



2025 CANCONEX Presentation

RAMU NICO MANGEMANT (MCC) LIMITED



中国五矿



中冶瑞木
MCC Ramu NiCo

Kurumbukari Exploration Site 1962





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Kurumbukari Mine Locality





Types of Operations at KBK Mine Site





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Load and haul mine operation





Washing Plant at KBK Mine (Innovative Mining)





Ore Mining Techniques (Conventional & Sluicing Mining)



Primary slurry preparation-Washing



Chromite Removal-Beneficiation Plant



Thickened slurry preparation-Beneficiation Plant



Slurry transported via Pipeline to BSK Refinery



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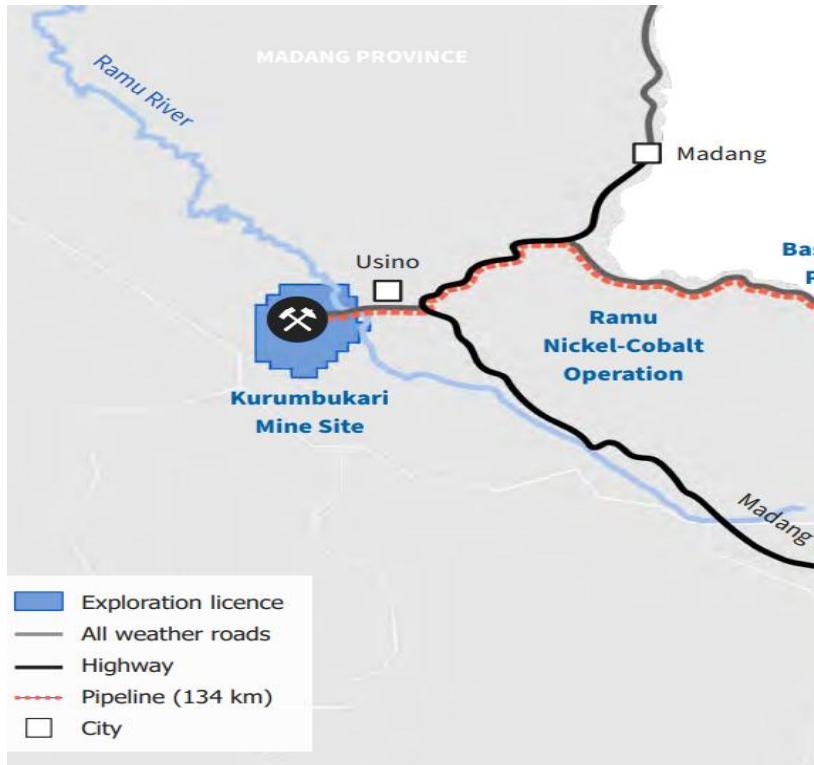
Basamuk Refinery





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Basamuk Refinery Location



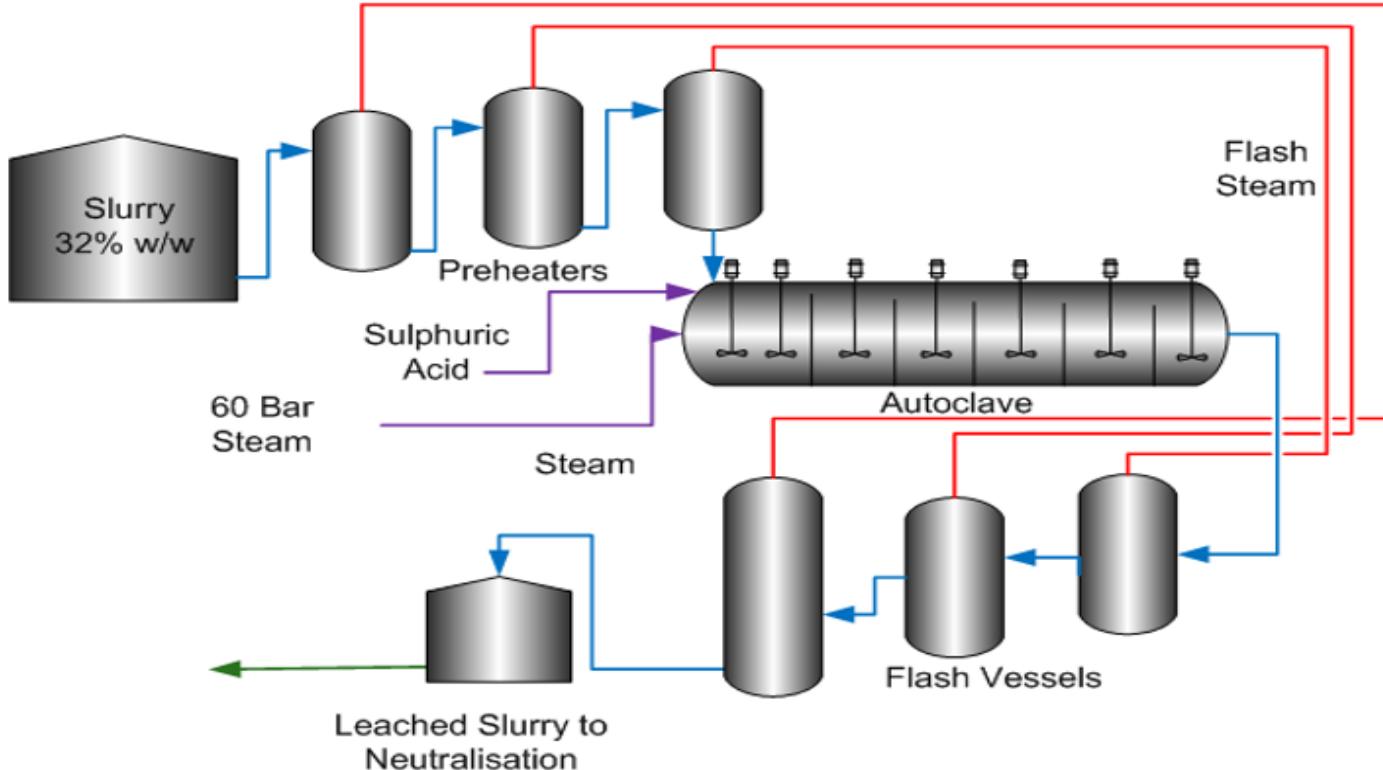


Basamuk Refinery Overview





Process Overview - HPAL



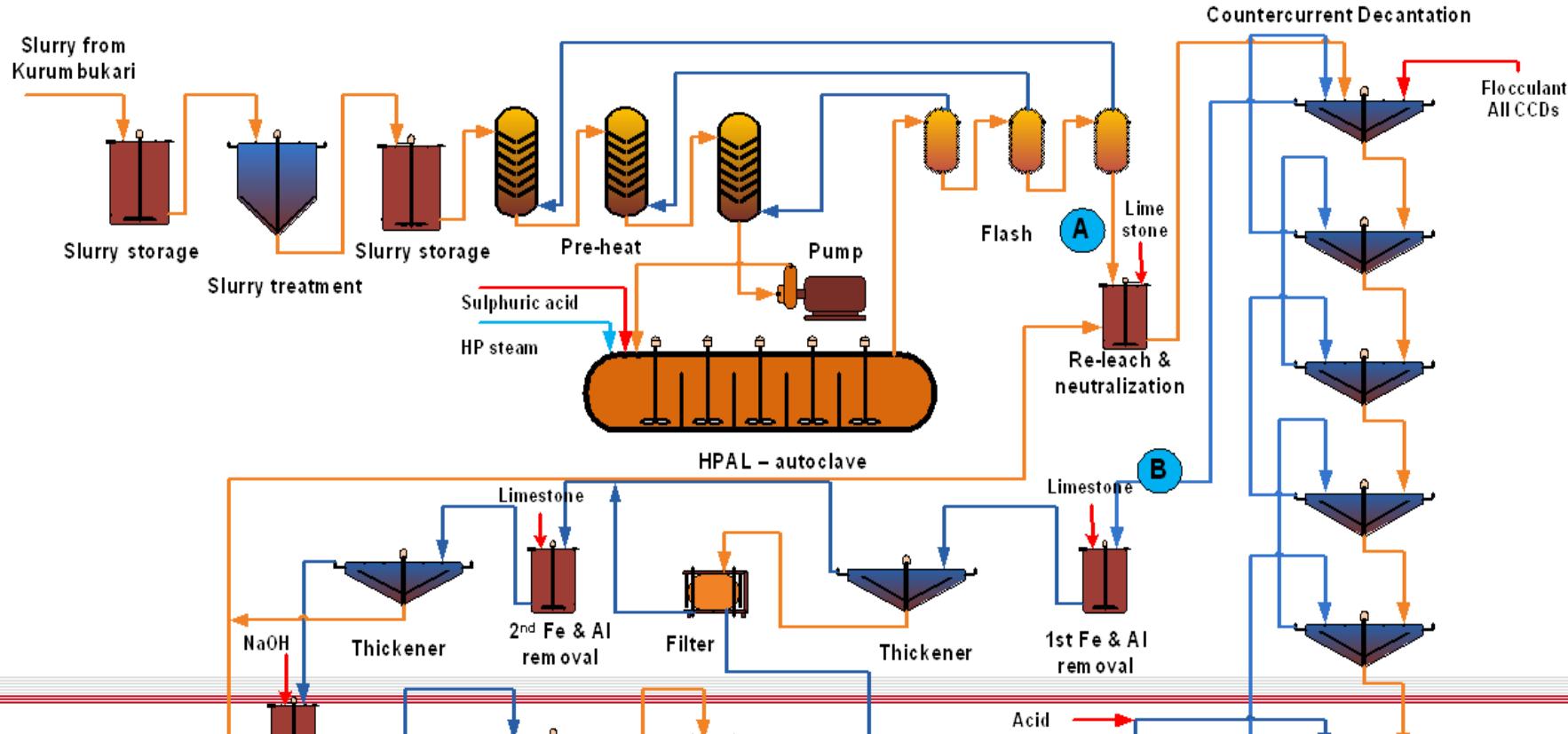


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Basamuk Project Flowsheet – Basamuk Processing Plant

Ramu Nickel Project Flowsheet – Basamuk Processing Plant



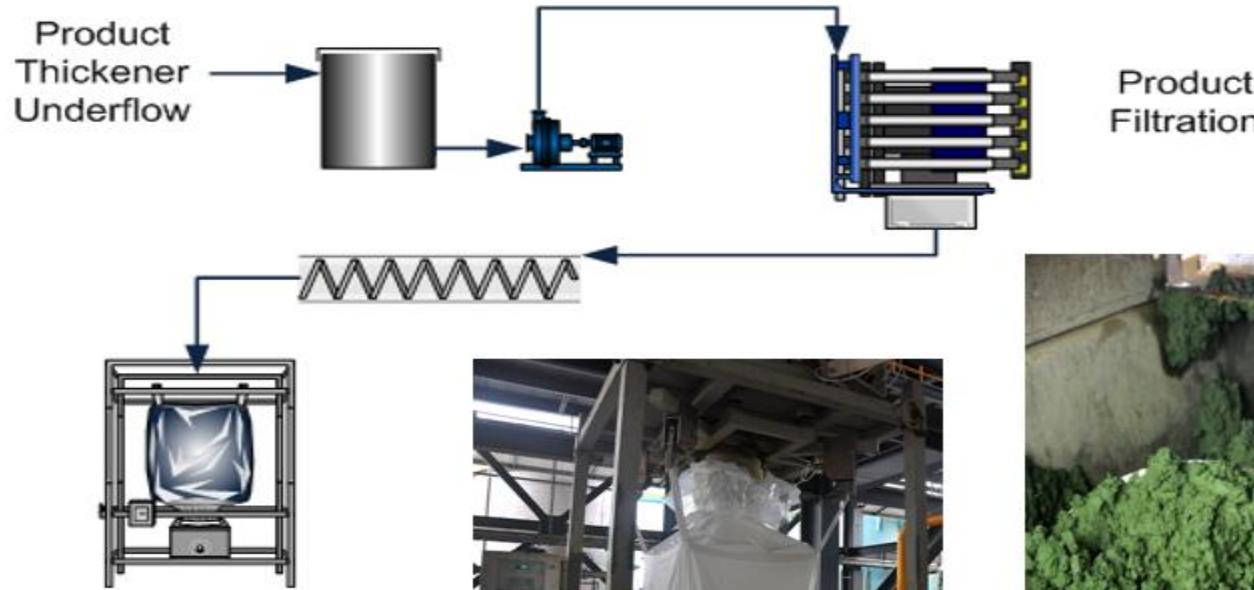


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Final Product





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Basamuk Refinery Overview



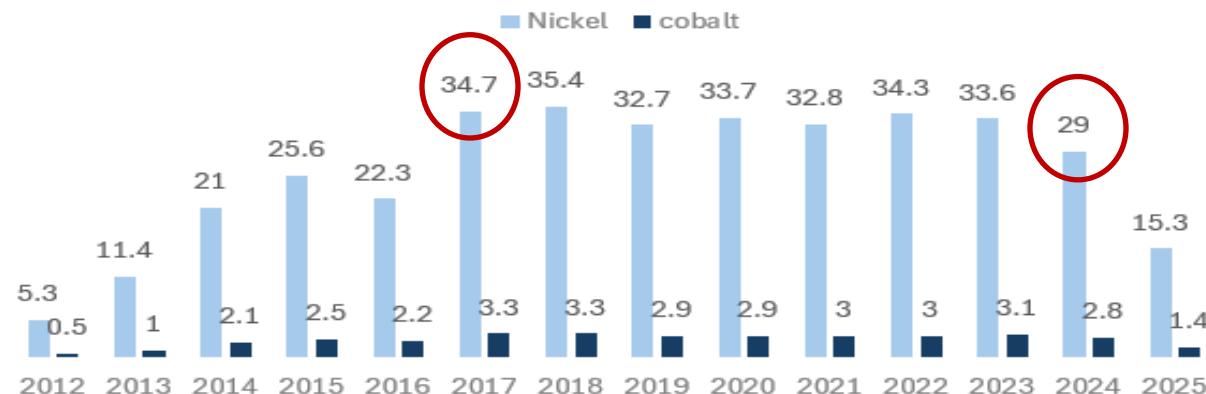


Basamuk Refinery Overview

RNML – Basamuk

Production has exceeded design capacity since Q4, 2016.

Production in Mixed Hydroxide (000s of Tonnes)





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Basamuk Refinery – Non-Process





Workforce.

- Basamuk Plant Site – 1 207
- KBK Mine Site - 1 044
- Madang Office - 249

Total workforce - 2500 (approximate)

Workforce groups are;

- Locals
- National
- Chinese
- Others

Workforce groups & Contractors

- Landowner companies
- Raibus Group (security/Engineering/labour hire)
- NCS (Catering
- Individual Local Landowner groups.
- PNG registered companies
- Others



Social Economic Development and Community Engagement (RNML).

1. Health and Education.

- Annual subsidies under MOA, donations, and school fees subsidies are provided.

2. Business Spinoff and Landowners Companies: Logistics and transport, catering, security, labour hiring, and camp Services.

3. Royalty and Land Use Compensation.



Trades Training

Operations – Fixed Plant

Operations – Mobile Plant

HSE – Inductions

HSE – Safety

Third Party – Specialised

Graduate Programs

Vacation Professional Work Experience





RNML Commitment to Occupational Health and Safety

- RNML company's policy on OH&S aligns with the principles of ISO45001, safeguarding a safe and healthy working environment for all employees.
- RNML continues to identify and manage risks, improve OH&S performance, and comply with legal and regulatory requirements.
- ISO 45001 is an international standard that provides a framework for organizations to establish, implement, maintain, and continually improve an Occupational Health and Safety (OH&S) management system.

RAMU NICO MANAGEMENT (MCC) LIMITED

Section 95, Allotment 18, Modilon Road, Madang, Papua New Guinea.

Health and Safety Management System has been assessed and registered as conforming with the requirements of ISO 45001:2018.

Scope:

Provision of Mining (Soil) and Refining Nikel and Cobalt

Certificate Registration No. 002167-1-PG-1-OHS

Certified Since 20.03.2025

Valid from 20.03.2025

Valid until 19.03.2026

Recertification due before 19.03.2028



Managing Director

Business Systems Certification Pty. Ltd. (BCert) 15 Colman Close, Ropes Crossing NSW 2760, Australia.

Certification is subject to satisfactory ongoing Surveillance Assessments.
The validity of this certificate can be verified at www.jasanz.org/register.

Issue No. 2 Date: 20.03.2025





Conservation and Environmental Protection (CEPA) Environmental Permit WD-L3 (115) approval



CONSERVATION AND ENVIRONMENT PROTECTION AUTHORITY OFFICE OF THE MANAGING DIRECTOR

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Waigani Drive
P O Box 6601
BOROKO, NCD
Papua New Guinea

Telephone : (675) 3014500/3014530
Facsimile : (675) 3238371/3250182
E-mail : officescc@dec.gov.pg
Website : www.dec.gov.pg

Date: 07th September, 2015
File: R.NML
AO: kmw

Charles Zha,
Vice President
Ramu NiCo Management Company,
Section 95, Lot 18, Modilon Road
P.O.Box 1229, **MADANG**, Madang Province

Dear Mr Zha,

**Subject: Approval of Final Operational Environment Management Plan
(OEMP) - Ramu NiCo Mine, Madang Province**

I acknowledge receipt of your letter addressed to Mr Wau dated 18th August, 2015 seeking long term approval of the OEMP for Ramu Nickel project.

In consideration of your request, I have noted the following developments since the Interim OEMP was approved by the Director of Environment in 2011.

1. The company has undertaken commissioning and ramping up to full production in the KBK mine, the pipeline and the Basamuk Refinery Operations for over two years now.
2. The Operations Marine Monitoring Program (OMMP) survey was carried out during 2013 by Ian Hargreaves & Associates of Australia, Independent Consultant. This survey was done in fulfillment of the permit conditions after almost 2 years of refinery and DSTP system operation. The work was done in various phases viz;
 - Coral Reef and Marine Fauna investigations done in March and April,
 - Upper Ocean Measurements – March and repeated in October
 - Deep Ocean Sampling for Marine Sediment Characterization, Deep Ocean Biota, Marine Water Quality, Sub surface plume survey and Acoustic seabed classification – October and November, 2013
 - Remote Operation vessel (ROV) inspection of sub-sea DSTP infrastructure – October, 2013
 - Final Report – June 2014



Remotely Operated Vehicle (ROV). Inspection of DSTP pipeline.

- No interruptions were reported on the DSTP pipeline system.
- No visible defects or anomalies observed
- DSTP pipeline's integrity is maintained.



- Marine survey covers major and important components of the marine ecology including

Fringing Coral Reef Transect

Shallow Water Fisheries

Deep water Fisheries

Sub-surface Plume survey

Upper Ocean Measurement

Marine Water Quality

Marine Sediment and Deep Ocean Biota

Bathymetry & Seabed Acoustic Classification



Basamuk Marine Testing



1. Fringing Coral Reef Transect
2. Fish & Molluscs Abundance, Diversity & Tissue Metal Content
3. Upper Ocean measurement
4. Marine Water Quality
5. Deep Ocean biota
6. Marine Sediment Acoustic seabed classification



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Navigating Global Markets

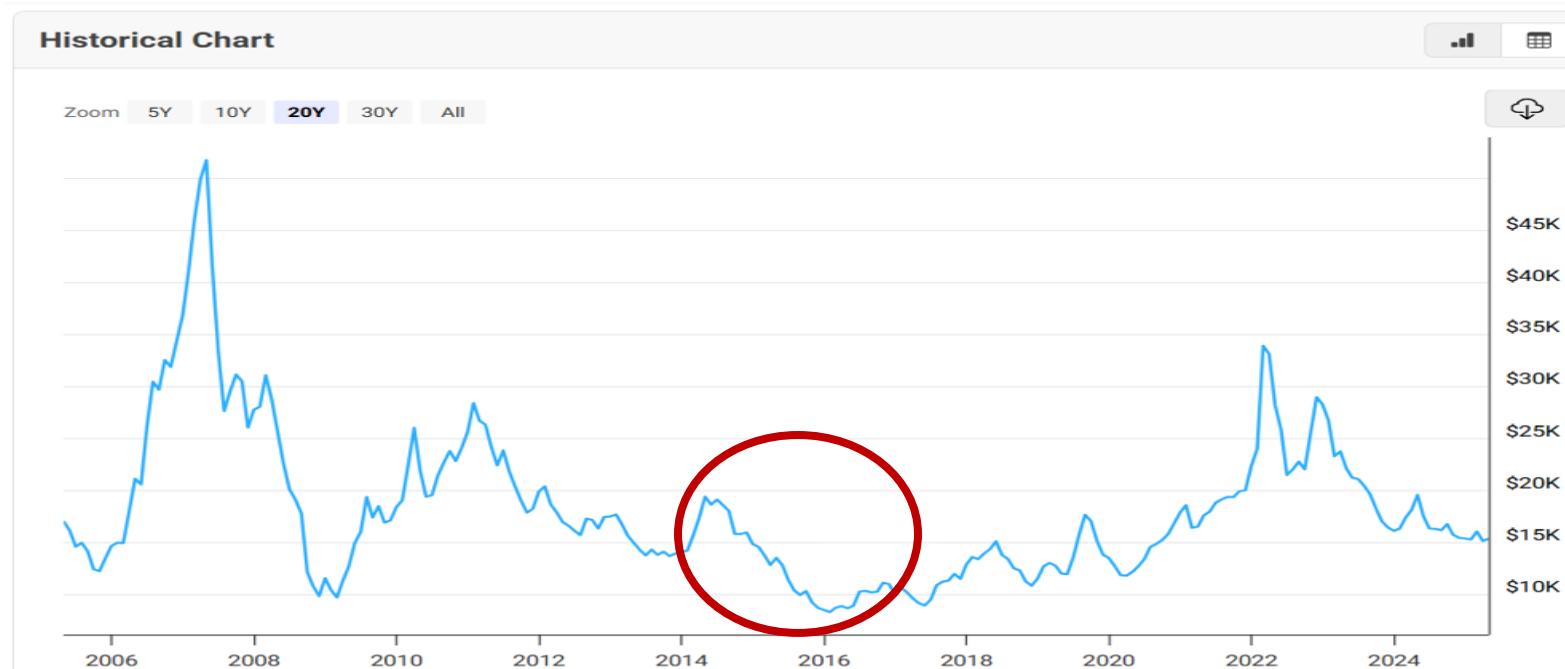
The global market has remained challenging due to volatility caused by Indonesian companies. They will continue to drive forces in the international markets. The Indonesian supply chain is the largest producer market at 50% in 2023.

The Ramu Nickel project's capital at start-up was USD 2.2 billion.



Navigating Global Markets

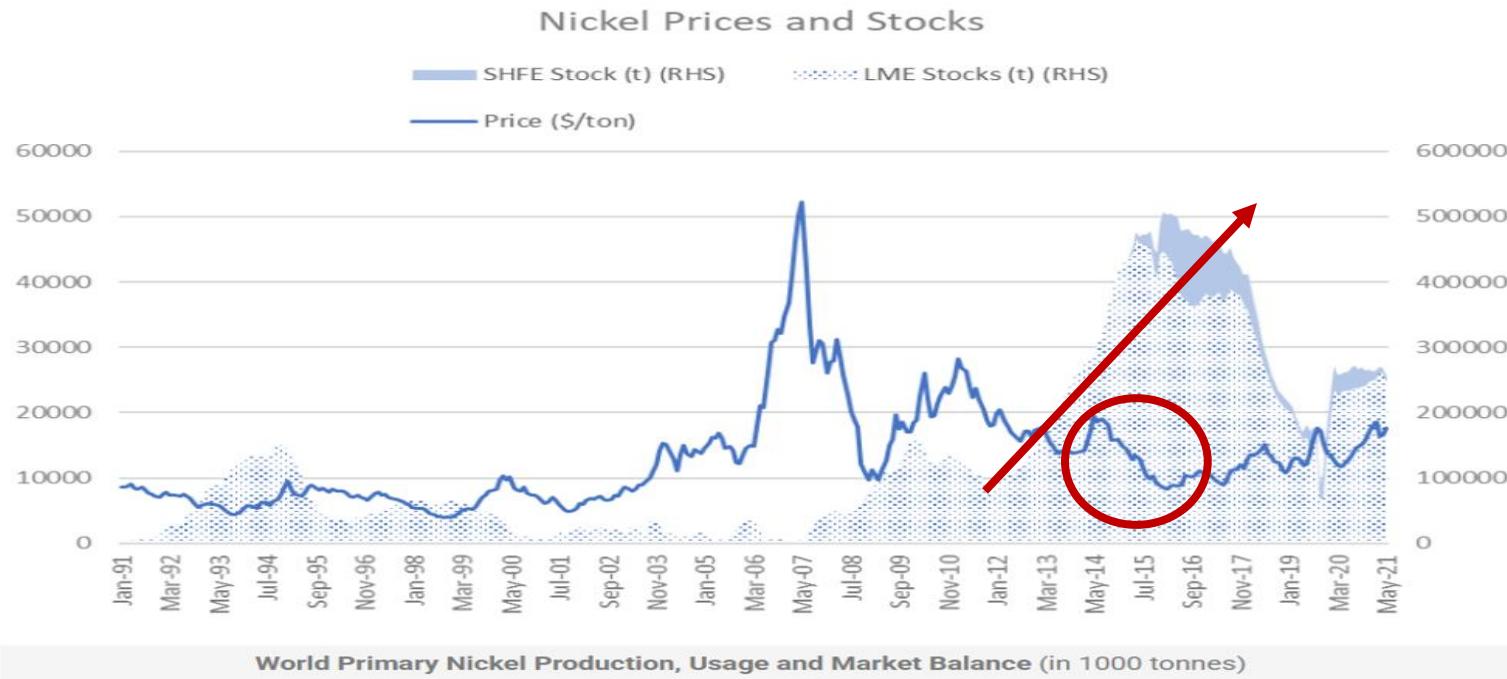
The Ramu Nickel Project's trajectory coincides with a volatile period in the global nickel market. **2012-2025**, the industry weathered unprecedented fluctuations in supply, demand, and pricing:





Navigating Global Markets

2016–2019: An export ban imposed by Indonesia stabilized market conditions, coupled with growing demand from the emerging electric vehicle (EV) industry. Prices rebounded to approximately \$14,000 per metric ton, signalling recovery.

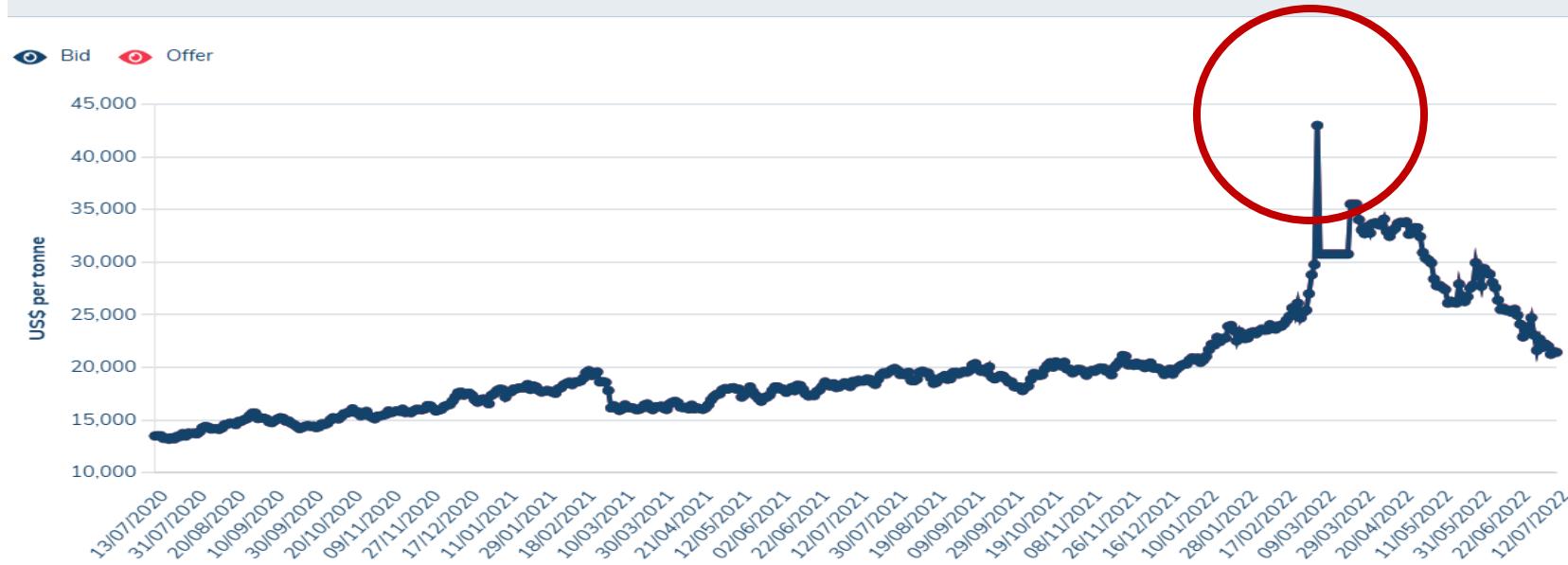




Navigating Global Markets

2020–2022: Amid the COVID-19 pandemic and subsequent geopolitical disruptions—including the Russia-Ukraine conflict—nickel hit record highs of \$48,000 per metric ton in 2022.

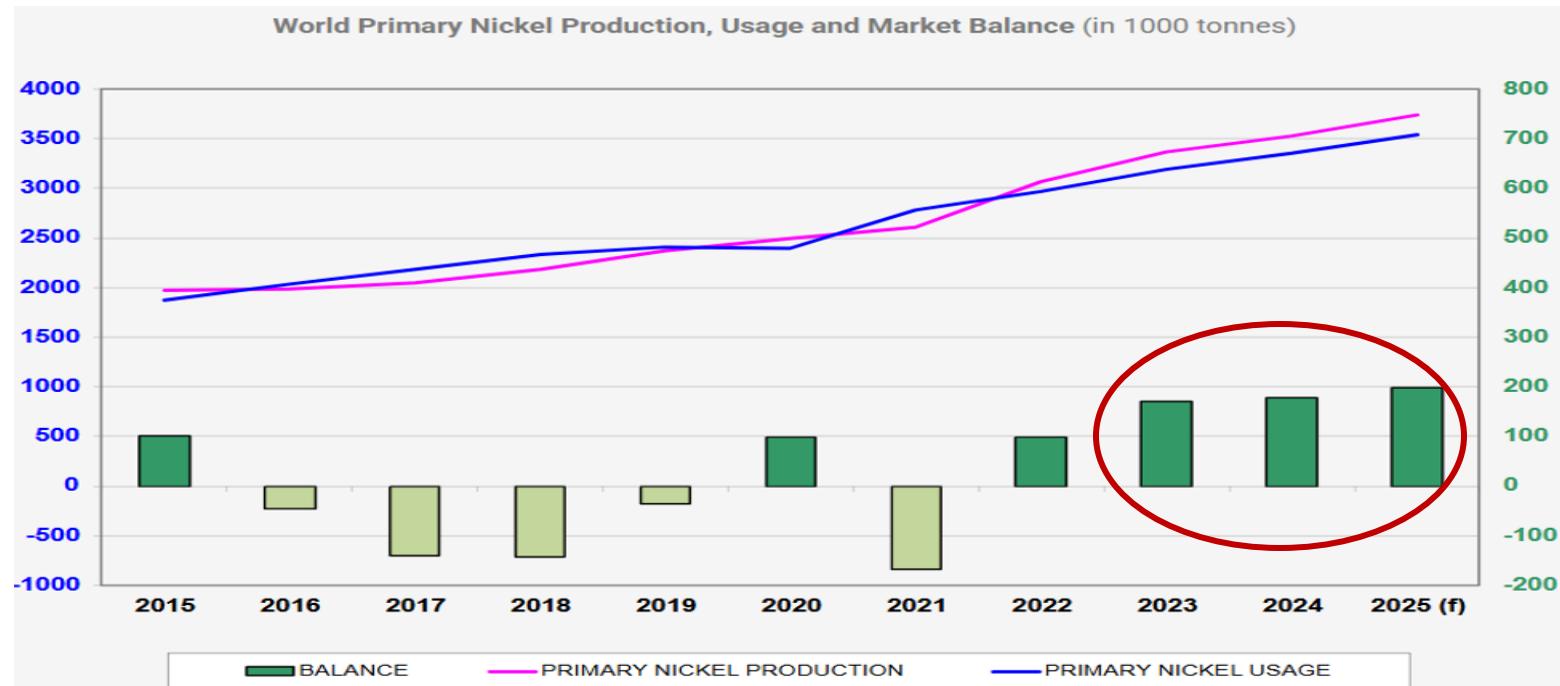
LME Nickel Official Prices graph





Navigating Global Markets

2023–2025: Relative stabilization has returned to the market, with projected prices ranging between \$15,000 and \$16,000 per metric ton. Key drivers include Indonesia's investment in refining and the EV sector's reliance on nickel-intensive batteries.





Conclusion

Building on a Legacy of Excellence

Looking ahead, Ramu NiCo Management (MCC) Limited is poised for even greater achievements. The company's Phase Two expansion will double production capacities, enable greater local economic benefits and boost government revenues. Currently, Ramu NiCo holds SML8, which is a 54 square kilometre of land size. Ramu NiCo is expected to make an application for a new Special Mining Lease to convert 56 square kilometres of land into a new SML.

Alongside these efforts, plans for establishing downstream processing facilities in collaboration with Kumul Minerals Holdings mark a turning point for Papua New Guinea.

By championing value-added production, the nation will reduce its reliance on raw exports and align itself with the global trend of industrial self-reliance.



Conclusion

Final Reflections

The Ramu Nickel Project is more than a mining enterprise; it is a symbol of progress, responsibility, and vision.

Ramu NiCo Management (MCC) Limited has redefined what is possible in a sector often criticized for its environmental and social costs. By aligning cutting-edge technology with inclusive community development and steadfast environmental stewardship, Ramu NiCo proves that mining can be harmonious with sustainability and human advancement.

With its roots firmly planted in Papua New Guinea's rich soil, Ramu NiCo continues to shine as a global leader.

Guided by the principles of collaboration, innovation, and purpose, its legacy reaches far beyond the confines of its mines. The story of Ramu NiCo is one of transformation—not just of metal but of lives, landscapes, and the promise of a brighter, more sustainable future.



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Conclusion

Thank You.