

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

GOTOK LIMESTONE QUARRY PROJECT Barangay Iwahig, Barangay Sandoval and Barangay Rio Tuba, Bataraza, Palawan Rio Tuba Nickel Mining Corporation

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

I. BASIC INFORMATION

A. Gotok Limestone Quarry Project

ECC Control No./Reference Code No.	:	ECC-CO-1801-0001
Date ECC Issued	:	June 13, 2019
Project Current Name	:	Gotok Limestone Quarry Project
Project Name in the ECC	:	Gotok Limestone Quarry Project
Project Status	:	Commercial Operation
Geographical Coordinates of the Project	:	8°35'50" to 8°36'20" north latitude and 117°27'45" to 117°28'15" east longitude
Proponent Name	:	Rio Tuba Nickel Mining Corporation – Gotok Limestone Quarry Project
Proponent Contact Person/Position	:	Engr. Rommel L. Cruz/Vice-President for Operations
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
Proponent Email Address	:	rommel.cruz@nickelasia.com
MMT Contact Person/Position	:	Joel V. Balquiedra/Supervising Science Research Specialist
MMT Mailing Address	:	Mines and Geosciences Bureau, MIMAROPA Region
MMT Telephone No./Fax No.	:	+639088940858
MMT Email Address	:	Joel.balquiedra@mgb.gov.ph

II. EXECUTIVE SUMMARY

Requirements		Complied		Remarks/ECC or EPEP Condition#
		Yes	No	
Compliance with ECC	Validity	✓		ECC-CO-1801-0001 issued on June 13, 2019.
Conditions/Commitments	Project coverage/limits/components	✓		Limestone Quarry Operation with an annual extraction rate of 725,000 WMT within the Mineral Production and Sharing Agreement (MPSA) No. 213-2005-IVB and crushing operations within MPSA No. 114-98-IV. The total project area to include its crushing facilities with Coral Bay Nickel Corporation is 51.10 hectares bounded coordinated delineated in the EPRMP.

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

				<p>Components:</p> <ol style="list-style-type: none"> Quarry Operation – 13 ha quarry area, quarry stockpile, top soil stockpile, silt collector sumps and access roads. Crushing Plant Operation – 250 TPH crushing plant, crushed limestone stockpile area, access road and water settling/recycling ponds. Hauls Roads – 6.80 km road connecting the quarry and crushing plant areas. Magazine Areas – 0.5 ha located within the MPSA 114-98-IV.
	EMP and updates as deemed necessary	✓		<p>The 2021 AEPEP for the projects were submitted to the MGB IV-B and was issued a Certificate of Approval (COA AEPEP No. 2020-03-MIMAROPA) by the same on 01 Feb 2021.</p> <p>Approved programs and activities under the 2021 AEPEP are implemented and accomplished.</p>
	Regular reporting of Self-Monitoring Results by the Project Proponent	✓		<p>The Quarterly Self-Monitoring Report and Compliance Monitoring Report were consistently submitted to EMB MIMAROPA Region. 1st Quarter and 2nd Quarter SMR were submitted on 15 April 2021 and 15 July 2021, respectively.</p>
	Other sectoral requirements mandated by other agencies to be complied with	✓		<p>Renewal of permits were secured during the semester. These include Mayor's Permits for RTNMC facilities and other permits specified in the ECC-CO-1801-0001 – Annex B. CONDITIONS Part I Recommendations to Concerned Government Agencies</p>
Compliance with EPEP Commitments	Implementation of Environmental Impact Control Strategies	✓		<p>AEPEP No. 2021-03 MIMAROPA was approved at MGB IV-B on 01 February 2021.</p> <p>Implementation of the approved 2021 AEPEP is continuous.</p>
	Safety	✓		<p>Approved Annual Safety and Health Program (ASHP) 2021 was approved by the MGB MIMAROPA Region as per letter received dated 16 December 2020 signed by Regional Director Roland De Jesus, CESO V.</p>

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

				Safety and Health Program Commitments are generally complied with.
	Rehabilitation	✓		<p>Mining Rehabilitation and Reforestation Program is included in the activities of approved 2021 AEPEP.</p> <p>Rehabilitation targets for 2020 planting a total of 0.62 hectares. All other established rehabilitated areas are generally maintained.</p>
Compliance with SDMP Commitments		✓		<p>The 2021 Annual Social Development and Management Program submitted for Gotok Limestone Project was already approved by the MGB MIMAROPA Region was issued a Certificate of Approval on 15 January 2021.</p> <p>SDMP activities are continuously being implemented by the company.</p>
Complaints Management	Complaint receiving set-up	✓		Complaints regarding the quarry operation, Environmental laws, DENR permits, SEP Clearance are included in the MMT functions.
	Case investigation	✓		MMT conducts investigation and / or addressed immediately.
	Implementation of control measures	✓		Relative to water quality, noise level and soil erosion appropriated mitigation plan and measures have been implemented thru approved AEPEP.
	Communication with the complainant/ public	✓		Concerns from the community are addressed through dialogues during IEC campaigns and regular Management and LGU officers' dialogue.
	Complaint documentation	✓		Legitimate and valid concerns will be addressed immediately.
Accountability- qualified personnel are charged with the routine monitoring of the project activities in terms of education, training, knowledge and experience of the environmental team		✓		The company has assigned an accredited Pollution Control Officer for the Project.
Others, please specify		-	-	None

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

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	All MMT members. Please see signatures below.	Covers data review per submitted accomplishment reports, actual field validation, consolidation of data, preparation of compliance reports and discussion of field findings and observations during the exit meeting.
- Compliance with EPEP & SDMP Commitments			
- Compliance with DENR Permits Conditionalities			
- Compliance with SEP Clearance Conditionalities			
Site Validation – Ocular			
Site Validation - Confirmatory Sampling (if conducted)	1-8 March 2021 (1st quarter 2021 MMT Sampling) Resampling activities for Cr6+ was conducted on 15 March 2021	MMT Sampling Team	No sampling activities were conducted for the 2 nd quarter. The 3 rd quarter sampling activities were conducted on 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. Gotok Limestone Quarry Project

Parameter	Specification (specify if in ECC or EPEP)	Within Specs?		Remarks - Description of Actual Implementation
		Yes	No	
Project Location (indicate geographic coordinates)	8°35'50" to 8°36'20" north latitude and 117°27'45" to 117°28'15" east longitude	✓		
Project Area (ha)	13 hectares quarry area	✓		6.94 hectares present quarry area
Capital Costs	P378.902M	✓		
Type of Minerals	Limestone	✓		
Mining method(s)	Open cast mining	✓		Open cast mining method using conventional drilling and blasting technique and/or manual method.
Production	Prod: 653,000 DMT Proc: 653,000 DMT	✓		First Semester 2021 total production: Extraction: 133, 332.00 WMT Production: 154, 608.00 WMT
Mill/Processing Plant	Crushing Facility	✓		With cage guards, catwalks, safety signs

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

Mine Life	Year 2022	✓		
Mineral Reserves/ Resources	5,174,830 DMT	✓		
Access/Transportation	Private plane or ship; Land transportation	✓		Approximately 236 km from Puerto Princesa City and about five (5) to six (6) hours by land. There is also an existing airstrip located in Brgy. Rio Tuba. This is primarily for the use of RTNMC. The runway is 1,700 m long by 30m beside the Macadam road.
Power Supply	From CBNC 22-megawatt coal-fired power plant; 75KW cat and 132 KW Olympian gens ets for Pier site	✓		
Mining Equipment	Quarrying equipment, crushing equipment, and auxiliary machinery	✓		Normal operation during validation
Workforce	As of June 30, 2021 Gotok Limestone Quarry has 103 regular employees	✓		93% of RTNMC's employees are from the Municipality of Bataraza; 5% are from other municipalities within Palawan while the remaining 5 % are from other provinces.
Development/Utilization Schedule	Mine life until year 2022	✓		
Other Components				

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

B.1 COMPLIANCE TO OTHER ECC CONDITIONS

Directions: The MMT shall check documentary compliance of the Proponent to the conditions stipulated in the ECC.

stipulated in the ECC.

ECC CONDITIONS	Complied?		PROOF OF COMPLIANCE/Remarks
	Yes	No	
PROJECT DESCRIPTION			
This Certificate cover the limestone quarry operation with an annual extraction rate of 725,000 WMT within the Mineral Production and Sharing Agreement (MPSA) No. 213-2005-IVB and crushing operations within MPSA No 114-98-IV. The total project area to include its crushing facilities and common facilities with	✓		Extraction: 133, 332 WMT Production: 154, 608 WMT As of June 2021

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

<p>Coral Bay Nickel Corporation is 51.10 hectares bounded coordinated delineated in the EPRMP.</p> <p>This project shall have the following components:</p> <ul style="list-style-type: none"> • Quarry Operation –13 ha quarry area, quarry stockpile, top soil stockpile, silt collector sumps and access roads • Crushing Plant Operation – 250 TPH crushing plant, crushed limestone stockpile area, access road, and water settling/recycling ponds • Hauls Roads – 6.80 km road connecting the quarry and crushing plant areas • Magazine Areas – 0.5 ha located within the MPSA 114-98-IV. 			
I. CONDITIONS			
<p>ENVIRONMENTAL MANAGEMENT</p> <p>1. The proponent shall continue to observe appropriate quarrying and vegetative restoration practices, land use, soil and water management, which shall include but not limited to the following:</p> <p>a. Proper stockpiling and disposal of materials generated from the quarry site, silt materials scooped out from the settling ponds, and other solid waste in permanent, stabilized areas away from any water body and drainage systems, as well as maintained in safe and non-polluting conditions;</p> <p>b. Strictly effect stabilization and erosion control of all sides slopes of the roads and nearby gullies, creeks and rivers affecting impact areas, as well as those of siltation ponds;</p> <p>c. Use the recovered topsoil for re-soiling or as soil cover on waste dumps and other disturbed areas for rehabilitation and re-vegetation. Temporary stockpiles shall be properly maintained and managed; and</p> <p>d. Provision of necessary storm drainage and diversion canals, culverts, and other flood</p>	✓		<ul style="list-style-type: none"> - All mitigating measures for the environmental impacts identified on this section are implemented in the AEPEP 2020. AEPEP 2021 was approved by the MGB MIMAROPA and issued a Certificate of Approval dated February 1, 2021. - Proper stockpiling of materials is maintained. Waste materials are reported through Mine Waste Tailings Report. - Progressive rehab and temporary revegetation is conducted on slopes. Rehabilitation for this year is scheduled to commence on the rainy season. - Topsoil stockpiled not more than 3 meters high and covered with canvas and grass. For the covered period 529 WMT of topsoil was utilized in preparation for the planting season. - Two silt containment sumps are maintained in the quarry area while a water recycling facility is maintained in the crushing plant

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

control measures to adequately receive and channel the silt-laded runoff away from natural receiving bodies of water.			<p>area. A total of 7,521.05 of silt materials were dredged these ponds for the semester.</p> <p>- Planning for the installation of box culvert at the access road to Gotok Quarry is currently ongoing.</p>
<p>2. Continue implementation of an effective Information, Education and Communication (IEC) Program to inform and educate all stakeholders, especially its contractors, workers, and local residents about the following:</p> <p>a. Mitigating measures embodied in its EPRMP, the conditions stipulated in this Certificate and the environmental and human safety features of the project for greater awareness, understanding and sustained acceptance of the project;</p> <p>b. Disaster risk reduction management measures and climate change related issues/concerns; and</p> <p>c. Schedule of blasting operations and safety protocols.</p> <p>Submit a report of IEC implementation to the EMB Central Office and EMB MIMAROPA as part of the semi-annual Compliance Monitoring Report (CMR);</p>	✓		<p>ASHP & ERPP are established and implemented</p> <p>Blasting schedules is properly coordinated and sirens are sounded before and after the detonation of the explosives to signal the start and end of the activity. All blasting activity is also made with the presence/witnessing by the PNP.</p>
3. Continue implementation of Social Development and Management Plan with indigenous people (IP) and non-IP as well as other existing agreements with the affected communities;	✓		Approved Social Development and Management Program (SDMP) with a duly issued Certificate of Approval by the Mines and Geosciences Bureau (MGB) is being implemented for the first semester 2021.
4. Maintain a reforestation and carbon sink program using endemic/indigenous species to offset greenhouse gas (GHG) emissions of the project in line with DENR's thrust for GHG emissions reduction programs and National Greening Program. The program shall be submitted to EMB Central Office and EMB MIMAROPA thirty (30) days upon receipt of this certificate;	✓		The initial GHG Emissions Reduction Report was submitted and received by EMB Central Office and EMB MIMAROPA last August 16, 2019.

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

5. Maintain and further enhance the 40 meters wide buffer zone landward along the river system/stream banks' high water line and along the entire periphery of the project;	✓		There is no recognized perennial body of water within the operational area of the quarry. Nevertheless, green buffer zones are maintained along the perimeter of the project site as part of the project's EPEP.
6. Implementation of cave management program exclusive and limited to the project area which will include buffer zone maintenance and protection of caves from blasting activities;	✓		Caves are identified, mapped and signage installed within the area of operation to prohibit activities that will affect these land forms.
7. Controlled blasting operation shall be implemented to minimize ground vibration, air blast and potentially dangerous flyrocks. Sirens shall be sounded before and after blasting to announce start and end of blasting activity. Blasting activity should be undertaken during day time only;	✓		Before blasting operations the area is cleared and sirens are sounded before and after blasting to signal the start and end of the activity. All blasting activity is also made with the presence/witnessing by the PNP.
GENERAL CONDITIONS			
8. The proponent shall comply with the environmental management and protection requirements of the pertinent provisions of the Philippine Mining Act of 1995 (RA No. 7942) and its Revised Implementing Rules and Regulations (DAO No. 2010-21), Harmonization of the Implementation of the Philippine Environmental Impact Statement System and the Philippine Mining Act of 1995 (DAO No. 2015-02) and Guidelines on Public Participation under the Philippine Environmental Impact Statement System (DAO No. 2017-15)	✓		Provisions are generally complied and Regular validation were made by the MMT and periodic SHES Audit. For the covered period MMT Validation was conducted last March 1-8, 2021 while SHES Audit was conducted last May 12-18, 2021.
9. The proponent shall ensure its contractors and sub-contractors strictly comply with the relevant conditions of this Certificate;	✓		Complied and maintained.
10. Submission of a CMR through EMB Central Office Online (CMR-Online) System together with report on SDMP;	✓		CMR for the first semester 2021 was submitted through online.
II. RESTRICTIONS			
11. No activities shall be undertaken other than what where stipulated in the final EPRMP;	✓		No activity other than what is stipulated on the EPRMP is implemented in the area.
12. In case of transfer of ownership of this project, these same conditions and restrictions shall apply and the transferee shall be required to secure an amendment of this ECC with the EMB Central Office within fifteen (15) days	✓		No transfer of ownership has transpired yet since the issuance of this certificate.

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

from the transfer of ownership.			
III. RECOMMENDATIONS TO CONCERNED GOVERNMENT AGENCIES			
1. Proponent shall comply with the following: a. Sanitation Code of the Philippines b. Building Code of the Philippines c. Ecological Solid Waste Management Act	✓		Sanitary Permit and Certificate of Potability for drinking were secured and valid. Building Permits are secured and valid. Wastes are collected at the quarry and crushing plant is collected and disposed at the Categorized Sanitary Landfill. While waste generated by the contractor is being managed by them.
2. Labor Code of the Philippines and occupational health and safety standards for mining activities.	✓		Complied and maintained.
3. Tree cutting permit	✓		Not applicable there are no new areas to be opened.
4. Water rights permit	✓		Not applicable to RTNMC's Gotok Limestone Quarry Operations
IV. ENVIRONMENTAL PLANNING RECOMMENDATIONS			
5. Preference for employment shall be given to qualified local residents. Adequate public information on jobs available for local residents in the affected areas shall be provided;	✓		Complied
6. The proponent to conduct Biodiversity Monitoring System/Program as well as analysis in coordination with the DENR and PCSD;	✓		Biodiversity Assessment and Monitoring Report was submitted to PCSDS, EMB, MGB, BMB and DENR MIMAROPA REGION IV-B Last December 29, 2020.
7. An independent third party shall be commissioned to undertake an environmental audit, including auditing of risks and hazards of the Project, shall be submitted to EMB Central Office; and	✓		The report of the Third-Party Environment Audit was submitted to MGB Central office copy furnished EMB last March 3, 2021.
8. A continuing study on the effects of the project on health of workers and affected residents shall be conducted every five (5) years. The result of the study shall be submitted to the Department of Health (DOH).	✓		Environment Health Impact Assessment was submitted last December 14, 2020.

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

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 Impacts	Mitigating Measures/Control Strategies		Effective		Recommendation
	Planned	Actual Observation	Yes	No	
Mining Operation	1. LAND RESOURCES				
	1.1. Revegetation of Mined-out Areas	RTNMC reportedly spent PHP73,700.00 (2% of budget)		X	Accelerate to the planned schedule of activities.
	To revegetate 4 hectares in 1 project area with an annual budget of PHP 4,228,000.00.				
	1.2 Maintenance/Enhancement of rehabilitated areas within MPSA	RTNMC was able to maintain/enhance 3 hectares (38% of the target) of rehabilitated areas within MPSA for PHP30,000.00 (11% of budget)		X	Continue to maintain/enhance the rehabilitated areas.
	To plant/maintain 2 hectares tree plantation with a total annual budget of PHP 15,000.00.				
	1.3 Reforestation-of areas outside MPSA (New Plantation - NGP/Bufferzone)	1area outside of MPSA was reforested (50% of the target) for PHP 1,138,920.00 (40% of the budget).	√		Continue this reforestation project.
	To reforest 2 areas outside of the MPSA with an annual budget of PHP 2,824,000.00.				
	1.4 Nursery Operation: In-house seedling production	RTNMC reportedly produced 9,535 seedlings (190% of the target) for only PHP45,610.00 (23% of the budget)	√		Continue the seedlings production for reforestation projects.
	To produce 5,000 seedlings with an annual budget of PHP 199,000.00.				
	2. WATER RESOURCE AND QUALITY				
	2.1 Maintenance of Siltation Ponds/Silt Collector Sumps	RTNMC was able to maintain 3 siltation ponds/silt collector sumps (100% of the target) at a cost of PHP 4,338,430.00 (73% of the budget).	√		Continue to maintain the siltation ponds and silt collector sumps.
	To maintain 3 siltation ponds/silt collector sumps with an annual budget of PHP 5,926,000.00.				
	2.2 Solid Waste Management	RTNMC was able to handle 0.42 MT (8% of the target) of solid wastes produced with a cost of PHP 28,630.00 (49% of the budget).	√		Continue the proper solid waste management.
	To handle and properly dispose of 5 MT of solid wastes with an annual budget of PHP 58,000.00.				
	2.3 Hazardous Waste Management	No accomplishment but spent PHP 90,000.00 (100% of the budget).		X	Adhere to the planned schedule of activities.
	To treat 5 MT of hazardous waste products with an annual budget of PHP 90,000.00.				
	2.4 Water Quality Monitoring	RTNMC was able to conduct 6 water	√		Continue the water quality monitoring.
	To conduct 12 water quality				

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

	monitoring with an annual budget of PHP 420,000.00.	quality monitoring (50% of the target) with a cost of only PHP128,260.00 (31% of the budget)			
3. NOISE AND VIBRATION					
	3.1 Noise and Vibration Level Monitoring	RTNMC was able to conduct 6 (50% of the target) monitoring with a cost of only PHP 75,760.00 (42% of the budget).	✓		Continue to conduct noise and vibration level monitoring.
	To conduct 12 noise and vibration monitoring with an annual budget of PHP 181,000.00.				
4. AIR QUALITY					
	4.1 Dust Control-Road Watering	RTNMC was able to utilize 2,079 cu.m. (42% of the target) of water as dust control for PHP 286,820.00 (22% of the budget).	✓		Continue the road watering as a dust control measure.
	To conduct 5,000 cu.m. of road watering with an annual budget of PHP1,290,000.00				
	4.2 Dust Control-Envi	1 environmental dust control project (50% of the target) was conducted for PHP 289,440.00 (40% of the budget)	✓		Continue to conduct environmental control projects.
	To conduct 2 environmental dust control projects with an annual budget of PHP 720,000.00.				
	4.3 Dust Control-Street Sweeping	RTNMC was able to conduct 0.25 km (100% of the target) of street sweeping for only PHP 285,800.00 (22% of the budget).	✓		Continue the street sweeping activity as a dust control measure
	To conduct 0.25 km of street sweeping with an annual budget of PHP 1,290,000.00.				
	4.4 Air Quality Monitoring	RTNMC was able to conduct 6 air quality monitoring (50% of the target) for only PHP 65,360.00 (42% of the budget)	✓		Continue the regular air quality monitoring.
	To conduct 12 air quality monitoring with an annual budget of PHP 154,000.00				
5. CONSERVATION VALUES					
	5.1 Environmental Awareness	RTNMC was only able to conduct 1 environmental awareness (25% of the target) for PHP50,000.00 (63% of the budget)		X	Accelerate the conduct of environmental awareness to catch up with the plan for CY 2021.
	To conduct 4 environmental awareness with an annual budget of PHP 80,000.00.				
	5.2 Biodiversity Conservation	No accomplishment.		X	Conduct the planned biodiversity project.
	To conduct 1 biodiversity conservation project with an annual budget of PHP 156,000.00				

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

6. ENVIRONMENTAL RESEARCH					
6.1 Various Studies		No accomplishment (0% of the target) but already spent PHP 540,000.00 (100% of the budget).		X	Accelerate this activity to catch up with the plan for CY 2021
To conduct 1 study with an annual budget of PHP 540,000.00.					
7. OTHERS (E.G. TRAINING/WORKSHOPS/ CONFERENCES/LINKAGES/ MMT/MRFC ETC.)					
7.1 MMT Validation & Inspection; MRFC Meetings		Only 1 MMT and 1 MRFC activity (25% of the target) were conducted due to the restriction brought by the COVID-19 pandemic. RTNMC spent PHP150, 730.00 (25% of the budget) for these activities.		X	Conduct the remaining MMT and MRFC activities for CY 2021
To conduct 8 MMT and MRFC activities with an annual budget of PHP600,000.00					
7.2 Conduct the remaining MMT and MRFC activities		2 inspections audits/training and linkages (50% of the target) was conducted for PHP 232,900.00 (38% of the budget)	√		Conduct the remaining Inspection Audits; Training and Linkages
To conduct 4 inspection audits, training, and linkages with an annual budget of PHP 606,000.00					

C. REHABILITATION ACTIVITIES

This section shall discuss the proponent's / company's accomplishment on site restoration that shall include, among others, stabilization, revegetation/remediation, rehabilitated / revegetated area, plant spacing (including species), and nursery operation during the monitoring period.

Land Use	Area (ha)
Present Quarry Area	6.94
Quarry Stockpile Area	1.45
Quarry Access Road & Ponds	0.09
Rehabilitated Area	4.52
Final Quarry Area	13.0

MINING FOREST PROGRAM (MFP)
Validation Report

(JANUARY 2021 to JUNE 2021)
MPSA-213-2005-IVB

I. NAME OF COMPANY : Rio Tuba Nickel Mining Corporation – Gotok Limestone Quarry Project
Location : Brgys. Rio Tuba, Sandoval and Iwahig, Bataraza, Palawan
Year MFP was Initiated : 2014

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

II. ACCOMPLISHMENTS:

A. DEVELOPMENT PLANS: ☐ Long-Range Plan ☒ Annual Plan

B. NURSERY OPERATIONS:
☒ Own Nursery ☐ Joint Venture ☐ Acquired from Other Sources

Name of Nursery	Area (m ²)	Capacity (No. of Seedlings Produced) *
Gotok Quarry Nursery	500	20,000 – 30,000

*At least 1-ft plantable size

Seedling Inventory for the 1st Semester 2021

No. of Seedlings			No. of Seedlings Out-Planted				Balance in Stock
Previous Stock	Produced	Total	Planted	Replanted	Donation	Mortality	9,107
9,801	12	9,813	0	0	40	666	

C. EXTENT OF PLANTED AREAS (ha) NGP REHAB TOTAL

Total Area Planted to Date	:	68.50 has	4.72 has	73.10 has
Previous Plantations	:	N/A	4.72 has	4.72 has
New Plantations or Expansions	:	N/A	N/A	N/A

Note: Land use data is reconciled with the 2020 Annual Land Use Report submitted by the Engineering Department to the MGB Regional Office. Total Rehabilitation area is composed of 4.51 ha of permanent rehabilitation and 0.21 ha of temporary.

NGP Accomplishment:

Year	Reforestation Establishment (ha.)	Donation (ha.) (No. Seedlings donated/500= No. of Hectares)	Total
2011			No available data
2012			No available data
2013			No available data
2020	68.50 has.		68.50 has.
Grand Total			68.50 has.

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

Donated seedlings under NGP

Year	No. of Seedlings	Remarks
2014		No available data
2015		No available data
2016		No available data
2017		No available data
2018		No available data
2019	215	Donated to individual stakeholders at Gotok area.

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

2020 (1 st Sem)	324	Donated to individual person for their backyard planting and CBNC Envi Dept. for their Arboretum project.
2021 (1 st Sem)	40	Fruit trees donated to Nickel rehab area (GP-J24)

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 (Undisturbed)	71.72
2. Rehabilitated/Reforested Areas (as of June 2021)	
<i>Permanent Rehabilitation (4.51)</i>	4.72
<i>Temporary Rehabilitation (0.21)</i>	
3. Active Tenement Area/s	4.42
5. Ancillary	3.68
Total	84.54

2. Environmental Incidence Resulting to Damages

	Yes	Area Affected (ha)	No
a. Siltation Pond			X
b. Shrinkage/subsidence			X
c. Induced slides			X
d. Others (specify)			X
T o t a l			

(Note: Exclude areas that were previously rehabilitated.)

E. MAINTENANCE AND PROTECTION

1. Plantation Activities

	Plantation Category							
	Old	New						Total
		Recent			Latest			
	(>JJ18)	JD18-JJ19	JD19-JJ20	Sub-Total	JD20	JJ21	Sub-Total	
No. of seedlings planted	1,500	2,719	1,338	4,057	1,586	-	1,643	7,143
No. of seedlings/ trees re-planted	0	2,154	115	2,269	0	-	0	2,269
No. of surviving trees	1,500	565	1,223	1,788	1,586	-	1,586	4,874
Survival rate	100%	51.38%	91.29%	60.55%	100%	-	100%	73.48%

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.

2. No. of Persons Involved

- a) No. of Forester : One (1)
- b) Pollution Control Officer: One (1)
- c) No. Forest Guard : One (1)
- d) No. of Rehabilitation/Reforestation Helper : Two (2) Males
- e) Quarry Operation for the land preparation

3. Maintenance and Protection

	Yes	No	Coverage (ha)
Control of forest fires by establishment and construction of fireline/firebreaks/fire towers	√		4.51
Brushing/weeding/mulching/pruning	√		4.51
Fertilizer/lime/pesticide/chemical application	√		Nursery operation
Water spraying (Drip Irrigation)	√		1.5
Control of forest pests and diseases		√	No indication of pest/disease
Patrol work	√		4.51
Forest law enforcement	√		4.51
Others (please specify)			

F. OTHER ENVIRONMENTAL FACTORS

1. Species Diversity

Tree Species	Spacing (m x m)
Putian	For initial planting (2mx2m)
Balinghasai	
Banilad	
Tangisang bayawak	
Lunas	
Rain Tree	
Bolong- eta	
Calobcob	
Amugis	For Enrichment/ re-planting (Irregular spacing) Climax species
Talisay gubat	
Bogo	

2. Research/Studies on reforestation conducted:

Is there any research/study on reforestation conducted?

/ / Yes / ☒ / None

- No research/Studies conducted for this period due to COVID 19 granular lock down of IATF in Bataraza

3. IEC on reforestation:

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

- No IEC activity for reforestation for this period due to COVID 19 granular lockdown of Bataraza IATF.

4. Services to the Community

- Part of the NGP program under the RTNMC-GLQP is the support to Gotok Kolantud Highlanders Multipurpose Cooperative, a people's cooperative duly registered under the Cooperative Development Authority (CDA). The cooperative ventures into various agricultural activities like vegetable, rice and corn production. It also maintains an orchard that fosters various fruit trees, a nursery facility as well as vermi cast and lime powder production

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

- Orchard Development Project: The cooperative also maintains an orchard with various fruit trees like Cacao, Lanzones, Rambutan, Abiue, Pomelo, Citrus, Durian, Jackfruit, Candaba Banana, Bignay Berries. This portion of the cooperative activity is the most lucrative as it produces various agricultural products like Bignay Wine and Tablea/Cacao Pods.
- The cooperative also has other auxiliary activities that include fertilizer production in the form of vermi cast and lime powder.
- Corn Production

Area	Hectarage
Gotok	1.50
Beriran	1.50
Gualon Area (Individual)	1.50
Olpina Area	1.00
Rober Area (Individual)	1.00
Lipin Area (Individual)	1.00
Total:	8.00

- Rice Production Areas

Area	Hectarage
Malatgao	5.0
Macolango	5.0
Beriran	0.50
Cawagan, Sumbiling	1.50
Total:	12.00

5. Other Conservation Measures

- Use of vines and grasses for planting/rehabilitation?
Yes _____ Area _____ ha No ✓
 - Vines and grasses are utilized but there are no new area of plantation for the covered period.
 - Establishment of Nursery?
Yes ✓ Area: Gotok quarry nursery No _____
 - Completion of Clonal Nursery facility and re-construction of seedling recovery shed.
 - Establishment of Drip Irrigation System?
Yes ✓ Area: 1.5 has No _____
 - Trainings Attended on Rehabilitation/Reforestation?
Yes ✓ No _____
- Forestry Technicians of MRRS attended webinar training on the Establishments of Bamboo Plantation in Mining areas (March 11-12,2021).

6. Wildlife and Faunal Migration:

Is there an actual sighting of wildlife/fauna in the reforestation area during validation?
Yes ✓ No _____

There are observed faunal species in the area but there is no photo documentation available for the period.

FINDINGS AND RECOMMENDATIONS

FINDINGS / OBSERVATION	RECOMMENDATIONS
Continuous production/propagation of native /indigenous forest trees seedlings and large planting materials	Sustain/Continue the good practices, initiatives and strategies in the implementation of different programs/projects/activities as per approved AEPEP.
Rehabilitated mined-out areas were maintained and protected as evidenced of good survival rate.	Continue the planned activities affected by the COVID-19 Pandemic “Lock down”
Implementation of some activities were affected by COVID 19 granular lockdown	Fast track the execution of contract for the five (5) hectares bamboo plantation establishment for the immediate implementation of the project
Construction of nursery recovery shed made of steel materials	

D. AIR QUALITY IMPACT ASSESSMENT

Sampling Location 6: Gotok Southwest

PARAMETER	RESULT		MMT Confirmatory Sampling (explain necessity in box below)		EQPL*			REMARKS
	in SMR				RED FLAG	ACTION	LIMIT	
	CURRENT 2Q21	PREVIOUS 1Q21	CURRENT 2Q21	PREVIOUS 1Q21				
1. TSP (µg/Ncm)				31			300	Passed
Date/time of sampling: March 5, 2021 / 9:43 AM – 10:43 AM for 1 st Quarter								
Weather and wind direction: Sunny								
Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station: MMT Regular Sampling								

Sampling Location 7: Gotok Southeast

PARAMETER	RESULT		MMT Confirmatory Sampling (explain necessity in box below)		EQPL*			REMARKS
	in SMR				RED FLAG	ACTION	LIMIT	
	CURRENT 2Q21	PREVIOUS 1Q21	CURRENT 4Q21	PREVIOUS 3Q21				
1. TSP (µg/Ncm)		46					300	Passed
Date/time of sampling: March 5, 2021 / 8:32 AM – 9:32 AM for 1 st Quarter								
Weather and wind direction: Sunny								
Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station: MMT Regular Sampling								

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

Overall Air Quality Impact Assessment:

All parameters are within the DENR standards.

E. WATER QUALITY IMPACT ASSESSMENT

Sampling Location 16: Oning (Gotok Spring)

Parameter	Result				EQPL			Remarks
	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Water Quality Criteria (DAO 2016-08) Class C	
	Current 2Q21	Previous 1Q21	Current 2Q21	Previous 1Q21				
TSS, mg/L				5			100	Within the criteria
Date/time of sampling: March 4, 2021 / 09:40 AM for 1 st Quarter								
Weather and wind direction: Sunny								
Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station: MMT Regular Sampling								

Sampling Location 17: Gotok Entry Tunnel (Underground)

Parameter	Result				EQPL			Remarks
	In SMR		MMT Confirmatory Sampling (explain necessity in box below)		Red Flag	Action	Water Quality Criteria (DAO 2016-08) Class C	
	Current 2Q21	Previous 1Q21	Current 2Q21	Previous 1Q21				
TSS, mg/L				52			100	Within the criteria
Date/time of sampling: March 4, 2021 / 09:15 AM for 1 st Quarter								
Weather and wind direction: Sunny								
Explanation of why confirmatory sampling was conducted for specific parameter in the sampling station: MMT Regular Sampling								

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

Overall Water Quality Impact Assessment

All parameters are within the DENR standards.

RIO TUBA NICKEL CORPORATION – GOTOK LIMESTONE QUARRY PROJECT
1st Semester 2021 Compliance Report to DAO 2015-02 ANNEX B

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	ECC/EPEP Commitments			Adequate?		Remarks
	Handling	Storage	Disposal	Yes	No	
I101 – Used oil	Collected and contained in steel drums with proper label.	Stored in THWSF with compartments, adequate ventilation, signage, oil spill kit, and fire hydrants.	N/A	✓		0.4 Ton generated as of 1 st semester 2021.
I104 – Oil-contaminated				✓		0.50 Ton generated as of 1 st semester 2021.
D406 – Used Batteries			N/A			0.588 Ton generated as of 1 st semester 2021.
D407 – Busted Fluorescent Lamp				✓		0.003 Ton generated as of 1 st semester 2021.
Residual wastes	Color-coded trash cans/bins were distributed at the mine, plant and town sites.	Garbage trucks and compactors pick up the garbage and dump to Landfill (GP-28).	Garbage dump to the pit are covered with soil twice a week	✓		<ul style="list-style-type: none"> - Wastes are collected at site and deliver / disposed at the Categorized Sanitary Landfill. - It is subject to the Integrated Waste Management Program of RTNMC in its area of influence or it can control.

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

Chemicals in PCL and CCO	Adequate?* (Put/If Adequate)				Remark
	Risk Management	Training	Handling	Emergency Preparedness	
	N/A				

H. Complaints Verifications and Management

Date Filed	Filed Where? (pls. check)				Nature of Complaint	Resolutions Made
	DENR	Company	MMT	Others, Specify		
	N/A					

I. Other Remarks/Recommendation/Documentations:

Photos were taken during the conduct of Monitoring on **22 July 2021**



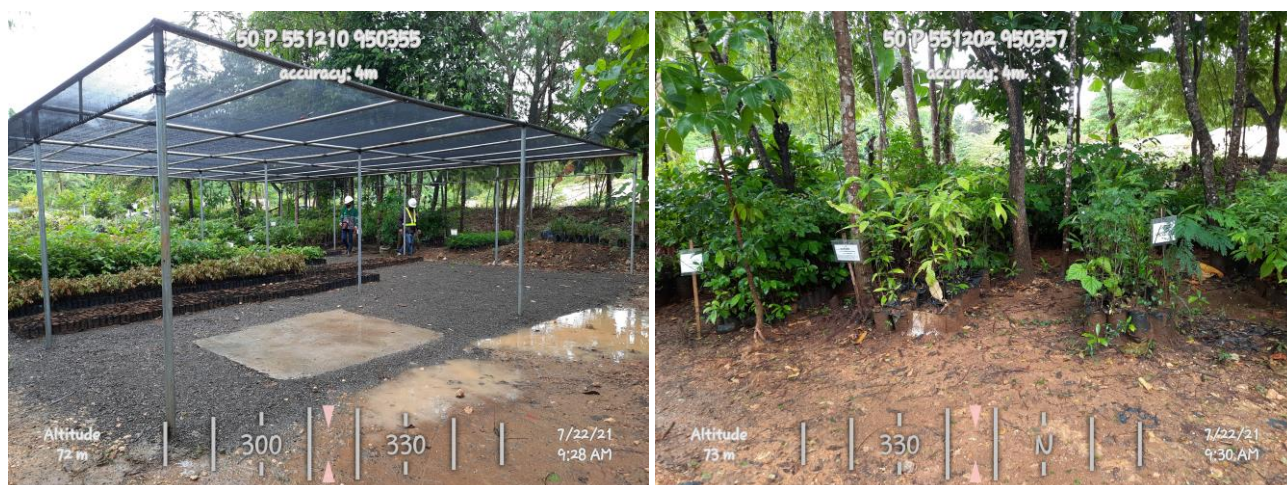
Figures 1 to 2. Top view of Gotok Limestone Quarry; Rehabilitation area.



Figures 3 to 4. Silt containment sumps at quarry area observed low water level.



Figure 5. Maintained oil depot of the contractor (CONEX).



Figures 6 to 7. Construction of new metal seedling shed frame at Gotok Quarry Nursery; Seedlings available at the nursery for disposal.



Figures 8 to 10. Established clonal laboratory facility.



Figures 11 to 12. At Crushing Plant during Noise level monitoring.



Figures 13 to 14. During sampling at Southeast and Southwest of Gotok Quarry (05 March 2021)



Figures 15 to 16. During sampling at Oning Sprin and Gotok Underground (04 March 2021.)