertilizer	production project (50% of the target) for PHP370,			projects.	
	production projects with an annual budget of	100.00 (76% of the budget.				
	annual budget of PHP490,000.00	, o				
	1.9 Establishment &	No new area was		х	Accelerate this activity to	
	Maintenance of Stockpile &	established (0% of the			catch up with the plan for CY	
	Slope Greening	target) but 5 hectares			2021.	
	To establish 3 hectares of new	were maintained for PHP866,620.00 (66% of the				
	and maintain 10 hectares of	budget).				
	the stockpile and slope greening for an annual budget	budget).				
	of PHP1,304,000.00.					
	1.10 Repair and Maintenance of	RTNMC already spent		Х	Accelerate this activity to	
	envi-structures view decks,	PHP356,280.00 (158% of			catch up with the plan for CY	
	parks, nurseries, road	the budget) but only			2021.	
	maintenance)	accomplish 25% of the target.				
	To repair and maintain 1 envi-					
	structure for an annual					
	budget of PHP225,000.00.					
	2. WATER RESOURCE AND QUALITY		ı			
	2.1 Maintenance of Siltation	RTNMC was able to maintain 2 projects but		X	Accelerate this activity to catch up with the plan for CY	
	Ponds/Silt Collector Sumps	has only dredged 53,430			2021.	
	To maintain 2 siltation	cu.m. (26% of the target)				
	ponds/silt collector sumps	at a cost of				
	and dredge 203,000 cu.m. of silt materials with an annual	PHP3,175,000.00 (20% of				
	budget of PHP15,830,000.00.	the budget).				
	2.2 Maintenance of Canals	No accomplishment (0% of		Х	Accelerate this activity to	
	To maintain 13,000 linear	the target) but reported			catch up with the plan for CY	
	meters of drainage system	spent PHP44,280.00 (3% of the budget.			2021.	
	with an annual budget of	the budget.				
	PHP1,317,000.00.	14 MANTE /1000/ -f ±1	√		Cankings to someth	
	2.3 Waste Water Treatment Facility (WWTF) operation	14 WWTF (100% of the target) with a cost only	*		Continue to practice proper	
	and maintenance	PHP253,490.00 (32% of the			wastes water treatment and management.	
	To maintain and operate 14	budget)			management.	
	WWTF with an annual budget					
	of PHP788,000.00.					
	2.4 Solid Waste Management	RTNMC was able to recycle	√		Continue the proper solid	

Project	Mitigating Measures/Co	ntrol Strategies	Effective		
Impacts	Planned	Field Findings and	Yes No	Recommendation	
pacts		Observations			
	To recycle 50% of solid waste produced with an annual	84% (168% of the target) of solid wastes produced		waste management.	
	budget of PHP1,907,000.00	with a cost of only			
	, ,	PHP937,710.00 (49% of			
		the budget).			
	2.5 Hazardous Waste	RTNMC was able to treat 71% (100% of the target)	 	Continue the proper hazardous wastes treatment	
	Management	of hazardous wastes		and handling.	
	To treat 70% of hazardous waste products with an	produced at a cost of only			
	annual budget of	PHP188,600.00 (43% of the			
	PHP436,000.00.	budget).			
	2.6 Water Quality Monitoring	RTNMC was able to	✓	Continue the water quality	
	To conduct 12 effluent	conduct 6 effluent, 4 potability sampling, and 1		monitoring.	
	sampling and 4 potability sampling with an annual	Aquatic resource			
	budget of PHP3,295,000.00 in	assessment with a cost of			
	1 project area.	only PHP970,870.00 (29%			
		of the budget).			
	2.7 Repair and Maintenance of	No accomplishment for this activity.	X	Adhere to the planned schedule of activities.	
	Environmental Structures	this activity.		scriedule of activities.	
	(Settling ponds, Dikes, Canals) To conduct 1 repair and				
	maintenance of envi-structure				
	with an annual budget of				
	PHP1,335,000.00.				
	3. NOISE AND VIBRATION	l			
	3.1 Noise and Vibration Level Monitoring	RTNMC was able to conduct 6 (50% of the	√	Continue to conduct noise and vibration level	
	To conduct 12 noise and	target) monitoring with a		monitoring.	
	vibration monitoring with an	cost of only			
	annual budget of	PHP534,200.00 (36% of the budget).			
	PHP1,493,000.00.	the budget).			
	4. AIR QUALITY			Continue the meet watering	
	4.1 Dust Control-Road Watering	RTNMC was able to conduct 8 km (57% of the	•	as a dust control measure.	
	To conduct 14 km of road watering with an annual	target) of dust control		as a dast control measure.	
	budget of PHP1,444,000.00	road watering for			
		PHP1,262,370.00 (87% of			
	4.2 Dust Control-Street Sweeping	the budget). RTNMC was able to	✓	Continue the street	
	To conduct 7 km of street	conduct 7 km of street		sweeping activity as a dust	
	sweeping with an annual	sweeping at a cost of		control measure	
	budget of PHP3,891,000.00.	PHP2,177,760.00 (56% of the budget).			
	4.3 Air Quality Monitoring	RTNMC was able to	√	Continue the regular air	
	To conduct 12 air sampling	conduct 6 air sampling		quality monitoring.	
	and 12 CO2 monitoring with	(50% of the target) and 6			
	an annual budget of	CO2 monitoring (50% of the target) for only			
	PHP2,909,000.00	PHP276,650.00 (10% of			
		the budget)			
	5. CONSERVATION VALUES				
1	5.1 Environmental Awareness	RTNMC was able to reach	✓	Continue to spread	

Project	Mitigating Measures/Control Strategies					
Impacts		Planned	Field Findings and Observations	Yes	No	Recommendation
		To reach 500 individuals with an annual budget of PHP697,000.00.	355 (71% of the target) for only PHP37,000.00 (37% of the budget.			environmental awareness.
	5.2	To conduct 1 coral reef- related activity (Continuation of coral gardening) with an annual budget of PHP59,000.00.	No accomplishment but already spent PHP8,000.00 (14% of the budget)		х	Adhere to the planned schedule of activities.
	5.3	To conduct 4 biodiversity conservation projects (Arboretum, Ursula, BAP & WMP) with an annual budget of PHP2,154,000.00	Was able to conduct two 2 biodiversity conservation projects (50% of the target) for only PHP32,810.00 (2% of the budget)	~		Continue to conduct biodiversity projects.
	5.4	Mangrove Rehabilitation To rehabilitate 42 hectares of mangrove area with an annual budget of PHP512,000.00	RTNMC was able to rehabilitate 22 hectares (52%) of mangrove area for only PHP107,730.00 (21% of the budget)	→		Continue to rehabilitate mangrove areas.
	6.	ENVIRONMENTAL RESEARCH				
	6.1	To conduct 1 study with an annual budget of PHP700,000.00.	No accomplishment (0% of the target) but already spent PHP200,000.00 (29% of the budget).		Х	Accelerate this activity to catch up with the plan for CY 2021.
	7.	OTHERS (E.G. TRAINING/WORKS	HOPS/ CONFERENCES/LINKAG	IRFC ETC.)		
	7.1	MMT Validation & Inspection; MRFC Meetings To conduct 8 MMT and MRFC activities with an annual budget of PHP2,388,000.00	Only 2 MMT and MRFC activities (25% of the target) were conducted due to the restriction brought by the COVID-19 pandemic. RTNMC spent PHP203,810.00 (9% of the budget) for these activities.		х	Conduct the remaining MMT and MRFC activities for CY 2021
	7.2	Other Inspection Audits; Training and Linkages To conduct 8 inspection audits, training, and linkages with an annual budget of PHP3,803,000.00	Only 2 inspections audits/training and linkages (25% of the target) was conducted for PHP739,040.00 (19% of the budget)	\		Conduct the remaining Inspection Audits; Training and Linkages
	7.3	General Monitoring		√		Continue the conduct of MPP validation
	8.	OTHER FINDINGS, OBSERVATION	S AND RECOMMENDATIONS			
	8.1					

REHABILITATION

MINING FOREST PROGRAM (MFP) **Validation Report**

(JANUARY 2021 TO JUNE 2021)

MPSA-114-98-IVB

NAME OF COMPANY I. : Rio Tuba Nickel Mining Corporation : Rio Tuba, Bataraza, Palawan Location

> : 1998 Year MFP was Initiated

ACCOMPLISHMENTS: II.

A. DEVELOPMENT PLANS: /__/ /√/ Annual Plan Long-Range Plan (Attach photocopy(ies) **NURSERY OPERATIONS:** Joint Venture /__/ Acquired from Other Sources /<u>v</u>_/ Own Nursery

Name of Nursery	Area (m²)	Capacity (No. of Seedlings Produced)*		
RTN Central Nursery (EEI area)	10,000	200,000 - 250,000		
Mangingidong Satellite Nursery (MP-O17)	10,000	200,000 - 250,000		

^{*}At least 1-ft plantable size

Seedling Inventory for the 1st Semester 2021

No	No. of Seedlings Out-Planted/Disposal							Balance in
Previous Stock	Produced	Total	Planted	Replanted	Enrichment	Donation	Mortality	Stock
203,581	2,445	206,028	750ª	2,942	14,338 ^b	1,250	4,260	182,490

aNote: Planted grass at P-17 (Slope)

^bNote: The breakdown of the enrichment activities are as follows: Grasses/vines at slope areas and landscaping activities (4,731); Forest/Fruit Trees at Rehabilitated Areas (8,727); Forest trees at Reforestation Areas-Outside MPSA (880)

C. EXTENT OF PLANTED AREAS (ha)	NGP	REHAB	TOTAL
Total Area Planted to Date	: 659.27has	196.64 has	855.91has
Previous Plantations	: 659.27has	196.64 has	855.91has
New Plantations or Expansions	: 0 has	0 has	0 has
(Attach a reforestation map of scale 1:25,000 sh	owing distinctly the	previous plantations	s from the new plantations or
expansions.			

NGP Accomplishment:

Year	Reforestation Establishment (ha.)	Donation (ha.) (No. Seedlings donated/500= No. of Hectares)	Total
2011			No available data
2012	216.6		216.6
2013	346.23		346.23
2016-2018	53.00		53.00
2018-2019	43.44		43.44
	Grand Tota	1	659.27

Note: NGP for mine sector is only from 2011-2013 based on MGB Memorandum Order 2012-01.

Donated seedlings under NGP

Donated seedlings under NGP							
Year	No. of Seedlings	Remarks					
2014	55,500						
2015	1,180						
2016	15,789						
2017	1,060						
2018	4,253						
2019	13,213						
2020	10,648						
2021 (1 st Semester)	1,250	Donated to MENRO-Bataraza and Private individuals					
TOTAL	102,893						

D. DISTURBED AREAS (ha)

1. Areas directly affected by the operations

(Itemize all areas in a separate sheet.)

Particulars	Area (has)
1. Inactive Tenement Area/s (Untouched)	3,355.41
2. Rehabilitated/Reforested as of December 31, 2019	196.64
3. Active Tenement Area/s	66.83
4. Ancillary (including CBNC and UMPI)	919.56
Total	4,538.44

2. Environmental Incidence Resulting to Damages

	Yes	Area Affected (ha)	No
a. Tailing's dam failure			Х
b. Waste dump failure			х
c. Shrinkage/subsidence			х
d. Induced slides			х
e. Others (specify)			Х
Total			

(Note: Exclude areas that were previously rehabilitated.)

E. MAINTENANCE AND PROTECTION

1. Plantation Activities

		Plantation Category								
		New								
	Old		Recent			Latest		Total		
	(<jj18)< td=""><td>JD18-JJ19</td><td>JD19-JJ20</td><td>Sub-Total</td><td>JD20</td><td>JJ21</td><td>Sub-Total</td><td></td></jj18)<>	JD18-JJ19	JD19-JJ20	Sub-Total	JD20	JJ21	Sub-Total			
No. of seedlings planted	1,124,297	111,907	73,011	1,309,215	100,144	9,541 ^e	109,685	1,418,900		
No. of sdlngs/ trees re- planted	184,133	4,681	4,951	193,765	3,913	2,942	6,855	200,620		
No. of surviving trees	940,164	107,226	68,060	1,115,450	96,231	6,599	102,830	1,218,280		
Survival rate	84.52%	95.58%	93.01%	85.82%	95.86%	74.08%	95.53%	86.37%		

^eNote: The figure reflected herein refers to enrichment planting and not new plantation. Out of 9,541 seedlings, 814 are fostered trees by RTN employees in relation to the Foster-A-Tree, Make-A-Legacy Program of the Company.

(Note: For old plantation, consider four (4)-year old growth and above.

For recent plantation, consider one (1)-year to three (3)-year old growth.

For latest plantation, consider those for the periods July-Dec. of the previous year and/or Jan.-June of the current year.

2. No. of Persons Involved

- a) No. of Company Forester: One (1)
- b) No. of Forestry Technician: Two (2)
- c) No. of DENRO: Four (4)
- d) No. of rehabilitation/reforestation helper: 21 (16 Males; 5 Females)
- e) No. of local residents involved (community involvement): 30 personnel (Consisting of the following contractors: Jedith Seedling Grower and Trading by Ms. Jedith T. Paalan, Rio Tuba Mangrove Ecosystem Developers Inc. by Ms. Haula D. Acob)
- f) Mine operation for backfilling & land preparation

3. Maintenance and Protection

Maintenance and Protection (Rehabilitation Areas)	Yes	No	Coverage (ha)
Control of forest fires by establishment and construction of fireline/firebreaks/fire towers		٧	
Brushing/weeding/mulching/pruning (MP-P16, M15, GP- J24, H20, H21)	٧		25.1
Fertilizer/lime/pesticide/chemical application (GP-J24, MP-P16, M15, GP-H20, H21 Slope Greening Area)	٧		23.8
Water spraying at Rehab areas (GP-J24, K-24, I-23, GP-4, MP-P16, M15)	٧		27.4
Control of forest pests and diseases		٧	No indication of pests & diseases
Patrol work (all rehabilitation areas)	٧		196.64
Forest law enforcement (all rehabilitation areas)	٧		196.64
Others (Soil Amelioration, MP-M15)	٧		0.2

Maintenance and Protection (Reforestation Areas)	Yes	No	Coverage (ha)
Control of forest fires by establishment and construction of fireline/firebreaks/fire towers	٧		Maintenance of fire line at So. Tagpisa Coffee Plantation
Brushing/weeding/mulching/pruning (Coffee Plantation, Fuelwood)	٧		63.0
Fertilizer/lime/pesticide/chemical application (Coffee Plantation, Fuelwood)	٧		63.0
Water spraying (Coffee Plantations)	٧		53.0
Control of forest pests and diseases		٧	No indication of pests & diseases
Patrol work (all reforestation areas)	٧		659.27
Forest law enforcement (all reforestation areas)	٧		659.27

F. OTHER ENVIRONMENTAL FACTORS

1. Species Diversity

Tree Species	Spacing (m x m)	Tree Species	Spacing (m x m)		
Narra		Kalumpang			
Ipil		Malakatmon			
Amugis		Palawan Apitong			
Malakatmon	Pioneer Species	Bignay			
Batino	2m x 2m	Sampalok			
Kupang		Bitaog			
Tongkat Ali		Bolong eta			
Palawan Agoho		Palomaria			
Bamboo		Paringring			
Badak		Marangob			
Marang		Pal. Mancono	For replacement/ enrichment		
Rambutan		Putian/Amayan	(2mx2m)		
Bignay		Arupag	(=:::::,		
Kalamansi	2.5m x 2.5m	Manglas			
Durian	2.3111 x 2.3111	Duhat			
Langka		Makopa			
Lanzones		Kurisom			
Kastanyas		Bunog			
Guava		Pamitoyen			
Bamboo	For replacement/	Ipil			
Udling	enrichment (2mx2m)	Amugis			
Grass Species/Vines/Shrubs/C	rnamental (slope and stoc	kpile greening, cover plants, Land	dscaping)		
Grass Species	Spacing (ft x ft)	Grass Species	Spacing (ft x ft)		
Langkawas		Pandan			
Tikog-Tikog	1.0 x 1.0	Fern Species	1.0 x 1.0		
Tea Plant		Batbat			

2. Research/Studies on reforestation conducted:

Is there any research/study on reforestation conducted?

 $/_/$ (Attach copy(ies).) $/\sqrt{}$ None

Only maintenance and continuous monitoring of the growth and survival of species planted at the Demo plot.

3. IEC on reforestation:

Are there any IEC activities (in the form of publication, public dissemination, lectures, etc.) initiated for the Community? Yes

(Attach photocopy/ies of publication and other IEC papers.)

• IEC in the form of interactive discussions and mine tour around the mine site, rehabilitation, and reforestation areas are continuously done to RTN employees, various local and international interested parties visiting the site. For the period, the Department had recorded 259 individuals that visited in the Company's mine rehabilitation and reforestation areas, including Sec. Harry Roque & Party, SIBOL Representatives, Provincial and Municipal Assessor's Office, and GAIA South, Inc. Table below shows the list of visitors for the period:

Date of Visit	Visitors	Number of Visitors
1/8/2021	GAIA South, Inc	6
1/22/2021	Sec. Harry Roque and Party	53
1/30/2021	Contractor (Tagala)	6
2/10/2021	Provincial Assessor's Office	13
3/17/2021	SIBOL TEAM	3
3/19/2021	RTN Employees (Women's Day and Environment Celebration)	78
3/23/2021	VIRLO (Contractor)	9
3/25/2021	IMI	2
3/27/2021	VIRLO (Contractor)	2
4/6/2021	CIVIC	5
4/7/2021	Newly hired employees	5
6/5/2021	RTN Employees (World Environment Day)	30
6/25/2021	RTN Employees (Philippine Arbor Day)	47
	TOTAL	259

4. Services to the Community

Is there any reforestation assistance extended by the Company to the Community during the period under review? Yes

• Community-based Reforestation Program:

Objective: The reforestation program seeks to empower local communities through getting involved in the reforestation activities by using their indigenous knowledge in identification and selection of local plants to ensure endemicity, planting activity, care and protection activities of the plantations.

Target: The program prioritizes the services of the local community especially the IP groups through a contract and project-based system for the principal activities of the rehabilitation from seedlings production to care and maintenance activities of the plantations.

Status: The Company tapped the services of two (2) local plant producers for the propagation of planting materials to be used in rehabilitation and reforestation activities; for enrichment activities of the previously rehabilitated areas; and for greening of slopes and stockpiles. Moreover, the Company solely and directly employs IPs, in which 20-30% is women, through project-based system for the site preparation, planting, landscaping of the mined-out rehabilitation areas and the development of aqua-agro-forestry farm.

• "Foster-A-Tree, Make-A-Legacy":

Objective: To involve all RTN stakeholders in the seedling nurturing activity by rearing indigenous and/or local fruit and forest tree species.

Target: Each employee has to rear and donate the following numbers of fruit and forest tree seedlings: minimum of 20 seedlings for RTN regular employee; minimum of 10 seedlings for RTN non-regular employee; and minimum of 5 seedlings for every employee of RTN stakeholders (i.e., contractors). The seedlings will be planted in mined-out rehabilitation areas and other sparsely vegetated areas within Bataraza, in partnership with Local Government Unit.

Status: The planting of fostered seedlings commenced on the 25th of June in celebration of Philippine Arbor Day wherein 814 nurtured seedlings were planted/enriched in Mangingidong rehabilitation area, particularly in Blocks M15, M16 and O15.

• "Adopt-A-Forest Project":

Objective: The program aims to increase awareness and encourage everyone's moral responsibility to nature through actual involvement in the rehabilitation activities of the Company.

Target: Each Department/Office of RTN has adopted rehabilitated area for them to care and maintain. The care and maintenance activities include enrichment planting, watering, fertilizer application, and soil cultivation and amelioration.

Status: The launching of the program was conducted on June 25, 2021 in celebration of Philippine Arbor Day and complement with the "Foster-A-Tree, Make-A-Legacy" through enrichment planting of 814 various forest and fruit tree species.

• Seedlings Donation

Objective: To provide support in the greening program of different government agencies/offices, NGO's, schools/academes, and various groups through seedlings donations.

Target: RTN will continue to donate seedlings as support to the greening program particularly in the Province of Palawan. Seedling donations, however, will be extended nationwide, if needed and possible.

Status: From CY 2014 to date, a total of 102,893 various seedlings were donated to government agencies/offices, NGO's, schools/academes, and various groups and entities all over the Province. Moreover, 1,100 local forest (i.e., Agoho, Mancono, Kupang) trees were donated to MENRO-Bataraza and used in the tree planting activity during the 57th Founding Anniversary of Bataraza last January 2021.

• Coffee Plantation:

Objective: Create an ecologically and economically sustainable agriculture industry through establishment of community-based Liberica Coffee Plantation.

Target: To provide livelihood opportunities to stakeholders by turning-over the management of plantation to organized cooperative whose members are locals of Rio Tuba.

Status: Currently, the 53.0 hectares of coffee plantation located at Sitios of Racob and Tagpisa, Ocayan, Bataraza, Palawan is being managed and maintained by the Company. Care and protection activities are regularly performed to ensure the survival and production of the plantation. About 12% percent of coffee trees have bear fruit this season that resulted to a harvest of 3.8 tons coffee cherries or 68% increase of production compared to 2.253 tons production last year. Yield is expected to increase in the subsequent years due to higher percentage of coffee trees that will be matured and eventually bear fruits.

• Edible Landscaping Contest:

Objective: The contest aims productivity of idle areas and promote conservation by planting local and native fruit-bearing and forest tree species; help improve the ecosystem by creating habitats for faunal species especially avifauna and pollinators; and foster a creative community in which people can contribute their skills and share knowledge/ideas.

Target: This year's version of Edible Landscaping Contest is Bataraza-wide that will feature community gardening in each barangay. Primary crops that will be planted in the garden are perennial crops such as fruit and forest trees at minimum of 250 seedlings per entry.

Status: The contest was launched last May 2021 via Facebook and registration will run until the 15th of July 2021.

• Mangrove Project:

Objective: The Mangrove Protection and Maintenance Project of RTNMC aims to engage the community (PO's) concerning protection and conservation of mangrove ecosystem and also to have an alternative source of income by propagating and planting mangrove species diverting from their previous charcoal making and trading activities.

Target: The Company will continuously care and maintain the 43.44 hectares of mangrove area located at So. Bongkol-Bongkol (11 has), So. Kinurong (10 has), So. Bukid-Bukid (21 has) and Igang-Igang (1.44 has) by replanting, enrichment and patrolling.

Rio Tuba Nickel Silicate Ore Project 1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

Status: Re-planted 2,600 of mangrove seedlings in So. Bukid-Bukid area last January 2021. The MMT members also conducted a visit in the mangrove plantation during the 4th Quarter MMT Validation last March 2021.

• Bamboo Plantation

Objective: To establish bamboo plantation in compliance with EO 879.

Target: The Company committed to establish 55.3 hectares bamboo plantation in So.Tagpisa.

Status: A composite of 12.0 hectares bamboo plantation located within and outside tenement area has already established as part of rehabilitation and reforestation activities. Further, the delineation of 55.3 hectares proposed plantation was completed as reflected in Attachment 2.

5.	Other	Conservation	Measures
J.	Othici	CONSCI VALION	IVICUSUICS

b. STP sludge – ≈1.0 cubic meter

Yes <u>v</u>	_ Area _	a. _ has.	Landscaping of mine and/or plant site surroundings? No _
	ital flow	ers (i.e	re conducted in Piersite by planting 880 Udling seedlings, Macadam Roadside by planting various e., Pandakaki, Baho-Baho), Tanawan Area by creating a selfie area and gardens (Puso ng Mina, Blue
		b.	Use of vines and grasses for planting/rehabilitation?
Yes <u>√</u>	Area _	has.	No _
			f 5,531 grass and shrubs species (e.i. Ferns, Banana Sucker, <i>Langkawas, Tikog-Tikog</i>) in rehabilitated in Mangingidong rehabilitation area particularly in Blocks M15, N15, P16 and P17.
Yes <u>√</u>	Area: <u>G</u>	c. <u>SP-4</u>	Re-Establishment of Clonal Nursery? No
cuttings However	of diffe , only 20 auch as l	erent t 0 % or ack of	ru cuttings of native tree species with no available source of seeds/seedlings. For the period, 840 tree species (Doro, Bakawang Gubat, Palawan Dita, Kahoy Dalaga, Ironwood) were produced 168 seedlings (Palawan Dita, Kahoy Dalaga and Ironwood) are showing a high probability to survive. technical knowledge and skills in the technology and no suitable equipment are believed to be the y.
Yes <u>v</u>	_ Area:	d. 1.5 ha	Establishment of Drip Irrigation System? <u>IS.</u> No
Yes <u>√</u> Ar	ea: 1.0 h	e. <u>ıa</u>	Establishment of Demo Plot? No
			ce Elements Accumulating Metallophytes (TEAM) research is continuously being maintained by cripping, and weeding activities.
Yes <u>√</u>	No _	f.	Trainings Attended on Rehabilitation/Reforestation?
			 Forestry Technicians of MRRS attended the Learning Event on the Establishments of Bamboo Plantation in Mining Areas Webinar on March 11-12, 2021. JBC attended the Bamboo Treatment Furniture Webinar on June 29, 2021.
Yes <u>√</u>	No _	g.	Application of fertilizers?
RTN utiliz			ng natural soil conditioner to augment the quality of soil in its mined-out rehabilitation areas: 1 sacks

Rio Tuba Nickel Silicate Ore Project 1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

- c. Vermi compost 0.82 tonsd. Humus 40 sacks
- e. Coco Peat 35 sacks

h. Development/production of coconet for slope stabilization

Yes <u>v</u> No _

The Company is currently establishing a Coconet Production Facility with an initial capacity to produce at least 500 rolls of 1×10 -meter Coconet which will be utilized for slope stabilization and erosion control. This development is also to capacitate the company in preparation for the final decommissioning and rehabilitation of areas initially disturbed for mining activities. The Facility will be comprised of major machines such as decorticator, twining and weaving machine. As the first process of the coconet production, decortication is currently a work in progress wherein approximately 500 kilograms of coco coir was produced as of June 2021. Coco coir is the main material being used in coconet-making.

6. Wildlife and Faunal Migration:

Is there an actual sighting of wildlife/fauna in the reforestation area during validation?	
Yes <u>v</u>	No

Some of the fauna species observed within the reforestation and rehabilitation areas are various species of birds, snakes, and monkey among others. See Attachment 3 for the photo documentation of the observed flora and fauna in mined-out rehabilitation.

FINDINGS/OBSERVATIONS:

- 1. Continuous production/propagation of seedlings contracted to local plant producers
- 2. Rehabilitated mined-out areas were maintained and protected as evidenced of high survival rate including bamboo plantation and mangrove rehabilitation areas
- 3. Involvement/employment of indigenous people in the mined-out rehabilitation activities and engagement of people's organization in the rehabilitation of mangrove areas
- 4. Involvement of RTN employees and other stakeholders in the seedling production (donation of indigenous and fruit trees) and care and maintenance of the rehabilitated areas
- Continuous maintenance and improvement of GP4, Mangingidong-Tanawan, Golden Park, Coffee plantation and introduction of other conservation measures including planting of vines/grasses in sloping areas to prevent soil erosion/landslide

RECOMMENDATIONS:

- 1. Sustain/Continue the good practices, initiatives and strategies in the implementation of different programs/projects/activities as per approved AEPEP
- 2. Continue the implementation of planned activities affected by COVID 19 Pandemic

NATIONAL GREENING PROGRAM (NGP) Validation Report

(For 2nd Quarter Cy 2021)

MPSA-114-98-IVB

I. NAME OF COMPANY : Rio Tuba Nickel Mining Corporation : Rio Tuba, Bataraza, Palawan Location

> Year MFP was Initiated : 1998

II. **ACCOMPLISHMENTS:**

G.	DEVELOPMENT PLANS: // (Attach photocopy(ies)	Long-Range Plan	/√/ Annual Plan	
н.	NURSERY OPERATIONS:	/ / loint Ventu	ure / / Acquired fro	ım Other Sources

Name of Nursery	Area (m²)	Capacity (No. of Seedlings Produced)*
Reforestation Nursery (Central Nursery)	10,000	200,000 - 250,000
Mangingidong Nursery	10,000	200,000 - 250,000

^{*}At least 1-ft plantable size

Seedling Inventory for the 2nd Quarter 2021

No	o. of Seedlings		No. of Seedlings Out-Planted/Disposal				Balance in	
Previous Stock	Produced	Total	Planted	Replanted	Enrichment	Donation	Mortality	Stock
187,721	360	188,081	750ª	-	^b 2,049	150	2,642	182,490

^aNote: Planted at mined-out rehabilitation area

EXTENT OF PLANTED AREAS (ha) for mangrove

Total Area Planted to Date : 43.63 : 43.63 **Previous Plantations**

New Plantations or Expansion

(Attach a reforestation map of scale 1:25,000 showing distinctly the previous plantations from the new plantations or expansions.)

DISTURBED AREAS (ha)

Areas directly affected by the operations 1. (Itemize all areas in a separate sheet.)

Particulars	Area (has)
1. Inactive Tenement Area/s (Untouched)	3,355.41
2. Rehabilitated/Reforested as of December 31, 2019	196.64

^bNote: Breakdown of enrichment: Enriched at reforestation area (880), mined-out rehabilitation (1,169)

Rio Tuba Nickel Silicate Ore Project 1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

Total	4,538.44
4. Ancillary (including CBNC and UMPI)	919.56
3. Active Tenement Area/s	66.83

2. Environmental Incidence Resulting to Damages

	Yes	Area Affected (ha)	No
a. Tailing's dam failure			Х
b. Waste dump failure			Х
c. Shrinkage/subsidence			Х
d. Induced slides			Х
e. Others (specify)			Х
Total			

(Note: Exclude areas that were previously rehabilitated.)

K. Maintenance and Protection

1. Plantation Activities

		Plantation Category								
				Ne	W					
	Old		Recent			Latest		Total		
	(<jj18)< td=""><td>JD18-JJ19</td><td>JD19-JJ20</td><td>Sub-Total</td><td>JD20</td><td>JJ21</td><td>Sub-Total</td><td></td></jj18)<>	JD18-JJ19	JD19-JJ20	Sub-Total	JD20	JJ21	Sub-Total			
No. of seedlings planted	1,124,297	111,907	73,011	1,309,215	100,144	9,541 ^e	109,685	1,418,900		
No. of sdlngs/ trees re- planted	184,133	4,681	4,951	193,765	3,913	2,942	6,855	200,620		
No. of surviving trees	940,164	107,226	68,060	1,115,450	96,231	6,599	102,830	1,218,280		
Survival rate	84.52%	95.58%	93.01%	85.82%	95.86%	74.08%	95.53%	86.37%		

^eNote: The figure reflected herein refers to enrichment planting and not new plantation. Out of 1,215 seedlings, 814 are fostered trees by RTN employees in relation to the Foster-A-Tree, Make-A-Legacy Program of the Company.

(Note: For old plantation, consider four (4)-year old growth and above.

For recent plantation, consider one (1)-year to three (3)-year old growth.

For latest plantation, consider those for the periods July-Dec. of the previous year and/or Jan.-June of the current year.

- 4. No. of Persons Involved
 - a) No. of Company Forester: One (1)
 - b) No. of Forestry Technician: Two (2)
 - c) No. of DENRO: Four (4)
 - d) No. of rehabilitation/reforestation helper: 21 (16 Males; 5 Females)
 - e) No. of local residents involved (community involvement): 30 personnel (Consisting of the following contractors: Jedith Seedling Grower and Trading by Ms. Jedith T. Paalan, Rio Tuba Mangrove Ecosystem Developers Inc. by Ms. Haula D. Acob)

5.	Vigorousness:	/ <u>√</u> /	Highly Vigorous	//	Vigorous /
----	---------------	--------------	-----------------	----	------------

6. Maintenance and Protection

Maintenance and Protection (Reforestation Areas)	Yes	No	Coverage (ha)
Patrol work (all reforestation areas)	٧		659.27
Forest law enforcement (all reforestation areas)	٧		659.27
Others (please specify)			

L. OTHER ENVIRONMENTAL FACTORS

Species Diversity

Tree Species	Spacing (m x m)	Tree Species	Spacing (m x m)
Narra		Marang	
Ipil		Rambutan	
Amugis		Kasoy	
Batino	Pioneer Species 5m x 5m	Kastanyas	
Kupang	JIII X JIII	Sampalok	
Kalumpang		Lanzones	For replacement/
Tongkat Ali		Langka	enrichment
Mangrove (Bakawang lalaki, Bakawang babae)	2m x 2m	Guava	(2.5mx2.5m)
Bamboo (Tinik, Bayog, Giant	5m x 5m/ 7m x 7m	Bignay	
bamboo & Buho/bolo	3111 X 3111/ 7111 X 7111	Durian	
Liberies soffee	3m x 3m	Duhat	
Liberica coffee	3111 X 3111	Makopa	

7. Research/Studies on reforestation conducted:

Is there any research/study on reforestation conducted?

/_/ (Attach copy(ies).) /\forum\/\ None

Only maintenance and continuous monitoring of the growth and survival of species planted at the Demo plot.

8. IEC on reforestation:

Are there any IEC activities (in the form of publication, public dissemination, lectures, etc.) initiated for the Community? $\underline{\text{Yes}}$

(Attach photocopy/ies of publication and other IEC papers.)

IEC in the form of interactive discussions and mine tour around the mine site, rehabilitation, and
reforestation areas are continuously done to RTN employees, various local and international interested
parties visiting the site. For the period, the Department had recorded 87 individuals that visited in the
Company's mine rehabilitation and reforestation areas, including CIVIC, newly hired and RTN
employees. Table below shows the list of visitors for the period:

Date of Visit	Visitors	Number of Visitors					
4/6/2021	CIVIC	5					
4/7/2021	Newly hired employees	5					
6/5/2021	RTN Employees (World Environment Day)	30					
6/25/2021	RTN Employees (Philippine Arbor Day)	47					
	TOTAL						

9. Services to the Community

Is there any reforestation assistance extended by the Company to the Community during the period under review? <u>Yes</u>

• Community-based Reforestation Program:

Objective: The reforestation program seeks to empower local communities through getting involved in the reforestation activities by using their indigenous knowledge in identification and selection of local plants to ensure endemicity, planting activity, care and protection activities of the plantations.

Target: The program prioritizes the services of the local community especially the IP groups through a contract and project-based system for the principal activities of the rehabilitation from seedlings production to care and maintenance activities of the plantations.

Status: The Company tapped the services of two (2) local plant producers for the propagation of planting materials to be used in rehabilitation and reforestation activities; for enrichment activities of the previously rehabilitated areas; and for greening of slopes and stockpiles. Moreover, the Company solely and directly employs IPs, in which 20-30% is women, through project-based system for the site preparation, planting, landscaping of the mined-out rehabilitation areas and the development of aquaagro-forestry farm.

"Foster-A-Tree, Make-A-Legacy":

Objective: To involve all RTN stakeholders in the seedling nurturing activity by rearing indigenous and/or local fruit and forest tree species.

Target: Each employee has to rear and donate the following numbers of fruit and forest tree seedlings: minimum of 20 seedlings for RTN regular employee; minimum of 10 seedlings for RTN non-regular employee; and minimum of 5 seedlings for every employee of RTN stakeholders (i.e., contractors). The seedlings will be planted in mined-out rehabilitation areas and other sparsely vegetated areas within Bataraza, in partnership with Local Government Unit.

Status: The planting of fostered seedlings commenced on the 25th of June in celebration of Philippine Arbor Day wherein 814 nurtured seedlings were planted/enriched in Mangingidong rehabilitation area, particularly in Blocks M15, M16 and O15.

"Adopt-A-Forest Project":

Objective: The program aims to increase awareness and encourage everyone's moral responsibility to nature through actual involvement in the rehabilitation activities of the Company.

Target: Each Department/Office of RTN has adopted rehabilitated area for them to care and maintain. The care and maintenance activities include enrichment planting, watering, fertilizer application, and soil cultivation and amelioration.

Status: The launching of the program was conducted on June 25, 2021 in celebration of Philippine Arbor Day and complement with the "Foster-A-Tree, Make-A-Legacy" through enrichment planting of 814 various forest and fruit tree species.

• Seedlings Donation

Objective: To provide support in the greening program of different government agencies/offices, NGO's, schools/academes, and various groups through seedlings donations.

Target: RTN will continue to donate seedlings as support to the greening program particularly in the Province of Palawan. Seedling donations, however, will be extended nationwide, if needed and possible.

Status: From CY 2014 to date, a total of 102,893 various seedlings were donated to government agencies/offices, NGO's, schools/academes, and various groups and entities all over the Province.

Coffee Plantation:

Objective: Create an ecologically and economically sustainable agriculture industry through establishment of community-based Liberica Coffee Plantation.

Target: To provide livelihood opportunities to stakeholders by turning-over the management of plantation to organized cooperative whose members are locals of Rio Tuba.

Status: Currently, the 53.0 hectares of coffee plantation located at Sitios of Racob and Tagpisa, Ocayan, Bataraza, Palawan is being managed and maintained by the Company. Care and protection activities are regularly performed to ensure the survival and production of the plantation. About 12% percent of coffee trees have bear fruit this season that resulted to a harvest of 3.8 tons coffee cherries or 68%

increase of production compared to 2.253 tons production last year. Yield is expected to increase in the subsequent years due to higher percentage of coffee trees that will be matured and eventually bear fruits.

• Edible Landscaping Contest:

Objective: The contest aims productivity of idle areas and promote conservation by planting local and native fruit-bearing and forest tree species; help improve the ecosystem by creating habitats for faunal species especially avifauna and pollinators; and foster a creative community in which people can contribute their skills and share knowledge/ideas.

Target: This year's version of Edible Landscaping Contest is Bataraza-wide that will feature community gardening in each barangay. Primary crops that will be planted in the garden are perennial crops such as fruit and forest trees at minimum of 250 seedlings per entry.

Status: The contest was launched last May 2021 via Facebook and registration will run until the 15th of July 2021.

• Mangrove Project:

Objective: The Mangrove Protection and Maintenance Project of RTNMC aims to engage the community (PO's) concerning protection and conservation of mangrove ecosystem and also to have an alternative source of income by propagating and planting mangrove species diverting from their previous charcoal making and trading activities.

Target: The Company will continuously care and maintain the 43.44 hectares of mangrove area located at So. Bongkol-Bongkol (11 has), So. Kinurong (10 has), So. Bukid-Bukid (21 has) and Igang-Igang (1.63 has) by replanting, enrichment and patrolling.

Status: Plantation monitoring/patrolling was conducted this period to protect our mangrove plantation from logging/destruction activity.

• Bamboo Plantation

Objective: To establish bamboo plantation in compliance with EO 879.

Target: The Company committed to establish 55.3 hectares bamboo plantation in So. Tagpisa.

Status: A composite of 12.0 hectares bamboo plantation located within and outside tenement area has already established as part of rehabilitation and reforestation activities. Further, the delineation of 55.3 hectares proposed plantation was completed as reflected in Attachment 2.

10. Other Conservation Measures

a.		of mine and/or plant site surro Area has.	oundings?	No	_
		works were conducted in Folianting various ornamental flo		' ' `	g 880 Udling seedlings, Macadam ki, Baho-Baho).
b.	Use of vines a	and grasses for planting/rehab	ilitation?		
	Yes <u>√</u>	Area _has.	No	_	
	Batbat, Tikog		e areas lo		Ferns, Banana Sucker, <i>Langkawas</i> , Mangingidong rehabilitation area
c.		t of Drip Irrigation System? Area: <u>1.5 has.</u>	No		
d.	Establishmen Yes <u>V</u> Area: <u>1</u>	t of Demo Plot? . 0 ha No			
					(

Demo plot of the Trace Elements Accumulating Metallophytes (TEAM) research is continuously being maintained by conducting brushing/stripping, and weeding activities.

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1. JBC attended the Bamboo Treatment Furniture Webinar on June 29, 2021.

e. Trainings Attended on Rehabilitation/Reforestation?

Yes <u>√</u>

No _

	f.	Application of fertilizers?
		Yes <u>v</u> No_
		RTN utilizes the following natural soil conditioner to augment the quality of soil in its mined-out
		rehabilitation areas:
		a. Chicken dung – 2,051 sacks
		b. STP sludge – ≈1.0 cubic meter
		c. Vermi compost – 0.82 tons
		d. Humus – 40 sacks
		e. Coco Peat – 35 sacks
	g.	Development/production of coconet for slope stabilization
		Yes <u>v</u> No_
		The Company is currently establishing a Coconet Production Facility with an initial capacity to produce at least 500 rolls of 1 x 10-meter Coconet which will be utilized for slope stabilization and erosion control. This development is also to capacitate the company in preparation for the final decommissioning and rehabilitation of areas initially disturbed for mining activities. The Facility will be comprised of major machines such as decorticator, twining and weaving machine. As the first process of the coconet production, decortication is currently a work in progress wherein approximately 500 kilograms of coco coir was produced as of June 2021. Coco coir is the main material being used in coconet-making.
11.	Wildlife	and Faunal Migration:
	ls t	here an actual sighting of wildlife/fauna in the reforestation area during validation?
		Yes <u>v</u> No
	Sor	ne of the fauna species observed within the reforestation and rehabilitation areas are various

FINDINGS/OBSERVATIONS:

1. Continuous production/propagation of seedlings contracted to local plant producers

the observed flora and fauna in mined-out rehabilitation.

2. Rehabilitated mined-out areas were maintained and protected as evidenced of high survival rate including bamboo plantation and mangrove rehabilitation areas

species of birds, snakes, and monkey among others. See Attachment 3 for the photo documentation of

- 3. Involvement/employment of indigenous people in the mined-out rehabilitation activities and engagement of people's organization in the rehabilitation of mangrove areas
- 4. Involvement of RTN employees and other stakeholders in the seedling production (donation of indigenous and fruit trees) and care and maintenance of the rehabilitated areas
- Continuous maintenance and improvement of GP4, Mangingidong-Tanawan, Golden Park, Coffee plantation and introduction of other conservation measures including planting of vines/grasses in sloping areas to prevent soil erosion/landslide

RECOMMENDATIONS:

- 1. Sustain/Continue the good practices, initiatives and strategies in the implementation of different programs/projects/activities as per approved AEPEP.
- 2. Continue the implementation of planned activities affected by the COVID-19 Pandemic.
- 3. Fast track the execution of contract for the bamboo plantation establishment

D. AIR QUALITY IMPACT ASSESSMENT

Sampling Location 1: Pier Stockyard A

		Res	sult			EQPL		
Parameter	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Limit (DENR Int'l Stds)	Remarks
	Current	Previous	Current	Previous				
	2Q21	1Q21	2Q21	1Q21				
1. TSP (μG/Ncm)				56			300	Passed

Date/time of sampling: MMT Sampling March 3, 2021; 3:15 PM – 4:15 PM

Weather and wind direction: Sunny

Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:

MMT Regular Sampling

Sampling Location 2: RTN Oval

		Re	sult			EQPL			
Parameter			MMT Con	MMT Confirmatory			Limit	Remarks	
In S		MR	Sampling	g (explain	Red Flag	Action (DENR		Remarks	
			necessity in box below)				Int'l Stds)		
	Current	Previous	Current	Previous					
	2Q21	1Q21	2Q21	1Q21					
1. TSP				0			230	Passed	
(μG/Ncm)									

Date/time of sampling: MMT Sampling March 5, 2021; 1:23 PM – 2:23 PM

Weather and wind direction: Sunny

Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:

MMT Regular Sampling

Sampling Location 3: Upper Kinurong

		F	Result			EQPL		
Davamatan			MMT Confi	rmatory			Limit	Remarks
Parameter In SM		MR	Sampling (explain necessity in box below)		Red Flag	Action	(DENR	nemarks
							Int'l Stds)	
	Current	Previous	Current	Previous				
	2Q21	1Q21	2Q21	1Q21				
1. TSP				42.4			300	Passed
(μG/Ncm)				42.4			300	Passeu

Date/time of sampling: MMT Sampling March 3, 2021; 1453 $\rm H-1553~H$

Weather and wind direction:

Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:

MMT Regular Sampling

Sampling Location 5: <u>Tagpisa Area</u>

		F	Result			EQPL		
Parameter	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Limit (DENR Int'l Stds)	Remarks
	Current	Previous	Current	Previous				
	2Q21	1Q21	2Q21	1Q21				
1. TSP				34			300	Passed
(μG/Ncm)				54			300	rasseu

Date/time of sampling: MMT Sampling March 3, 2021; 10:00 AM – 11:00 AM

Weather and wind direction: Sunny

Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:

MMT Regular Sampling

Overall Air Quality Impact Assessment: All results are within the standards

E. WATER QUALITY IMPACT ASSESSMENT

*Note: Confirmatory Sampling (re-sampling activities) were conducted due to exceedances on the amount of Chromium Hexavalent (Cr⁶⁺) present in the water samples collected during the 1st quarter 2021 MMT sampling activities in certain stations. Results indicated in the following tables for Cr⁶⁺ of Stations 4-7 are based on the laboratory results of the confirmatory sampling (re-sampling activities) c/o Ostrea Mineral Laboratories, Inc.

Sampling Location 1: Upper Tagpisa (RTNMC Control Station)

	Sampling Location 1. Opper ragpisa (Kritivic Control Station)									
		Res	sult			EQPL				
			MMT Con	firmatory			Water			
	In SMR		Sampling (explain				Quality			
Parameter			necessity in	box below)	Pod Flag	Red Flag Action		Remarks		
	Current	Previous	Current	Previous	Neu Flag	Action	(DAO			
	2Q21	1Q21	2Q21	1Q21			2016-08)			
	2Q21	IQZI	2Q21	IQZI			Class C			
рН				7.11			6.5-9.0	within the criteria		
TSS, mg/L				2			80	within the criteria		
As, mg/L				<0.0007			0.02	within the criteria		
Cd, mg/L				<0.003			0.005	within the criteria		
Pb, mg/L				<0.01			0.05	within the criteria		
Mn, mg/L				<0.003			0.02	within the criteria		
Ni, mg/L				0.08			0.2	within the criteria		
Cr ⁶⁺ , mg/L				0.01			0.02	within the criteria		

Date/time of sampling: MMT Sampling March 4, 2021;1013 $\rm\,H$

Weather and wind direction: Sunny

 $\label{prop:conducted} \textbf{Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:} \\$

Sampling Location 4: <u>Lower Kinurong Siltation Pond Discharge</u>

	Result EQPL							
			MMT Con	MMT Confirmatory Sampling (explain			Water	
	In S	MR					Quality Criteria	
Parameter			necessity in	box below)	Red Flag	Red Flag Action		Remarks
	Current	Previous	Current	Previous			(DAO	
	2Q21	1Q21	2Q21	1Q21			2016-08)	
		1421	2422	1421			Class C	
рН				7.70			6.5-9.0	within the criteria
TSS, mg/L				16			100	within the criteria
As, mg/L				<0.0007			0.04	within the criteria
Cd, mg/L				<0.003			0.01	within the criteria
Pb, mg/L				<0.01			0.1	within the criteria
Mn, mg/L				<0.003			4	within the criteria
Ni, mg/L				<0.02			0.3	within the criteria
Cr ⁶⁺ , mg/L				<0.01			0.1	within the criteria

Date/time of sampling: MMT Sampling March 4, 2021;1207 H

Weather and wind direction: Sunny

Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:

Sampling Location 5: <u>Lower Togpon Siltation Pond Discharge</u>

		Res	sult			EQPL		
Parameter	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Water Quality Criteria	Remarks
	Current 2Q21	Previous 1Q21	Current 2Q21	Previous 1Q21	neu riug	, , , , , , , , , , , , , , , , , , , ,	(DAO 2016-08) Class C	
рН				8.16			6.5-9.0	within the criteria
TSS, mg/L				4			100	within the criteria
As, mg/L				<0.0007			0.04	within the criteria
Cd, mg/L				<0.003			0.01	within the criteria
Pb, mg/L				<0.01			0.1	within the criteria
Mn, mg/L				0.081			4	within the criteria
Ni, mg/L				0.03			0.3	within the criteria
Cr ⁶⁺ , mg/L				<0.01			0.1	within the criteria

Date/time of sampling: MMT Sampling March 4, 2021;1110 H

Weather and wind direction: Sunny

Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:

Sampling Location 6: Confluence of S4 and S5 (Confluence of Togpon-Kinurong Siltation Pond Discharge)

	Result EQPL							
Parameter	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Water Quality Criteria	Remarks
	Current 2Q21	Previous 1Q21	Current 2Q21	Previous 1Q21	ned ridg	Action	(DAO 2016-08) Class C	
рН				7.66			6.5-9.0	within the criteria
TSS, mg/L				6			100	within the criteria
As, mg/L				<0.0007			0.04	within the criteria
Cd, mg/L				<0.003			0.01	within the criteria
Pb, mg/L				<0.01			0.1	within the criteria
Mn, mg/L				<0.003			4	within the criteria
Ni, mg/L				<0.02			0.3	within the criteria
Cr ⁶⁺ , mg/L				0.07			0.1	within the criteria

Date/time of sampling: MMT Sampling March 4, 2021;1232 H

Weather and wind direction: Sunny

Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:

Sampling Location 7: RTNMC Effluent

		Res	sult			EQPL		
Parameter	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Water Quality Criteria	Remarks
	Current 2Q21	Previous 1Q21	Current 2Q21	Previous 1Q21			(DAO 2016-08) Class C	
рН				7.72			6.5-9.0	within the criteria
TSS, mg/L				3			100	within the criteria
As, mg/L				<0.0007			0.04	within the criteria
Cd, mg/L				<0.003			0.01	within the criteria
Pb, mg/L				<0.01			0.1	within the criteria
Mn, mg/L				<0.003			4	within the criteria
Ni, mg/L				<0.02			0.3	within the criteria
Cr ⁶⁺ , mg/L				0.07			0.1	within the criteria

Date/time of sampling: MMT Sampling March 4, 2021;1227 H

Weather and wind direction: Sunny

Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:

Sampling Location 8: Rio Tuba Tributary (Receiving Water Body of RTNMC Effluent)

		Res	sult			EQPL		
			MMT Con	MMT Confirmatory			Water	
	In SMR rameter		Sampling (explain necessity in box below)				Quality	
Parameter					Red Flag	Action	Criteria	Remarks
	Current	Previous	Current	Previous	incu i iug	Action	(DAO	
	2Q21	1Q21	2Q21	1Q21			2016-08)	
	2021	1021	2021	1021			Class SC	
рН				8.32			6.5-8.5	within the criteria
TSS, mg/L				3			100	within the criteria
As, mg/L				<0.0007			0.04	within the criteria
Cd, mg/L				<0.003			0.01	within the criteria
Pb, mg/L				<0.01			0.1	within the criteria
Mn, mg/L				<0.003			4	within the criteria
Ni, mg/L				<0.02			0.3	within the criteria
Cr ⁶⁺ , mg/L				<0.01			0.1	within the criteria

Date/time of sampling: MMT Sampling March 4, 2021;1317 H

Weather and wind direction: Sunny

Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station:

- EQPL-Environmental Quality Performance Level
 - Alert of Red Flag-early warning
 - Action Level-point where management measures must be employed to reverse deterioration to preimpact or optimum environmental quality
 - o Limit Level-regulated threshold of pollutant (standard that must not be exceeded)

Overall Water Quality Impact Assessment:

All monitoring results are within the standards

F. Compliance with good practices in Solid and Hazardous Waste Management (Directions: The MMT shall indicate its observations on how solid waste is handed, stored, disposed.)

Type of Waste	E	CC/EPEP Commitm	ents	Adeq	uate?	Remarks
Type of waste	Handling	Storage	Disposal	Yes	No	Remarks
I101 – Used oil	Collected thru oil- water separators and contained in steel drums with proper label.	Stored in THWSF with compartments, adequate ventilation, signage, oil spill kit and fire hydrants.	Hauled and treated by DENR accredited haulers and treaters Per presented Certificate of Treatment/Final Disposal, 113.6 tons were hauled and treated this semester.	√		As of end of June 2021, 31.84 MT currently stored in THWSF.
I102 – Vegetable				√		0.3 MT currently stored in

Oil including					THWSF.
Sludge					
I104 – Oil- contaminated Rags	Contained in steel drums with proper label	Stored in THWSF with compartments, adequate ventilation, signage, oil spill kit, and fire hydrants.	Per presented Certificate of Treatment/Final Disposal, 14.392 tons were hauled and treated this semester.	~	8.084 MT currently stored in THWSF.
D406 – Used	Contained in	Stored in	Per presented	✓	13.2885 MT currently stored in
Lead Acid Batteries (Lead compounds)	steel drums with proper label	THWSF with compartments, adequate ventilation, signage, oil spill kit, and fire hydrants.	Certificate of Treatment/Final Disposal, 15.486 tons were hauled and treated this semester.		THWSF.
D407 – Busted fluorescent lamps (mercury and mercury compounds)	Contained in wooden crate with proper label	Stored in THWSF with compartments, adequate ventilation, signage, oil spill kit, and fire hydrants.	Per presented Certificate of Treatment/Final Disposal, 0.5225 tons were hauled and treated this semester.	~	0.4155 MT currently stored in THWSF.
F699-Paint Residue (other mixed)			Per presented Certificate of Treatment/Final Disposal, 0.23 tons were hauled and treated this semester.	>	1.33 MT currently stored in THWSF.
M506-Waste Electronics				√	2.68 MT currently stored in THWSF
J201-Containers			Per presented Certificate of Treatment/Final Disposal, 0.6655 tons were hauled and treated this semester.	~	0.0756 MT currently stored in THWSF.
M501-Clinical Waste				✓	0.0045 MT currently stored in THWSF.
Residual wastes	Color-coded trash cans/bins were distributed at the mine, plant and town sites with proper label for solid	Garbage trucks and compactors pick up the garbage and dump to GP- 28, the designated sanitary landfill (SLF) which is a	Garbage dump to the SLF are covered with soil twice a week.	√	Total volume of residual wastes generated for the 1st semester 2021 is 42.56 MT. NO PLASTIC policy is continuously being implemented to minimize unnecessary plastic generation.

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	waste sorting.	mined-out pit of RTNMC.			
Recyclable		Other recyclable materials are recovered and diverted from waste stream through an MRF located at the SLF		~	Total volume of recyclables generated for the 1st semester 2021 is 100.4 MT.
Biodegradable		Biodegradable wastes are stored in the Composting Facility		~	Total volume of biodegradable wastes generated for the 1st semester 2021 is 35.26 MT. There is a designated area in the SLF intended for Biodegradable wastes.
Hospital/Medical	Regular hauling by authorized personnel	Waste vault	Vault	~	The hospital wastes are stored and/or disposed once a week and/or depending on amount of waste generated in the septic vault inside the Landfill area.

G. Compliance with good practices in Chemical Safety Management (for those companies using/producing Chemicals listed in EMB's PCL & CCO List)

Chemicals in PCL and		Adequate?* (F	out/If Adequate)		
CCO CCO	Risk Management	Training	Handling	Emergency Preparedness	Remark
L404 - PCB/Non-PCB Equipment (3 units PCB Equipment w/ unknown weight; 0.245 MT PCB) Contaminated Equipment and 1.15 MT Non-PCB Equipment*	Adequate	Adequate	Adequate	Adequate	*Based on updated PCB Inventory.
Equipment*					

H. Complaints Verifications and Management

Data Filad		Filed Where	e? (pls. che	Nature of	Dosalutions Made		
Date Filed	DENR	Company	MMT	Others, Specify	Complaint	Resolutions Made	
None							