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3 January 2023

**ENGR. WILLIAM P. CUÑADO**

*Director*

Environmental Management Bureau

DENR – Central Office

DENR Compound, Visayas Avenue, Diliman, Quezon City

**Attention: ENGR. ESPERANZA SAJUL**  
*Chief, EIA*

**SUBJECT: Resubmission RE Request for Public Scoping (Long Point Nickel  
Project of Berong Nickel Corporation (BNC))**

**Dear Dir. Cuñado:**

This is to resubmit BNC's request for Public Scoping following the online technical meeting with the EIA team headed by Engr. Sajul last 15 December 2022. In the said meeting, it was agreed that BNC's Environmental Compliance Certificate (ECC) application for the proposed Long Point Nickel Laterite project at Sitio Long Point, Barangay Apurawan, Aborlan, Palawan will be treated as a new project and not an amendment to its existing ECC since it will be undertaken in another Municipality which is Aborlan, Quezon.

In view of this, BNC hereby resubmits its Project Description for Scoping with the additional documents noted in your Honorable Office letter dated 12 September 2022 and as agreed during the 15 December 2022 online technical meeting, to wit:

- 1) Proof of authority over the project area of 2,357.7583 hectares project area denominated as EPA-363-MIMAROPA
  - Copy of BNC's existing MGB Approved Mineral Production Sharing Agreement (MPSA) No. 235-2007-IVB
  - Copy of MGB Central Letter dated 29 November 2022 confirming that an amendment to MPSA No. 235-2007-IVB to include the area covered by EPA -363-MIMAROPA

- Copy of Contingent Liability and Rehabilitation Fund Steering Committee (CLRFSC) approved Final Mine Rehabilitation and/or Decommissioning Plan (FMRDP) of BNC
  - Summary of the approved FMRDP program
- 2) Copy of the MGB stamped received Final Exploration Report (FER)
    - Summary of the FER results incorporated in the Project Description
    - Mine plan
  - 3) Improve initial perception survey documentation


The aforementioned additional documents are reflected in the Updated Project Description and Summary of the Response Matrix. Also, attached is the draft Public Scoping PowerPoint Presentation.

Trust that these are in order and complete to proceed with the conduct of Public Scoping hopefully this January 2023.

For your review and approval.

Thank you.

Very truly yours,



**RAMON MANUEL R. BRIONES**  
*Vice President for Operations*



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# **PROJECT DESCRIPTION FOR SCOPING**

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**FOR ISSUANCE OF DENR-EMB'S ENVIRONMENTAL COMPLIANCE  
CERTIFICATE (ECC)**

## **BERONG NICKEL CORPORATION (BNC)**

**APURAWAN, ABORLAN, PALAWAN**



**JANUARY 2023**

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## PROJECT DESCRIPTION FOR SCOPING


Apurawan, Aborlan, Palawan

### 1. BASIC PROJECT INFORMATION

#### 1.1. Project Information

|                                      |   |  |
|--------------------------------------|---|--|
| Project Name                         | : | Long Point Nickel Project  |
| Nature of the Project                | : | Mining Exploration and Operations  |
| Proposed Extraction Rate             | : | 1,000,000 DMT per Annum  |
| Commodity                            | : | Nickel Laterite  |
| Location of Mine Site and Facilities | : | Sitio Long Point, Barangay Apurawan, Aborlan, Palawan  |
| Permit                               | : | SEP Clearance MEO-092921-055   |
| Authority over the Project Area      | : | <ol style="list-style-type: none"> <li>1. The Strategic Environmental Plan Clearance MEO-0929021-055 for Mining Explorations and Operations at Long Point, Apurawan, Aborlan was issued to Berong Nickel Corporation by Palawan Council for Sustainable Development on September 21, 2021.</li> <li>2. Berong Nickel Corporation was granted by the Mines and Geosciences Bureau on March 4, 2022 Authority to Verify Mineral (ATVM) at Sitio Long Point, Apurawan, Aborlan</li> </ol> <p>The issued ATVM is valid for 1 year instead of the Exploration Permit which is valid for 2 years. As per EO 79, ATVM is granted for mining applications provided that the area has no approved EP or MPSA.</p> |
| Total Project Area                   | : | 2,357.7583 hectares  |
| Mining Method                        | : | Surface Mining   |


#### 1.2. Proponent Profile

|  |   |  |
|--|---|--|
| Address                                  | : |  <p>Berong Nickel Corporation<br/>(BNC) 3F DMCI Homes<br/>Corporate Center, 1321<br/>Apolinario Street,<br/>Bgy. Bangkal, Makati City,<br/>Philippines 1233</p> |
| Authorized Representative/Contact Person | : | <p>Mr. Ramon Manuel R. Briones<br/>Vice President for Operations</p> <p>Engr. Marc Raymund Zamora<br/>Resident Mine Manager</p>  |

Mr. Jonathan L. Pilien  
Corporate Community Relations Head

Atty. Brenda D. Segovia  
Associate Legal Counsel  
Contact Details : Telephone: +63 2 823 7963; +63 2 831 2309  
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### 1.3. Preparer

Company Name :  EMG Environmental and Safety Management Consultancy Services  
Address : Gumamela Zone 5, Bgy. Sta. Monica, Puerto Princesa City, Palawan  
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| Team Members             | Role/Specialization   |
|--------------------------|---|
| Ramon M. Docto           | Environmental Scientist<br>Terrestrial Fauna Specialist<br>Forestry Carbon Sequestration Estimation and Emission Management Specialist                                  |
| Rodolfo O. Abalus Jr.    | Forest Resources Management Specialist<br>Watershed Management Specialist<br>Silviculture and Forest Influences Specialist<br>Natural Resources Conservation Specialist |
| Marlon U. Saludarez      | Environmental Scientist<br>Ecology and Biodiversity Specialist<br>Forest and Environmental Resource Management Specialist<br>Conservation Biologist                     |
| Emi Marjorie N. Gabinete | Safety and Environmental Risk Assessment Specialist   |
| Jandi G. Panolino        | Biodiversity Conservation Specialist<br>Water Quality Specialist<br>Terrestrial Fauna Specialist  |
| Sheryl Docto             | Environment Health Impact Assessment Specialist   |
| Jeffrey H. De Castro     | Environmental Scientist<br>Water Quality Specialist<br>Air Quality Specialist   |

#### **1.4. History on Mining Claim**

Berong Nickel Corporation was granted a SEP clearance MEP-092921-055 by the Palawan Council for Sustainable Development on September 29, 2021 for its application to explore and operate a nickel mine at Sitio Long Point, Bgy. Apurawan in Aborlan, Palawan. The area was identified to have high value minerals and majority of its soil is classified as lateritic, rocky and ultramafic.

Previously, the area was operated by EXCINCO, PALUMCO logging company, Atlas and Soriano Mining company. A quarry for chromite extraction was also part of the previous activities in the area.

On March 4, 2022 BNC was granted an Authority to Verify Minerals (ATVM) by the Mines and Geosciences Bureau Region 4B. The ATVM covers a period of 1 year and has several conditions for compliance of BNC.

BNC conducted drilling exploration works from April 23, 2022 to August 11, 2022. The estimated mineral resources were based from the data obtained during the drilling exploration which was certified by a Competent Person. Detail for the estimated mineral resources is reflected in the attached Final Exploration Report.

## **2. PROJECT DESCRIPTION**

### **2.1. Project Background**

Berong Nickel Corporation (BNC) is a Philippine Securities and Exchange Commission- registered joint venture company established in 2004 by Toledo Mining Corporation and Atlas Consolidated Mining and Development Corporation (ACMDC) of the Philippines. Berong Nickel Corporation has a management agreement with David M. Consunji Inc. – Mining Corporation (DMCI-MC), a wholly owned subsidiary engaged in ore and mineral mining and exploration to supervise and manage its activities especially on technical and financial aspects of mineral exploration and development of nickel laterite in BNC areas of interest.

The company was established to explore, develop, mine, operate, produce, utilize minerals and by-products in its properties. BNC holds a Philippine Department of Environment and Natural Resources/Mines and Geosciences Bureau-approved Mineral Production Sharing Agreement (MPSA-235-2007-IVB) over a 288-hectare area in Barangay Berong, Municipality of Quezon, Palawan Province, Philippines, including applications for Mineral Production Sharing Agreement/Exploration Permits (jointly with ACMDC and one with another associated company) in adjoining areas (Figure 1). It was issued an Environmental Compliance Certificate (ECC) No. 0507-008-301 by the DENR on 14 June 2006. Likewise, the Palawan Council for Sustainable Development (PCSD) issued SEP Clearance No. MEP-092921-055 to Berong Nickel Project on September 29, 2021.

The company started its progressive mine rehabilitation along with its mining operations in 2008. Currently, BNC has already rehabilitated and reforested a total area of four hundred thirty (430) hectares. These areas include the mine rehabilitation areas and mangrove areas. It has partnered with the DENR through the National Greening Program (NGP) and Mining Forest Program (MFP). Around a total of one million four hundred twenty-eight thousand two hundred three (1,428, 203) seedlings of various indigenous and other forest tree species have been planted in above mentioned areas and mechanisms. At present, BNC continuous the progressive rehabilitation of its mined-out areas whilst producing various indigenous and native forest tree species to be planted in the rehabilitation and reforestation sites it has prioritized.

Over the past 16 years, BNC has built a solid reputation as a model company for responsible mining operation in Palawan. BNC was issued a SEP clearance in September 29, 2021 to open “Long Point” which was covered by the original areas explored by ATLAS mining way back 1990’s. The area is a new project under the same entity, located at Barangay Apurawan, Municipality of Aborlan.

## **2.2. Project Location and Area**

The BNC's proposed project is located at Sitio Long Point of Barangay Apurawan, Aborlan, Palawan. The area lies on the western coast of the municipality (Figure 1). Barangay Apurawan is the lone host barangay for Sitio Long Point while Barangay Culandanum is the only neighboring barangay. It is bounded on the east by Puerto Princesa City, on the west-by-West Philippine Sea, on the southwest by the municipalities of Quezon and Narra. It can be reached by land through a very accessible road passing through Napsan Road which passes through from the east coast to west coast through the mountains and travels south along the western coastline of the island of Sitio Long Point. The road is approximately 71 kms. and travel time is by 1 ½ to 2 hours. It can also be travelled via pump boat.

The proposed project of BNC covers an estimated area of 2,357.7583 hectares (Figure 2). The regulated exploration and mining activities are bounded by geographical coordinates as described in Table 1.

Shown in Figure 3 is the aerial photo of the Long Point Nickel Project’s applied tenement area and its distant location from the host barangay, Apurawan in Aborlan. Majority of the activities in the area are located at the barangay site thus no business establishments, buildings and local institutions such as schools, churches, and hospitals will be displaced when the project operation starts.

## **2.3. Delineation of Impact Areas**

The pre-Environmental Impact Assessment (EIA) impact areas were determined based on the following criteria:

| <b>Primary Impact Areas</b>         | <b>Secondary Impact Areas</b>         |
|-------------------------------------|---------------------------------------|
| Barangay Apurawan, Aborlan, Palawan | Barangay Culandanum, Aborlan, Palawan |

### **2.3.1 Primary impact areas**

Barangay Apurawan in the municipality of Aborlan, province of Palawan is the barangay that hosts the proposed mining expansion area of BNC including ancillary facilities; thus, the primary impact area; and

### **2.3.2 Secondary impact areas**

Barangay Culandanum of the same municipality is an adjacent barangay identified as the secondary impact area.

Direct and indirect impact areas of the project are presented in Figure 4.

The potential environmental impact of the BNC Long Point Nickel Project to the nearest protected areas such as the Rasa Island Wildlife Sanctuary located in the municipality of Narra which is about 44.203635 kms., that of Palawan Flora, Fauna, and Watershed Reserve I and II which is 29.087937 kms., Puerto Princesa Subterranean River National Park (a Ramsar area) is 85.467003 kms., Malampaya Sound Protected Landscape and Seascape is about 160.222494 kms. and Mt. Mantalingahan Protected Landscape which is 74.48083 kms. is least likely due to their proximity. As presented in Figure 5, there is no Protected Area (PA) that will be affected within the 10-km radius.

More so on the rest of the remaining protected areas located in the province of Palawan to include the Ursula Island Bird Sanctuary in the south, Cleopatra Needle Critical Habitat, Katala Critical habitat, El Nido-Taytay Managed Resource Protected Area, Coron Island Protected Landscape and Seascape, and the Calauit Game Preserve and Wildlife Sanctuary in the north; and the Tubbataha Reefs Natural Park (a Ramsar site) situated offshore (eastern) of the province.

## **2.4. Project Rationale**

The Berong Nickel Corporation is a mining operation expansion over the areas originally explored by the ATLAS mining 3 decades ago in barangay Apurawan, Aborlan, Palawan. The lifting of the moratorium on new mining permits paved way for BNC to push through its interest in Long Point Nickel Project which aims to explore, develop and utilize the 2,357.7583 hectares and also support the government's thrust and policies toward sustainable economic recovery brought about by the pandemic.

The commodity to be mined is nickel laterite which is a product of an ultramafic material subjected to intense weathering and composed primarily of limonite and saprolite minerals at varying nickel content. The mining method is called strip/contour mining where the nickel laterite horizons are extracted from open excavations with a depth of 5 to 10 meters. The method employs several phases that include mine planning, survey, land clearing, overburden hauling, ore mining, and mine rehabilitation.

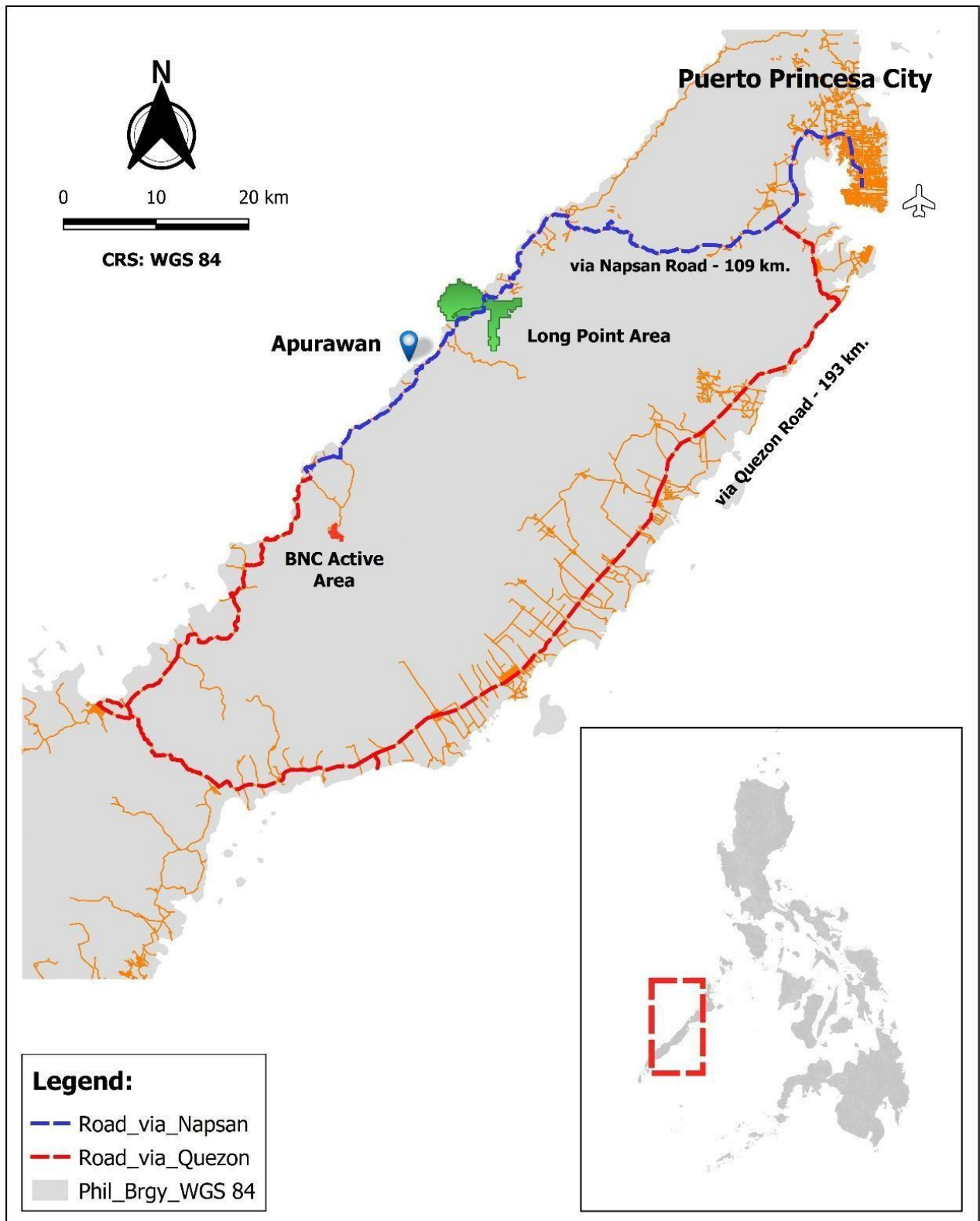


Figure 1. General location map of Bgy. Apurawan, Aborlan, Palawan.

**SKETCH PLAN**  
OF  
MINERAL PRODUCTION SHARING AGREEMENT  
APPLICATION

As prepared for

**BERONG NICKEL CORPORATION**

SITUATED IN THE

BARANGAY OF BERONG AND APORAWAN  
MUNICIPALITY OF QUEZON AND ABORLAN  
PROVINCE OF PALAWAN  
ISLAND OF PALAWAN

CONTAINING AN AREA OF 2,645.7583 HAS.

SCALE 1:50,000 M

PREPARED: DECEMBER 17, 2022

GEODETIC ENGINEER

REG. No.

PTR No.

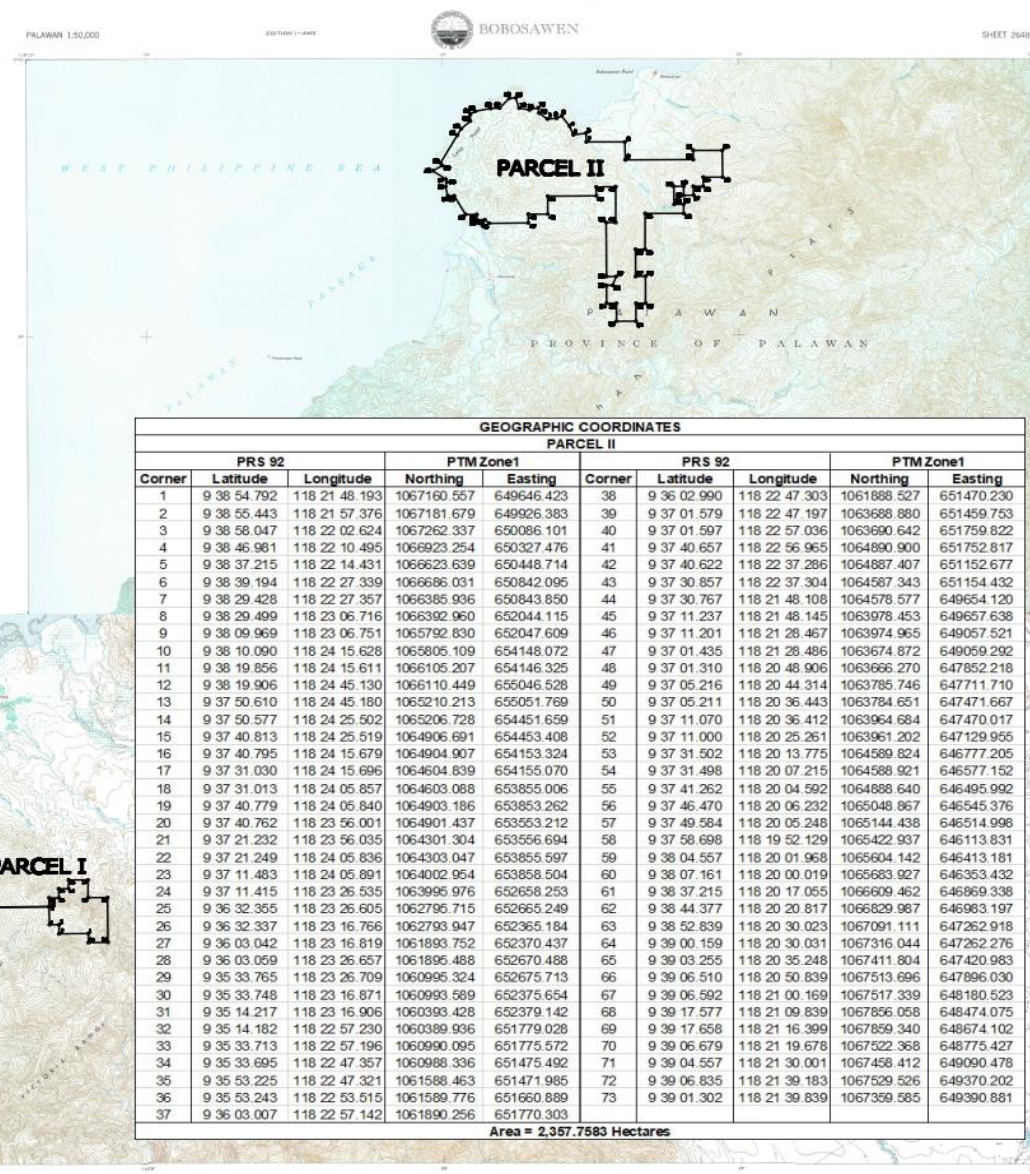


Figure 2. Area map/tenement plan of the proposed Long Point Nickel Project of BNC. Refer to Table 1 for Technical Description.



Figure 3. Aerial photo of the Long Point Nickel Project

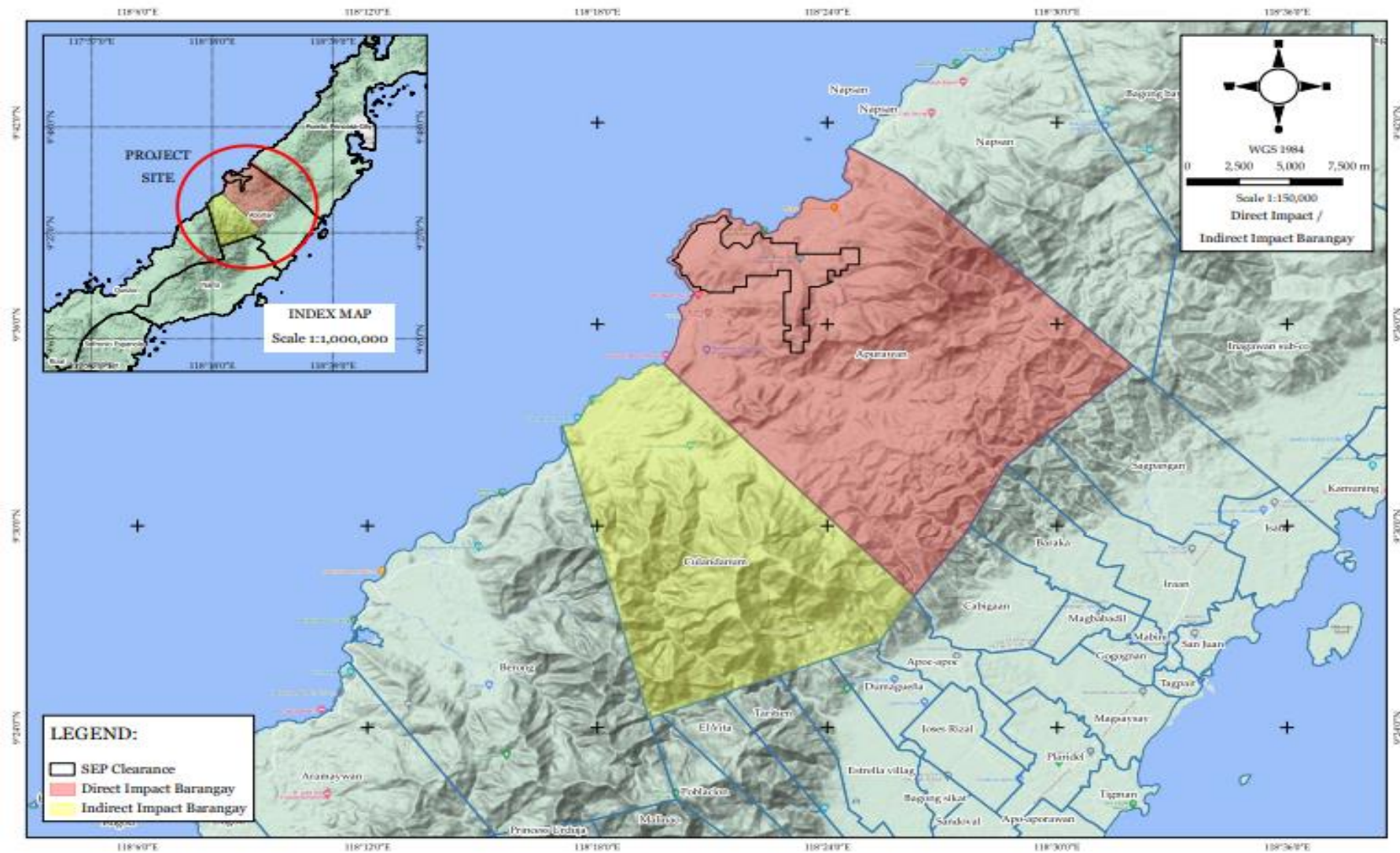


Figure 4. Direct and Indirect Impact Areas of Long Point Nickel Project

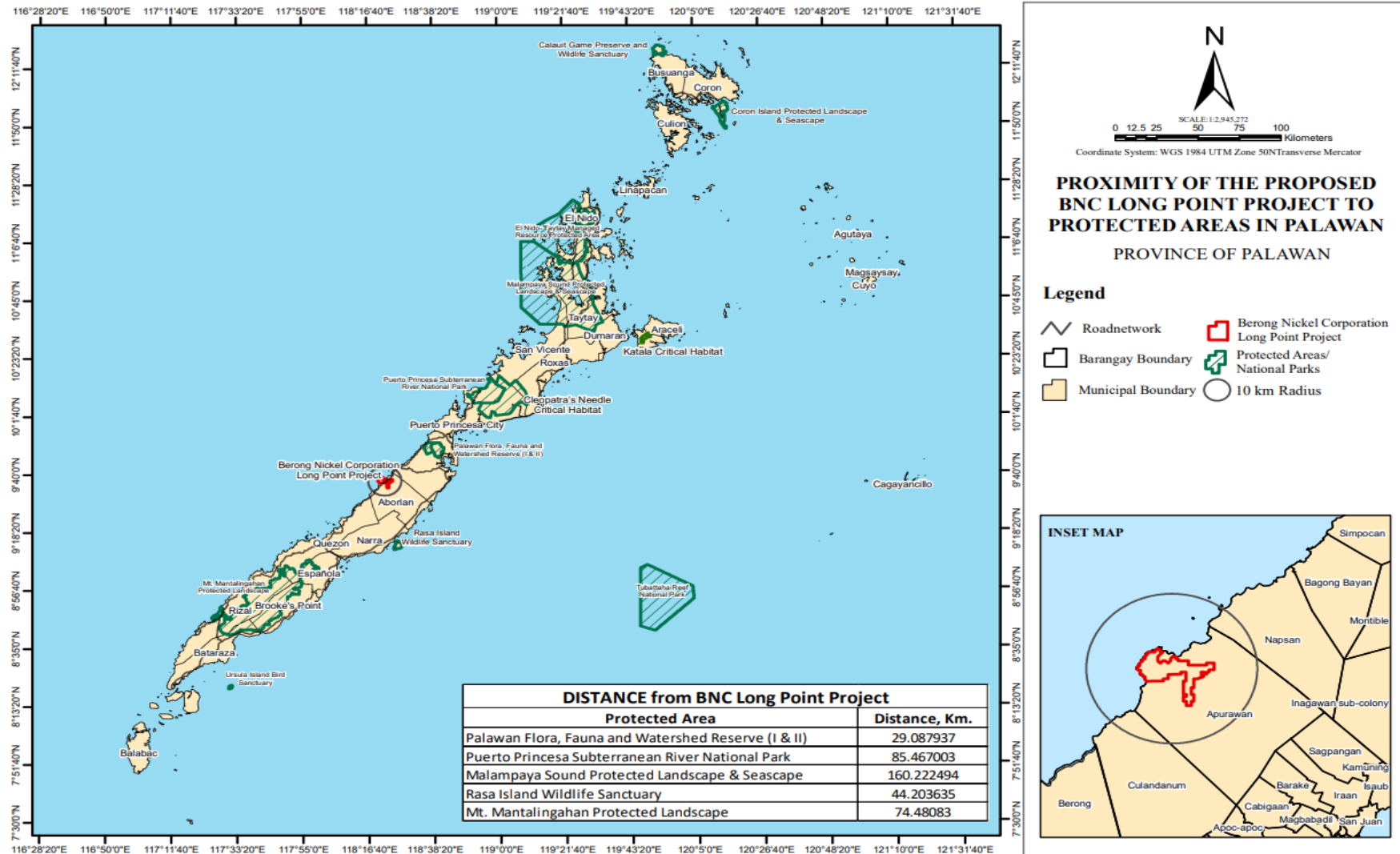


Figure 5. Proximity of the Proposed BNC Long Point Nickel Project to Protected Areas in Palawan. There is no protected area that will be affected within the 10-km radius.



Table 1. Technical Description of Long Point Nickel Project.

| Corner | Latitude | Longitude | Corner | Latitude | Longitude |
|--------|----------|-----------|--------|----------|-----------|
| 1      | 9.64239  | 118.368   | 42     | 9.59968  | 118.384   |
| 2      | 9.64296  | 118.368   | 43     | 9.59968  | 118.381   |
| 3      | 9.64365  | 118.368   | 44     | 9.61595  | 118.381   |
| 4      | 9.64577  | 118.370   | 45     | 9.61596  | 118.384   |
| 5      | 9.64577  | 118.372   | 46     | 9.62681  | 118.384   |
| 6      | 9.64502  | 118.373   | 47     | 9.62680  | 118.378   |
| 7      | 9.64306  | 118.373   | 48     | 9.62408  | 118.378   |
| 8      | 9.64307  | 118.376   | 49     | 9.62406  | 118.365   |
| 9      | 9.64035  | 118.376   | 50     | 9.61863  | 118.365   |
| 10     | 9.64036  | 118.381   | 51     | 9.61862  | 118.359   |
| 11     | 9.64037  | 118.387   | 52     | 9.61591  | 118.359   |
| 12     | 9.63495  | 118.387   | 53     | 9.61588  | 118.349   |
| 13     | 9.63498  | 118.406   | 54     | 9.61586  | 118.342   |
| 14     | 9.63769  | 118.406   | 55     | 9.61766  | 118.340   |
| 15     | 9.63771  | 118.414   | 56     | 9.62127  | 118.340   |
| 16     | 9.62957  | 118.414   | 57     | 9.62129  | 118.339   |
| 17     | 9.62596  | 118.409   | 58     | 9.62330  | 118.337   |
| 18     | 9.62685  | 118.409   | 59     | 9.62398  | 118.337   |
| 19     | 9.62685  | 118.406   | 60     | 9.62398  | 118.336   |
| 20     | 9.62684  | 118.406   | 61     | 9.62488  | 118.335   |
| 21     | 9.62413  | 118.403   | 62     | 9.62669  | 118.335   |
| 22     | 9.62684  | 118.403   | 63     | 9.62669  | 118.335   |
| 23     | 9.62683  | 118.400   | 64     | 9.62940  | 118.335   |
| 24     | 9.62141  | 118.400   | 65     | 9.62940  | 118.335   |
| 25     | 9.62142  | 118.403   | 66     | 9.62940  | 118.333   |
| 26     | 9.61984  | 118.399   | 67     | 9.63030  | 118.332   |
| 27     | 9.61984  | 118.398   | 68     | 9.63301  | 118.332   |
| 28     | 9.61869  | 118.397   | 69     | 9.63371  | 118.333   |
| 29     | 9.61868  | 118.392   | 70     | 9.63484  | 118.333   |
| 30     | 9.60781  | 118.392   | 71     | 9.63485  | 118.335   |
| 31     | 9.60783  | 118.389   | 72     | 9.63666  | 118.335   |
| 32     | 9.59969  | 118.389   | 73     | 9.64027  | 118.336   |
| 33     | 9.59970  | 118.392   | 74     | 9.64028  | 118.337   |
| 34     | 9.59156  | 118.392   | 75     | 9.64232  | 118.337   |
| 35     | 9.59156  | 118.389   | 76     | 9.64299  | 118.338   |
| 36     | 9.58613  | 118.389   | 77     | 9.64297  | 118.340   |
| 37     | 9.58612  | 118.384   | 78     | 9.64592  | 118.340   |
| 38     | 9.59155  | 118.384   | 79     | 9.64652  | 118.342   |
| 39     | 9.59154  | 118.381   | 80     | 9.64840  | 118.342   |
| 40     | 9.59697  | 118.381   | 81     | 9.64840  | 118.343   |
| 41     | 9.59697  | 118.384   | 82     | 9.65016  | 118.343   |

Table 1 continued...

| Corner | Latitude | Longitude | Corner | Latitude | Longitude |
|--------|----------|-----------|--------|----------|-----------|
| 83     | 9.65112  | 118.344   | 91     | 9.64574  | 118.354   |
| 84     | 9.65116  | 118.351   | 92     | 9.64031  | 118.354   |
| 85     | 9.65320  | 118.351   | 93     | 9.63760  | 118.357   |
| 86     | 9.65523  | 118.354   | 94     | 9.64032  | 118.359   |
| 87     | 9.65387  | 118.354   | 95     | 9.64033  | 118.362   |
| 88     | 9.65388  | 118.357   | 96     | 9.63762  | 118.365   |
| 89     | 9.65117  | 118.357   | 97     | 9.64034  | 118.368   |
| 90     | 9.65116  | 118.359   | 98     | 9.64224  | 118.368   |

Through the use of exploration data, mine plans will be generated to guide the operations team on the location of ore and the design of the open excavation. The plan takes into account the road base parameters, slopes, mining limit, location of stockpile, equipment, workforce, target output per period and other auxiliary support requirements to run the operation.

## 2.5 Project Economic Rationale

The operation of BNC in Long Point can spur socio-economic development to its host community as well as the neighboring barangays. The project will generate community development programs as required under the Philippine Mining Act of 1995. An annual plan was established to uplift the status quo of the communities directly and indirectly affected by the mining operation.

An amount, not less than 1.5% of the total operating cost of the company is paid yearly for educational expenses, livelihood, health, social services, information campaign, and the development of mining technology, in partnership with the local government unit of the impact barangay "Apurawan", and the neighboring barangay "Culandanum".

The BNC management's environmental policy is to implement a strategic environmental management and protection program that are intended to reduce and control the impacts of the operation. The company has adopted the concept of progressive rehabilitation where mined out areas are immediately rehabilitated to minimize footprint.

As part of BNC's goal to promote a safer working environment for all its employees, the company shall allocate an annual budget for program implementation. The core components of the program include safety administration, employee training, provision of personal protective equipment, emergency preparedness, and safety promotions.

The highest component is the leadership and administration which covers the hiring of safety practitioners, conduct of central safety meetings, toolbox meetings, and the labor cost of all employees of the safety and health department.

## 2.6 Project Site Consideration

### 2.6.1 Project Alternative

No project alternatives are seen as mining projects are site specific, mineral extraction can only be taken in areas where economic ore deposits occur. Unlike other natural resources, there is no opportunity to consider other alternative sites in mineral development and utilization projects. The only alternative is not to push through with the project.

### 2.6.2 Process Technology

There is no other method considered given this type of deposit other than the surface mining approach.

### 2.6.3 Resource utilization

No alternative sources of power, water and raw materials for project construction and operation. However, PALECO will be tapped for additional power sources in the near future.

### 2.6.4 Location of the project facilities/components

There is no alternative site for the project facilities/components as these are dictated by the considerations of feasibility, cost and efficiency.

## 2.7 Project Facilities and Infrastructures

The proposed mining operation of BNC at Long Point shall require the development of structures and other facilities that will support the operation in the mining area.

The following are the proposed facilities and infrastructures (Table 2 and 3) that will be established in Long Point. These ancillaries are covered by the issued Strategic Environmental Plan (SEP) Clearance.

Table 2. Proposed mine facilities and infrastructures/ancillaries.

| <b>Ancillaries</b>                    | <b>No. of Units</b> | <b>Area (ha.) Capacity</b> |
|---------------------------------------|---------------------|----------------------------|
| Mining Area A and B                   | 2                   | 200                        |
| Settling Pond Area A                  | 1                   | 3.72                       |
| Settling Pond Area B                  | 1                   | 3.72                       |
| Interceptor Canal                     | 2                   | 0.17                       |
| <b>Other Environmental Structures</b> |                     |                            |
| Nursery Area                          | 1                   | 3.46                       |
| Mine Camp                             | 1                   | 10.87                      |
| Stockyard                             | 1                   | 16.66                      |
| Pier                                  | 1                   | 1.92                       |
| Sanitary Landfill Area                | 1                   | 0.25                       |
| <b>Total</b>                          |                     | <b>240.77</b>              |

Table 3. Existing Support Facilities.

| Ancillaries              | No. of Units | Area (has.) Capacity   |
|--------------------------|--------------|--|
| Access road (rough road) |              | No definite area. Existing access road will be utilized  |
| Pier                     |              | Finalization on the details on the pier is still on process  |
| Helipad                  |              | No plan to utilize as of the moment but will include in the list in case there is a need for its establishment in the future |

All employees residing outside the nearest community “Apurawan” will be provided with in-house accommodation. The following facilities (Table 4) present in Berong, will be replicated at the proposed Apurawan camp.

Table 4. Mine in-house accommodation facilities.

| List of Existing Facilities | No. of Units | Area (m <sup>2</sup> ) |
|-----------------------------|--------------|------------------------|
| Assay Laboratory            | 1            | 603                    |
| Badminton Court             | 2            | 262                    |
| Basketball Court            | 1            | 888                    |
| BNC Clinic                  | 1            | 120                    |
| BNC Heights                 | 1            | 92                     |
| Bunkhouse                   | 1            | 208                    |
| Electrical Room             | 1            | 28                     |
| Engineering Office          | 1            | 185                    |
| Envi Shed                   | 1            | 182                    |
| Fabrication Building        | 1            | 203                    |
| Gas Storage Facility        | 1            | 136                    |
| Genset Facility             | 1            | 82                     |
| Guard House                 | 5            | 75                     |
| Gym Building                | 1            | 56                     |
| Houston Building            | 1            | 87                     |
| In-house Quarter            | 22           | 330                    |
| IT Building                 | 1            | 33                     |
| Laundry House               | 1            | 48                     |
| Mansion Building            | 1            | 140                    |
| Mechanical Office           | 1            | 454                    |
| Mechanical Stockroom        | 1            | 258                    |
| Mess hall                   | 1            | 188                    |
| Mine Look-Out               | 1            | 50                     |
| Orientation Building        | 2            | 102                    |
| Paint house                 | 1            | 34                     |
| Palace Building             | 1            | 75                     |
| Pier Isolation Room         | 1            | 15                     |
| Ponderosa Building          | 1            | 112                    |

Cont. Table 4.

| List of Existing Facilities | No. of Units | Area (m <sup>2</sup> ) |
|-----------------------------|--------------|------------------------|
| Recreational Room           | 1            | 144                    |
| Sampling Station            | 2            | 109                    |
| SDMP Stockroom              | 1            | 39                     |
| Warehouse Annex             | 1            | 119                    |
| Warehouse Building          | 1            | 539                    |
| Wash pad                    | 1            | 135                    |

### 2.7.1 Power and Water Supply Facilities

The company will install new sets of electric generators which will supply the electricity requirements of the project. This will be utilized for offices, mechanical shops, laboratory and recreational facilities for 24 hours' day and 7 days a week. Once operational, the projected annual power consumption of BNC LPP is 430,936.90 kwh. In areas where electrical connection is not feasible, or in case of power outage, a 360 and 303 kVa generator set will be utilized to provide the electrical power requirements for the mine camp and other facilities. In order to mitigate the dust generation at the haul roads, BNC LPP shall utilize trucks for road watering. An estimated rate of 52,129,000 L/day is required to water the haul road within the mining area. In terms of domestic water supply for the offices, it will be sourced from rivers, springs or creeks. An estimated 4,361,000 L/day shall be consumed by the office workers.

The potable water requirement of the project will be met through the construction of an in- house purification system which will clean the water from bored water wells. The system to be installed will produce 2,200 liters of purified water per day through reverse osmosis method. Water for dust control and nursery maintenance, is sourced out from newly constructed settling ponds.

### 2.7.2 Wastes and Wastewater Generation

Industrial wastes such as heavy equipment parts and worn-out wheels are expected to be generated during the construction and operation phase.

The project is also expected to generate hazardous wastes such as used batteries, used oil and grease from heavy equipment, fluorescent tubes and bulbs, acid wastes from assay laboratory. Hazardous wastes management plan in accordance with RA 6969 will be implemented. These hazardous wastes shall be properly stored and labelled in a designated storage area prior to hauling, treatment and disposal by a DENR-accredited waste transporter and treater.

Domestic wastes from the offices and other facilities shall be collected by the local garbage collector.

For wastewater, an annual consumption of 1,713,947,000 L will be generated based on domestic and road watering consumption.

Residual wastes which are considered non-hazardous industrial wastes generated at the mine site will be disposed in the sanitary landfill. Waste disposal will be done by stacking to allow wastes to decay under controlled conditions and backfilling with soil. Sanitary landfill will be designed adopting best environmental practices to reduce groundwater and soil contamination.

A summary of estimated waste and waste water generation is presented in Table 5.

Table 5. Estimated waste and waste water generation.

| Type of Waste                  | Quantity   |
|--------------------------------|------------|
| Domestic wastes                | 18.94 tons |
| Hazardous wastes               |            |
| 1. Used oil                    | 8.600 tons |
| 2. Fluorescent tubes and bulbs | 0.100 tons |
| 3. Used batteries              | 2.482 tons |

### 2.7.3 Pollution Control Measures

#### 2.7.3.1 Settling Pond and Perimeter Drainage

Settling ponds and perimeter drainage shall be installed at the mine pit and in stockyard to prevent silt laden run-off from going directly to bodies of water such as rivers and sea. Figure 6 shows the proposed settling pond for the BNC.

#### 2.7.3.2 Oil and Wastewater Separator Pond

The engineering workshop where equipment repairs will be handled shall be equipped with an oil and water separator to prevent oil from contaminating the nearby body of water.

## 2.8 Project Technology

### 2.8.1 Mining Operations Process

Similar to its ore extraction in Berong, Quezon, Palawan, the project will practice the surface contour mining method. The simplified process flow is presented in Figure 6. The sequence of mining operation is as follows:

- Ground clearing and topsoil removal
- Ore extraction and bench forming
- Progressive Rehabilitation
- Ore stockpiling and solar drying
- Barge loading at causeway
- Ship loading into bulk ore carrier

### 2.8.2 Pollution Control and Waste Management System

#### 2.8.2.1 Solid Wastes Management System

will adapt with the existing Solid Waste Management Program (SWMP) similar to what is implemented at BNC site or may opt to formulate its own program as applicable to the area. The program will include the following:

1. Information dissemination to all site personnel on the importance of proper waste segregation, handling, storage and disposal of solid wastes.
2. Proper labelling of all waste bins
3. Regular collection and disposal of wastes
4. Provision of a materials recovery facility

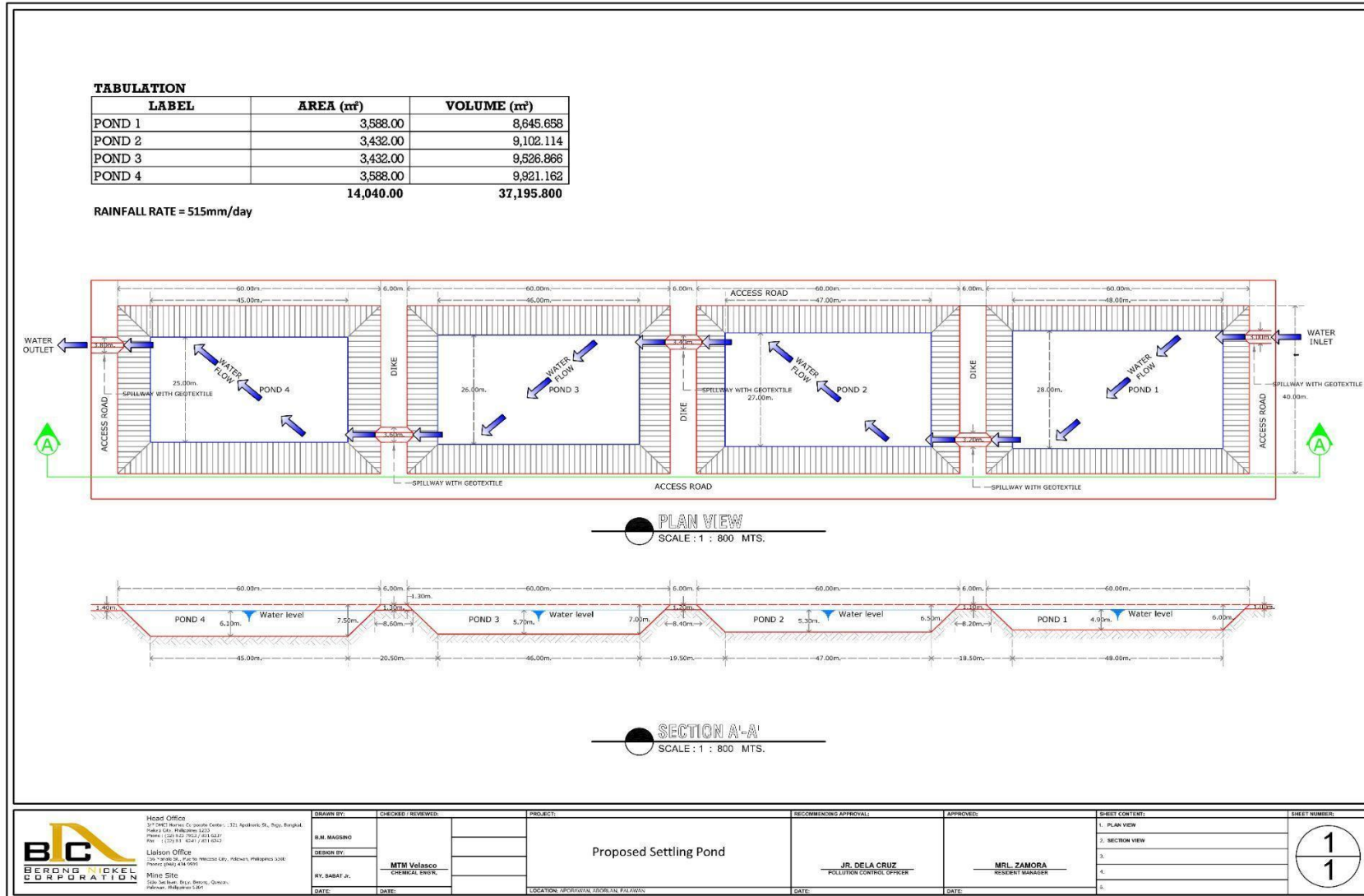


Figure 6. Proposed settling pond for the BNC.

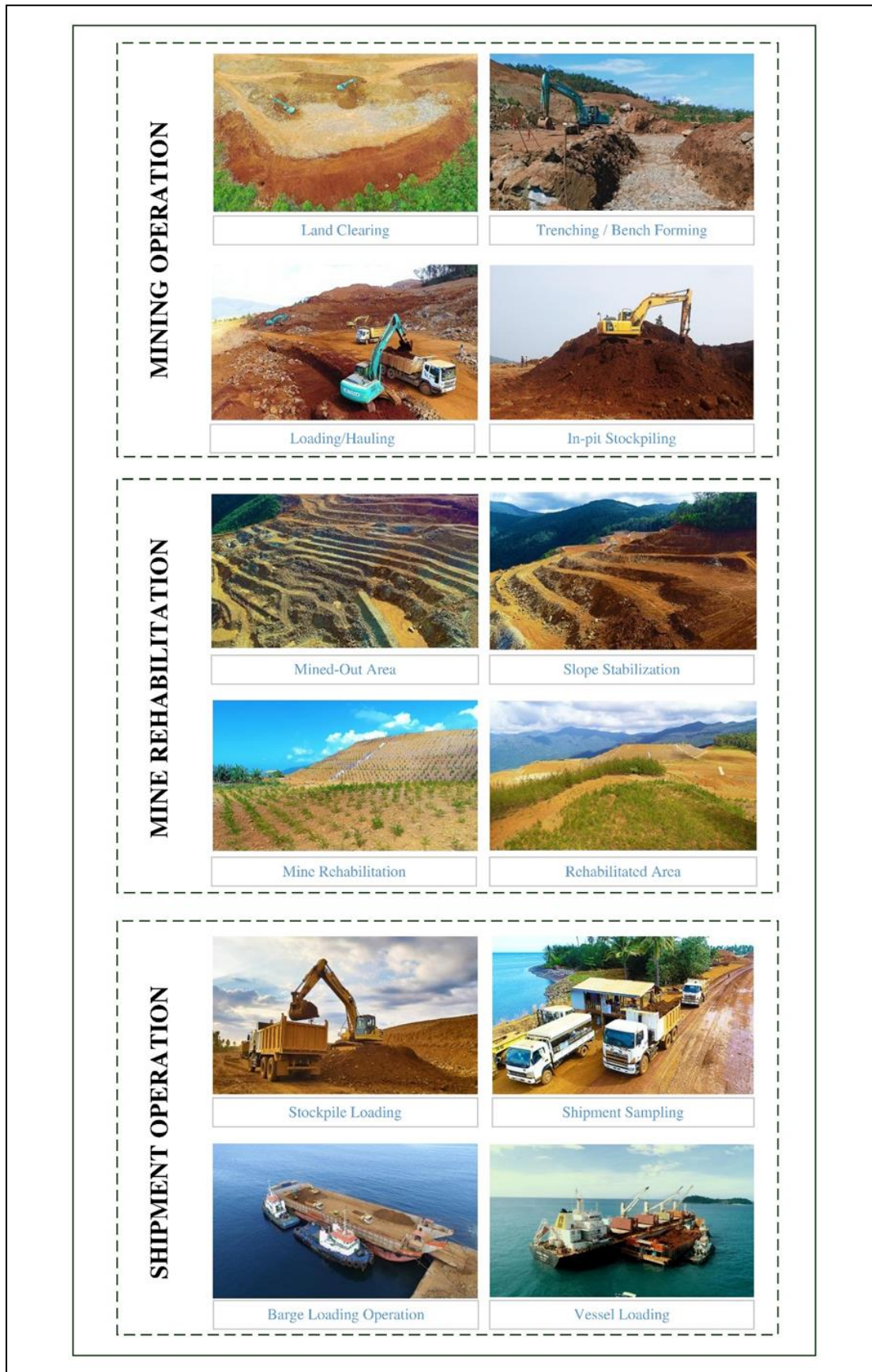


Figure 7. Mining operation process flow.

### **2.8.2.2 Wastewater Management System**

For domestic wastes from the mine camp, septic tanks will be installed. For operations area, pollution control measures such as construction of Settling ponds and drainage canals along the mine pit areas and stockyard. Designated area where heavy equipment repairs are conducted, an oil and wastewater separator shall be constructed.

## **2.9 Information Education Campaign and Stakeholders Perception**

### **2.9.1 Information Education Campaign**

The IEC was conducted on February 18, 2022 at Sitio Sto. Nino, Aporawan, Aborlan, Palawan. The presenters were Engr. Renato Sabat - BNC Mine Planning Engineer, Dr. Ramon Docto - EIA Team Leader, and Dr. Rodolfo Abalus, Jr. - EIA co-team Leader.

Attendees were stakeholders representing the Municipal Planning Development Office, Municipal Agriculture Office, Academe (Palawan State University, Western Philippines University), Officials of barangays Culandanum and Aporawan, Palawan Council for Sustainable Development, Berong Nickel Corporation, and the Sangguniang Kabataan of barangay of Aporawan.

The LGU Aborlan representatives led by Mayor Celsa Adier and Sangguniang Bayan Member Alex Pedro Peneyra were present and expressed their strong support to the proposed Long Point Mining Project.

The below matrix (Table 6) shows the invited stakeholders as participants to the conducted IEC, the issues raised including suggestions, and the responses provided.

### **2.9.2 Stakeholders' Perception**

#### **2.9.2.1 Primary Impact Area: Barangay Aporawan**

The perceptions of the primary impact area stakeholders were assessed in terms of their level of awareness and the project's effects on the community. Regarding the level of awareness, 13% of the stakeholders are fully aware, 13% are aware, 25% are moderately aware, 25% have low awareness, and 25% are unaware. The stakeholders' awareness of the project was affected by the conduct of IEC, RBA, and ECAN board drafting of project endorsement, while some were influenced by human sources and neighbors.

The project's effects on the community were evaluated based on the economic/livelihood, social, environmental, agricultural and resettlement. For the

economic/livelihood and social effects, 88% of the stakeholders are strongly agree and 12% are agree on the positive impacts due to the potential livelihood opportunities, establishment of infrastructures and projects, scholarship opportunities, and better access to internet services. For the environmental

effects, 12% are strongly agree and 88% are agree with suggestions of increasing public awareness and monitoring system to ensure the safety and cleanliness of air and water, and for protection and conservation of biodiversity and soil. As for the project's impact on agriculture, 12% stakeholders strongly agree, 76% agree, and 12% disagree. The disagreement is based on the perceived project's effect on water and soil. Meanwhile, 24% are strongly agree and 76% are agree in terms of resettlement.

#### **2.9.2.2 Secondary Impact Area: Barangay Culandanum**

The perceptions of the secondary impact area stakeholders in terms of awareness recorded that 8% are fully aware, 23% are aware, 31% are moderately aware, 23% have low awareness, and 15% are unaware. The stakeholders' awareness of the project was affected and influenced by the conduct of IEC, meetings attended, human sources, and BNC personnel.

The project's effects assessed on the community were based on the economic/livelihood, social, environmental, agricultural and resettlement. For the economic effects, 50% of the stakeholders are strongly agree, 42% are agree, while 8% are disagree. The positive perceived economic effects include livelihood and employment opportunities, higher market opportunities for agricultural products, the establishment of infrastructure, and an increased number of investors. Some perceived negative effects are also recorded such as slight competition with regard to job-seeking and an increase in prices of commodities due to high demand. Meanwhile, scholarship opportunities, provision of emergency response, equipment, facilities, materials, donations to schools through projects, and donation of health-related equipment and infrastructure are the perceived social effects, with 33% of stakeholders strongly agreeing and 66% agreeing. For the environmental effects, 41% are strongly agree, 41% are disagree, while 18% are uncertain with suggestions of strengthening and intensifying the greening of the barren or open lands through reforestation and agroforestry, and constant monitoring of air and water quality. As for the project's impact on agriculture, 92% of stakeholders agree, while 8% are uncertain. In terms of resettlement, 100% are agree for they believed that there is a resettlement area for the displaced families.

Table 6. Issues raised and responses during the conduct of IEC for the proposed project.

| LGUs covered by IEC  | Issues Raised/Suggestions Provided  | Proponent's Response  |
|--|---|---|
| <p>LGU Aborlan</p> <ul style="list-style-type: none"> <li>➤ Municipal Mayor</li> <li>➤ Sangguniang Bayan Member</li> <li>➤ Municipal Planning and Development Office</li> <li>➤ Municipal Agriculture</li> </ul> | <p>Mr. Pedroso: Clarification on the assessment/inventory of indigenous and endangered species in the area.</p>   | <p>Dr. Abalus (EIA Co-Team Leader): Flora and Fauna Assessment was conducted in the proposed Long Point mining area through Rapid Biodiversity Assessment (RBA) last October to December 2021.</p> <p>Dr. Docto (EIA Team Leader): Recommended that the trees to be planted during mine rehabilitation should be of species native to the area to mimic the initial condition of the forest.</p> <p>He suggested that the number of trees to be planted must have carbon sequestration capacity equating the expected emissions during mine life.</p> <p>SB Peneyra: Informed the audience that a portion of the proposed project area is reserved as a marine sanctuary and is considered during the planning process.</p> |
| <p>Brgy. Culandandum</p> <ul style="list-style-type: none"> <li>➤ Brgy. Captain</li> </ul>   | <p>Kgd. Balladares: Asked for further explanation on the shipment procedure of the products from mining.</p> <p>On the remediation measures, the company will engage to address the loss of forest products such as honey and medicine.</p> | <p>Engr. Sabat (Mine Planning Engr.): Products transport will follow the path where it is best suited and avoiding sensitive environmental features.</p> <p>SB Peneyra: Announced that the municipality has already designated an area of 6,000 hectares to augment the livelihood opportunity for their residents.</p>   |
| <p>Brgy. Apurawan</p> <ul style="list-style-type: none"> <li>➤ Brgy. Kagawad (6)</li> </ul>  | <p>Kgd. Gila: Request for a visit/tour at the mine site</p>   | <p>Ms. Arquio (ComRel Officer): Said that the company has already received the officials' previous request on the mine tour but was</p>   |

|  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>➤ Brgy. Secretary</li> <li>➤ SK Chairman</li> </ul> | <p>operated by BNC at Brgy. Berong to make sure that the good practices presented to them are what happens on actual.</p>      | <p>withheld due to pandemic. The company will notify Kgd. Balladares when the site visit will proceed.</p>   |
|  | <p>Kgd. Pandinio: Reminded that BNC should ensure that the environmental management presented should really be implemented</p> | <p>Dr. Docto: Emphasized solutions must be formulated to the anticipated negative impacts of every activity.</p>   |
|  | <p>Employment</p>  | <p>Engr. Sabat: He also assured that the company implements "locals first" policy during the hiring of manpower.</p> <p>SB. Peneyra also informed the audience that the municipality has an office which is dedicated to aid the employment of their municipal constituents. He cited that the municipality has tapped the services of TESDA for the upgrading of technical skills and requested from BNC for heavy equipment which was used during the skills training.</p> |

Table 7. Basis for selection of sector as a stakeholder of the project.

| Potential Impact Areas <sup>1</sup> |   |            | Basis for selection of sector as a stakeholder of the project  | Sectors/Sub-sectors Identified by Proponent to be Likely Stakeholders of the Project  | Specific Organizations/Entities Likely to be Invited to IEC/Site Scoping as Representing the Sectoral Stakeholders   |
|-------------------------------------|---|------------|--|---|--|
| A                                   | Direct Impact Area (e.g. barangays within the project area) |            |  |   |  |
|                                     | 1   | Apurawan   | a) LGU is a “must” invitee due to its direct political jurisdiction over the area.<br><br>b) Project poses concerns to academic-related activities due to mining operations.<br><br>c) Sectors livelihood source, workforce, and profitability may be threatened by the project.<br><br>d) Sectors livelihood source, agricultural production, and income may be affected by the project. Entities will be physically displaced by project construction and operations.<br><br>e) Poses threat to environmental resources, health, and resettlement. | a) Barangay LGU<br><br>b) Academe<br><br>c) Subsector (Business)<br><br>d) Subsector (Agriculture)<br><br>e) Subsector (Private Organization/NGOs/IP) | a) Barangay captain and councilors<br><br>b) Representative from elementary and secondary school<br><br>c) Representative from business organization<br><br>d) Representative from agricultural organization<br><br>d) Representative from private organization/NGO/IP |
|                                     | 2   | Culandanum | a) LGU is a “must” invitee due to its direct political jurisdiction over the area.   | a) Barangay LGU   | a) Barangay captain and councilors   |

|          |   |         |   |   |   |
|----------|---|---------|---|---|---|
|          |   |         | <p>b) Project poses concerns to academic-related activities due to mining operations.</p> <p>c) Sectors livelihood source, workforce, and profitability may be threatened by the project.</p> <p>d) Sectors livelihood source, agricultural production, and income may be affected by the project. Entities will be physically displaced by project construction and operations.</p> <p>e) Poses threat to environmental resources, health, and resettlement.</p> | <p>b) Academe</p> <p>c) Subsector (Business)</p> <p>d) Subsector (Agriculture)</p> <p>e) Subsector (Private Organization/NGOs/IP)</p> | <p>b) Representative from elementary and secondary school</p> <p>c) Representative from business organization</p> <p>d) Representative from agricultural organization</p> <p>e) Representative from private organization/NGO/IP</p> |
| <b>B</b> | LGU with political jurisdiction over the project (over than the barangays listed in A)  |         |   |   |   |
|          | 1   | Aborlan | a) LGU with political jurisdiction over the project   | a) LGU (MPDO, MAO, and MENRO)   | a) Municipal mayor and representative from the following offices: MPDO, MAO, and MENRO  |
|          | 2   | Palawan |   |   |   |
| <b>C</b> | Other evident of pre-identified areas of potential impact (may be candidate for Indirect Impact Areas, subject to EIA findings) |         |   |   |   |
|          |   |         |   |   |   |

## 2.10 Project Timeframe, Cost and Duration

### 2.10.1 Project size

The total project area is approximately 2,357.7583 hectares subject to inclusion to the existing MPSA of 288 hectares. See attached site development plan for the specific facilities required with corresponding hectarage of the area.

### 2.10.2 Mineral Resource

The exploration program is set to quantify at least 10 Million DMT of mineable nickel ore reserves, enough to sustain economical mining operation for 10 years at an extraction rate of 1 Million DMT per annum. This can increase through a detailed exploration program scheduled in the entire applied area.

### 2.10.3 Production Rate

The initial production rate is set at 1 Million dry metric tons of nickel laterite per annum. However, this can increase depending on the results of the detailed exploration program (for availability of reserves) and the foregoing economic conditions i.e., demand in the world market for the target commodity.

Table 8. Components of the Proposed Mining Operations.

| Component                                 | Details of the Proposed Mining Operations   |
|---|---|
| SEP Clearance no. MEP-092921-055          | 2,357.7583 has.   |
| Mining area                               | 200 has., progressively.  |
| Project area                              | 288 has   |
| Projected Ave. Annual Production Capacity | 1,000,000 DMT per Annum, initially.   |
| Method of Ore Extraction                  | Surface Mining  |
| No. of stockyard                          | One (1) lot at 20 hectares  |
| Ave. number of ore shipments per year     | 30 shipments per year, initially  |
| Power requirement                         | Source: Power Generators<br>Annual requirement: 500,000 kWh<br>Back-up power source:                      |
| Water requirement                         | Source: Deep well<br>Requirement: 600,000 m <sup>3</sup>  |
| Manpower requirements                     | Exploration phase: 200 personnel<br>Construction phase: 200 personnel<br>Operation phase: 2,000 personnel |
| Pollution Control Measure                 | An approximate of 40,000 m <sup>3</sup> per settling pond with perimeter drainage canal                   |
| Proposed capital investment cost          | Php 847,000,000.00  |

### 2.11 Project Investment Cost

The BNC requires an investment totaling to EIGHT HUNDRED MILLION PESOS (PhP 847,000,000.00). that includes Equipment and Machineries, Camp Facilities, Environmental Measures, Mineral Exploration and Stockyard and Development.

## 2.12 Projected Timeframe and Project Phases

The projected timeline of the different project phases is shown in Figure 8. At present, the Project is in the exploration stage which includes semi-detailed geo-mapping, topographic survey and detailed drilling and the preparation of the Final Exploration Report. Final Exploration Report is underway while the Project Description is being prepared. This will be submitted to DENR EMB as soon as it is available tentatively October 2022. Environmental Impact Assessment is in its early stage.

## 2.13 Preliminary Identification of Key Environmental Impacts

To manage the potential environmental impacts of the Nickel Project, an Environmental Management Plan (EMP) will be prepared. The EMP is devised to minimize the adverse impacts of the project and enumerate various steps to be taken to protect the environment. The initial key environmental impacts identified and the corresponding measures are presented in Table 9.

Table 9. Initial Environmental Management Plan

| Environmental Component | Environmental Impacts  | Management and Mitigating Measures  |
|-------------------------|--|---|
| LAND                    | <ul style="list-style-type: none"> <li>➤ Stripping of in-situ soil resources in mining disturbance areas</li> <li>➤ Alteration of physical and chemical soil properties</li> <li>➤ Alteration of soil structure</li> </ul> | <ul style="list-style-type: none"> <li>➤ Stripping of soil shall be done in phases according to the approved mine plan</li> <li>➤ Top soil shall be stored in a designated stockpile accessible for re-use</li> </ul>   |
|                         | <ul style="list-style-type: none"> <li>➤ Soil erosion and sediment movement</li> <li>➤ Disruption of natural drainage patterns</li> <li>➤ Landslide</li> <li>➤ Rock fall</li> <li>➤ Mud/debris flow</li> </ul>             | <ul style="list-style-type: none"> <li>➤ Provide self-sustaining vegetation cover</li> <li>➤ Use of biological or mechanical erosion control measures such as coco mats, germination blankets or construct retaining walls along the slopes of the access</li> <li>➤ Install diversion channels before the construction areas to divert storm water run-off from draining through the open areas or towards the siltation pond</li> </ul> |
|                         | <ul style="list-style-type: none"> <li>➤ Generation hazardous wastes (used oil, busted fluorescent lamps and bulbs, used batteries)</li> </ul>   | <ul style="list-style-type: none"> <li>➤ Implementation of hazardous waste management plan per RA 6969</li> <li>➤ Proper storage and labelling of containers</li> <li>➤ Wastes are handled, transported, treated and</li> </ul>   |

|                 |  |  |
|-----------------|--|--|
|                 |  | disposed by DENR-EMB accredited transporters, haulers and treaters)  |
|                 | <ul style="list-style-type: none"> <li>➤ Generation of residual wastes (non-hazardous industrial wastes such as worn-out rugs, plastic sachets, laminated plastic packaging, foil packaging, nappies)</li> </ul> | <ul style="list-style-type: none"> <li>➤ Waste disposal will be done by stacking to allow wastes to decay under controlled conditions and backfilling with soil.</li> <li>➤ Sanitary landfill will be designed adopting best environmental practices to reduce groundwater and soil contamination.</li> </ul>  |
| AIR             | <ul style="list-style-type: none"> <li>➤ Degradation of air quality. Prolonged exposure to increase dust in the area may cause respiratory problems</li> </ul>   | <ul style="list-style-type: none"> <li>➤ Regular watering of the haul roads</li> <li>➤ Haul trucks carrying nickel ore will be covered with tarpaulin</li> <li>➤ Speed limit for haul trucks will be implemented</li> </ul>  |
| WATER           | <ul style="list-style-type: none"> <li>➤ Reduction of surface and groundwater availability</li> </ul>  | <ul style="list-style-type: none"> <li>➤ Consider potential impact to water balance prior commencing any dewatering activities</li> <li>reuse, recycle if feasible</li> </ul>  |
|                 | <ul style="list-style-type: none"> <li>➤ Entrainment and transport of eroded sediments to valuable aquatic environment downstream of the mine footprint</li> </ul>   | <ul style="list-style-type: none"> <li>➤ Provision of temporary sediment control measures at the downstream side of the construction area (i.e sand bags)</li> </ul>   |
| FLORA AND FAUNA | <ul style="list-style-type: none"> <li>➤ Landscape disturbance</li> <li>➤ Clearing of vegetation</li> <li>➤ Loss of habitat</li> <li>➤ Threat to existing flora and fauna</li> </ul>                             | <ul style="list-style-type: none"> <li>➤ Implementation of Biodiversity Conservation and Management Plan</li> <li>➤ Progressive mine rehabilitation shall be implemented to compensate the vegetation loss in the area</li> </ul>  |
| PEOPLE          | <ul style="list-style-type: none"> <li>➤ Increased occupational safety and health risks during construction and operation of the project</li> </ul>  | <ul style="list-style-type: none"> <li>➤ Designate a Site Safety Officer to implement the Occupational Safety and Health Management Plan</li> <li>➤ Provision of first aid kits and appropriate PPE</li> <li>➤ Install signages and warning devices in identified areas within the project site</li> <li>➤ Implement site Traffic Management Plan</li> </ul> |

|  |   |  |
|--|---|--|
|  |   | ➤  |
|  | ➤ Generation of employment, taxes and additional income | ➤ Prioritize hiring of qualified residents from the host communities (part of CSR)<br>➤ Prioritize purchasing of local items, if applicable, within the host communities |



## **ANNEXES**

Annex A. Secretary's Certificate.

REPUBLIC OF THE PHILIPPINES )  
City of Makati ) S.S.

SECRETARY'S CERTIFICATE

I, **MIRACLE JOY P. SEVILLA**, of legal age, Filipino, with office address at the 3/F DMCI Homes Corporate Center, 1321 Apolinario Street, Bangkal, Makati City, after having been duly sworn, hereby depose and say that:

1. I am the Corporate Secretary of **BERONG NICKEL CORPORATION (the "Corporation")**, a corporation duly organized and existing under and by virtue of the laws of the Republic of the Philippines with office address at the 3/F DMCI Homes Corporate Center, 1321 Apolinario Street, Bangkal, Makati City.
2. At the meeting of the Board of Directors of the Corporation held on 31 May 2022, the following resolutions were unanimously approved and adopted:

**BOARD RESOLUTION**

"RESOLVED, as it is hereby resolved, that the Corporation is authorized to file an application for an **Environmental Compliance Certificate (ECC)** covering approximately two thousand one hundred seventy-seven and 34/100 (2,177.34) hectares of property located in Aporawan, Aborlan, Palawan, and denominated as the Longpoint Project, which is the subject matter of the Corporation's application for a Mineral Agreement with reference no. AMA-IVB-147;

"RESOLVED FURTHER, that the Corporation's Vice President for Operations, **MR. RAMON MANUEL R. BRIONES**, be designated as the Corporation's representative for the subject ECC application with authority to sign, execute, and certify the subject ECC application and other documents or processes as well as perform or cause the performance of any or all acts as are and may be required by the Department of Environment and Natural Resources in furtherance of and in connection with the subject application for ECC, and those which are necessary to carry out the purposes of the foregoing Resolution;

"RESOLVED FURTHER, as it is hereby resolved, that the following Officers/representatives of the Corporation are hereby assigned to the following roles and are, thus, empowered to act as authorized representative(s) of the Corporation in performing all tasks including the authority to sign/certify/deliver all documents or processes as well as undertake any or all activities that are necessary to carry-out their subject designation, in connection with the aforementioned application for the ECC amendment:

| Name                          | Position                           | Assigned Role   |
|-------------------------------|------------------------------------|---|
| <b>MARC RAYMUND L. ZAMORA</b> | AVP, Resident Manager              | Perform on-site related activities/signatory                      |
| <b>JONATHAN L. PILIEN</b>     | Corporate Community Relations Head | Authorized representative during stakeholder engagement/signatory |

|   |                         |   |
|---|-------------------------|---|
| ATTY. BRENDA D. SEGOVIA;                          | Associate Legal Counsel | -Preparer of Project Description                                    |
| or  |                         | - Authorized representative during stakeholder engagement/signatory |
| DR. RAMON DOCTO and DR. RODOLFO OCAÑA ABALUS, JR. | Consultants             |   |

"RESOLVED FINALLY, that the acts of the aforementioned Officers/representatives of the Corporation, in furtherance of the foregoing Resolutions, are hereby approved, confirmed, and ratified by the Board of Directors of the Corporation.

IN WITNESS WHEREOF, I have hereunto affixed my signature this 14 JUN 2022 day of June 2022 at Makati City.

*MIRACLE JOY P. SEVILLA*  
Corporate Secretary

SUBSCRIBED AND SWORN to before me this 14 JUN 2022 day of June 2022, affiant exhibiting to me her Driver's License No. N01-12-031294 issued on 26 August 2018 in the City of Pasig.

Doc No. : 297  
Page No. : 61  
Book No. : 240  
Series of 2022.

*Raymond A. Ramos*  
ATTY. RAYMOND A. RAMOS  
COMMISSION NO. M-239  
NOTARY PUBLIC FOR MAKATI CITY  
UNTIL JUNE 30, 2022 PER B.M. NO. 3795  
11 KALAYAAN AVENUE EXTENSION  
BARANGAY WEST REMBO, MAKATI CITY  
SC #001/00 62179/19 2013  
B.P. NO. 171-165/03-05 2012/0000 City  
PTR NO. 001 405242/01-05 2012/0000 City  
MCLE Compliance No. VI-009/07/04-06-2018

Annex B. Authority to verify minerals.



Republic of the Philippines  
**Department of Environment and Natural Resources**  
**MINES AND GEOSCIENCES BUREAU**

North Avenue, Diliman, Quezon City, Philippines  
Tel No. (+63 2) 920-9120/920-9130 Trunkline No. 667-6700 loc. 134 Fax No. (+63 2) 920-1635 Email: central@mgb.gov.ph.

March 4, 2022

**Mr. Ramon Manuel R. Briones**  
Vice President - Operations  
Berong Nickel Corporation  
3/F DMCI Homes Corporate Center  
1321 Apolinario Street Bangkal  
1233 Makati City

Dear Mr. R. M. R. Briones:

This refers to your Letters dated February 7, 2022 and February 24, 2022 submitting to this Office the amended Location Map/Sketch Plan, Exploration and Environmental Work Programs, in connection with the request of Berong Nickel Corporation (BNC) for *Authority to Verify Minerals* (ATVM) involving its application for Mineral Production Sharing Agreement denominated as AMA-IVB-147, which was later converted into an application for Exploration Permit through its Letter dated October 5, 2021, covering an area of 2,177.34 hectares located in Aporawan, Aborlan, Palawan.

In accordance with the provisions of the Executive Order No. 79 and Department Administrative Order (DAO) Nos. 2012-07<sup>1</sup> and 2016-07<sup>2</sup>, the ATVM is hereby granted to BNC, subject to the following conditions:

1. Prior to conduct of any exploration activities, BNC is required to secure a Strategic Environmental Plan Clearance from the Palawan Council for Sustainable Development.
2. The ATVM does not give BNC any vested rights over the area and is issued without prejudice to the result of Area Status and Clearance from other government agencies/entities concerned.
3. The mineral verification shall be conducted in accordance with the attached Exploration and Environmental Work Programs and shall be confined to the said 2,177.34 hectares.
4. The onshore areas within the two hundred (200) meters from the mean low tide level along the coast shall be excluded in the areas to be explored.
5. The ATVM covers a period of one (1) year.
6. BNC shall spend an amount of **not less than PhP5,227,660.00**, for the conduct of environmental mitigating measures.

Likewise, an equivalent amount shall be spent for the development of the host and neighboring communities, advancement of mining technology and geosciences, and implementation of Information, Education and Communication Program for greater public awareness and understanding or responsible mining and geosciences.



<sup>1</sup> Implementing Rules and Regulations of Executive Order No. 79.  
<sup>2</sup> DENR Manual of Authorities of Technical Matters

**"MINING SHALL BE PRO-PEOPLE AND PRO-ENVIRONMENT  
IN SUSTAINING WEALTH CREATION AND IMPROVED QUALITY OF LIFE."**

24-15

7. The mineral verification activities conducted shall be monitored periodically by this Office/Regional Office (RO) concerned. In this case, this Office/MGB RO concerned shall not be prevented or hindered from conducting, within the reasonable time of day, any on-site inspections of the mineral verification activities and the pertinent records.
  8. Copies of the ATVM and Work Programs should be provided to the *Sangguniang Barangays, Bayan and Panlalawigan* concerned, and this Office furnished with the received copies thereof, within 30 days upon receipt of the ATVM.
  9. BNC shall submit to this Office, the following reports:
    - 9.1 Within 15 days from the end of each calendar quarter, a quarterly accomplishment report on all activities conducted in the subject area.
    - 9.2 Within 30 days after the completion of one-year period or date of completion of the mineral verification, whichever comes earlier, a final technical report on the result of the mineral verification. Such information shall include detailed financial expenditures, raw and processed geological, geochemical, geophysical and radiometric data plotted on a map at a minimum 1:50,000 scale, copies of originals of assay results, duplicated samples, field data, copies of originals from drilling reports, maps, environmental work program implementation and detailed expenditures showing discrepancies/deviations with approved exploration and environmental plans and budgets as well as other information of any kind collected during the exploration activities.
- Fines under Section 271 of DAO No. 2010-21<sup>3</sup> shall apply in case of failure to submit the above reports.
10. The existing applicable rules and regulations on environmental protection and management, and safety and health of workers shall be strictly complied with in the conduct of mineral verification.
  11. The Government shall be held free and harmless from all claims and accounts of all kinds, as well as demands and actions arising out of any accidents or injuries to persons or properties caused by the conduct of mineral verification in the subject area, and shall be indemnified for any expenses or costs incurred by reason of any such claims, accounts, demands or actions.
  12. The ATVM may be suspended or cancelled at any time by the MGB Director when, in his opinion, public interest and welfare or peace and order conditions so require or demand, upon failure of BNC to comply with the obligations, without any obligation on the part of the Government.



<sup>3</sup> Implementing Rules and Regulations of Republic Act No. 7942, otherwise known as the Philippine Mining Act of 1995.

It is understood that non-compliance with the above obligations will affect the track record of BNC.

Thank you.

Very truly yours,



  
**ATTY. WILFREDO G. MONCANO**  
Director



c.c.: **The Regional Director**  
Mines and Geosciences Bureau  
Regional Office No. IVB (MIMAROPA)  
7<sup>th</sup> Floor, DENR By the Bay Building  
1515 Roxas Boulevard, Ermita  
Manila

## Annex C. Strategic Environment Plan (SEP) Clearance from Palawan Council for Sustainable Development



Republic of the Philippines  
(Republic Act No. 7611)

### PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT

## SEP CLEARANCE

No. MEO-092921-055

Pursuant to the mandate of the Palawan Council for Sustainable Development (PCSD) under Republic Act 7611 and concurred by the Department of Environment and Natural Resources (DENR) as provided in its Memorandum of Agreement with PCSD dated 29 December 1994, this SEP Clearance is issued to:

**Mining Exploration and Operations**

Name of Project

**Sitio Long Point, Barangay Apurawan, Aborlan, Palawan**

Project Location (Street, Sitio, Barangay, Municipality)

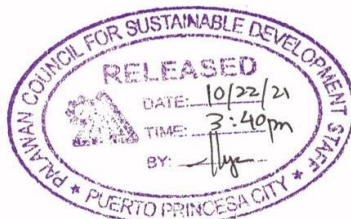
**Berong Nickel Corporation (BNC)**

Name of Proponent

**Barangay Berong, Quezon Palawan/  
No. 156 Manalo Street, Puerto Princesa City**

Address of Proponent

This Clearance is issued this 29<sup>th</sup> day of September 2021 in Puerto Princesa City.



O.R. No.: 7064164  
Date: 10/22/21  
Amount: ₱ 5,000.00

**JOSE CH. ALVAREZ**  
Chairman, PCSD

**Not Valid Without PCSD Official Seal**  
(PLEASE SEE OVERLEAF FOR THE TERMS AND CONDITIONS OF THIS CLEARANCE)

*Vision:* Palawan, an innovative and dynamic global center of sustainable development

*Mission:* PCSDS as the driver of environmental conservation and inclusive development in Palawan, a biosphere reserve and science-for-sustainability site, guided by the Strategic Environmental Plan

HEAD OFFICE:  
PCSD Building, Sports Complex Road  
Santa Monica Heights, Puerto Princesa City, Palawan, Philippines  
Tel. No: (+6348) 434-4235 Trunkline / (+6348) 434-4234 Telefax  
Email: oed@pcsd.gov.ph • Website: www.pcsd.gov.ph | www.pkp.pcsd.gov.ph

METRO MANILA LIAISON OFFICE:  
Room 109, G/F Westria Residences  
#77 West Avenue, 1104 Quezon City, Philippines  
Tel. No: (+632) 376-2061 / (+632) 376-2775

### TERMS AND CONDITIONS

This Clearance is issued subject to the terms and conditions stipulated below:

1. Ensure that regulated exploration and mining activities shall be confined within the applied area of 2,271.949 hectares excluding the 0.346 hectares that falls within the Restricted Use Zone;

Table 1. 2271.949 Hectares

| Corner | Latitude | Longitude | Corner | Latitude | Longitude |
|--------|----------|-----------|--------|----------|-----------|
| 1      | 9.64239  | 118.368   | 50     | 9.61863  | 118.365   |
| 2      | 9.64296  | 118.368   | 51     | 9.61862  | 118.359   |
| 3      | 9.64365  | 118.368   | 52     | 9.61591  | 118.359   |
| 4      | 9.64577  | 118.37    | 53     | 9.61588  | 118.349   |
| 5      | 9.64577  | 118.372   | 54     | 9.61586  | 118.342   |
| 6      | 9.64502  | 118.373   | 55     | 9.61766  | 118.34    |
| 7      | 9.64306  | 118.373   | 56     | 9.62127  | 118.34    |
| 8      | 9.64307  | 118.376   | 57     | 9.62129  | 118.339   |
| 9      | 9.64035  | 118.376   | 58     | 9.6233   | 118.337   |
| 10     | 9.64036  | 118.381   | 59     | 9.62398  | 118.337   |
| 11     | 9.64037  | 118.387   | 60     | 9.62398  | 118.336   |
| 12     | 9.63495  | 118.387   | 61     | 9.62488  | 118.335   |
| 13     | 9.63498  | 118.406   | 62     | 9.62669  | 118.335   |
| 14     | 9.63769  | 118.406   | 63     | 9.62669  | 118.335   |
| 15     | 9.63771  | 118.414   | 64     | 9.6294   | 118.335   |
| 16     | 9.62957  | 118.414   | 65     | 9.6294   | 118.335   |
| 17     | 9.62956  | 118.409   | 66     | 9.6294   | 118.333   |
| 18     | 9.62685  | 118.409   | 67     | 9.6303   | 118.332   |
| 19     | 9.62684  | 118.406   | 68     | 9.63301  | 118.332   |
| 20     | 9.62413  | 118.406   | 69     | 9.63371  | 118.333   |
| 21     | 9.62413  | 118.403   | 70     | 9.63484  | 118.333   |
| 22     | 9.62684  | 118.403   | 71     | 9.63485  | 118.335   |
| 23     | 9.62683  | 118.4     | 72     | 9.63666  | 118.335   |
| 24     | 9.62141  | 118.4     | 73     | 9.64027  | 118.336   |
| 25     | 9.62142  | 118.403   | 74     | 9.64028  | 118.337   |
| 26     | 9.61984  | 118.399   | 75     | 9.64232  | 118.337   |
| 27     | 9.61984  | 118.398   | 76     | 9.64299  | 118.338   |
| 28     | 9.61869  | 118.397   | 77     | 9.64297  | 118.34    |
| 29     | 9.61868  | 118.392   | 78     | 9.64592  | 118.34    |
| 30     | 9.60781  | 118.392   | 79     | 9.64652  | 118.342   |
| 31     | 9.60783  | 118.389   | 80     | 9.6484   | 118.342   |
| 32     | 9.59969  | 118.389   | 81     | 9.6484   | 118.343   |
| 33     | 9.5997   | 118.392   | 82     | 9.65016  | 118.343   |
| 34     | 9.59156  | 118.392   | 83     | 9.65112  | 118.344   |


|    |         |         |    |         |         |
|----|---------|---------|----|---------|---------|
| 35 | 9.59156 | 118.389 | 84 | 9.65116 | 118.351 |
| 36 | 9.58613 | 118.389 | 85 | 9.6532  | 118.351 |
| 37 | 9.58612 | 118.384 | 86 | 9.65523 | 118.354 |
| 38 | 9.59155 | 118.384 | 87 | 9.65387 | 118.354 |
| 39 | 9.59154 | 118.381 | 88 | 9.65388 | 118.357 |
| 40 | 9.59697 | 118.381 | 89 | 9.65117 | 118.357 |
| 41 | 9.59695 | 118.384 | 90 | 9.65116 | 118.359 |
| 42 | 9.59968 | 118.384 | 91 | 9.64574 | 118.354 |
| 43 | 9.59968 | 118.381 | 92 | 9.64031 | 118.354 |
| 44 | 9.61595 | 118.381 | 93 | 9.6376  | 118.357 |
| 45 | 9.61596 | 118.384 | 94 | 9.64032 | 118.359 |
| 46 | 9.62681 | 118.384 | 95 | 9.64033 | 118.362 |
| 47 | 9.6268  | 118.378 | 96 | 9.63762 | 118.365 |
| 48 | 9.62408 | 118.378 | 97 | 9.64034 | 118.368 |
| 49 | 9.62406 | 118.365 | 98 | 9.64224 | 118.368 |

2. The following ancillaries shall be covered under this Clearance:

| Ancillaries                     | No. of Units | Area (has)/Capacity |
|---------------------------------|--------------|---------------------|
| Mining Area                     | 2            | 200 has             |
| Silt pond area A                | 1            | 3.72 has            |
| Silt pond area B                | 1            | 3.72 has            |
| Interceptor canal               | 2            | 0.17 has            |
| Other Environmental Structures: |              |                     |
| Nursery Area                    | 1            | 3.46 has            |
| Mine Camp                       | 1            | 10.87 has           |
| Stockyard                       | 1            | 16.66 has           |
| Stockyard Silt Pond             | 1            | 2.06 has            |
| Pier                            | 1            | 1.92 has            |
| Sanitary Landfill Area          | 1            | 0.25 has            |

- Conduct ground delineation and properly mark the allowed area based on the coordinates;
- Identify, delineate and protect a 200-meter buffer between the boundaries of the Restricted Use Zone as per PCSD Resolution No. 05-250. This area includes the intact forest and watershed adjacent and surrounding the approved mining area, and shall be jointly conserved by the proponent, LGU, DENR and PCSDS;
- Related to condition no. 4, a multi-layer Conservation Management Plan with corresponding fund allocation to be provided by the proponent from its Corporate Social Responsibility (CSR) shall be submitted to the PCSD within 120 days after the issuance of this Clearance for approval;
- Strictly comply with the mitigating measures stipulated in the Project Environmental Assessment Report (PEAR) and Environmental Impact Statement (EIS);
- Ensure that the best available appropriate anti-pollution technology and facilities to protect the environment and to restore or rehabilitate mined-out areas and those affected by mine waste/tailing and other forms of pollution;
- Restore or rehabilitate mined – out areas and those affected by mine waste/tailing and other forms of pollution;
- Institute all measures to ensure the protection and safety of the workers as well as the general public such as installation of warning signs at strategic location in the facility;

Annex D. Zoning Certificate

  
Republic of the Philippines  
Province of Palawan  
Municipality of Aborlan


**MUNICIPAL PLANNING AND DEVELOPMENT OFFICE**

**ZONING CERTIFICATION**

**THIS CERTIFIES** that per Zoning map of Aborlan, Palawan the area applied for Mineral Production Sharing Agreement of Berong Nickel Corporation containing an area of 2,290.23 hectares situated in Barangay Apurawan, Aborlan, Palawan is within the Forest zone of the General Land Use Map of the Municipal Comprehensive Land Use Plan (CLUP).

This certification is issued to **Berong Nickel Corporation(BNC)** in connection with its application for Environmental Compliance Certificate(ECC) from the Department of Environment and Natural Resources(DENR).

Issued this 23rd day of August 2021 at Aborlan, Palawan.

  
**JAVIS F. TEMPLE, EnP**  
Deputized Municipal Zoning Administrator

Paid Under:

O.R. No. : 5979253  
Amount : Php 125,962.65  
Date : 8/23/21  
Place : MTO - Aborlan, Palawan

Annex E. Endorsements of LGUs and ECAN Board for Long Point Project



Republic of the Philippines  
Province of Palawan  
Municipality of Aborlan  
~oOo~  
12<sup>TH</sup> SANGGUNIANG BAYAN

**Resolution No. 186**

Series of 2021

Author: **ALEX PEDRO P. PENEYRA**

**A RESOLUTION FAVORABLY INDORSING TO PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT (PCSD) THE EXPLORATION, DEVELOPMENT, UTILIZATION AND FINAL MINE REHABILITATION AND DECOMMISSIONING ACTIVITIES OF BERONG NICKEL CORPORATION (BNC) COVERING AREAS LOCATED AT LONGPOINT, BARANGAY APURAWAN, ABORLAN, PALAWAN**

**WHEREAS**, the Aborlan Environmental Committee who is tasked to evaluate applications of this kind recommends that the activities of Berong Nickel Corporation (BNC) such as exploration, development, utilization and final mine rehabilitation and decommissioning for the Longpoint area be favorably endorsed to the Palawan Council for Sustainable Development (PCSD) through Resolution No. 16, series of 2007 (copy is herewith attached and made an integral part hereof);

**WHEREAS**, upon careful study and verification of the documents submitted, it was found out that the Berong Nickel Corp. has complied with all the necessary requirements needed for the subject activities;

**WHEREAS**, this August Body interposes no objection to the said undertaking provided that all laws and regulations governing the operation of the business of this kind will be complied with;

**WHEREAS**, endorsing the said mining activities will provide labor incentives and will boost the economic stability of the said community and the different sectors;

**WHEREAS**, due to pandemic caused by COVID-19, the residents severely suffer from financial constraints, where the only source of moral and economic recovery is to secure investors that will provide livelihood for the people;

**NOW, THEREFORE**, be it

**RESOLVED**, as it is hereby **RESOLVED**, to Favorably Indorse to Palawan Council for Sustainable Development (PCSD) the Exploration, Development, Utilization and Final Mine Rehabilitation and Decommissioning Activities of Berong Nickel Corporation (BNC) covering Areas located at Longpoint, Barangay Apurawan, Aborlan, Palawan;

**RESOLVE, FURTHER**, that the Office of the Governor, the PCSD, the Office of the Municipal Mayor and all others concerned be furnished with a copy of this resolution for their information and favorable action.

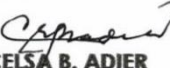
**ADOPTED**: April 12, 2021.

I HEREBY CERTIFY to the correctness of the foregoing resolution.

  
**MA. ROSARIO R. MANGA**  
Secretary to the Sanggunian

ATTESTED AND CERTIFIED TO BE DULY ADOPTED:

  
**LITO OCZON TITO**  
Municipal Vice Mayor  
Presiding Officer

APPROVED:  
  
**CELSA B. ADIER**  
Municipal Mayor  
4-12-2021  
Date

**NARESOLBA**, tulad ng paglutas nito, upang maipasa ang resolusyong pag-Eendorso ng mga iminungkahing aktibidad katulad ng exploration, development, utilization at final mine rehabilitation and Decommissioning ng BNC para sa layuning makuha ang mga kinakailangang clearance/pag-apruba/permit mula sa mga Tanggapan na may kinalaman para sa pagpapatupad o pagsisimula ng mga aktibidad ng Kumpanya.

**NAGRESOLBA PA**, na ang mga kopya ng resolusyon na ito ay maipasa sa Tanggapan ng Sangguniang Bayan ng Aborlan para sa kanilang impormasyon, sanggunian at naaangkop na aksyon.

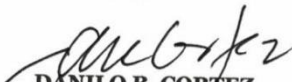
**NAAPRUBAHAN**, ngayong ika-12 ng Abril, 2021.

**PINATUTUNAYANG WASTO:**



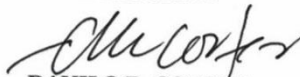
**REMILY P. VILLACARLOS**  
Barangay Secretary

**PATOTOO:**



**DANILO B. CORTEZ**  
Taga Pangulo

**PINAGTIBAY:**



**DANILO B. CORTEZ**  
Punong Barangay



Republic of the Philippines  
Province of Palawan  
Municipality of Aborlan

OFFICE OF THE SANGGUNIAN BAYAN

**Committee Report No. 21 – 07**

Committee on Environmental Protection, Enhancement and Natural Resources  
April 12, 2021

**THE HONORABLE PRESIDING OFFICER**

Sangguniang Bayan  
Aborlan, Palawan

Sir:

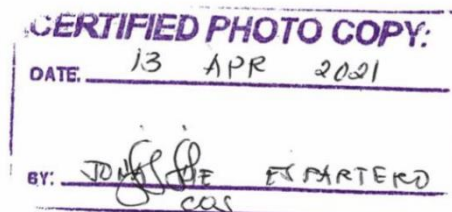
The Committee on Environmental Protection, Enhancement and Natural Resources to which the subject was referred to has the following assessment and evaluation to wit:

**Subject: Letter of Request of Berong Nickel Corporation (BNC) for Favorable Endorsement of AMA – IV-147**

**Findings:**

The following documents were submitted in support to BNC's request for endorsement as form part of this Committee Report:


1. Letter to SB Aborlan Request for Re-endorsement
2. SB Aborlan Resolution No. 16-0
3. Environmental Work Program AMA-IVB-147
4. Exploration Work Program AMA-IVB-147
5. Barangay Apurawan Endorsement
6. Barangay Apurawan Re-endorsement 2021
7. MOA with Tagbanua ICC – (4 copies)
8. NCIP Compliance Certificate – (4 copies)
9. SEC certificate
10. Deed of Assignment
11. MPSA Application AMA-IVB-147
12. Order of MGB-IVB Approving Deed of Assignment
13. Secretary Certificate re: Board Resolution authorizing Mr. Marc Raymund L. Zamora and/or Ms. Claudette B> Abordo as official representative of BNC
14. Area Status – Clearance of BNC
15. Area Status - Clearance from DENR



**Recommendation:**

The Committee may now endorse the said application for mining activities in accordance with PCSD rules and regulations and DENR guidelines.

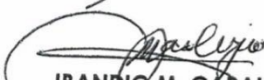
Submitted by:

  
**DAVID C. MOSTIERO, Jr.**  
Vice Chairman

  
**ALEX PEDRO P. PENEYRA**  
Chairman

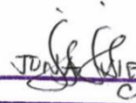
  
**MARISSA U. ZUMARRAGA**  
Member

  
**JOEL P. LUMIS, Jr.**  
Member

  
**IBANDIO M. CARALIPIO**  
Member

**CERTIFIED PHOTO COPY:**

DATE: 13 APR 2021

BY:   
JUNELLE ESPARTERO  
CSC



Republic of the Philippines  
Province of Palawan  
Municipality of Aborlan



**OFFICE OF THE ABORLAN ECAN BOARD**

EXCERPT FROM THE MINUTES OF THE 2<sup>nd</sup> SPECIAL MEETING OF THE ABORLAN ECAN BOARD OF ABORLAN, HELD AT THE MPDO CONFERENCE ROOM, ABORLAN, PALAWAN ON SEPTEMBER 23, 2021

**Present**

- |   |                                  |
|---|----------------------------------|
| 1. Hon. Celsa B. Adier -Municipal Mayor       | - Chairperson /Presiding Officer |
| 2. Hon. Lito O. Tito- Mun. Vice-Mayor         | -Vice/ Chairperson               |
| <b>Members:</b>                               |                                  |
| 3. Hon. Marisa U. Zumarraga-SB Member         | -/Chair Co. On Women             |
| 4. Hon. Alex Pedro Peneyra/SB Member          | - Chair. Com. on Environment     |
| 5. Hon. Benedicto D. Garciano/ABC President   | - Member                         |
| 6. Hon. David C. Mostiero, Jr. SB Member      | - Chair. Com on Tourism          |
| 7. Hon. Joel P. Lumis, Jr./SB member          | - Chair. Com. On IPs             |
| 8. Hon. Jezamie C. Palatino-SK Fed. President | - Member                         |
| 9. Ms. Ma. Cristina Rodriguez, PCSDS          | - Member                         |
| 10. Mr. Avelino De Guzman, Jr, MENRO          | - Member                         |
| 11. Engr. Salvador D. Cojamco-MPDC            | - Member                         |
| 12. Mr. Felizardo B. Cayatoc- CENRO Rep.      |                                  |
| Mr. Armando A. Dolor                          | - Alternate                      |
| 13. Hon. Dormelio Sianga-IPs Rep.             | - Member                         |
| 14. Mr. Rufino Pedroso- NGO Rep.              | - Member                         |
| 15. Mr. Clemente G. Cacatian-MAO              | - Member                         |

**Absent:**

- |  |          |
|--|----------|
| 16. Ms. Fe D. Agbon- Education Sector Rep. | - Member |
|--|----------|

**ECAN BOARD RESOLUTION NO. 03, s. 2021**

A RESOLUTION INTERPOSING NO OBJECTION ON THE PROPOSED PROJECT "THE EXPLORATION, DEVELOPMENT, UTILIZATION AND FINAL REHABILITATION AND DECOMMISSIONING ACTIVITIES OF THE BERONG NICKEL CORPORATION" (BNC) COVERING AREAS, LOCATED AT LONG POINT, BARANGAY APURAWAN, ABORLAN, PALAWAN AND FAVORABLY ENDORSING TO THE PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT (PCSD) FOR ISSUANCE OF SEP CLEARANCE.

WHEREAS, the Aborlan ECAN Board created under Ordinance No. 26, series of 1995 pursuant to Section 37-39 of PCSD Resolution No. 05-250 and Section 3 of RA 7611 as the microcosm of the Palawan Council for Sustainable Development (PCSD) at the municipal level acting as the administrative machinery to promote development and protection of its environment and natural resources;

WHEREAS, the main strategy of the SEP is the establishment of the Environmentally Critical Areas Network (ECAN), a graded system of protection and development control over the whole of Palawan;

WHEREAS, The Berong Nickel Corporation was able to submit all the required documents for his application for the *PROPOSED BPROJECT "THE EXPLORATION, DEVELOPMENT, UTILIZATION AND FINAL REHABILITATION AND DECOMMISSIONING ACTIVITIES OF THE BERONG NICKEL CORPORATION" (BNC) COVERING AREAS* to Aborlan ECAN Board in accordance with Revised PCSD Administrative Order No. 6 series of 2014 as amended, for endorsement to the Palawan Council for Sustainable Development (PCSD);





Republika ng Pilipinas  
Lalawigan ng Palawan  
Bayan ng Aborlan  
Barangay Apurawan

**TANGGAPAN NG SANGGUNIANG BARANGAY**

**KAPASYAHANG BILANG 34**  
Serye ng 2021

May Akda: Kagawad Melecio G. Pandiño at Kagawad Ireneo H. Hermosa Jr.

ISANG RESOLUSYON NA NAG-EENDORSO SA EXPLORATION, DEVELOPMENT, UTILIZATION AT FINAL MINE REHABILITATION AND DECOMMISSIONING ACTIVITIES NG BERONG NICKEL CORPORATION (BNC) SA LOKASYON NA NAPAPALOOL SA LONGPOINT, BARANGAY APURAWAN, BAYAN NG ABORLAN, PALAWAN.

SAPAGKAT, ang BNC ay nagnanais na magsagawa ng exploration, development, utilization at final mine rehabilitation and decommissioning sa loob ng Long Point, Barangay Apurawan, Bayan ng Aborlan, Palawan at ito ay isinumite sa Konseho ng Barangay para sa pag-endorso;

SAPAGKAT, alam ng mga miyembro ng Konseho ng Barangay na ang nasa-bing lugar ay may mahinang kalagayan sa lupa at pinakamahasag na magagamit para sa mayamang deposito ng mineral nito;

SAPAGKAT, alam ng Konseho ng Barangay na ang ipinanukalang proyekto ay hindi magiging mapanira sa kapaligiran sa mga lugar na sakop ng Barangay Apurawan;

SAPAGKAT, ang Konseho ng Barangay Apurawan ay nagbigay ng buong suporta sa ipinanukalang mga gawaing pagmimina ng BNC;

SAPAGKAT, matapos ang masusi at maingat na pag-aaral ng Konseho ng Barangay sa aplikasyon, nagkakaisa ang pag-apruba ng Lupon upang maipasa ang isang resolusyon na nag-eendorso ng aplikasyon ng BNC sa kinauukulang Tanggapan.

NGAYON, KAYA, sa mosyon ni Kagawad Melecio G. Pandiño, pinangalawhan ni Kagawad Ireneo H. Hermosa Jr.



**WHEREAS**, the Aborlan ECAN Board Committee on Planning and Evaluation conducted an actual field validation of the proposed applied area and recommends the issuance of ECAN Board endorsement for securing the PCSD SEP Clearance subject to the terms and condition stated below:

1. Confine project development and operation within the 22,719,700 square meters project area.
2. Secure permits/clearances from other concerned agencies prior to the project implementation.
3. Ensure that the solid waste will be segregated, waste water will be treated and used oil will be separated before the final disposal.
4. Should the implementation of the project cause adverse environmental impact as determined by the ECAN Board, it shall be sufficient ground for the cancellation or suspension of the endorsement of the project.
5. Any complaints arising from implementation of the project in its locality shall be settled by the proponent who must submit or furnish the Board of any settlement/consent that has been reached by the conflicting parties.
6. The inspection and validation team from the Aborlan ECAN Board shall be allowed to conduct an onsite inspection and verification anytime without the consent of the owner.
7. The proponent shall pay the corresponding monitoring fee to the ECAN Board which will form part of the monitoring fund to be used by the latter in monitoring activities.
8. The proponent shall assume full responsibility and liability for damages to private and public property caused by the project.
9. Any expansion of the project in terms of area and structure is subject to a separate ECAN Board endorsement.
10. Establish of forest/fruit trees nurseries in the 1<sup>st</sup> one year of mining operation for the protection of environment and help to control soil erosion during the operation.
11. Establish Sanitary Landfill

**WHEREAS**, upon deliberation, the Aborlan ECAN Board finds the project to have complied with all the existing environmental laws, rules and regulations;

**NOW, THEREFORE**, on motion of Hon. Alex Pedro P. Peneyra and duly seconded by: Mr. Rufino Pedroso, the project was approved;

**BE IT RESOLVED**, as it is hereby **RESOLVED**, to adopt a resolution interposing no objection on the proposed project **THE EXPLORATION, DEVELOPMENT, UTILIZATION AND FINAL REHABILITATION AND DECOMMISSIONING ACTIVITIES OF THE BERONG NICKEL CORPORATION**" (BNC) COVERING AREAS located at So. Long Point Barangay Apurawan, Aborlan, Palawan and favorably endorsing to the Palawan Council for Sustainable Development (PCSD) for issuance of SEP Clearance;

**UNANIMOUSLY APPROVED,**

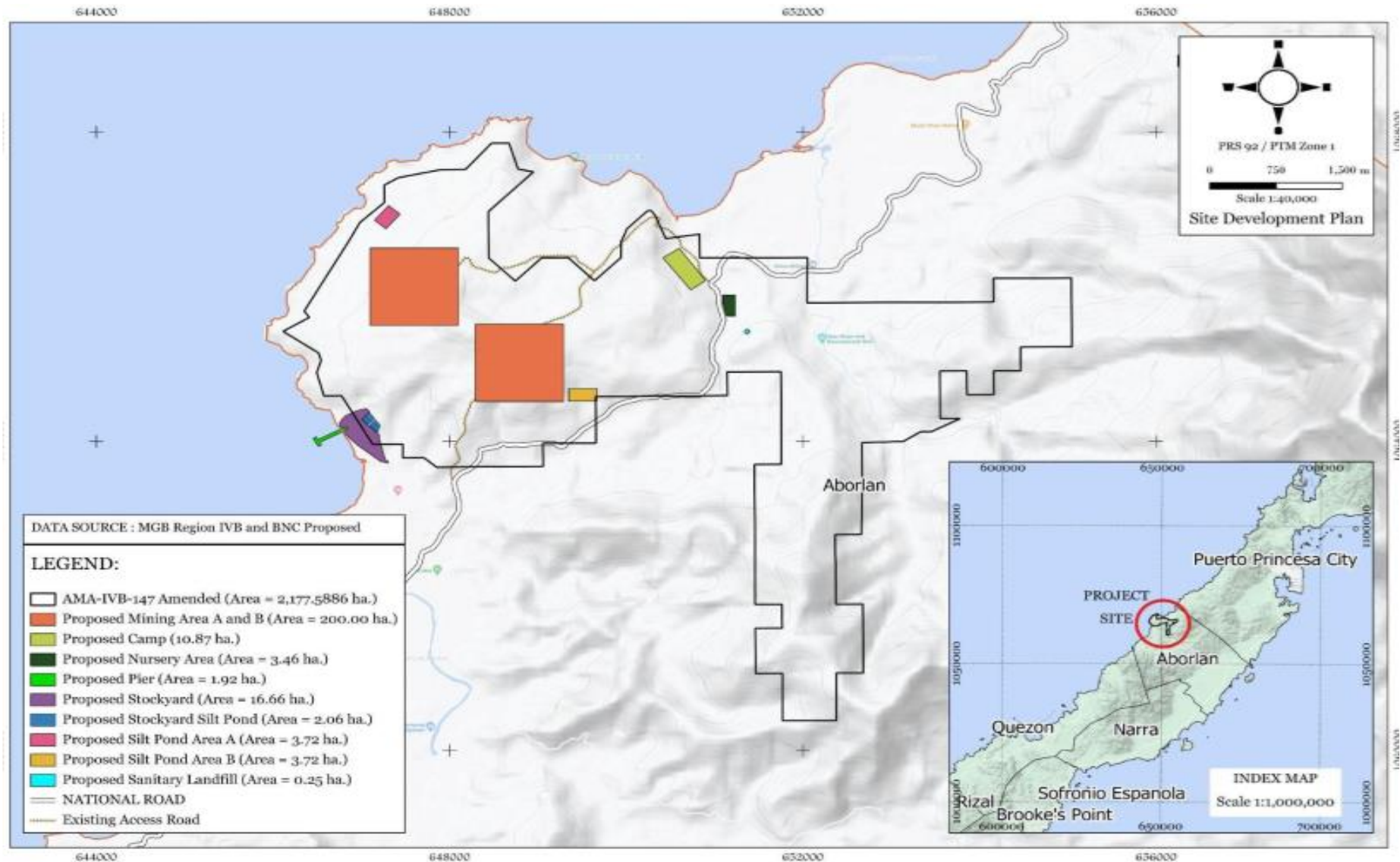
**RESOLVED FINALLY**, that copies of this resolution be forwarded to the Palawan Council for Sustainable Development for favorable action, copy furnished the Sangguniang Bayan, MAO, MENRO, DENR, the applicant and barangay officials concerned for their information and reference.

**ADOPTED**, this 23<sup>rd</sup> day of September, 2021.

**I HEREBY CERTIFY** to the corrections of the above Resolution No. 03, s. 2021 adopted by the Aborlan ECAN Board (AEB) during its Regular Meeting on September 23, 2021 at MPDO Conference Room, Magsaysay, Aborlan, Palawan.

  
**MAYLENDE M. ESLER**  
ECAN Board Secretary 9/27/21

Annex F. Proposed Site Development and Mine Plan.



Annex G. Minutes of the Information and Education Campaign (IEC) on the proposed Long Point Nickel Mining Project.

February 19, 2022  
Sitio Sto. Niño, Bgy. Apurawan, Aborlan

Present:

1. Maylene M. Eser. – representative, LGU-Aborlan MPDO
2. Armen G. Molleno. – representative, LGU-Aborlan MAO
3. Rodolfo O. Abalus, Jr. – Faculty Member, Palawan State University
4. Jeffrey H. de Castro – Faculty Member, Palawan State University
5. Reyno Javier - Staff, Palawan State University
6. Sheryl G. Docto – Faculty Member, Palawan State University
7. Ramon M. Docto – University President, Palawan State University
8. Deborah Arquio – Community Relations Officer, Berong Nickel Corporation
9. Emi Marjorie N. Gabinete – Manager, EMG Environmental & Safety Management Consultancy Services
10. Renato Y. Sabat, Jr.- Mine Planning Engineer, Berong Nickel Corporation
11. Franklin C. Canja – Barangay Captain, Brgy. Culandanum
12. Celsa B. Adier - Municipal Mayor, LGU-Aborlan
13. Dessa Jie Madarcos – Geologist, Berong Nickel Corporation
14. Mirasol D. Biono – Statistician, Berong Nickel Corporation
15. Melecio G. Pandemio – Barangay Kagawad, Brgy. Apurawan
16. Ma. Cristina C. Rodriguez – Project Development Officer IV - Palawan Council for Sustainable Development
17. Remily P. Villacarlos – Barangay Secretary, Brgy. Apurawan
18. Gideon B. Agapat – SK Chairman, Brgy. Apurawan
19. Ireneo Hermosa - Barangay Kagawad, Brgy. Apurawan
20. Alex Pedro Peneyra – SB Member, LGU-Aborlan
21. Randy E. Gila - Barangay Kagawad, Brgy. Apurawan
22. Mercy S. Banico - Barangay Kagawad, Brgy. Apurawan
23. Rafino P. Pedroso – NGO Representative, Brgy. Apurawan
24. Michael A. Dolino - Barangay Kagawad, Brgy. Apurawan
25. Elmar C. Balladares - Barangay Kagawad, Brgy. Apurawan
26. Jeto C. Conejos – Supervisor, Berong Nickel Corporation
27. Dormilio O. Sianga - Barangay Kagawad, Brgy. Apurawan

## **I. Preliminaries**

The meeting officially started at 10:00 in the morning as the facilitator, Engr. Gabinete greeted the participants. The event commenced with a prayer led by Dr. Abalus. The Municipal Mayor of Aborlan, Hon. Celsa B Adier, delivered her welcome remarks. She welcomed and acknowledged the attendees. Her opening remarks ended by giving thanks to everyone for participating in the event. The facilitator then introduced the names of members/representatives present during the meeting.

## **II. Information Education Campaign**

### **1. Introduction to RD 1151 & PD 1586**

Dr. Docto started the IEC proper by giving an overview on the RD 1151 & PD 1586 and the relation of these laws to the project. He explained the differences between three of the common environmental philosophies and the concept of sustainable development. He emphasized that there should be balance between economic progress and environmental protection. The discussion focused on the importance to conduct benefit-cost analysis (BCA) prior to any major projects and the need to conduct the inventory of expected economic gains and loss. He pointed out that one of the roles of a third party in conducting environmental Impact Assessment (EIA) is to predict the possible externalities of the project and recommend solutions to reduce the negative impacts to the community and environment.

### **2. Introduction of the project**

The second talk concentrated on the essential preliminary details about the project. Ms Madarcos initiated the discussion by presenting the company profile of the project proponent and the timeline of the operations of Berong Nickel Corporation (BNC). Engr Sabat Jr., proceeded with his presentation on the technical aspects of the proposed project. He summarized the different phases of mining project, starting from prospecting up to the decommissioning phase. Also included in his discussion were the extraction and transport methods to be utilized during the mine operations. The presentation ended by showcasing the company's good track record on the environmental sustainability of their mining operations in their previous projects.

## **III. Open Forum**

An open forum facilitated by Engr. Gabinete immediately followed after the discussion of the project overview.

Mr. Pedroso requested for a clarification on the assessment conducted by the EIA team on the proposed project area. He asked if an inventory of indigenous and endangered species were done. Dr. Docto responded by first introducing the profiles of the EIA team members. Dr. Abalus then explained the Rapid Biodiversity Assessment (RBA) conducted on the area and affirmed that such study, including sampling of flora and fauna, were implemented. He also gave an overview on the distribution of the flora and fauna found.

In addition, Dr. Docto recommends that the trees to be planted during mine rehabilitation should be of species native to the area to mimic the initial condition of the forest. He suggests that the number of trees to be planted must have carbon sequestration capacity equating the expected emissions during mine life. Engr. Sabat introduced to the audience their forester who oversees the reforestation of the mined area in Brgy. Berong. He emphasized the company's sufficiency in the

number of seedling used during the mine rehabilitation. Mayor Adier then proceeded with her request of seedlings to be planted in the degraded and idle lands on the east coast of the municipality. Dr. Docto mentioned that PSU-Narra also requested seedlings to BNC and was granted. Ms. Arquio informed the Mayor Adier that the municipality had a prior request and said that 6,000 seedlings were already prepared by BNC for transport.

Dr. Abalus also started his discussion on the process of fauna identification and the importance of tree planting.

A moment is given to Ms. Rodriguez, a representative from PCSD, to explain the role of their agency in the approval of the project's SEP clearance. She introduced the SEP law to the audience and summarized the requirements to secure SEP clearance.

Mr. Hermoso, an IP representative, wanted to know when the mine operations will commence. Dr. Docto pointed out that the company needs support from the IP communities for the issuance of the project's NCIP clearance.

Mr. Dolino, questioned if there were study on the possible impacts of the project on the nearby marine ecosystem. As a response, Dr. Docto stated that marine environment will also be studied in the EIA.

Kgd. Balladares asked for further explanation on the shipment procedure of the products from mining. This was answered by Engr. Sabat, who mentioned that the products transport will follow the path where it is best suited and avoiding sensitive environmental features. In addition, SB Peneyra informed the audience that a portion the proposed project area is reserved as a marine sanctuary and thus, be considered during the planning process. This information was noted by the proponents. Dr. Docto stressed that IEC is important before the commencement of the project such that stakeholders have chance to give their concerns.

Audience knew the mining needs to clear the area during the development phase. An inquiry was made by Kgd. Balladares on the remediation measures the company will engage to address the loss of forest products such as honey and medicine. This will affect the communities who rely on forest for their livelihood. SB Peneyra announced that the municipality has already designated an area of 6,000 hectares to augment the livelihood opportunity for their residents.

Kgd. Gila showed interest to visit a mine site operated by BNC on Brgy. Berong. He said that barangay officials would want to do a mine tour on BNC's other projects to make sure that the good practices presented to them a while ago are what happens on actual. Ms. Arquio said that the company has already received the officials' previous request on the mine tour but was withheld due to pandemic. She said that the company was on a bubble and thus had a limitation on the number of people allowed to enter the vicinity. Further, Ms. Arquio informed the officials that they currently undergoing three simultaneous audits. The company will notify Kgd. Balladeres when the site visit will proceed.

Kgd. Pandinio compared the topography of the mine site in Brgy. Berong and the proposed mine site. He stated that unlike the location of Berong mine site, the Long Point are having two adjacent communities which might be directly affected by the proposed project. He also said that the Long Point Project might have impacts varying from those of Berong Mining Project. He also reminded that BNC should ensure that the environmental management presented should really be implemented. As a response, Dr. Docto emphasized solutions must be formulated to the anticipated negative impacts of every activity. He also pointed out that some areas in the Long Point might be developed while some are not. Engr. Sabat added that planning of impacts will be done during the development phase of the project. He said that such plans submitted to the MGB for approval. He further elaborated this by narrating the timeline the company is expected to pursue for the mining project. Furthermore, he explained that exploration phase will be for the quantification of the mineral resources which will be the basis for their MPSA application. He also assured that the company implements local first policy during the hiring of manpower. SB. Peneyra also informed the audience that the municipality has an office which is dedicated to aid the employment of their municipal constituents. Dr. Docto noted that the skills an employee has must match with what is needed in the job. SB Peneyra then cited that the municipality has tapped the services of TESDA for the upgrading of technical skills and requested from BNC for heavy equipment which was used during the skills training.

## **1. Other Matters**

Since there were no further questions from the body, Engr. Gabinete ended the forum by thanking the attendees. Dr. Docto announced to the audience that they can express their concerns about the project during the public scoping to be held by the same team. To formally end the meeting, SB Peneyra delivered his closing remarks in which he stressed the importance of the support of the community for the project to proceed.

Dr. Docto officially adjourned the meeting at 1:30 in the afternoon.

**Information Education Campaign**  
Sitio Sto. Niño, Apurawan, Aborlan, Palawan  
February 19, 2022







# LONG POINT NICKEL PROJECT

## PROJECT OBJECTIVES

To optimize the nickel mining industry's socio-economic benefits that will promote rational exploration, development, utilization and processing of mineral resources in a sustainable and responsible mining operation.

## PROJECT INFORMATION

|   |   |
|---|---|
| <b>Nature of the Project</b>                | Mining Exploration and Operations                     |
| <b>Proposed Extraction Rate</b>             | 1,000,000 DMT per Annum                               |
| <b>Commodity</b>                            | Nickel Ore  |
| <b>Location of Mine Site and Facilities</b> | Sitio Long Point, Barangay Apurawan, Aborlan, Palawan |
| <b>Permit</b>                               | SEP Clearance MEO-092921-055                          |
| <b>Authority to Verify Minerals</b>         | Granted on March 4, 2022                              |
| <b>Mining Method</b>                        | Surface Mining  |
| <b>Proposed capital investment cost</b>     | Php 847,000,000.00                                    |

## PROJECT COMPONENTS

|  |   |
|--|---|
| <b>Ave. number of ore shipments per year</b> | 30 shipments per year, initially  |
| <b>Power requirement</b>                     | 500,000 kWh annually, Power Generators (Source)   |
| <b>Water requirement</b>                     | 600,000 m <sup>3</sup> annually, Deep well (Source)   |
| <b>Manpower requirements</b>                 | <i>Exploration phase:</i><br>200 personnel<br><br><i>Construction phase:</i><br>200 personnel<br><br><i>Operation phase:</i><br>2,000 personnel |
| <b>Pollution Control Measure</b>             | An approximate of 40,000 m <sup>3</sup> per settling pond with perimeter drainage canal   |

## PROJECT AREA




|   |                                    |
|---|------------------------------------|
| <b>Total Project Area</b><br>(SEP Clearance no. MEP-092921-055) | 2,271.949 hectares                 |
| <b>Mining Area</b>  | 200 has., progressively            |
| <b>Project Area</b>   | 242.83 has                         |
| <b>Primary Impact Area</b><br>(Host Community)                  | Brgy. Apurawan, Aborlan, Palawan   |
| <b>Secondary Impact Area</b><br>(Neighboring Community)         | Brgy. Culandanan, Aborlan, Palawan |

## PROJECT BENEFITS



### COMMUNITY DEVELOPMENT PROGRAMS

-  Employment
-  Livelihood
-  Basic Health and Social Services
-  Education

### STRATEGIC ENVIRONMENTAL MANAGEMENT AND PROTECTION PROGRAM

-  Progressive Rehabilitation

### ADDED REVENUE

-  Taxes
-  Other Government Fees

**INFORMATION AND EDUCATION CAMPAIGN**  
Sitio Sto. Niño, Brgy. Apurawan, Aborlan, Palawan  
February 18, 2022- 9AM

**ATTENDANCE**

| NAME                        | AGENCY  | POSITION           | SIGNATURE   |
|-----------------------------|---|--------------------|-------------|
| 1. MAYLENDE M. ESUR         | UAT-Aborlan (MPCO)                            | KA-IV              | [Signature] |
| 2. ARMEN G. MOLLEDO         | LGU- Aborlan                                  | AIT-11             | [Signature] |
| 3. Rodolfo O. Abalus, Jr.   | PSU   | Faculty            | [Signature] |
| 4. Jeffrey H. de Castro     | PSU   | Faculty            | [Signature] |
| 5. Roxas L. Othion          | PSU   | Staff              | [Signature] |
| 6. SHENIL G. DOCTO          | PSU   | Faculty            | [Signature] |
| 7. RAMON M. DOCTO           | PSU   | President          | [Signature] |
| 8. Deborah Arquid           | BNC   | ComNet             | [Signature] |
| 9. EMI MARJORIE N. GABINETE | EMG Envi. & Safety<br>Mgt Consultancy Service | Manager            | [Signature] |
| 10. RENATO Y. SABAT JR.     | BNC   | PLANNING           | [Signature] |
| 11. FRANKLIN C. CRANTA      | CALASIDAN UM                                  | P/B Progs. Captain | [Signature] |
| 12. Ceisa B. Lopez          | San Juan Aborlan                              | Mayor              | [Signature] |
| 13. Dessa Jie Madaraca      | BNC   | Geologist          | [Signature] |
| 14. Marcel D. Biano         | BNC   | MP Stationing      | [Signature] |
| 15. Alejo G. Vazquez        |   | Egy Lgd            | [Signature] |
| 16. Ma Cristina C. Paring   | PCSPJ   | PO-IV              | [Signature] |
| 17. Reming P. Villacarlos   | Brgy. Apurawan                                | Krgy. Sec.         | [Signature] |
| 18. GIDEON B. AGAPAT        | Brgy. APURAWAN                                | SK CHAIRMAN        | [Signature] |
| 19. JENENEO HERMOGA         | Brgy. Apurawan                                | Krgy. Kagawad      | [Signature] |
| 20. Alejandro PEDERA        | sa member aborlan                             | S B                | [Signature] |

21. RANDY E. GILA Bgy. Apurawan Bgy. Kagawad [Signature]  
 22. Mercy S. PANICO Bgy. Apurawan Krgy. Kagawad [Signature]  
 23. Delfino P. Pedrosa Apurawan NAO DEP [Signature]  
 24. MICHAEL A. DOLINO Apurawan Bgy. Kagawad [Signature]  
 25. Elmer C. Balladana Bgy. Apurawan Bgy. Kagawad [Signature]  
 26. Jeto C. Conjeja BNC Supervisor [Signature]

27. DORMILIO O. SIANCE Bgy. Apurawan Bkd [Signature]

28.

## Proof of receipt of IEC Meeting Invitation

16 February 2022

**Hon. Alex Pedro Peneyra**  
**Sangguniang Bayan Member**  
**Chairman Committee on Environment**  
**Municipality of Aborlan**  
**Palawan**

# 0918760776

Dear Kagawad Peneyra:

Greetings of peace and prosperity!

This pertains to the proposed Nickel Mining Project to be established at Sitio Long Point, Barangay, Aporawan, Aborlan, Palawan by the Berong Nickel Corporation (BNC).

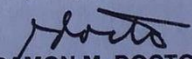
A team represented by the undersigned is currently conducting a study relative to the company's desire to seek for an environmental clearance from the Department of Environment and Natural Resources – Central Office.

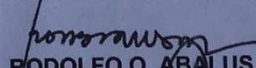
Following through with the stages of the Environmental Impact Assessment process, an Information Education Campaign (IEC) must be conducted with the proponent and stakeholders to gain knowledge and insights of the project. Being one of the stakeholders, it is in this juncture that we would like to request your presence or official representative in a scheduled meeting for the above purpose on the 18<sup>th</sup> of February 2022 (Friday), 9 AM. The meeting will be held at Marie's Place, Sitio Sto. Niño, Bgy. Aporawan, Aborlan, Palawan.

We look forward to your utmost participation in the scheduled meeting.

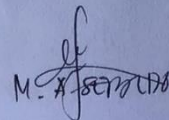
Thank you.

Very truly yours,

  
**RAMON M. DOCTO, PhD**  
Team Leader, EIA Study for BNC

  
**RODOLFO O. ABALUS, JR., PhD**  
Co-Team Leader, EIA Study for BNC

contact no. 0965-923-8613 (tm)

PM:   
M. A. Serrano

16 February 2022

**Hon. Lito O. Tito**  
**Municipal Vice Mayor**  
**Municipality of Aborlan**  
**Palawan**

Dear Vice Mayor Tito:



Greetings of peace and prosperity!

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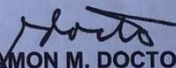
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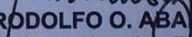
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Very truly yours,

  
**RAMON M. DOCTO, PhD**  
Team Leader, EIA Study for BNC

  
**RODOLFO O. ABALUS, JR., PhD**  
Co-Team Leader, EIA Study for BNC

Contact no. 0965-923-8613 (tm)



16 February 2022

**Atty. TJ Matta**  
Executive Director  
Palawan Council for Sustainable Development  
Puerto Princesa City  
Palawan

**THRU: District Management Office**

Dear Director Matta:

Greetings of peace and prosperity!

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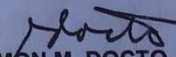
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Very truly yours,

  
**RAMON M. DOCTO, PhD**  
Team Leader, EIA Study for BNC

  
**RODOLFO O. ABALOS, JR., PhD**  
Co-Team Leader, EIA Study for BNC

CONTACT NO: 0965-923-8613 (TM)



16 February 2022

Hon. Celsa B. Adier  
Municipal Mayor  
Municipality of Aborlan  
Palawan



Dear Mayor Adier:

Greetings of peace and prosperity!

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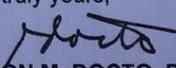
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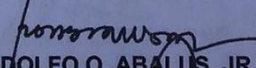
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We look forward to your utmost participation in the scheduled meeting.

Thank you.

Very truly yours,

  
**RAMON M. DOCTO, PhD**  
Team Leader, EIA Study for BNC

  
**RODOLFO O. ABALUS, JR., PhD**  
Co-Team Leader, EIA Study for BNC

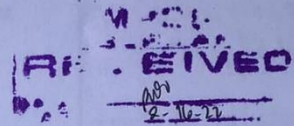
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16 February 2022

**Engr. Salvador Cojamco**  
**Municipal Planning & Development Coordinator**  
**Municipality of Aborlan**  
**Palawan**



Dear Engr. Cojamco:

Greetings of peace and prosperity!

This pertains to the proposed Nickel Mining Project to be established at Sitio Long Point, Barangay, Aporawan, Aborlan, Palawan by the Berong Nickel Corporation (BNC).

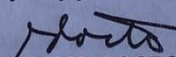
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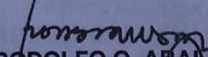
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Thank you.

Very truly yours,

  
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Team Leader, EIA Study for BNC

  
**RODOLFO O. ABALOS, JR., PhD**  
Co-Team Leader, EIA Study for BNC  
Contact no. 0965-923-8613

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M. M. E. 11/2/22

16 February 2022

**Mr. Clemete Cacatian**  
**Municipal Agriculture Officer**  
**Municipality of Aborlan**  
**Palawan**

Dear Mr. Cacatian:

Greetings of peace and prosperity!

This pertains to the proposed Nickel Mining Project to be established at Sitio Long Point, Barangay, Aporawan, Aborlan, Palawan by the Berong Nickel Corporation (BNC).

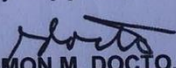
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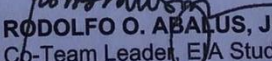
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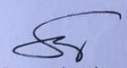
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**RAMON M. DOCTO, PhD**  
Team Leader, EIA Study for BNC

  
**RODOLFO O. ABALOS, JR., PhD**  
Co-Team Leader, EIA Study for BNC  
Contact no. 0965-923-8613 (tm)

  
ERIKOL MARK V. SORWID  
OMA, ABORLAN, PALAWAN

# 09105310214

16 February 2022

**Mr. Avelino De Guzman Jr.**  
**Municipal Environment & Natural Resources Officer**  
**Municipality of Aborlan**  
**Palawan**

Dear Mr. De Guzman:

Greetings of peace and prosperity!

This pertains to the proposed Nickel Mining Project to be established at Sitio Long Point, Barangay, Aporawan, Aborlan, Palawan by the Berong Nickel Corporation (BNC).

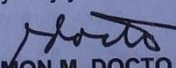
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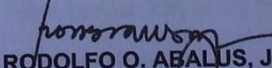
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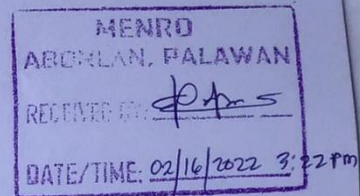
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Very truly yours,

  
**RAMON M. DOCTO, PhD**  
Team Leader, EIA Study for BNC

  
**RODOLFO O. ABALUS, JR., PhD**  
Co-Team Leader, EIA Study for BNC

contact no. 0965-923-8613 (tm)



Annex H. Minutes of the Focus Group Discussion (FGD) on the proposed Long Point Nickel Mining Project held on April 10, 2022 on Sitio San Jose, Bgy. Apurawan, Aborlan.

Present:

1. Maribel B. Favila, - Head Teacher I, Apurawan Elementary School
2. Maylende M. Esler. –Municipal Planning Development Office, LGU-Aborlan
3. Armen G. Molleno. – Municipal Agricultural Office, LGU-Aborlan
4. Harry S. Balladares – Representative, Business Sector
5. Jeto C. Conejos – Staff, Berong Nickel Corporation Staff, Berong Nickel Corporation
6. Marlon U. Saludarez – Faculty Member, Western Philippines University
7. Rodolfo O. Abalus, Jr. –co-Team Leader, EIA Team
8. Jeffrey H. de Castro – Member, EIA Team
9. Jandi G. Panolino – Faculty Member, Palawan State University
10. Edilberto S. Balladares – Vice President, Agri-business Association
11. Bernard M. Magsino – Staff, Berong Nickel Corporation
12. Dessa Jie Madarcos – Geologist, Berong Nickel Corporation
13. Deborah Arquio – Community Relations Officer, Berong Nickel Corporation
14. Renato Y. Sabat, Jr.- Mine Planning Engineer, Berong Nickel Corporation
15. Irel L. Hermosa – Teacher III, Apurawan National High School
16. Jaypee dela Cruz – Mine Environmental Protection and Enhancement Officer, BNC

## **I. Preliminaries**

The meeting officially commenced at 10:40 in the morning as the facilitator, Mr. Panolino welcomed the participants. Mr. Panolino led the opening prayer then proceeded to the introduction of the members/representatives present during the meeting.

## **II. Presentation of Project Overview by the BNC Team**

Participants of the FGD were briefly introduced to the proposed mining project as Engr. Sabat Jr., presented the company's background and the objectives of the project. He explained the basics details on Mineral Production Sharing Agreement (MPSA), a set-up to be made between the BNC and the Philippine government. Despite the projects business nature, the company assures that community development, livelihood, environment, and safety are also considered. Engr. Sabat Jr. ended his presentation by discussing the timeline of the mining project, starting from prospecting up to the decommissioning phase.

Next speaker, Mr. Jaypee dela Cruz, presented the summary of the baseline data gathered by the company. He noted that the flora and fauna present in the area are disturbed due to anthropogenic activities such as illegal logging operations in the past decades. The existing vegetation in the area are bio-indicators of heavy metals

present in the soil. Mr. Jaypee dela Cruz also informed the audiences that their team has conducted water samplings on creeks and major rivers for both dry and wet seasons. The discussion then continued to the BNC's environmental performance. He said that the company has neither received any notice of violations, letter of protest, nor complaint from government regulatory agencies such as DENR. The success behind was the commendable performance of BNC's Mining Environmental Protection and Enhancement Office (MEPEO) which employs 82 locals, 50-60% of which are indigenous peoples (IP). Regular monitoring of BNC's mining operations is also done by the Multipartite Monitoring Team (MMT). Mr. JP XXX also informed the participants that tree rehabilitation program is also being conducted by the company at a ratio 1:300, which is higher than that of the DENR recommendation 1:100. In the end, he showcased the environmental awards received by the company.

The next presentation by Ms. Arquio, focused on the community relations and the social and economic conditions of the impact areas. She said that there are two initiatives being pursued by the BNC. The first one is the Community Development Plan (CDP), which will be taken from the exploration work fund to be utilized for community project. Meanwhile, Social Development Management Plan (SDMP) will source from the 1.5% for the development and operations cost during mining operations. IPs will also benefit from the mining through memorandum of agreement (MOA) as well as royalty. Ms. Arquio cited that around 15% of the Aborlan population are considered direct beneficiaries of SDMP.

### **III. Perception of Stakeholders**

A perception survey in the form of FGD was facilitated by Dr. Abalus Jr. immediately followed after the discussion of the project overview. He recognized the presence of the participants coming from different sectors of the economy. He also explained the importance of a third party consultant in the EIA process.

The FGD started by identifying the participants' awareness level on the proposed mining project. Dr. Abalus Jr. first described the Likert scale to be used in the survey. Then, audience voted on the scale corresponding to their perceived awareness level.

Dr. Abalus Jr. then asked each of the participants about the reasons and factors which affected their response. Sir Harry Balladares said he only knew about the project during the orientation. Ms. Favila cited that she knew information about the project when her neighbours started applying for jobs for the exploration phase. Mr. Molleno responded that most of the details he got was from the IEC he attended last time. Meanwhile, Ms. Esler added that she joined the same IEC. As a result, she clarified to her colleagues the misconceptions about the project. She participated on the rapid biodiversity assessment on the project site and also was a part of the ECAN board which drafted the endorsement of the project. When asked about the reasons affecting her awareness level, Ms Lydia Salac said that she did not have prior information until the presentation of the project overview a while ago. Sir Edilberto Balladares asked the company's representative about the interventions taken to prevent coastline damage. Mr. Jaypee dela Cruz then cited that BNC conducts baseline data gathering and measures to reduce of soil Settling by using geotextile clothing and coco coir net. Use of these materials will prevent soil erosion

and retain water for vegetation. After each participant have given their reasons affecting their awareness level, voting followed and frequencies for each reason were recorded.

On the third part of the FGD, Dr. Abalus Jr. inquired about the audience' perception on the effects of the project to the community. Impact sectors (economic, social, environmental, agricultural, resettlement) and the scales to be used for rating were also thoroughly explained. The discussion then proceeded to the rating and frequencies on each scale were recorded. Participants raised their concerns on environmental aspect. As a response, Mr. Jaypee dela Cruz assured them that operations are strictly monitored monthly by the MMT. On another note, Mr. Saludarez said that the proposed project would provide great employment opportunities that will greatly benefit the community. He emphasized that there will be less need for the locals to seek for jobs at farther places. The participants then rated the impact of the project on the agricultural sector. Mr. Saludarez again commented that agriculture in the impact areas will be strengthened through the implementation of the SDMP and CDP. Following after, the impacts on other sectors were also rated by the participants.

On the last part of the FGD, participants were allowed to enumerate the positive and negative impacts associated with the mining project. These were done on each of the identified sectors. On the economic sector, some of the impacts raised were as follows: electrification, increased migration rate, better accessibility. Mr. Saludarez stated that the proponent may fund the construction of roads connecting the Brgy. Apurawan to the economic center of the municipality. Ms. Hermosa also noted that price inflation on commodities may arise in their barangay similar to what they experience in Brgy. Berong, Quezon. Dr. Abalus Jr. proceeded to ask the perceived impacts on the social sector. Ms Hermosa suggested that scholarship opportunities are one of the major social benefits from the project. While participants gave their responses, Ms Arquio clarified that the projects included in the SDMP must be chosen in accordance to the guidelines set by the Mines and Geosciences Bureau (MGB). Then, Mr. Saludarez said that children may now be more prone to mind corruption, which is a considered a negative impact. Other impacts on social component were also documented and the discussion proceeded to the environmental sector. Major environmental impacts expected from the project include the (1) conduct of reforestation, (2) setting up of an environmental monitoring system, (3) increase in the number of research related to biodiversity, (4) increased environmental awareness among locals, (5) more economical use of resource, (6) availability of data to the community, (6) tree cutting, (7) displacement of flora and fauna in the area, and (8) degradation of air and water quality. Meanwhile, the participants enumerated the following impacts on the agricultural sector: (1) support to agricultural activities, (2) increase in agricultural research, (3) availability of planting materials, (4) better transport system for agricultural products, (5) free agricultural trainings, (6) construction of irrigation systems, (7) water pollution leading to decrease in productivity, and (8) loss of soil fertility. Lastly, participants suggested that the project may affect the resettlement in the impact area. Ms. Hermosa said that better housing will be provided to those who will be displaced in the area. Meanwhile, Mr. Molleno added that a tenurial instrument will be given by the company to the relocated individuals.

## IV. Other Matters

To formally end the meeting, Dr. Abalus Jr. delivered his closing remarks in which he expressed his gratitude for the active participation of the attendees. He officially adjourned the meeting at 1:00 in the afternoon.

### Annex I. Results of Stakeholders' Perception Survey

The stakeholders' perception survey was conducted to study the viewpoints of the people and sectors affected by the proposed Long Point Nickel project. Among the factors analyzed are the positive and negative effects of the project on the economy or livelihood, social activities, environment, agriculture, and resettlement. The survey included representatives from the Local Government Unit (LGU), farmers, fisherfolks, businesses, academe, Indigenous People (IP), Non-Government Organizations (NGO), religious, and private sectors both from primary (barangay Apurawan) and secondary (barangay Culandanum) impact areas.

The team administered a survey questionnaire comprised of 3 parts: (1) respondent's personal information/profile, (2) awareness on the proposed project, and (3) perception towards the proposed project. In each impact area, a total of 100 project-affected stakeholders were interviewed, including at least ten (10) members from each sector. This distribution was carried out to ensure that each sector is well represented.

### C.1 Primary Impact Area: Barangay Apurawan

#### C.1.1 Profile of the Respondents

The study evaluated the profile of stakeholders in barangay Apurawan, in order to gain a deeper understanding of them and to confirm their eligibility as participants (**Table 1**). The majority of respondents (86%) were married, with males comprising 54% and females representing 46%. Ages 18 to 29 account for 12% of the total respondents, ages 30 to 39 for 31%, ages 40 to 49 for 30%, ages 50 to 59 for 5%, and ages 60 and older for 22%. Meanwhile, 38% attained a tertiary level of education, 31% acquired secondary education, 30% for elementary education, and 1% for post-graduate education. The primary source of income is farming (25%); followed by business (18%), including selling goods and grocery store earnings; government employment (18%), such as being a teacher and LGU employee; fishing (17%); private employment (14%); pension as a senior citizen (3%); and income from supporting family/children (1%). The team interviewed at least ten respondents from each sector and obtained responses from farmers (13%), private sectors (13%), Ips (12%), fisherfolks (11%), the business sector (11%), academe (10%), LGU (10%), NGO (10%), and religious sector (10%).

**Table 1.** Respondents' Profile of Barangay Apurawan (n=100)

| Variable      | Percentage |
|---------------|------------|
| <b>Gender</b> |            |

|            |    |
|------------|----|
| Male       | 54 |
| Female     | 46 |
| <b>Age</b> |    |
| 18-29      | 12 |
| 30-39      | 31 |
| 40-49      | 30 |
| 50-59      | 5  |

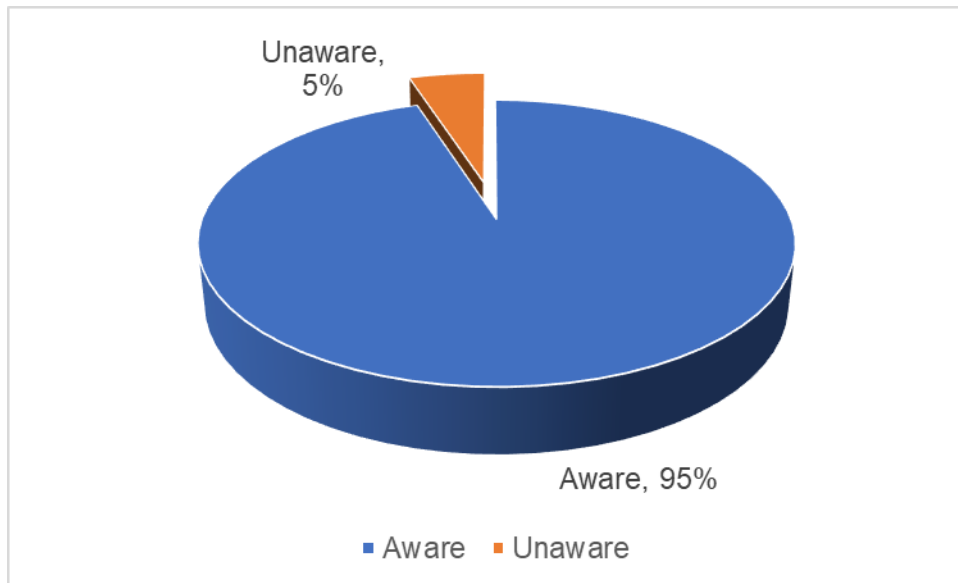
**Table 1.** continued...

|  |    |
|--|----|
| 60 and above   | 22 |
| <b>Civil Status</b>  |    |
| Single   | 9  |
| Married  | 86 |
| Widow  | 5  |
| Separated  | 0  |
| <b>Level of Education</b>                                  |    |
| Elementary   | 30 |
| Secondary  | 31 |
| Tertiary   | 38 |
| Post-Graduate  | 1  |
| <b>Source of Income</b>                                    |    |
| Farming  | 25 |
| Business (i.e., Selling of goods, grocery/sari-sari Store) | 18 |
| Government Employed  | 18 |
| Fishing  | 17 |
| Privately Employed   | 14 |
| Senior Citizen Pension                                     | 3  |
| Support from Family/Children                               | 1  |
| <b>Sector/ Organization</b>                                |    |
| Famer  | 13 |
| Private  | 13 |
| IP   | 12 |
| Fisherfolks  | 11 |
| Business   | 11 |
| Academe  | 10 |
| LGU  | 10 |
| NGO  | 10 |
| Religious  | 10 |

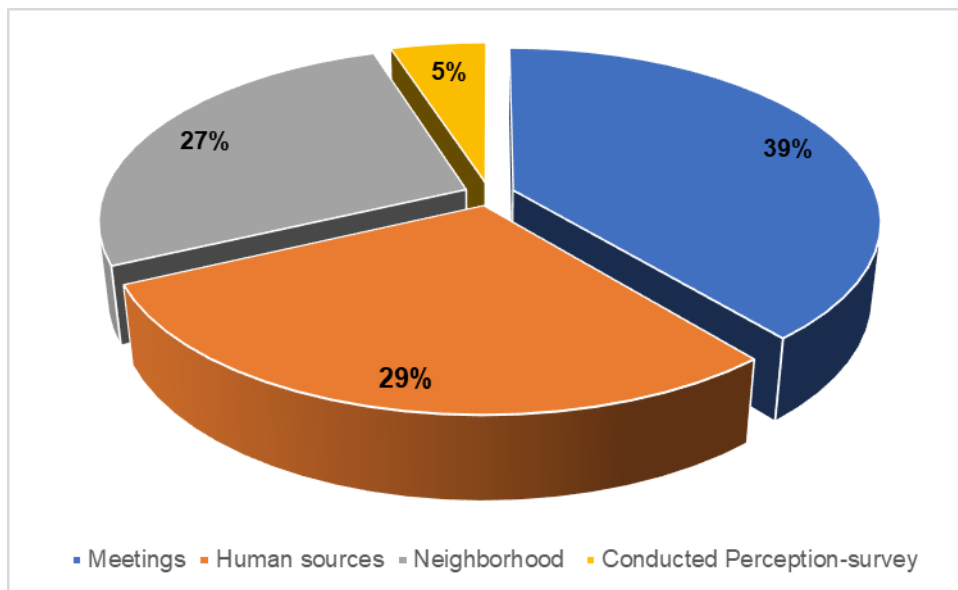
### C.1.2 Awareness on the Proposed Project

The perception interview began with assessing the respondent's knowledge of the proposed project. This was done to ascertain whether or not they knew about the project in their community. Most of them (95%) are aware, while some (5%) are unaware or have no idea at all (**Figure 1**). The team further assessed their level of awareness by determining the extent to which they were aware of it and the sources from which they had obtained the information. Among the recorded responses, 39%

learned about the project through the meetings attended, 29% through human sources or from someone they met, 27% through their neighborhood, and 5% from the perception survey conducted (**Figure 2**).



**Figure 1.** Awareness on the proposed Long Point Project.



**Figure 2.** Respondents' source of information

### C.1.3 Perception towards the Long Point Nickel project

After knowing the stakeholders' level of awareness, the perceptions of the respondents in terms of economy or livelihood, social activities, environment, agriculture, and resettlement towards the proposed Long Point nickel project were gathered. This was done by administering a 5-point Likert scale comprised of 5 positive and 5 negative statements (**Table 2**). The first, second, and fifth statements had an adjectival rating of "Agree" with a mean score of 3.72 ( $s=1.22$ ); 3.74 ( $s=1.08$ );

3.42 ( $s=1.12$ ), respectively. This may indicate that the respondents view the proposed project as beneficial in terms of economy/livelihood, social activities, and proper resettlement. In addition, survey statements 3 and 4, which asked about the project's positive effect on the environment and agriculture, recorded a rating of "neutral". Meanwhile, when asked about the project's negative effects on social activities, they tended to disagree with a mean score of 2.54 ( $s=1.12$ ). This could reflect that the community perceived the project's beneficial social effects as advantageous. Furthermore, respondents were undecided about the negative implications of the project, as shown by their "neutral" perception for statements 6, 8, 9, and 10.

**Table 2.** Perception of the stakeholders of Barangay Apurawan towards the proposed project ( $n=100$ ).

| Perception Statement   | Mean | SD   | Adjectival Rating* |
|--|------|------|--------------------|
| 1. I believe that the proposed project has a good/positive effect on the economy/livelihood in our area.       | 3.72 | 1.22 | <b>A</b>           |
| 2. I believe that the proposed project has a good/positive effect on the social activities in our area.        | 3.74 | 1.08 | <b>A</b>           |
| 3. I believe that the proposed project has a good/positive effect on the environment in our area.              | 3.00 | 1.14 | <b>N</b>           |
| 4. I believe that the proposed project has a good/positive effect on agriculture in our area.                  | 3.13 | 1.13 | <b>N</b>           |
| 5. I believe that there is a proper resettlement place for those affected by the proposed project in our area. | 3.42 | 1.12 | <b>A</b>           |
| 6. The proposed project has a negative impact on the economy/livelihood in our area.                           | 2.65 | 1.21 | <b>N</b>           |
| 7. The proposed project has a negative impact on the social activities in our area.                            | 2.54 | 1.12 | <b>D</b>           |
| 8. The proposed project has a negative impact on the environment in our area.                                  | 2.82 | 1.20 | <b>N</b>           |
| 9. The proposed project has a negative impact on agriculture in our area.                                      | 2.63 | 1.31 | <b>N</b>           |
| 10. The proposed project has a negative impact on the resettlement in our area.                                | 2.66 | 1.28 | <b>N</b>           |

Scale: 4.20 – 5.00      \*Legend: Strongly agree (SA)  
 3.40 – 4.19      Agree (A)  
 2.60 – 3.39      Neutral/Undecided (N)  
 1.80 – 2.59      Disagree (D)  
 1.00 – 1.79      Strongly disagree (SD)

The majority of Barangay Apurawan residents had a neutral view, as demonstrated by their responses on the 5-point Likert scale. Hence, the administered checkbox questions served to assess their thoughts toward the potential negative and positive outcomes of the project. Concerning the negative effects, most of the residents

(67%) stated that not everyone would be employed when the mining operation begins owing to age restrictions and job competition, and the mining activity might potentially create environmental damage. Furthermore, 64% said that it would raise the price of goods, while 63% stated that it would bring in more people from outside, which would boost competition at work and other economic operations. Only 35% felt that the peace and order would be disturbed, while 40% were unsure about the resettlement houses and land for those affected by the project.

In light of the perceived negative effects, there are numerous positive impacts that residents consider to be advantageous. With 77% agreeing, employment opportunity is one of the most recorded positive impacts while having peace and order in the area is the least acknowledged, with only 35% of the total respondents. Among the recorded advantages of the proposed project were additional income in the barangay/city, increased income to businesses and residents' livelihood, the potential to do business, more people from outside will come to the area, easy sale of local products, tree planting/ replacement, construction and maintenance of roads/highways, opportunity to study through scholarship, availability of electric supply, construction of health facilities, construction of schools and other infrastructure projects, providing planting materials to residents, having a good "internet or phone" signal, conducting meaningful seminars/training, raising public awareness of Long Point's environmental condition, encourage the youth to plan for the future, establishment of watershed instrumentation to monitor rainfall and other climate parameters, monitoring system to ensure safety and cleanliness of air and water, resettlement houses and land for those affected by the project, and monitoring system for the protection and conservation of biodiversity and soil.

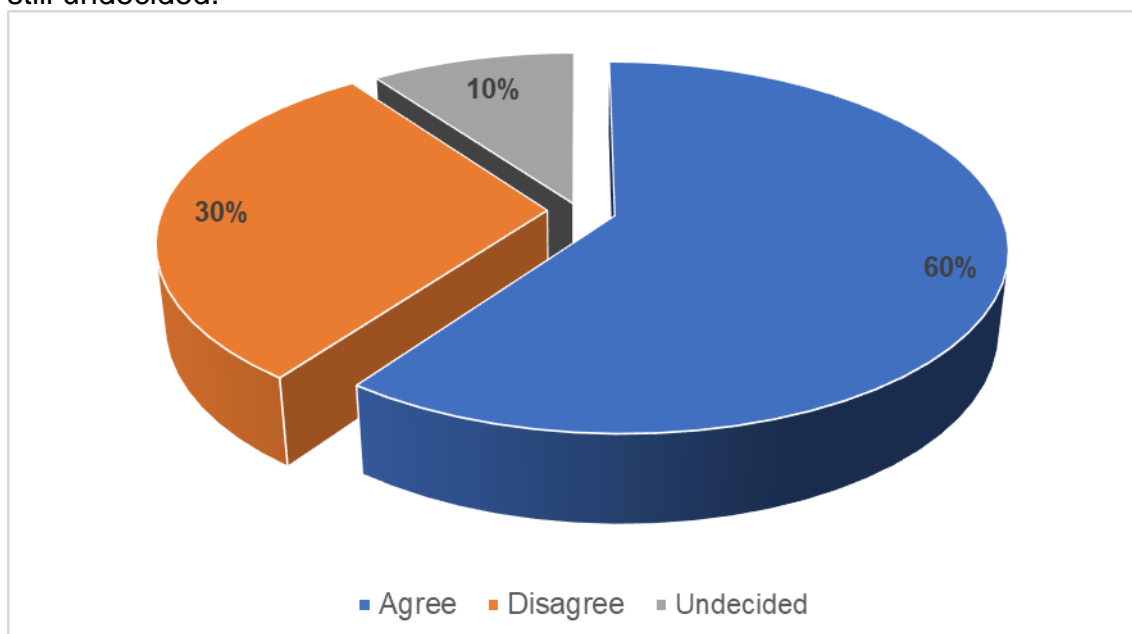
**Table 3.** The positive and negative impacts of the proposed Long Point Nickel project as perceived by the stakeholders of barangay Apurawan (n=100).

| Variable   | Percentage |
|--|------------|
| <b>Positive Impacts</b>  |            |
| Employment opportunity   | 77         |
| Additional income in the barangay/city                           | 75         |
| Increase income to business and livelihood of residents.         | 70         |
| Can do business  | 70         |
| More people from outside will come to our place                  | 65         |
| Easy sale of local products                                      | 62         |
| Tree planting/ replacement                                       | 59         |
| Construction and maintenance of roads/highways                   | 58         |
| Opportunity to study through scholarship                         | 58         |
| Availability of electric supply                                  | 57         |
| Construction of health facilities                                | 54         |
| Construction of schools and other infrastructure projects        | 52         |
| Providing planting materials to residents                        | 52         |
| Having a good "internet or phone" signal                         | 51         |
| Conducting meaningful seminars/training                          | 51         |
| Raising public awareness of Long Point's environmental condition | 48         |
| Encourage the youth to plan for the future                       | 47         |

Cont...Table 3.

| Variable  | Percentage |
|---|------------|
| <b>Positive Impacts</b>   |            |
| Establishment of watershed instrumentation to monitor rainfall and other climate parameters | 46         |
| Monitoring system to ensure safety and cleanliness of air and water                         | 45         |
| Resettlement houses and land for those affected by the project                              | 44         |
| Monitoring system for the protection and conservation of biodiversity and soil              | 41         |
| Having peace and order  | 35         |
| <b>Negative Impacts</b>   |            |
| Not everyone will be employed   | 67         |
| Environmental damage  | 67         |
| Increase in the price of goods  | 64         |
| More people from outside will come to our place   | 63         |
| Resettlement houses and land for those affected by the project                              | 40         |
| The peace in our community will be disturbed  | 35         |

The project's positive and negative effects are one of the factors residents think about when deciding whether or not to support the proposed Long Point nickel project. Hence, the question, "*In general, do you agree with the construction or operation of the proposed Long Point project?*" was asked; sixty percent (60%) of respondents gave their agreement, 30% expressed disagreement, and 10% were still undecided.



**Figure 3.** Barangay Apurawan stakeholders support to the project.

## C.2 Secondary Impact Area: Barangay Culandanum

## C.2.1 Profile of the Respondents

The respondents' profile in barangay Culandanum, a secondary impact area of the proposed project, was also evaluated (**Table 4**). The majority (86%) were married, with males comprising 31% and females representing 69%. Sixteen percent (16%) are between the ages of 18 and 29, 20% are between 30 and 39, ages 40 to 49 account for 25%, ages 50 to 59 for 16%, and 23% are aged 60 or older. Meanwhile, 24% attained elementary education, 44% acquired secondary education, 27% account for tertiary education, 1% obtained post-graduate education, and 4% chose not to disclose their education level. The respondents' main source of income is farming (52%); followed by business (16%), including selling goods and grocery store earnings; government employment (13%), such as being a teacher and LGU employee; fishing (13%); private employment (5%); and family/child assistance (1%). The team interviewed at least ten respondents from each sector, including farmers (13%), fishermen (13%), private (12%), IP (11%), the business sector (11%), academe (10%), LGU (10%), NGO (10%), and the religious sector (10%).

**Table 4.** Respondents' Profile of Barangay Culandanum (n=100).

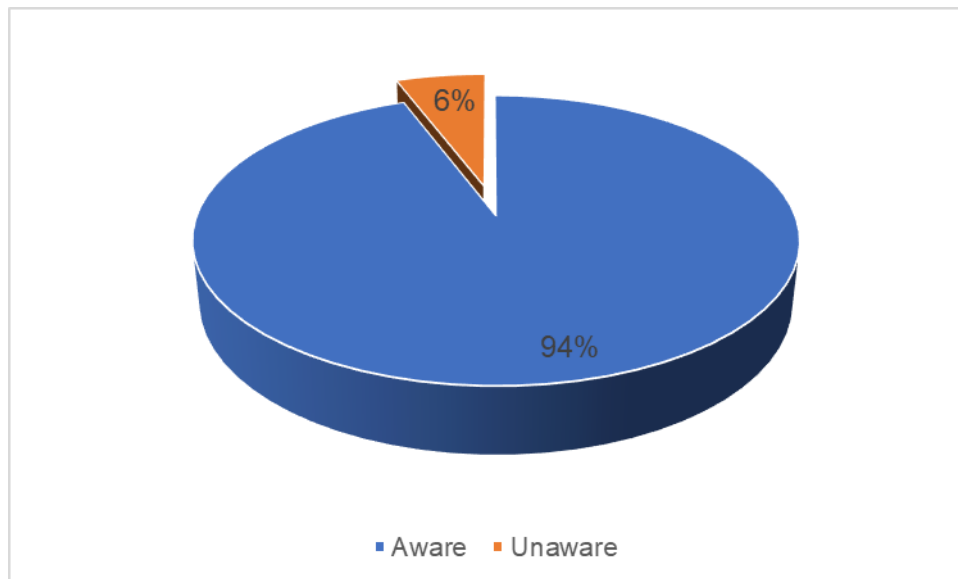
| Variable   | Percentage |
|--|------------|
| <b>Gender</b>  |            |
| Male   | 31         |
| Female   | 69         |
| <b>Age</b>   |            |
| 18-29  | 16         |
| 30-39  | 20         |
| 40-49  | 25         |
| 50-59  | 16         |
| 60 and above   | 23         |
| <b>Civil Status</b>  |            |
| Single   | 7          |
| Married  | 89         |
| Widow  | 3          |
| Separated  | 1          |
| <b>Level of Education</b>                                  |            |
| Elementary   | 24         |
| Secondary  | 44         |
| Tertiary   | 27         |
| Post-Graduate  | 1          |
| Prefer not to say  | 4          |
| <b>Source of Income</b>                                    |            |
| Farming  | 52         |
| Business (i.e., Selling of goods, grocery/sari-sari Store) | 16         |
| Government Employed  | 13         |
| Fishing  | 13         |
| Privately Employed   | 5          |
| Support from Family/Children                               | 1          |
| <b>Sector/ Organization</b>                                |            |

Cont... Table 4.

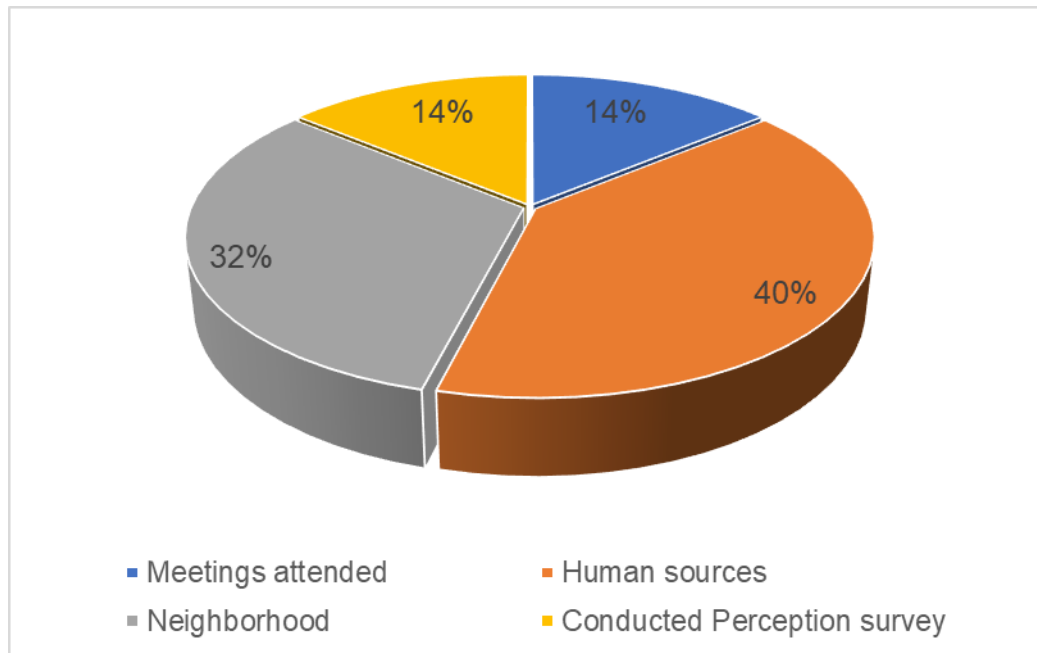
| <b>Sector/ Organization</b> |    |
|-----------------------------|----|
| Famer                       | 13 |
| Fisherfolks                 | 13 |
| Private                     | 12 |
| Business                    | 11 |
| IP                          | 11 |
| LGU                         | 10 |
| Academe                     | 10 |
| NGO                         | 10 |
| Religious                   | 10 |

### C.1.2 Awareness on the Proposed Project

As part of the secondary impact area, it is important to evaluate the residents' level of awareness, as they could be affected either directly or indirectly by the project. Most of them (94%) are aware, while some (6%) are unaware or have no idea at all (**Figure 4**). The team also looked at how well-informed they were and where they had learned the information. Among the responses recorded, 40% learned about the project through human sources or from someone they met, 32% through the neighborhood, 14% through the attended meetings, and 14% from the perception survey conducted (**Figure 5**).



**Figure 4.** Awareness on the proposed Long Point Project.



**Figure 5.** Respondents' source of information

### C.1.3 Perception towards the Long Point Nickel project

The respondents' perceptions in terms of economy or livelihood, social activities, environment, agriculture, and resettlement towards the proposed Long Point Nickel were also gathered. This was accomplished by distributing a 5-point Likert scale with 5 positive and 5 negative statements (**Table 5**). An adjectival rating of "Agree" for the first and second statements was 3.64 ( $s=0.847$ ) and 3.52 ( $s=0.771$ ), respectively. This may imply that the respondents view the proposed project as beneficial in terms of economy/livelihood and social activities. In addition, respondents were undecided about the negative implications of the project as shown by their "neutral" perception for statements 6, 7, 8, 9, and 10.

**Table 5.** Perception of the stakeholders of Barangay Culandanum towards the proposed project.

| Perception Statement   | Mean | SD    | Adjectival Rating* |
|--|------|-------|--------------------|
| 1. I believe that the proposed project has a good/positive effect on the economy/livelihood in our area.       | 3.64 | 0.847 | <b>A</b>           |
| 2. I believe that the proposed project has a good/positive effect on the social activities in our area.        | 3.52 | 0.771 | <b>A</b>           |
| 3. I believe that the proposed project has a good/positive effect on the environment in our area.              | 2.96 | 0.803 | <b>N</b>           |
| 4. I believe that the proposed project has a good/positive effect on agriculture in our area.                  | 3.14 | 0.816 | <b>N</b>           |
| 5. I believe that there is a proper resettlement place for those affected by the proposed project in our area. | 3.24 | 0.653 | <b>N</b>           |

Cont...Table 5

| Perception Statement   | Mean | SD    | Adjectival Rating* |
|--|------|-------|--------------------|
| 6. The proposed project has a negative impact on the economy/livelihood in our area. | 3.21 | 0.977 | <b>N</b>           |
| 7. The proposed project has a negative impact on the social activities in our area.  | 3.11 | 0.919 | <b>N</b>           |
| 8. The proposed project has a negative impact on the environment in our area.        | 3.30 | 1.059 | <b>N</b>           |
| 9. The proposed project has a negative impact on the agriculture in our area.        | 3.29 | 0.957 | <b>N</b>           |
| 10. The proposed project has a negative impact on the resettlement in our area.      | 3.06 | 0.862 | <b>N</b>           |

Based on their responses on the 5-point Likert scale, the majority of barangay Culandanum residents held a neutral opinion. The administered checkbox questions were used to gauge their attitudes on the project's potential negative and positive outcomes. Seventy-eight percent (78%) are concerned that the mining activities might cause environmental damage, and 75% are unsure about the resettlement homes and land for those affected by the project (**Table 6**). In addition, 69% said that age limitations and increased competition for jobs would mean that not everyone would be able to find work when mining operations begin, 42% thought that the price of goods might increase, while 4% felt that the peace and order would be disturbed. While there were some negative perceived effects, many positive effects were seen by locals. One of the most acknowledged impacts is the employment opportunity (90% agree) while having peace and order in the area is acknowledged by the fewest respondents (21%). Additionally, among the perceived advantages of the proposed project are additional income in the barangay/city, increased income to businesses and residents' livelihood, the potential to do business, more people from outside will come to the area, easy sale of local products, tree planting/ replacement, construction and maintenance of roads/highways, opportunity to study through scholarship, availability of electric supply, construction of health facilities, construction of schools and other infrastructure projects, providing planting materials to residents, having a good "internet or phone" signal, conducting meaningful seminars/training, raising public awareness of Long Point's environmental condition, encourage the youth to plan for the future, establishment of watershed instrumentation to monitor rainfall and other climate parameters, monitoring system to ensure safety and cleanliness of air and water, resettlement houses and land for those affected by the project, and monitoring system for the protection and conservation of biodiversity and soil.

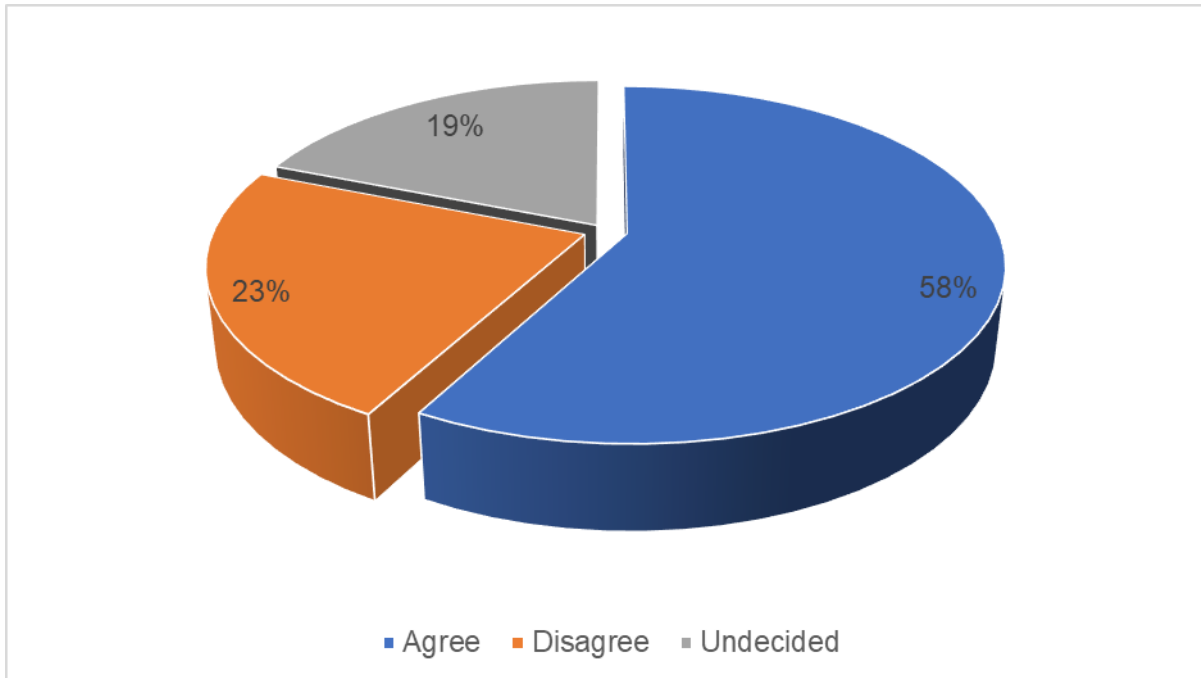
**Table 6.** The positive and negative impacts of the proposed Long Point Nickel project as perceived by the stakeholders of Barangay Culandanum (n=100).

| Variable  | Percentage |
|---|------------|
| <b>Positive Impacts</b>   |            |
| Employment opportunity  | 90         |
| Additional income in the barangay/city                              | 88         |
| Can do business   | 88         |
| Increase income to business and livelihood of residents.            | 83         |
| More people from outside will come to our place                     | 73         |
| Raising public awareness of Long Point's environmental condition    | 73         |
| Easy sale of local products   | 67         |
| Tree planting/ replacement  | 56         |
| Availability of electric supply                                     | 53         |
| Having a good "internet or phone" signal                            | 52         |
| Construction and maintenance of roads/highways                      | 44         |
| Opportunity to study through scholarship                            | 44         |
| Encourage the youth to plan for the future                          | 43         |
| Conducting meaningful seminars/training                             | 39         |
| Monitoring system to ensure safety and cleanliness of air and water | 35         |
| Construction of schools and other infrastructure projects           | 34         |

**Table 6.** continued...

|   |    |
|---|----|
| Providing planting materials to residents   | 34 |
| Resettlement houses and land for those affected by the project                              | 32 |
| Construction of health facilities   | 29 |
| Establishment of watershed instrumentation to monitor rainfall and other climate parameters | 29 |
| Monitoring system for the protection and conservation of biodiversity and soil              | 27 |
| Having peace and order  | 21 |
| <b>Negative Impacts</b>   |    |
| Environmental damage  | 78 |
| Resettlement houses and land for those affected by the project                              | 75 |
| Not everyone will be employed   | 69 |
| More people from outside will come to our place   | 66 |
| Increase in the price of goods  | 42 |
| The peace in our community will be disturbed  | 42 |

The idea that stakeholders' perceptions of the proposed project were reported as neutral indicates that they are neither in favor nor against the activity. This is parallel to the potential positive and negative effects they anticipated the project would have. As a result, the team sought their level of support to assess if they are agreeing or disagree with the project. Fifty-eight percent (58%) gave their agreement, 23% expressed disagreement, and 19% were still undecided (**Figure 6**).



**Figure 6.** Barangay Culandamun stakeholders support to the project

## Annex I\_A. Sample Accomplished Survey Form

### Stakeholders' Perception Survey Form Proposed Nickel Mining Project at Sitio Long Point, Apurawan, Aborlan, Palawan by the Berong Nickel Corporation (BNC)

Ang "Stakeholders' Perception Survey" na kasalukuyang isinasagawa ay isang pananaliksik o pagaaral upang masuri at maunawaan ang pananaw ng mga tao at ilang organisasyon o sektor na apektado sa iminungkahing proyektong pagmimina, ang Long Point Nickel Project. Kabilang sa pagaaralan ay ang mga positibo at negatibong epekto ng iminungkahing proyekto sa ekonomiya o kabuhasan (economy/livelihood), lipunan (social), kapaligiran (environment), agrikultura (agriculture), at lugar na paglilipatan (resettlement). Kaugnay nito, inihanda namin ang ilang mga talatanungan upang malaman ang kasalukuyang sitwasyon, mga saloobin, at mga reaksiyon tungkol sa proyekto. Kami ay humihiling ng iyong tapat na pagsagot sa mga sumusunod na aytem at tinitiyak namin na ang mga impormasyong iyong ibabahagi ay mananatiling kompidensyal. Maraming salamat!

Ang iyong lagda sa ibaba ay bumubuo ng iyong pahintulot na lumahok sa surbey na ito.

Lagda: Iyan  
Petsa: Sept 24, 2022

Direksyon: Punan ng angkop na impormasyon ang mga kasunod na patlang. Kung may pagpipilian, lagyan ng tsek (✓) ang kahon na tumutugma sa iyong sagot.

#### I. Personal na Impormasyon

Pangalan (Opsyonal): \_\_\_\_\_  
Kasarian: ☒ Lalaki ☐ Babae  
Edad: 40  
Estado Sibil: Kasal  
Tirahan (Barangay): Sto. Niño, Aborlan, Palawan  
Antas ng Edukasyon: ☐ Elementarya ☒ Sekundarya ☐ Kolehiyo ☐ Iba pa, pakilahad \_\_\_\_\_  
Pinagkakakitaan:  
▪ Pangunahin Construction  
▪ Iba pang pinagkakakitaan \_\_\_\_\_  
Organisasyon o sektor na Kinabibilangan: Private Sector

#### II. Pananaw tungkol sa iminungkahing proyektong pagmimina sa Sitio Long Point, Bgy. Apurawan, Aborlan, Palawan

##### A. Kaalaman sa iminungkahing proyekto

1. Alam mo ba ang iminungkahing proyektong pagmimina ng Berong Nickel Corporation sa Sitio Long Point, Bgy. Apurawan, Aborlan, Palawan?  
☒ Alam ☐ Hindi Alam
2. Kung alam, paano mo nalaman? (Tala: maaring i-tsek ang lahat ng sagot na naangkop)  
☐ Sa talakayan  
☐ Sa kapitbahay

- ☐ Sa nasalihang pagpupulong  
☐ Sa mga taong nakasalamuha  
☒ Ibang paraan, pakisulat: naobserbahan ang mga aktibidad

**B. Pananaw tungkol sa epekto ng proyekto sa komunidad**

1. Mangyaring bilugan ang iyong kasagutan. Tingnan ang "survey scale" para sa angkop at wastong rating.

*Survey Scale: 1 = Lubos na hindi sumasang-ayon (Strongly disagree); 2 = Hindi sumasang-ayon (Disagree); 3 = Hindi sigurado (Uncertain); 4 = Sumasang-ayon (Agree); 5 = Lubos na Sumasang-ayon (Strongly agree)*

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1. Naniniwala ako na may magandang dulot sa ekonomiya/kabuhayan (Economic/livelihood) ang iminungkahing proyekto sa aming lugar.        | 1 | 2 | 3 | 4 | 5 |
| 2. Naniniwala ako na may magandang dulot sa mga gawaing panlipunan (social) ang iminungkahing proyekto sa aming lugar.                  | 1 | 2 | 3 | 4 | 5 |
| 3. Naniniwala ako na may magandang dulot sa kapaligiran (environment) ang iminungkahing proyekto sa aming lugar.                        | 1 | 2 | 3 | 4 | 5 |
| 4. Naniniwala ako na may magandang dulot sa agrikultura (agriculture) ang iminungkahing proyekto sa aming lugar.                        | 1 | 2 | 3 | 4 | 5 |
| 5. Naniniwala ako na may maayos na lugar na paglilipatan (resettlement) para sa mga apektado ang iminungkahing proyekto sa aming lugar. | 1 | 2 | 3 | 4 | 5 |
| 6. Ang iminungkahing proyekto ay may negatibong dulot sa ekonomiya/kabuhayan (Economic/livelihood) sa aming lugar.                      | 1 | 2 | 3 | 4 | 5 |
| 7. Ang iminungkahing proyekto ay may negatibong dulot sa mga gawaing panlipunan (social) sa aming lugar.                                | 1 | 2 | 3 | 4 | 5 |
| 8. Ang iminungkahing proyekto ay may negatibong dulot sa kapaligiran (environment) sa aming lugar.                                      | 1 | 2 | 3 | 4 | 5 |
| 9. Ang iminungkahing proyekto ay may negatibong dulot sa agrikultura (agriculture) sa aming lugar.                                      | 1 | 2 | 3 | 4 | 5 |
| 10. Ang iminungkahing proyekto ay may negatibong dulot sa resettlement sa aming lugar.  | 1 | 2 | 3 | 4 | 5 |

2. Lagyan ng tsek (✓) ang kahon na tumutugma sa iyong sagot (Tala: maaring i-tsek ang lahat ng sagot na naangkop).

- a. Kung naniniwala ka na may magandang dulot ang iminungkahing proyekto sa iyong lugar, ano-ano ang mga ito?

- ☒ Pagkakaroon ng trabaho  
☒ Dagdag kita sa barangay/lungsod  
☐ Dagdag kita sa negosyo at kabuhayan ng mga residente  
☐ Pwedeng magnegosyo

- ☐ Madaling pagbenta ng mga lokal na produkto
  - ☒ Dadami ang mga taong taga labas na pupunta sa aming lugar
  - ☐ Paglikha/pagaayos ng mga kalsada
  - ☐ Pagtatayo ng mga pasilidad ng kalusugan
  - ☐ Pagtatayo ng mga paaralan at ibang pang proyektong imprastraktura
  - ☐ Pagkakataong makapagalar sa pamamagitan ng scholarship
  - ☐ Pagkakaroon ng kaayusan at kapayapaan
  - ☒ Mahikayat ang mga kabataan na magplano para sa kinabukasan
  - ☐ Pagkakaroon ng supply ng kuryente
  - ☐ Pagkakaroon ng maayos na "internet/phone" signal
  - ☐ Pagsasagawa ng mga makabuluhang seminar/pagsasanay
  - ☐ Pagsasagawa ng pagtanim/pagpapalit ng puno (tree planting/replacement)
  - ☐ Pagbibigay ng mga materyales sa pagtanim sa mga residente
  - ☐ Sistema ng pagsubaybay upang matiyak ang kaligtasan at kalinisan ng hangin at tubig
  - ☐ Sistema ng pagsubaybay para sa proteksyon at konserbasyon ng biodiversity at lupa
  - ☐ Pagpapaigting ng kamalayan ng publiko sa kalagayan ng kapaligiran ng Long Point
  - ☐ Pagbibigay ng malilipatang bahay at lupa para sa mga apektado ng proyekto
  - ☒ Pagtatag ng instrumentasyon ng watershed upang masubaybayan ang pagulan at iba pang parameter ng klima
  - ☐ Iba pang naiisip na magandang dulot ng iminungkahing proyekto, pakisulat:
- mapektuhan ang dagat
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

b. Kung naniniwala ka na may negatibong dulot ang iminungkahing proyekto, ano-ano ang mga ito?

- ☒ Pagtaas ng presyo ng mga bilihin
  - ☒ Hindi lahat ay magkakaroon ng trabaho
  - ☒ Magkakaroon ng kaguluhan sa aming lugar
  - ☒ Dadami ang mga taong taga labas na pupunta sa aming lugar
  - ☒ Pinsala sa kapaligiran
  - ☒ Paglipat sa bagong bagong matitirahan para sa mga apektado ng proyekto
  - ☐ Iba pang naiisip na negatibong dulot ng iminungkahing proyekto, pakilista:
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

c. Sa kabuoan, sang-ayon ka ba sa pagtatayo ng iminungkahing proyektong pagmimina ng Long Point Nickel?

- ☐ Sang ayon      ☒ Hindi Sang ayon      ☐ Iba pa, pakilahad

**Maraming Salamat Po!**

**Stakeholders' Perception Survey Form**  
**Proposed Nickel Mining Project at Sitio Long Point, Apurawan, Aborlan, Palawan by**  
**the Berong Nickel Corporation (BNC)**

Ang "Stakeholders' Perception Survey" na kasalukuyang isinasagawa ay isang pananaliksik o pagaaral upang masuri at maunawaan ang pananaw ng mga tao at ilang organisasyon o sektor na apektado sa iminungkahing proyektong pagmimina, ang Long Point Nickel Project. Kabilang sa pagaaralan ay ang mga positibo at negatibong epekto ng iminungkahing proyekto sa ekonomiya o kabuhayan (economy/livelihood), lipunan (social), kapaligiran (environment), agrikultura (agriculture), at lugar na paglilipatan (resettlement). Kaugnay nito, inihanda namin ang ilang mga talatanungan upang malaman ang kasalukuyang sitwasyon, mga saloobin, at mga reaksiyon tungkol sa proyekto. Kami ay humihiling ng iyong tapat na pagsagot sa mga sumusunod na aytem at tinitiyak namin na ang mga impormasyong iyong ibabahagi ay mananatiling kompidensyal. Maraming salamat!

Ang iyong lagda sa ibaba ay bumubuo ng iyong pahintulot na lumahok sa surbey na ito.

Lagda: Ajjeck E.  
Petsa: September 26, 2022

Direksyon: Punan ng angkop na impormasyon ang mga kasunod na patlang. Kung may pagpipilian, lagyan ng tsek (✓) ang kahon na tumutugma sa iyong sagot.

**I. Personal na Impormasyon**

Pangalan (Opsyonal): Ajjeck Esparagosa  
Kasarian: ☒ Lalaki ☐ Babae  
Edad: 40  
Estado Sibil: May Asawa (kasal)  
Tirahan (Barangay): Purok 5, Brgy. Kulandanum Aborlan, Palawan  
Antas ng Edukasyon: Elementarya ☒ Sekundarya ☐ Kolehiyo ☐ Iba pa, pakilahad \_\_\_\_\_  
Pinagkakakitaan:  
▪ Pangunahin Farming  
▪ Iba pang pinagkakakitaan \_\_\_\_\_  
Organisasyon o sektor na Kinabibilangan: Farmer

**II. Pananaw tungkol sa iminungkahing proyektong pagmimina sa Sitio Long Point, Bgy. Apurawan, Aborlan, Palawan**

**A. Kaalaman sa iminungkahing proyekto**

1. Alam mo ba ang iminungkahing proyektong pagmimina ng Berong Nickel Corporation sa Sitio Long Point, Bgy. Apurawan, Aborlan, Palawan?  
☒ Alam ☐ Hindi Alam
2. Kung alam, paano mo nalaman? (Tala: maaring i-tsek ang lahat ng sagot na naangkop)  
☒ Sa talakayan  
☐ Sa kapitbahay

- ☐ Sa nasalihang pagpupulong  
☐ Sa mga taong nakasalamuha  
☐ Ibang paraan, pakisulat: \_\_\_\_\_

**B. Pananaw tungkol sa epekto ng proyekto sa komunidad**

1. Mangyaring bilugan ang iyong kasagutan. Tingnan ang "survey scale" para sa angkop at wastong rating.

*Survey Scale: 1 = Lubos na hindi sumasang-ayon (Strongly disagree); 2 = Hindi sumasang-ayon (Disagree); 3 = Hindi sigurado (Uncertain); 4 = Sumasang-ayon (Agree); 5 = Lubos na Sumasang-ayon (Strongly agree)*

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1. Naniniwala ako na may magandang dulot sa ekonomiya/kabuhayan (Economic/livelihood) ang iminungkahing proyekto sa aming lugar.        | 1 | 2 | 3 | 4 | 5 |
| 2. Naniniwala ako na may magandang dulot sa mga gawaing panlipunan (social) ang iminungkahing proyekto sa aming lugar.                  | 1 | 2 | 3 | 4 | 5 |
| 3. Naniniwala ako na may magandang dulot sa kapaligiran (environment) ang iminungkahing proyekto sa aming lugar.                        | 1 | 2 | 3 | 4 | 5 |
| 4. Naniniwala ako na may magandang dulot sa agrikultura (agriculture) ang iminungkahing proyekto sa aming lugar.                        | 1 | 2 | 3 | 4 | 5 |
| 5. Naniniwala ako na may maayos na lugar na paglilipatan (resettlement) para sa mga apektado ang iminungkahing proyekto sa aming lugar. | 1 | 2 | 3 | 4 | 5 |
| 6. Ang iminungkahing proyekto ay may negatibong dulot sa ekonomiya/kabuhayan (Economic/livelihood) sa aming lugar.                      | 1 | 2 | 3 | 4 | 5 |
| 7. Ang iminungkahing proyekto ay may negatibong dulot sa mga gawaing panlipunan (social) sa aming lugar.                                | 1 | 2 | 3 | 4 | 5 |
| 8. Ang iminungkahing proyekto ay may negatibong dulot sa kapaligiran (environment) sa aming lugar.                                      | 1 | 2 | 3 | 4 | 5 |
| 9. Ang iminungkahing proyekto ay may negatibong dulot sa agrikultura (agriculture) sa aming lugar.                                      | 1 | 2 | 3 | 4 | 5 |
| 10. Ang iminungkahing proyekto ay may negatibong dulot sa resettlement sa aming lugar.  | 1 | 2 | 3 | 4 | 5 |

2. Lagyan ng tsek (✓) ang kahon na tumutugma sa iyong sagot (*Tala: maaring i-tsek ang lahat ng sagot na naangkop*).

- a. Kung naniniwala ka na may magandang dulot ang iminungkahing proyekto sa iyong lugar, ano-ano ang mga ito?

- ☒ Pagkakaroon ng trabaho  
☒ Dagdag kita sa barangay/lungsod  
☒ Dagdag kita sa negosyo at kabuhayan ng mga residente  
☒ Pwedeng magnegosyo

Annex I\_ B. Photo documentation of the conducted perception survey







Annex I\_C. Descriptive Statistics for Stakeholders' Perception via SPSS.

| Descriptive Statistics |           |           |            |                |
|------------------------|-----------|-----------|------------|----------------|
|                        | N         | Mean      |            | Std. Deviation |
|                        | Statistic | Statistic | Std. Error | Statistic      |
| Q1                     | 100       | 3.7200    | .11641     | 1.16411        |
| Q2                     | 100       | 3.7400    | .10600     | 1.06002        |
| Q3                     | 100       | 3.0000    | .12391     | 1.23909        |
| Q4                     | 100       | 3.1300    | .12115     | 1.21152        |
| Q5                     | 100       | 3.4200    | .11563     | 1.15627        |
| Q6                     | 100       | 2.6500    | .12092     | 1.20918        |
| Q7                     | 100       | 2.5400    | .10581     | 1.05811        |
| Q8                     | 100       | 2.8200    | .11839     | 1.18390        |
| Q9                     | 100       | 2.6300    | .12198     | 1.21983        |
| Q10                    | 100       | 2.6600    | .11390     | 1.13902        |
| Valid N (listwise)     | 100       |           |            |                |

| Descriptive Statistics |           |           |            |                |
|------------------------|-----------|-----------|------------|----------------|
|                        | N         | Mean      |            | Std. Deviation |
|                        | Statistic | Statistic | Std. Error | Statistic      |
| Q1                     | 100       | 3.6400    | .08471     | .84710         |
| Q2                     | 100       | 3.5200    | .07717     | .77172         |
| Q3                     | 100       | 2.9600    | .08030     | .80302         |
| Q4                     | 100       | 3.1400    | .08167     | .81674         |
| Q5                     | 100       | 3.2400    | .06532     | .65320         |
| Q6                     | 100       | 3.2100    | .09775     | .97747         |
| Q7                     | 100       | 3.1100    | .09200     | .91998         |
| Q8                     | 100       | 3.3000    | .10589     | 1.05887        |
| Q9                     | 100       | 3.2900    | .09566     | .95658         |
| Q10                    | 100       | 3.0600    | .08625     | .86246         |
| Valid N (listwise)     | 100       |           |            |                |

Filled questions re: Barangay Apurawan stakeholders' perception survey through Focus Group Discussion.

# PERCEPTION OF STAKEHOLDERS RELATED TO THE PROPOSED MINING PROJECT AT SITIO LONG POINT, APORAWAN, ABORLAN, PALAWAN

## 1. Awareness on the proposed project

| Level of Awareness |                  | Frequency |
|--------------------|------------------|-----------|
| 1                  | Unaware          | 2         |
| 2                  | Low awareness    | 2         |
| 3                  | Moderately aware | 2         |
| 4                  | Aware            | 1         |
| 5                  | Fully aware      |           |



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## 2. Reasons affecting the awareness of participants

| Reasons affecting the awareness of participants                      | Frequency |
|--|-----------|
| During the brief description made a while ago (April 10, 2022)       | 2         |
| Human sources  | 3         |
| Neighbor   | 2         |
| During IEC   | 2         |
| During RBA   | 2         |
| Part of the ECAN board in the drafting of endorsement of the project | 1         |
|  |           |
|  |           |

## 3. Perception on the effects of the project to the community

| Symbol | Description       |
|--------|-------------------|
| SD     | Strongly Disagree |
| D      | Disagree          |
| A      | Agree             |
| SA     | Strongly agree    |
| U      | Uncertain         |



### 3. Perception on the effects of the project to the community

| Area                      | SD | D     | A          | SA         | U |
|---------------------------|----|-------|------------|------------|---|
| ▪ Economic/livelihood     |    |       | I = 1      | IIIIII = 7 |   |
| ▪ Social                  |    |       | I = 1      | IIIIII = 7 |   |
| ▪ Environmental           |    |       | IIIIII = 7 | I = 1      |   |
| ▪ Agricultural/Fisheries* |    | I = 1 | IIIIII = 6 | I = 1      |   |
| ▪ Resettlement            |    |       | IIIIII = 6 | II = 2     |   |

*\*Additional suggestion of respondents*



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### 4. Perceived effects of the project to the community by issue

| Area                    | Positive  | Negative  |
|-------------------------|---|---|
| <b>Economic Effects</b> | Livelihood opportunities like stores, boarding house, talipapa, and the like  | Pagtaas ng presyo ng mga bilihan  |
|                         | Magkakaroon ng karagdagang trabaho  | Hindi lahat ay magkakaroon ng trabaho   |
|                         | Additional income for the government from barangay up to national government level  | Noise pollution (karaoke, ...)  |
|                         | Magkakaroon ng elektrisidad   | Magkaroon ng sudden change sa lifestyle through the flourishing of night clubs, bars, ... |
|                         | Increase migration rate   |   |
|                         | Increase access through creation of farm to market roads and a road connecting directly the municipality of Aborlan to Apurawan |   |
|                         | Better access to health services and facilities through SDMP  |   |
|                         | Easy marketing of locally produced products   |   |
|                         |   |   |

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## 4. Perceived effects of the project to the community by issue

| Area           | Positive  | Negative  |
|----------------|---|---|
| Social Effects | Better peace and order  | Children might be easily affected by their experiences in the community which negatively upset them |
|                | Scholarship opportunities   | Bisyo (sugal, inom, sabong, drugs, ...)   |
|                | Establishment of schools and infrastructure projects  |   |
|                | Establishment of Social Development and Management Program with 1.5% budget from the companies' operating cost  |   |
|                | More encouragement for the youth to plan for their future (e.g. <i>Presence of various professionals in the community which will inspire them to plan what course they intend to enroll</i> ) |   |
|                | Completion of pending health-related projects   |   |
|                | Better access to internet services  |   |
|                | Lessen the cases of child abuse/violence to children through IEC (sex abuse, neglect to children, child labor...)   |   |
|                | Develop a much broader perspective in life  |   |

## 4. Perceived effects of the project to the community by issue

| Area                  | Positive   | Negative                                  |
|-----------------------|--|---|
| Environmental Effects | 1:100 tree replacement   | Cutting of trees                          |
|                       | Monitoring system to ensure the safety and cleanliness of air, water, and protection and conservation of biodiversity and soil | Displacement of flora and fauna diversity |
|                       | Establishment of instrumentation of watershed to monitor and predict rainfall and other climatic parameters                    | Soil erosion                              |
|                       | Increased monitoring of biodiversity present in the area   | Water, soil and air quality               |
|                       | Increased public awareness on the state of the environment of Long point   |   |
|                       | More useful economic use   |   |
|                       | Availability/easy access of environmental information to the community   |   |
|                       |  |   |
|                       |  |   |

## 4. Perceived effects of the project to the community by issue

| Area                        | Positive   | Negative                                   |
|-----------------------------|--|--|
| <b>Agricultural Effects</b> | Sea cucumber propagation, seaweed farming, etc.                      | Water pollution                            |
|                             | Mechanization of farming   | Low productivity due to low soil fertility |
|                             | Research   |  |
|                             | Availability of planting materials (fruit trees, forest trees, etc.) |  |
|                             | Development of farm to market roads                                  |  |
|                             | Trainings and financial assistance related to agriculture            |  |
|                             | Improvement of farm irrigation                                       |  |
|                             |  |  |
|                             |  |  |
|                             |  |  |



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Annex J. Filled questions re: Barangay Culandatum stakeholders' perception survey through Focus Group Discussion.

# PERCEPTION OF STAKEHOLDERS RELATED TO THE PROPOSED MINING PROJECT AT SITIO LONG POINT, APURAWAN, ABORLAN, PALAWAN

## 1. Awareness on the proposed project

| Level of Awareness |                  | Frequency |
|--------------------|------------------|-----------|
| 1                  | Unaware          |           |
| 2                  | Low awareness    | 2         |
| 3                  | Moderately aware | 3         |
| 4                  | Aware            | 4         |
| 5                  | Fully aware      | 3         |



## 2. Reasons affecting the awareness of participants

| Reasons affecting the awareness of participants                                | Frequency |
|--|-----------|
| Movement of Berong personnel and vehicles                                      | 1         |
| Through meetings   | 3         |
| Human sources (Students' parents who are working at BNC, friends)              | 4         |
| Through BNC employees  | 1         |
| Schools supported by BNC through projects                                      | 2         |
| Through barangay officials and distant family members                          | 4         |
| Due to heavy workload no more time to entertain outside sources of information | 1         |
| Through IEC meeting  | 2         |
| <i>Note: Multiple responses may apply</i>                                      |           |

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## 3. Perception on the effects of the project to the community

| Symbol | Description       |
|--------|-------------------|
| SD     | Strongly Disagree |
| D      | Disagree          |
| A      | Agree             |
| SA     | Strongly agree    |
| U      | Uncertain         |



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### 3. Perception on the effects of the project to the community

| Area                      | SD | D | A  | SA | U |
|---------------------------|----|---|----|----|---|
| ▪ Economic/livelihood     |    | 1 | 5  | 6  |   |
| ▪ Social                  |    |   | 8  | 4  |   |
| ▪ Environmental           |    | 5 | 5  |    | 2 |
| ▪ Agricultural/Fisheries* |    |   | 11 |    | 1 |
| ▪ Resettlement            |    |   | 12 |    |   |



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### 4. Perceived effects of the project to the community by issue

| Area                    | Positive  | Negative   |
|-------------------------|---|--|
| <b>Economic Effects</b> | Livestock raising and fishing supported by BNC company                            | Slight competition with regards to job seeking/opportunities |
|                         | Employment opportunity  | Increase of prices on commodities due to high demand         |
|                         | Higher market opportunities of agricultural products                              |  |
|                         | Increase circulation of money/finances within the community                       |  |
|                         | Livelihood-related trainings  |  |
|                         | Increase barangay income through taxes  |  |
|                         | Increase in the number of investors   |  |
|                         | Establishment of infrastructure that supports economic activities in the locality |  |
|                         |   |  |
|                         |   |  |
|                         |   |  |
|                         |   |  |

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## 4. Perceived effects of the project to the community by issue

| Area                  | Positive   | Negative   |
|-----------------------|--|--|
| <b>Social Effects</b> | Scholarship opportunities  | Movement of vehicles and company staff may cause traffic |
|                       | Donation to schools through projects (infrastructure; equipment such as printer, computer, etc.) | Misallocation of funds derived from BNC share            |
|                       | Donation of health-related equipment/infrastructure such as ambulance, health center, etc.       |  |
|                       | Provision of emergency response, equipment, facilities, materials, etc.                          |  |
|                       |  |  |
|                       |  |  |
|                       |  |  |
|                       |  |  |
|                       |  |  |
|                       |  |  |



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## 4. Perceived effects of the project to the community by issue

| Area                         | Positive  | Negative   |
|------------------------------|---|--|
| <b>Environmental Effects</b> | Strengthen and intensify the greening of the barren/open lands through reforestation and agroforestry | Might affect the volume of fish catch by fishermen due to siltation of marine waters particularly in Long point area |
|                              | Constant monitoring of air and water quality  | Air pollution (alibabok)   |
|                              |   |  |
|                              |   |  |
|                              |   |  |
|                              |   |  |
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|                              |   |  |
|                              |   |  |
|                              |   |  |



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#### 4. Perceived effects of the project to the community by issue

| Area                        | Positive   | Negative  |
|-----------------------------|--|---|
| <b>Agricultural Effects</b> | Establishment of farm to market roads  | Low catch of marine products due to siltation of waters |
|                             | Agriculture-related equipment such as harvester, solar dryer, tractor, storage building, etc.    |   |
|                             | Funding on researches related to marine and terrestrial resources                                |   |
|                             | Diversification of agricultural crops produced   |   |
|                             | Conduct trainings related to crafting agricultural crops   |   |
|                             | Availability of planting materials (fruit trees, forest trees, high value crops, and cash crops) |   |
|                             | Higher demand of agricultural products within the local community                                |   |
|                             | Utilization of idle lands  |   |
|                             | Provision of fishery inputs such as boats, fishing nets, payao, hook and line)                   |   |
|                             | Provision of fingerlings for Tilapia and Banqus fry  |   |

#### 4. Perceived effects of the project to the community by issue

[illegible]

1991.001

**Photo-Documentation on the Focus Group Discussion (FGD) on the  
Proposed Long Point Nickel Mining Project Held on  
April 10, 2022 at Sitio San Jose,  
Bgy. Apurawan, Aborlan**





PERCEPTION OF STAKEHOLDERS RELATED TO THE PROPOSED MINING PROJECT  
AT SITIO LONG POINT, APURAWAN, ABORLAN, PALAWAN

10 April 2022

\_\_\_\_\_ Primary Impact Area  
 / Secondary Impact Area

### Attendance & Basic Information of Participants

[illegible]

PERCEPTION OF STAKEHOLDERS RELATED TO THE PROPOSED MINING PROJECT  
AT SITIO LONG POINT, APURAWAN, ABORLAN, PALAWAN

10 April 2022

Primary Impact Area  
 Secondary Impact Area

### Attendance & Basic Information of Participants

[illegible]

**FOCUS GROUP DISCUSSION**

**PERCEPTION OF STAKEHOLDERS RELATED TO THE PROPOSED MINING PROJECT  
AT SITIO LONG POINT, APURAWAN, ABORLAN, PALAWAN**

10 April 2022

☒ Primary Impact Area  
☐ Secondary Impact Area

**Attendance & Basic Information of Participants**

| Name                    | Address                      | Gender |   | Civil Status | Educational Attainment | Years of Stay in the Barangay | Monthly Income | Contact Information |
|-------------------------|------------------------------|--------|---|--------------|------------------------|-------------------------------|----------------|---------------------|
|                         |                              | M      | F |              |                        |                               |                |                     |
| MARIBEL B. FAVILA       | PUROK 1, APURAWAN, ABORLAN   |        | ✓ | M            | COLLEGE GRADUATE       | 20 YRS.                       | 33,143.00      | 09685243683         |
| MATILDE M. ESUEN        | PLANDID, ABORLAN, PAL.       |        | ✓ | W            | COLLEGE GRADUATE       | 38 YEARS                      | 13,598.00      | 09386134343         |
| LYDIA B. SALAC          | STD. NIND, APURAWAN          |        | ✓ | M            | H.S. Level             | 50 yrs.                       |                |                     |
| ARUEL G. MOLLENO        | PLANDID, ABORLAN, PAL.       | ✓      |   | M            | COLLEGE GRADUATE       | 21 yrs                        | 18,000.00      | 09286010191         |
| HARRY S. Ballantrios    | ST. NIND                     | ✓      |   | M            | H.S. Grad              | 42 yrs                        | 20,000         |                     |
| JETD C. CONESTOS        | STD. NIND APURAWAN           | ✓      |   | M            | COLLEGE GRAD.          | 35 yrs.                       | 33,000         | 09525405179         |
| MARION W. SALMORA       | SAN JUAN, ABORLAN            | ✓      |   | M            | POST GRADUATE          | 2 yrs                         | 33.00          | 0955771164          |
| Rodolfo C. Abalos, Jr.  |                              | ✓      |   | M            | Post Graduate          |                               | 33,000         | 09174622872         |
| Jeffrey H. de Castro    |                              | ✓      |   | M            | Post Graduate          |                               | 21,000         | 09298888871         |
| EDILBERTO S. BALVADARES | STD. NIND APURAWAN           | ✓      |   | M            | PLM. GRAD              | 42 yrs.                       | 8,000          | 09091852566         |
| BENJAMIN M. MASSINO     | BERONG, QUEZON               | ✓      |   | M            | COLLEGE DEGREE         | 10 yrs.                       |                | 09406800512         |
| DESSA UJE B. MADARCOS   | BERONG, QUEZON               |        | ✓ | F            | COLLEGE DEGREE         | 12 yr                         |                | 0983872744          |
| Deborah Aquino          | Berong, Quezon               |        | ✓ | F            | College Graduate       | 11 years                      |                | 0921402284          |
| RENATO Y. SABAT JR.     | Berong, Quezon               | ✓      |   | M            | COLLEGE                | 6 years                       |                | 09449474520         |
| JIM L. HERRERA          | STD. NIND, Apurawan, Aborlan |        | ✓ | M            | College Graduate       | 20 yrs.                       | 29,000.00      | 09385259834         |
|                         |                              |        |   |              |                        |                               |                |                     |
|                         |                              |        |   |              |                        |                               |                |                     |
|                         |                              |        |   |              |                        |                               |                |                     |
|                         |                              |        |   |              |                        |                               |                |                     |

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**FOCUS GROUP DISCUSSION**

**PERCEPTION OF STAKEHOLDERS RELATED TO THE PROPOSED MINING PROJECT  
AT SITIO LONG POINT, APURAWAN, ABORLAN, PALAWAN**

10 April 2022

/ Primary Impact Area  
— Secondary Impact Area

**Attendance & Basic Information of Participants**

| Name                   | Address                        | Gender |   | Civil Status | Educational Attainment | Years of Stay in the Barangay | Monthly Income | Contact Information |
|------------------------|--------------------------------|--------|---|--------------|------------------------|-------------------------------|----------------|---------------------|
|                        |                                | M      | F |              |                        |                               |                |                     |
| MARIBEL B. FAVILA      | Purok 1, Apurawan, Aborlan     |        | ✓ | M            | COLLEGE GRADUATE       | 20 YRS                        | 33,143.00      | 09685263683         |
| MATHEW M. BLER - MPDO  | Purabel, Aborlan (LUN-Aborlan) |        | ✓ | M            | COLLEGE GRADUATE       | 18 YEARS                      | 13,000.00      | 09286134243         |
| LYDIA B. SALAC         | STO. NINO APURAWAN             |        | ✓ | M            | H.S. LEVEL             | 50 "                          |                |                     |
| ARMEN G. MOLLENO - MAG | PLACIDEL, ABORLAN, PAL         | L      |   | M            | College Graduate       | 21 YRS                        | 18,000.00      | 09286161019         |
| HARRY S. Balladares    | STO. NINO                      | M      | ✓ | M            | H.S. Grad              | 40 YRS                        | 20,000.00      |                     |
| JED B. CONJOTOS        | STO. NINO, APURAWAN            | ✓      |   | M            | COLLEGE GRAD           | 25 YRS                        | 22,000.00      | 09505405749         |
| NARLON U. SALUDARTE    | San Juan, Aborlan              | ✓      |   | M            | POST GRADUATE          | 2 YRS                         | 33,000.00      | 09057771154         |
| Rodolfo O. Abalus, Jr. |                                | ✓      |   | M            | Post Graduate          |                               | 33,000.00      | 09131622572         |
| Jeffrey H. de Castro   |                                | ✓      |   | M            | Post Graduate          |                               | 27,000.00      | 09298880871         |
| EDILBERTO S. BALADARES | STO. NINO APURAWAN             | ✓      |   | M            | EDM. GRAD.             | 42 YRS                        | 8,000.00       | 09071856106         |
| DESA JIE B. MADAROS    | BNC, QUEZON                    |        | ✓ | S            | COLLEGE GRADUATE       | 1/2 year                      |                | 0918272744          |
| BERNARD M. MAGSINO     | BERONG, QUEZON                 | ✓      |   | M            | COLLEGE DEGREE         | 10 YEARS                      |                | 09406252512         |
| RENAN Y. SABAT JR.     | BERONG, QUEZON                 | ✓      |   | S            | COLLEGE                | 6 YEARS                       | 25,000.00      | 09470470522         |
| Deborah Arquid         | Berong, Quezon                 |        | ✓ | M            | College Graduate       | 11 years                      |                | 0924992806          |
| Jael L. Hernandez      | Sto. Nino, Apurawan, Aborlan   |        | ✓ | M            | College Graduate       | 20 YRS                        | 29,000.00      | 09385219994         |
| Jandi G. Parolino      | Sta. Monica, PPC               | ✓      |   | S            | Post Graduate          | 10 years                      | -              | 09355320114         |
|                        |                                |        |   |              |                        |                               |                |                     |
|                        |                                |        |   |              |                        |                               |                |                     |
|                        |                                |        |   |              |                        |                               |                |                     |
|                        |                                |        |   |              |                        |                               |                |                     |

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PERCEPTION OF STAKEHOLDERS RELATED TO THE PROPOSED MINING PROJECT  
AT SITIO LONG POINT, APURAWAN, ABORLAN, PALAWAN

☐ Primary Impact Area  
☐ Secondary Impact Area

| Attendance & Basic Information of Participants |                             |        |   |              |                        |                               |                |                     |
|--|-----------------------------|--------|---|--------------|------------------------|-------------------------------|----------------|---------------------|
| Name   | Address                     | Gender |   | Civil Status | Educational Attainment | Years of Stay in the Barangay | Monthly Income | Contact Information |
|  |                             | M      | F |              |                        |                               |                |                     |
| MARIBEL B. FAVILA                              | PURKOK T. APURAWAN, ABOREAL |        | ✓ | M            | COLLEGE GRADUATE       | 20 yrs                        | 23,100.00      | 0962243683          |
| MARTINEZ M. ESMER                              | PLAMING, ABOREAL, PAL       |        | ✓ | M            | COUNTRY GRADUATE       | 20 yrs                        | 15,000.00      | 0962243683          |
| LIDIA B. JALAC                                 | OTD NIND APURAWAN           |        | ✓ | M            | HS. Grad               | 50 yrs                        | 11,000.00      | 09286010145         |
| ARMANDO G. MOLLINO                             | DIKIDIS, ABOREAL, PAL       | ✓      |   | M            | COLLEGE GRADUATE       | 21 yrs                        | 30,000.00      | 0962243683          |
| MARRY S. Ballagares                            | SIDANAO                     | ✓      |   | M            | HS. Grad               | 12 yrs                        | 25,000.00      | 0962243683          |
| JETD C. CORDERO                                | OTD NIND APURAWAN           | ✓      |   | M            | COLLEGE GRAD           | 25 yrs                        | 33,000.00      | 0962243683          |
| MARLEN V. CORDERO                              | San Juan, AboREAL           | ✓      |   | M            | POST GRADUATE          | 2 yrs                         | 33,000.00      | 0962243683          |
| Rodolfo C. Alvarez, Jr.                        | San Juan, AboREAL           | ✓      |   | M            | Post Graduate          | 42 yrs                        | 21,000.00      | 0962243683          |
| Jeffrey H. de Casan                            | OTD NIND APURAWAN           | ✓      |   | M            | Post Graduate          | 10 yrs                        | 5,000.00       | 0962243683          |
| FILIBERTO S. BAZUADOR                          | BARANG, QUEZON              | ✓      |   | M            | COLLEGE GRADUATE       | 12 yrs                        | 25,000.00      | 0962243683          |
| ARNALDO M. MALLINO                             | BARANG, QUEZON              | ✓      |   | M            | COLLEGE GRADUATE       | 11 yrs                        | 25,000.00      | 0962243683          |
| DECCA LIE B. MACHADO                           | BARANG, QUEZON              | ✓      |   | M            | COLLEGE GRADUATE       | 6 yrs                         | 29,000.00      | 0962243683          |
| Deborah Atano                                  | BARANG, QUEZON              | ✓      |   | M            | COLLEGE GRADUATE       | 20 yrs                        | 29,000.00      | 0962243683          |
| RENAN V. SABAT JR.                             | OTD NIND APURAWAN, ABOREAL  | ✓      |   | M            | COLLEGE GRADUATE       | 20 yrs                        | 29,000.00      | 0962243683          |
| Inf L. HERRERA                                 |                             |        |   |              |                        |                               |                |                     |

## ANNEX K. Stakeholders' Perceptions

### Primary Impact Area: Barangay Apurawan

Awareness on the proposed project (n=8)

| Level of Awareness | Frequency |
|--------------------|-----------|
| Unaware            | 2         |
| Low awareness      | 2         |
| Moderately aware   | 2         |
| Aware              | 1         |
| Fully aware        | 1         |

Reasons affecting the awareness of participants (multiple response)

| Reasons affecting the awareness of participants                      | Frequency |
|--|-----------|
| During the brief description made a while ago (April 10,2022)        | 2         |
| Human sources  | 3         |
| Neighbor   | 2         |
| During IEC   | 2         |
| During RBA   | 2         |
| Part of the ECAN board in the drafting of endorsement of the project | 1         |

### Perception on the effects of the project to the community (n=8)

| Area                    | SD | D | A | SA | U |
|-------------------------|----|---|---|----|---|
| Economic/livelihood     |    |   | 1 | 7  |   |
| Social                  |    |   | 1 | 7  |   |
| Environmental           |    |   | 7 | 1  |   |
| Agricultural/Fisheries* |    | 1 | 6 | 1  |   |
| Resettlement            |    |   | 6 | 2  |   |

### Perceived effects of the project to the community by issue

| Area             | Positive                                       | Negative                          |
|------------------|--|-----------------------------------|
| Economic Effects | Livelihood opportunities like stores, boarding | Pagtaas ng presyo ng mga bilingin |

|                |   |   |
|----------------|---|---|
|                | house, talipapa, and the like   |   |
|                | Magkakaroon ng karagdagang trabaho  | Hindi lahat ay magkakaroon ng trabaho   |
|                | Additional income for the government from barangay up to national government level  | Noise pollution (karaoke, ...   |
|                | Magkakaroon ng elektrisidad   | Magkaroon ng sudden change sa lifestyle through the flourishing of night clubs, bars                |
|                | Increase migration rate   |   |
|                | Increase access through creation of farm to market roads and a road connecting directly the municipality of Aborlan to Apurawan |   |
|                | Better access to health services and facilities through SDMP  |   |
|                | Easy marketing of locally produced products   |   |
| Social Effects | Better peace and order  | Children might be easily affected by their experiences in the community which negatively upset them |
|                | Scholarship opportunities   | Bisyo (sugal, inom, sabong, drugs)  |
|                | Establishment of schools and infrastructure projects  |   |
|                | Establishment of Social Development and Management Program with 1.5% budget from the companies' operating                       |   |

|                       |   |   |
|-----------------------|---|---|
|                       | cost  |   |
|                       | More encouragement for the youth to plan for their future (e.g. <i>Presence of various professionals in the community which will inspire them to plan what course they intend to enroll</i> ) |   |
|                       | Completion of pending health-related projects   |   |
|                       | Better access to internet services  |   |
|                       | Lessen the cases of child abuse/violence to children through IEC (sex abuse, neglect to children, child labor...)   |   |
|                       | Develop a much broader perspective in life  |   |
| Environmental Effects | 1:100 tree replacement  | Cutting of trees                          |
|                       | Monitoring system to ensure the safety and cleanliness of air, water, and protection and conservation of biodiversity and soil  | Displacement of flora and fauna diversity |
|                       | Establishment of instrumentation of watershed to monitor and predict rainfall and other climatic parameters   | Soil erosion                              |
|                       | Increased monitoring of biodiversity present in the area  | Water, soil and air quality               |
|                       | Increased public awareness on the state of the environment of   |   |

|                      |  |  |
|----------------------|--|--|
|                      | Long point   |  |
|                      | More useful economic use   |  |
|                      | Availability/easy access of environmental information to the community |  |
| Agricultural Effects | Sea cucumber propagation, seaweed farming, etc.                        | Water pollution                            |
|                      | Mechanization of farming   | Low productivity due to low soil fertility |
|                      | Research   |  |
|                      | Availability of planting materials (fruit trees, forest trees, etc.)   |  |
|                      | Development of farm to market roads                                    |  |
|                      | Trainings and financial assistance related to agriculture              |  |
|                      | Improvement of farm irrigation   |  |
| Resettlement         | New house and tenured lot  | Transition to new environment              |

## Stakeholders' Perceptions

### Secondary Impact Area: Barangay Culandanum

Awareness on the proposed project (n=12)

| Level of Awareness |                  | Frequency |
|--------------------|------------------|-----------|
| 1                  | Unaware          | 2         |
| 2                  | Low awareness    | 3         |
| 3                  | Moderately aware | 4         |
| 4                  | Aware            | 3         |
| 5                  | Fully aware      | 1         |

Reasons affecting the awareness of participants (multiple response)

| Reasons affecting the awareness of participants                                | Frequency |
|--|-----------|
| Movement of Berong personnel and vehicles                                      | 1         |
| Through meetings   | 3         |
| Human sources (Students' parents who are working at BNC, friends)              | 4         |
| Through BNC employees  | 1         |
| Schools supported by BNC through projects                                      | 2         |
| Through barangay officials and distant family members                          | 4         |
| Due to heavy workload no more time to entertain outside sources of information | 1         |
| Through IEC meeting  | 2         |

Perception on the effects of the project to the community (n=12)

| Area                    | SD | D | A  | SA | U |
|-------------------------|----|---|----|----|---|
| Economic/livelihood     |    | 1 | 5  | 6  |   |
| Social                  |    |   | 8  | 4  |   |
| Environmental           |    | 5 | 5  |    | 2 |
| Agricultural/Fisheries* |    |   | 11 |    | 1 |
| Resettlement            |    |   | 12 |    |   |

### Perceived effects of the project to the community by issue

| Area             | Positive   | Negative   |
|------------------|--|--|
| Economic Effects | Livestock raising and fishing supported by BNC company   | Slight competition with regards to job seeking/opportunities |
|                  | Employment opportunity   | Increase of prices on commodities due to high demand         |
|                  | Higher market opportunities of agricultural products   |  |
|                  | Increase circulation of money/finances within the community                                      |  |
|                  | Livelihood-related trainings   |  |
|                  | Increase barangay income through taxes   |  |
|                  | Increase in the number of investors  |  |
|                  | Establishment of infrastructure that supports economic activities in the locality                |  |
| Social Effects   | Scholarship opportunities  | Movement of vehicles and company staff may cause traffic     |
|                  | Donation to schools through projects (infrastructure; equipment such as printer, computer, etc.) | Misallocation of funds derived from BNC share                |
|                  | Donation of health-related equipment/infrastructure such as ambulance, health center, etc.       |  |
|                  | Provision of emergency response, equipment, facilities, materials, etc.                          |  |
| Environmental    | Strengthen and intensify the   | Might affect the   |

|                      |  |   |
|----------------------|--|---|
| Effects              | greening of the barren/open lands through reforestation and agroforestry                         | volume of fish catch by fishermen due to siltation of marine waters particularly in Long point area |
|                      | Constant monitoring of air and water quality   | Air pollution (alika bok)   |
| Agricultural Effects | Establishment of farm to market roads  | Low catch of marine products due to siltation of waters   |
|                      | Agriculture-related equipment such as harvester, solar dryer, tractor, storage building, etc.    |   |
|                      | Funding on researches related to marine and terrestrial resources                                |   |
|                      | Diversification of agricultural crops produced   |   |
|                      | Conduct trainings related to crafting agricultural crops   |   |
|                      | Availability of planting materials (fruit trees, forest trees, high value crops, and cash crops) |   |
|                      | Higher demand of agricultural products within the local community                                |   |
|                      | Utilization of idle lands  |   |
|                      | Provision of fishery inputs such as boats, fishing nets, payao, hook and line)                   |   |
|                      | Provision of fingerlings for Tilapia and Bangus fry  |   |
| Resettlement         | Resettlement area of the displaced families  | Migration to areas near the proposed project  |

## ANNEX L EIA COVERAGE & REQUIREMENTS SCREENING CHECKLIST (ECRSC)

### EIA COVERAGE & REQUIREMENTS SCREENING CHECKLIST (ECRSC)

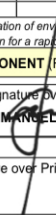

#### Purposes of the Screening Checklist:

1. Self-Screening Form by the Proponent (unofficial, for guidance purposes)
2. Screening Validation Form by the EMB (official; signed copy may be transmitted to banks, economic/industrial zone administrators, other users who request EMB validation or any entity EMB may want to inform)
3. Site Inspection Report Form by the EMB for ECC/CNC applications
4. Site Inspection Report Form by the EMB for suspected or reported projects operating without ECC

Instructions: Write legibly and put information or check mark (✓) in box, where appropriate.

| A. SCREENING FOR EIA COVERAGE AND REQUIREMENTS   |   |                  |            |                  |            |        |            |          |         |         |          |
|--|---|------------------|------------|------------------|------------|--------|------------|----------|---------|---------|----------|
| 1. Purpose of Screening  | <input checked="" type="checkbox"/> Proponent Self Screening for <input checked="" type="checkbox"/> ECC <input type="checkbox"/> CNC <input type="checkbox"/> ECC Amendment<br><input type="checkbox"/> EMB Screening for Validation <input type="checkbox"/> Inquiry<br><input type="checkbox"/> Site Inspection Report for: <input type="checkbox"/> ECC/CNC/Amendment <input type="checkbox"/> Proj w/out ECC |                  |            |                  |            |        |            |          |         |         |          |
| 2. Project Name  | Long Point Nickel Project   |                  |            |                  |            |        |            |          |         |         |          |
| 3. Project Location  | <p>Note: If project is in national waters or outside any LGU jurisdiction, pls state nearest LGU &amp; distance.</p> <table border="1"> <thead> <tr> <th>Sitio/s</th> <th>Barangay/s</th> <th>Municipality/ies</th> <th>Province/s</th> <th>Region</th> </tr> </thead> <tbody> <tr> <td>Long Point</td> <td>Aporawan</td> <td>Aborlan</td> <td>Palawan</td> <td>MIMAROPA</td> </tr> </tbody> </table>             | Sitio/s          | Barangay/s | Municipality/ies | Province/s | Region | Long Point | Aporawan | Aborlan | Palawan | MIMAROPA |
| Sitio/s  | Barangay/s  | Municipality/ies | Province/s | Region           |            |        |            |          |         |         |          |
| Long Point   | Aporawan  | Aborlan          | Palawan    | MIMAROPA         |            |        |            |          |         |         |          |
| 4. Proponent Name  | Berong Nickel Corporation   |                  |            |                  |            |        |            |          |         |         |          |
| 5. Proponent Address   | Berong Nickel Corporation (BNC) 3rd DMCI Homes Corporate Center, 1321 Apolinario Street, Bgy. Bangkal, Makati City, Philippines 1233  |                  |            |                  |            |        |            |          |         |         |          |
| 6. Contact Person Name   | <p>Mr. Ramon Manuel R. Briones<br/>Vice President for Operations</p> <p>Engr. Marc Raymund Zamora<br/>Resident Mine Manager</p> <p>Mr. Jonathan L. Pilién<br/>Corporate Community Relations Head</p> <p>Atty. Brenda D. Segovia<br/>Associate Legal Counsel</p>   |                  |            |                  |            |        |            |          |         |         |          |
| 7. Proponent Means of Contact  | <p>Landline : +63 2 823 7963; Fax : +63 2 831 6241<br/>           No : +63 2 831 2309 No.<br/>           Email : marc.raymund.zamora@gmail.com</p>  |                  |            |                  |            |        |            |          |         |         |          |
| 8. Project Type or Undertaking   | <p>Mining Exploration and Operations</p> <p>Refer to Table 1 for new single projects or for types of project components of co-located projects, and Annex 2-1c for ECC amendment/modification proposal (if not listed, use DTI official nomenclature and classification number)</p>   |                  |            |                  |            |        |            |          |         |         |          |
| 9. Project Status  | <input checked="" type="checkbox"/> New <input type="checkbox"/> Existing, for Modification (w/or w/out Expansion) <input type="checkbox"/> Operating without an ECC <input type="checkbox"/> Previously not covered  |                  |            |                  |            |        |            |          |         |         |          |
| 10. Main Project's Components for both Multi-component Single Project Applications and for Co-Located Project Applications | <p>Project Type C/C.3/C.3.b/C.3.b.2: Resource Extractive Industries/Major Mining and Quarrying Projects/Other Methods (Nickel, Surface Mining)</p> <p>Refer to Annex 2-1b for new projects and Annex 2-1c for ECC amendment/modification proposal (if not listed, use DTI official nomenclature and classification number);</p>   |                  |            |                  |            |        |            |          |         |         |          |
| 11. Project Size (main)  | Project Size* of Components   |                  |            |                  |            |        |            |          |         |         |          |

| project component and sub-components)   | 1. Main Component: C   | 3. Sub-component #2 C.3.b   | 5. Sub-component #4 |                   |   |     |     |  |  |  |  |
|---|--|-----------------------------|---------------------|-------------------|---|-----|-----|--|--|--|--|
|   | 2. Sub-Component #1: C.3   | 4. Sub-component #3 C.3.b.2 | Etc...              |                   |   |     |     |  |  |  |  |
| *e.g. Capacity (MW, m <sup>3</sup> , heads), production capacity (MT/year) and space allocation (km, ha.)<br>See Annex 2-1b for examples.   |  |                             |                     |                   |   |     |     |  |  |  |  |
| 12. Project Group based on Type of Threshold ONLY   | <p>Single Project <input checked="" type="checkbox"/> Group I (ECP) <input type="checkbox"/> Group II * (NECP in ECA)</p> <p>Co-located Project (Group IV) <input type="checkbox"/></p> <p>Unclassified Project (Group V) <input type="checkbox"/></p> <p>* All new Projects are initially assumed located in ECA. Thus, there is no Grp III in the first level screening.</p>   |                             |                     |                   |   |     |     |  |  |  |  |
| 13. EIA Report Type   | <p><input checked="" type="checkbox"/> EIS <input type="checkbox"/> PEIS <input type="checkbox"/> IEER <input type="checkbox"/> PDR</p> <p><input type="checkbox"/> EPRMP <input type="checkbox"/> PEPRMP <input type="checkbox"/> IEEC <input type="checkbox"/> Letter Request</p> <p>For EIA Report Types: Refer to Annex 2-1b for new projects, Annex 2-1c for modification, and Table 3 for further guidance</p> <p>- If a component has an EIA Report requirement at a higher level than the main project component being applied for (e.g. EIS for a support component, IEE for main project, the component's report type should be adopted as the application document for the entire project)</p> <p>NOTE: FOR PROJECTS UNDER Group I (all with EIS requirement) and Group II with PDR-threshold level), there is no need to undertake ECA screening. Step 13 is the final screening step. For projects under Group II with EIS or IEE threshold, proponent is advised to go to Step #14 if it wants the option to confirm the actual ECA status of the project for the purpose of determining non-coverage. If project location is confirmed non-ECA, project shall not be required any report type or ECC. However, if the Proponent wants the option to secure a CNC, it must submit a PDR.</p> |                             |                     |                   |   |     |     |  |  |  |  |
| 14. Environmental Criticality of Location (ONLY FOR GROUP II PROJECT W/ EIS & IEE-BASED THRESHOLDS & WANT TO KNOW NON-COVERAGE OPTION)  | <p>Fill out Table 2b first as basis for filling out the ECA Summary Table 2a, then check appropriate box below:</p> <p><input type="checkbox"/> ECA* <input checked="" type="checkbox"/> NECA** <input type="checkbox"/> Uncertain***</p> <p>*Any one confirmed ECA among the 12 ECA categories renders the project location an ECA.</p> <p>**All of the relevant ECA categories have to be confirmed by Proponent thru the mandated agencies as "not an ECA" before the project is considered a NECA. See footnote of Table 2b on "relevance" determination.</p> <p>***If no response or data from agencies, the "uncertain" rating renders the project location as ECA.</p> <p>For ECA Categories:</p> <table border="1"> <thead> <tr> <th>Specific Category</th> <th>Legal Basis or Official Name of Specific ECA Category</th> </tr> </thead> <tbody> <tr> <td>N/A</td> <td>N/A</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>   |                             |                     | Specific Category | Legal Basis or Official Name of Specific ECA Category | N/A | N/A |  |  |  |  |
| Specific Category   | Legal Basis or Official Name of Specific ECA Category  |                             |                     |                   |   |     |     |  |  |  |  |
| N/A   | N/A  |                             |                     |                   |   |     |     |  |  |  |  |
|   |  |                             |                     |                   |   |     |     |  |  |  |  |
|   |  |                             |                     |                   |   |     |     |  |  |  |  |
| 15. Final Project Group & EIA Report Type based on ECA Screening  | <p>Single Project <input type="checkbox"/> Group II (NECP in ECA) <input checked="" type="checkbox"/> Group III (NECP in NECA)</p>   |                             |                     |                   |   |     |     |  |  |  |  |
| 16. EIA Report Type   | <p><input checked="" type="checkbox"/> EIS <input type="checkbox"/> PEIS <input type="checkbox"/> IEER <input type="checkbox"/> PDR</p> <p><input type="checkbox"/> EPRMP <input type="checkbox"/> PEPRMP <input type="checkbox"/> IEEC <input type="checkbox"/> Letter Request</p> <p>For EIA Report Types: Refer to Annex 2-1b for new projects, Annex 2-1c for modification, and Table 3 for further guidance</p> <p>- If a component has an EIA Report requirement at a higher level than the main project being applied for (e.g. EIS for a support component, IEE for main project, the component's report type should be adopted as the application document for the entire project)</p>  |                             |                     |                   |   |     |     |  |  |  |  |
| 17. Processing/ Endorsing Authority   | <p><input checked="" type="checkbox"/> EMB CO Director <input type="checkbox"/> EIAMD Chief</p> <p>Refer to Table 3</p>  |                             |                     |                   |   |     |     |  |  |  |  |
| 18. Application Deciding Authority  | <p><input type="checkbox"/> EMB RO Director <input type="checkbox"/> EMB CO Director <input checked="" type="checkbox"/> DENR Secretary</p>  |                             |                     |                   |   |     |     |  |  |  |  |
| 19. Filing Fee  | PhP _____  |                             |                     |                   |   |     |     |  |  |  |  |
| <p><b>B. RAPID SCREENING FOR ENVIRONMENTAL ISSUES</b><br/>(Note: Optional for Proponent for Pre-Scoping Preparations; Required for EMB if project is required a Site Inspection Report prior to Substantive Review of procedurally-accepted applications)</p> |  |                             |                     |                   |   |     |     |  |  |  |  |

| 13. <b>EIA Report Type</b>  | <input checked="" type="checkbox"/> EIS<br><input type="checkbox"/> EPRMP<br><input type="checkbox"/> PEIS<br><input type="checkbox"/> PEPRMP<br><input type="checkbox"/> IEER<br><input type="checkbox"/> IEEC<br><input type="checkbox"/> PDR<br><input type="checkbox"/> Letter Request<br><p><i>For EIA Report Types: Refer to Annex 2-1b for new projects, Annex 2-1c for modification, and Table 3 for further guidance</i></p> <p>- If a component has an EIA Report requirement at a higher level than the main project component being applied for (e.g. EIS for a support component, IEE for main project, the component's report type should be adopted as the application document for the entire project)</p> <p><i>NOTE: FOR PROJECTS UNDER Group I (all with EIS requirement) and Group II with PDR-threshold level), there is no need to undertake ECA screening. Step 13 is the final screening step. For projects under Group II with EIS or IEE threshold, proponent is advised to go to Step #14 if it wants the option to confirm the actual ECA status of the project for the purpose of determining non-coverage. If project location is confirmed non-ECA, project shall not be required any report type or ECC. However, if the Proponent wants the option to secure a CNC, it must submit a PDR.</i></p> |                   |   |      |     |       |     |     |     |        |     |
|---|--|-------------------|---|------|-----|-------|-----|-----|-----|--------|-----|
| 14. <b>Environmental Criticality of Location (ONLY FOR GROUP II PROJECT W/ EIS &amp; IEE-BASED THRESHOLDS &amp; WANT TO KNOW NON-COVERAGE OPTION)</b>   | <p>Fill out Table 2b first as basis for filling out the ECA Summary Table 2a, then check appropriate box below:</p> <p><input type="checkbox"/> ECA*      <input checked="" type="checkbox"/> NECA**      <input type="checkbox"/> Uncertain***</p> <p><i>*Any one confirmed ECA among the 12 ECA categories renders the project location an ECA.</i></p> <p><i>**All of the relevant ECA categories have to be confirmed by Proponent thru the mandated agencies as "not an ECA" before the project is considered a NECA. See footnote of Table 2b on "relevance" determination.</i></p> <p><i>***If no response or data from agencies, the "uncertain" rating renders the project location as ECA.</i></p> <p><i>For ECA Categories:</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Specific Category</th><th style="width: 50%;">Legal Basis or Official Name of Specific ECA Category</th></tr> </thead> <tbody> <tr> <td>N/A</td><td>N/A</td></tr> <tr> <td> </td><td> </td></tr> <tr> <td> </td><td> </td></tr> </tbody> </table>   | Specific Category | Legal Basis or Official Name of Specific ECA Category | N/A  | N/A |       |     |     |     |        |     |
| Specific Category   | Legal Basis or Official Name of Specific ECA Category  |                   |   |      |     |       |     |     |     |        |     |
| N/A   | N/A  |                   |   |      |     |       |     |     |     |        |     |
|   |  |                   |   |      |     |       |     |     |     |        |     |
|   |  |                   |   |      |     |       |     |     |     |        |     |
| 15. <b>Final Project Group &amp; EIA Report Type based on ECA Screening</b>   | <p><input checked="" type="checkbox"/> <b>Single Project (NA)</b>      <input type="checkbox"/> <b>Group II (NECP in ECA)</b>      <input type="checkbox"/> <b>Group III (NECP in NECA)</b></p>  |                   |   |      |     |       |     |     |     |        |     |
| 16. <b>EIA Report Type</b>  | <input checked="" type="checkbox"/> EIS<br><input type="checkbox"/> EPRMP<br><input type="checkbox"/> PEIS<br><input type="checkbox"/> PEPRMP<br><input type="checkbox"/> IEER<br><input type="checkbox"/> IEEC<br><input type="checkbox"/> PDR<br><input type="checkbox"/> Letter Request<br><p><i>For EIA Report Types: Refer to Annex 2-1b for new projects, Annex 2-1c for modification, and Table 3 for further guidance</i></p> <p>- If a component has an EIA Report requirement at a higher level than the main project being applied for (e.g. EIS for a support component, IEE for main project, the component's report type should be adopted as the application document for the entire project)</p>   |                   |   |      |     |       |     |     |     |        |     |
| 17. <b>Processing/ Endorsing Authority</b>  | <input checked="" type="checkbox"/> EMB CO Director <input type="checkbox"/> EIAMD Chief<br><p>Refer to Table 3</p>  |                   |   |      |     |       |     |     |     |        |     |
| 18. <b>Application Deciding Authority</b>   | <input type="checkbox"/> EMB RO Director <input type="checkbox"/> EMB CO Director <input checked="" type="checkbox"/> DENR Secretary   |                   |   |      |     |       |     |     |     |        |     |
| 19. <b>Filing Fee</b>   | PhP _____  |                   |   |      |     |       |     |     |     |        |     |
| <b>B. RAPID SCREENING FOR ENVIRONMENTAL ISSUES</b><br><i>(Note: Optional for Proponent for Pre-Scoping Preparations; Required for EMB if project is required a Site Inspection Report prior to Substantive Review of procedurally-accepted applications)</i>  |  |                   |   |      |     |       |     |     |     |        |     |
| <p style="text-align: center;"><b>Site-specific (ECA/Non-ECA) Potential Key Environmental Issues</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Env'tl Component*</th><th style="width: 60%;">Potential Issues</th></tr> </thead> <tbody> <tr> <td>Land</td><td>N/A</td></tr> <tr> <td>Water</td><td>N/A</td></tr> <tr> <td>Air</td><td>N/A</td></tr> <tr> <td>People</td><td>N/A</td></tr> </tbody> </table> <p><small>*Use Table 2b as basis for identification of environmental and social issues likely associated with the project's location in specific ECA category/ies. Otherwise, issues may be identified thru site inspection for a rapid screening/ observation of the project environment.</small></p> |  | Env'tl Component* | Potential Issues                                      | Land | N/A | Water | N/A | Air | N/A | People | N/A |
| Env'tl Component*   | Potential Issues   |                   |   |      |     |       |     |     |     |        |     |
| Land  | N/A  |                   |   |      |     |       |     |     |     |        |     |
| Water   | N/A  |                   |   |      |     |       |     |     |     |        |     |
| Air   | N/A  |                   |   |      |     |       |     |     |     |        |     |
| People  | N/A  |                   |   |      |     |       |     |     |     |        |     |
| <b>SIGN-OFF PAGE FOR PROPONENT</b> (For any purpose the Proponent may intend the self-screening to be used)   |  |                   |   |      |     |       |     |     |     |        |     |
| Prepared by Proponent: Signature over Printed Name<br><div style="text-align: center;"> <br/> <b>RAMON MANUEL R. BRIONES</b> </div>  | Date of Signing (MM/DD/YYYY)<br><div style="text-align: center;"> <b>07/01/2022</b> </div>   |                   |   |      |     |       |     |     |     |        |     |
| Received by EMB: Signature over Printed Name<br><div style="text-align: center;">  </div>  | Date of Receipt (MM/DD/YYYY)   |                   |   |      |     |       |     |     |     |        |     |
| Remarks by EMB:   |  |                   |   |      |     |       |     |     |     |        |     |
| <b>SIGN-OFF PAGE FOR EMB</b> (For purposes # 2,3,4)   |  |                   |   |      |     |       |     |     |     |        |     |
| Prepared by EMB Region Office __: Signature over Printed Name   | Date of Signing (MM/DD/YYYY)   |                   |   |      |     |       |     |     |     |        |     |
| Remarks by EMB Regional Office:   |  |                   |   |      |     |       |     |     |     |        |     |

**Table 1. Project Types (in bold letters) and sub-types (*Put check in appropriate box*)**

| GROUP I (ECPs in both ECAs and NECA's)   | GROUP II (NECPs in ECAs)   | GROUP III (NECPs in NECA's)   |
|--|--|---|
| <input type="checkbox"/> <b>A. Golf Course Projects</b><br><input type="checkbox"/> A1. Golf course projects/complex   | <input type="checkbox"/> <b>A. Heavy Industries</b><br><input type="checkbox"/> A1. Iron and Steel Mills<br><input type="checkbox"/> A2. Non-Ferrous Metal Industries<br><input type="checkbox"/> A3. Petroleum and Petrochemical Industries<br><input type="checkbox"/> A4. Smelting Plants   | <input type="checkbox"/> <b>A. All Group II Project Types/Sub-Types in NECA</b> |
| <input type="checkbox"/> <b>B. Heavy Industries</b><br><input type="checkbox"/> B1. Iron and Steel Mills<br><input type="checkbox"/> B2. Non-Ferrous Metal Industries<br><input type="checkbox"/> B3. Petroleum and Petrochemical Industries<br><input type="checkbox"/> B4. Smelting Plants | <input type="checkbox"/> <b>B. Resource Extractive Industries</b><br><input type="checkbox"/> B1. Fishery Projects – Dikes for / and Fishpond Development Projects<br><input type="checkbox"/> B2. Forestry Projects<br><input type="checkbox"/> B3. Minor Mining and Quarrying Projects   |   |
| <input type="checkbox"/> <b>C. Resource Extractive Industries</b><br><input type="checkbox"/> C1. Fishery Projects – Dikes for / and Fishpond Development Projects<br><input type="checkbox"/> C2. Forestry Projects<br><input type="checkbox"/> C3. Major Mining and Quarrying Projects     | <input type="checkbox"/> <b>C. Infrastructure Industries</b><br><input type="checkbox"/> C1. Minor Dams<br><input type="checkbox"/> C2. Minor Power Plants<br><input type="checkbox"/> C3. Minor Reclamation Projects<br><input type="checkbox"/> C4. Minor Roads & Bridges<br><input type="checkbox"/> C5. Other Power Plant (not listed in Proclamation No. 2146)  |   |
| <input type="checkbox"/> <b>D. Infrastructure Projects</b><br><input type="checkbox"/> D1. Major Dams<br><input type="checkbox"/> D2. Major Reclamation Projects<br><input type="checkbox"/> D3. Major Roads & Bridges<br><input type="checkbox"/> D4. Major Power Plants                    | <input type="checkbox"/> <b>D. Agriculture Industry</b><br><input type="checkbox"/> D1. Agricultural Plantation (e.g. orchards, including rubber plantation)<br><input type="checkbox"/> D2. Agricultural Processing Facilities<br><input type="checkbox"/> D3. Cut-flower Industry/Projects<br><input type="checkbox"/> D4. Livestock Production  |   |
|  | <input type="checkbox"/> <b>E. Buildings, Storage Facilities and Other Structures</b><br><input type="checkbox"/> E1. Cemetery<br><input type="checkbox"/> E2. Commercial, [Business centers with residential units (mixed use), malls, supermarkets, public markets]<br>• Fast food/Restaurant Projects<br>• Commercial Establishments (i.e. Showrooms)<br><input type="checkbox"/> E3. Commercial, [office spaces only]<br>• Institutional and other related facilities: religious, government, and educational<br><input type="checkbox"/> E4. Facilities for Barangay Micro-Business Enterprises (BMBE) Projects<br><input type="checkbox"/> E5. Family dwellings<br><input type="checkbox"/> E6. Funeral parlors, crematório, columbarium<br><input type="checkbox"/> E7. Institutional and other related facilities: medical facilities<br><input type="checkbox"/> E8. Institutional and other structures with laboratory facilities<br><input type="checkbox"/> E9. Motels, Hotels, Condominium/ Apartelles (residential)<br><input type="checkbox"/> E10. LPG storage and refilling<br><input type="checkbox"/> E11. Refilling station projects / gasoline station projects<br><input type="checkbox"/> E12. Storage of petroleum, petrochemical or related products<br><input type="checkbox"/> E13. Storage facilities, non-toxic/hazardous materials, substances or products |   |

| GROUP I (ECPs in both ECAs and NECAs) | GROUP II (NECPs in ECAs)   | GROUP III (NECPs in NECAs) |
|---------------------------------------|--|----------------------------|
|                                       | <input type="checkbox"/> E14. Storage facilities, toxic or hazardous materials, substances or products<br><input type="checkbox"/> E15. Subdivision and housing projects, resettlement projects, economic and socialized housing project, open market housing and other similar (horizontal) land development projects<br><input type="checkbox"/> E16. Telecommunication Projects<br><b>F. Chemical Industries</b><br><input type="checkbox"/> F1. Manufacturing, processing and/or use of substances included in the Priority Chemical List<br><input type="checkbox"/> F2. Manufacture of explosives, propellants and industrial gases<br><input type="checkbox"/> F3. Manufacture of agri-chemicals and other industrial chemicals not in the PCL<br><input type="checkbox"/> F4. Pharmaceutical industries and manufacture of soap and detergents, health and beauty products, and other consumer products.<br><input type="checkbox"/> F5. Surface coating industries (paints, pigments, varnishes, lacquers, anti- capacity fouling coating, printing inks)<br><b>G. Cottage Industries</b><br><input type="checkbox"/> <b>H. Demonstration and Pilot Projects</b><br><input type="checkbox"/> <b>I. Environmental Enhancement and Environmental Mitigation Projects</b><br><input type="checkbox"/> I1. Artificial Reef<br><input type="checkbox"/> I2. Pollution control devices or facilities required under the ECC condition/s of the "main" project/s covered under Groups I or II.<br><input type="checkbox"/> I3. Pollution control devices or similar facilities intended to prevent emissions and/or discharges beyond allowable limits (e.g. for compliance with Clean Air Act or Clean Water Code).<br><input type="checkbox"/> I4. Preventive or proactive measures against potential natural hazards (such as shore protection, river embankment, river stabilization, seawall, etc.)<br><input type="checkbox"/> I5. Reforestation projects<br><b>J. Food and Related Industries</b><br><input type="checkbox"/> J1. Animal products processing (fish/meat processing, canning, slaughterhouses, etc.)<br><input type="checkbox"/> J2. Coconut processing plants (including production of coconut based products)<br><input type="checkbox"/> J3. Distillation and Fermentation Plants (e.g. bio-ethanol project)<br><input type="checkbox"/> J4. Food preservation (e.g., drying, freezing) and other methods aside from canning<br><input type="checkbox"/> J5. Fruit and vegetable processing<br><input type="checkbox"/> J6. Leather and related industries<br><input type="checkbox"/> J7. Other types of food (and other food by-products, additives, etc.) processing industries<br><input type="checkbox"/> J8. Processing of dairy products<br><input type="checkbox"/> J9. Sugar Mills<br><b>K. Manufacture of Other Products, e.g. Packaging Materials</b><br><input type="checkbox"/> K1. Glass-based products |                            |

| GROUP I (ECPs in both ECAs and NECAs) | GROUP II (NECPs in ECAs)   | GROUP III (NECPs in NECAs) |
|---------------------------------------|--|----------------------------|
| <input type="checkbox"/>              | K2. Metal-based products   |                            |
| <input type="checkbox"/>              | K3. Paper and plastic-based products   |                            |
| <input type="checkbox"/>              | <b>L. Pipeline Projects</b>  |                            |
| <input type="checkbox"/>              | L1. Fuel pipelines   |                            |
| <input type="checkbox"/>              | L2. Other pipelines  |                            |
| <input type="checkbox"/>              | <b>M. Service Industries</b> that do not emit pollutants except for domestic wastes and occupying a space equal to or less than limits specified in Groups I or II for infrastructure or other applicable project components needed in the service industry. |                            |
| <input type="checkbox"/>              | <b>N. Textile, Wood, Rubber Industries</b>   |                            |
| <input type="checkbox"/>              | N1. Textile, Wood, Rubber Industries   |                            |
| <input type="checkbox"/>              | N2. Wood and Metal Furniture Assembly  |                            |
| <input type="checkbox"/>              | <b>O. Tourism Industry</b>   |                            |
| <input type="checkbox"/>              | O1. Resorts and other tourism/leisure projects   |                            |
| <input type="checkbox"/>              | <b>P. Transport Terminal Facilities</b>  |                            |
| <input type="checkbox"/>              | P1. Airports   |                            |
| <input type="checkbox"/>              | P2. Land transport terminal (for buses, jeepneys and other modes of transportation)  |                            |
| <input type="checkbox"/>              | P3. Sea port, causeways, and harbors   |                            |
| <input type="checkbox"/>              | <b>Q. Treasure Hunting Projects in NIPAS</b>   |                            |
| <input type="checkbox"/>              | <b>R. Waste Management Projects</b>  |                            |
| <input type="checkbox"/>              | R1. Compost/fertilizer making  |                            |
| <input type="checkbox"/>              | R2. Domestic wastewater treatment facility   |                            |
| <input type="checkbox"/>              | R3. Hazardous waste treatment, recycling, and/or disposal facilities (for recycling of lead, see details in Group I - Heavy Industries)  |                            |
| <input type="checkbox"/>              | R4. Industrial and hospital waste (non-hazardous) materials treatment facilities   |                            |
| <input type="checkbox"/>              | R5. Landfill for industrial and other wastes   |                            |
| <input type="checkbox"/>              | R6. Materials Recovery Facilities  |                            |
| <input type="checkbox"/>              | R7. Receiving facilities, paper, plastic, and other materials recycling  |                            |
| <input type="checkbox"/>              | R8. Sanitary landfill for domestic wastes only   |                            |
| <input type="checkbox"/>              | <b>S. Water Supply, Irrigation or Flood Control Projects</b>   |                            |
| <input type="checkbox"/>              | S1. Impounding System or Flood Control Project   |                            |
| <input type="checkbox"/>              | S2. Irrigation System (Distribution System Only)   |                            |
| <input type="checkbox"/>              | S3. Water Supply Systems (Complete System)   |                            |
| <input type="checkbox"/>              | S4. Water Supply System (Distribution Only)  |                            |
| <input type="checkbox"/>              | <b>T. Wildlife Farming or any related projects as defined by PAWB</b>  |                            |

☐ GROUP IV (Co-located Projects)

☐ GROUP V (Unclassified Projects)

Refer to Annex 2-1b for specific EIA Report Types for new projects or to Annex 2-1c for specific report requirements for modification proposals.

**Table 2a. List of Environmentally Critical Areas (*Put check on appropriate box*)**

NOTE: Refer to Table 2b for technical description of ECA and basis for filling out this table

|  |  |  |
|--|--|--|
| <b>A. Areas declared by law as</b>   |  | <b>F. Areas frequently visited and or hard-hit by natural calamities</b> |
| A1. national parks   |  | F1. geologic hazards   |
| A2. watershed reserves   |  | F2. floods   |
| A3. wildlife preserves   |  | F3. typhoons   |
| A4. sanctuaries  |  | F4. volcanic activities  |
| <b>B. Areas set aside as aesthetic potential tourist spots</b>   |  | <b>G. Areas with critical slope</b>                                      |
| <b>C. Areas which constitute habitat for any endangered or threatened species of Philippine wildlife (flora and fauna)</b> |  | <b>H. Areas classified as prime agricultural lands</b>                   |
| <b>D. Areas of unique historic, archeological, geological, or scientific interests</b>                                     |  | <b>I. Recharged areas of aquifers</b>                                    |
| <b>E. Areas which are traditionally occupied by cultural communities or tribes</b>   |  | <b>J. Water bodies</b>   |
|  |  | <b>K. Mangrove Areas</b>   |
|  |  | <b>L. Coral Reefs</b>  |
|  |  |  |

**Table 2b. ECA Related Issues Screening Checklist for ENVIRONMENTALLY CRITICAL AREAS (ECAs) <sup>1</sup>**

| Technical Description of Twelve (12) ECA Categories   | The project falls within ECA description |    |           | Basis<br>a) State specific official declaration of ECA<br>b) List specific ECA at the project (e.g. slope) | Agency from where to get technical information (if not available from EMB) <sup>2</sup> |
|---|--|----|-----------|--|---|
|   | Yes                                      | No | Uncertain |  |   |
| <b>A. Areas declared by law as national parks, watershed reserves, wildlife preserves, and sanctuaries <sup>3</sup></b>   |  |    |           |  | <b>DENR-PAWB/ CENRO/PENRO</b>   |
| The laws referred to by this provision are Pres. Decree No. 705, as amended, otherwise called as the "Revised Forestry Code", Republic Act No. 7586 or the National Integrated Protected Areas System (NIPAS) Act, and other issuances including other proclamations, executive orders, local ordinances and international commitments and declarations.  |  |    |           |  |   |
| vcA "national park is defined under Section 4(c) of the NIPAS Act as a "forest reservation essentially of natural wilderness character which has been withdrawn from settlement, occupancy or any form of exploitation except in conformity with approved management plan and set aside as such exclusively to conserve the area or preserve the scenery, the natural and historic objects, wild animals and plants therein and to provide enjoyment of these features in such area." |  |    |           |  |   |
| A "wildlife sanctuary" is defined under Section 4(m) of the NIPAS Act as "an area, which assures the natural conditions necessary to protect nationally significant species, groups of species, biotic communities or physical features of the environment where these may require specific human manipulations for their perpetuation."  |  |    |           |  |   |
| All other protected areas covered by NIPAS shall likewise be included in this category.   |  |    |           |  |   |
| <b>B. Areas set aside as aesthetic, potential tourist spots</b>   |  |    |           |  | <b>DOT</b>  |
| Aesthetic potential tourist spots declared and reserved by the Department of Tourism (DOT) or other appropriate authorities for tourism development.  |  |    |           |  |   |
| <b>C. Areas which constitute the habitat for any endangered or threatened species of indigenous Philippine wildlife (flora and fauna) <sup>3</sup></b>  |  |    |           |  | <b>DENR-PAWB / CENRO / PENRO (whichever is</b>  |

<sup>1</sup> Any one (1) confirmed ECA among the 12 ECA categories renders the project location an ECA. However, before a project location is considered in a Non-ECA (NECA), all of the likely relevant /applicable ECA categories (e.g. coral reef as an ECA category is not relevant for a project situated up in the mountains) have to be confirmed by Proponent thru the mandated agencies as "not an ECA". Short-listing of relevant ECA categories shall be determined thru consultation with EMB. If there is no response or data from agencies on the request for confirmation, the "uncertain" rating renders the project location as ECA, per EMB protocols. The burden of proof lies with the Proponent in proving that the project is located in a NECA. DENR can only issue certification for ECA categories within its jurisdiction, as follows: water bodies by DENR-EMB; NIPAS areas, wildlife habitat and mangrove areas by DENR-PAWB and geologic hazards and areas in critical slope by DENR-MGB.

<sup>2</sup> Proponents claiming the project location is not located in an ECA must secure an official confirmation or conforme from the agency. The agency's confirmation should contain a statement that the project is located or not located within the applicable ECA technical criterion, or "unable to assess" due to lack or absence of information. In the case where there is no data from the agency, the proponent can gather information and submit it to the agency for evaluation and confirmation. The DENR shall not issue any certification beyond its jurisdiction, unless authorized by the respective agency with mandate on the ECA. In case no certification is obtained from the mandated agency, the location will be arbitrarily considered an ECA, following the Precautionary Principle. The word "certification" is applied only for the purpose of screening a project's coverage under the PEISS, and shall not in any way be considered a requirement for ECC/CNC application.

| Technical Description of Twelve (12) ECA Categories  | The project falls within ECA description |    |           | Basis<br>a) State specific official declaration of ECA<br>b) List specific ECA at the project (e.g. slope) | Agency from where to get technical information (if not available from EMB) <sup>2</sup> |
|--|--|----|-----------|--|---|
|  | Yes                                      | No | Uncertain |  |   |
|  |  |    |           |  | appropriate)  |
| This refers to areas considered as wilderness areas and areas identified by the Protected and Wildlife Bureau (PAWB) to be natural habitats of endangered or threatened, rare and indeterminate species of flora and fauna.  |  |    |           |  |   |
| 1. Indeterminate species shall refer to plant or animal species which are apparently endangered but where data currently available are insufficient for a reliable assessment.   |  |    |           |  |   |
| 2. Threatened species shall refer to any plant or animal species that is likely to become endangered species within the foreseeable future throughout all or just a significant portion of its range.  |  |    |           |  |   |
| 3. Rare species shall refer to plant or animal species, which are not under immediate threat of extinction but occurs in small numbers.  |  |    |           |  |   |
| 4. Endangered species shall refer to plant or animal species which are actively threatened with extinction and whose survival are unlikely without protective measures.  |  |    |           |  |   |
| <b>D. Areas of unique historic, archeological, geological, or scientific interests</b>   |  |    |           |  | <b>NM/NHI/NCCA</b><br>(Whichever is appropriate)  |
| This refers to areas which are more than 100 years old and declared by the National Historical Institute, National Museum or National Commission for Culture and the Arts, through national or local laws or ordinances as areas of cultural, historical and scientific significance to the nation, e.g. declared national historical landmarks, geological monuments, and paleontological and anthropological reservations. |  |    |           |  |   |
| <b>E. Areas which are traditionally occupied by cultural communities or tribes</b>   |  |    |           |  | <b>NCIP</b>   |
| This refers to all ancestral lands of National Cultural Communities identified in Sec. 1 of P.D. No. 410 and settlements designed, implemented and maintained by the PANAMIN for national minorities (non-Muslim hill tribes referred to in P.D. No. 719) as may be amended by Republic Act No. 8371 the Indigenous Peoples Rights Act of 1997 (IPRA) and its IRR.   |  |    |           |  |   |
| This also refers to all areas that are occupied or officially claimed as ancestral lands or ancestral domains by indigenous communities as determined by the National Commission on Indigenous Peoples (NCIP). Profs are the official applications or issuance of Certificate of Ancestral Domain Claim (CADC) or Certificate of Ancestral Domain Title (CADT) by NCIP.  |  |    |           |  |   |
| <b>F. Areas frequently visited and or hard-hit by natural calamities</b>   |  |    |           |  |   |
| The area shall be so characterized if any of the following conditions exist:   |  |    |           |  |   |
| <b>1. Geologic hazard areas:</b> This refers to all areas identified by the Mines Geosciences Bureau as geologic hazard areas.   |  |    |           |  | <b>DENR-MGB</b>   |

| Technical Description of Twelve (12) ECA Categories  | The project falls within ECA description |    |           | Basis<br>a) State specific official declaration of ECA<br>b) List specific ECA at the project (e.g. slope) | Agency from where to get technical information (if not available from EMB) <sup>2</sup> |
|--|--|----|-----------|--|---|
|  | Yes                                      | No | Uncertain |  |   |
| <b>2. Flood-prone areas:</b> This shall refer to low-lying areas usually adjacent to large active water bodies experiencing inundation of at least 2 meters, twice (2x) a year for the last five (5) years prior to the year of reckoning. For example, a determination made in 2007 will consider the available records from 2002 to 2006.      |  |    |           |  | LGU or NDCC   |
| <b>3. Areas frequently visited or hard-hit by typhoons:</b> This shall refer to all areas where typhoon signal no. 4 was hoisted for at least twice (2x) a year during the last five (5) years prior to the year of reckoning. For example, a determination made in 2007 will consider the weather records from 2002 to 2006.                    |  |    |           |  | DOST-PAGASA   |
| <b>4. Areas prone to volcanic activities/earthquakes:</b> This refers to all areas identified as such by Philippine Institute of Volcanology and Seismology (PHIVOLCS), e.g. areas within permanent exclusion zones of active volcanoes or areas within the required minimum buffer zone of fault zones as determined by PHIVOLCS <sup>4</sup> . |  |    |           |  | DOST-PHIVOLCS   |
| <b>G. Areas with critical slope:</b> This shall refer to all lands with slope of 50% or more classified as geohazard by MGB.   |  |    |           |  | DENR-MGB  |
| <b>H. Areas classified as prime agricultural lands:</b> Prime agricultural lands shall refer to lands that can be used for various or specific agricultural activities and can provide optimum sustainable yield with a minimum of inputs and developments costs as determined by the Department of Agriculture (DA).                            |  |    |           |  | DA  |
| <b>I. Recharge areas of aquifers</b>   |  |    |           |  | NWRB  |
| Recharge areas of aquifers shall refer to sources of water replenishment where rainwater or seepage actually enters the aquifers.  |  |    |           |  |   |
| Areas under this classification shall be limited to all local or non-national watersheds and geothermal reservations.  |  |    |           |  |   |
| <b>J. Water bodies <sup>3</sup>:</b> Water bodies shall refer to waters that are tapped for domestic purposes or those which support wildlife and fishery activities within declared protected areas, including the buffer zones   |  |    |           |  | DENR-PAWB / CENRO / PENRO (whichever is appropriate)                                    |
| <b>K. Mangrove Areas:</b> characterized by one or any combination of the following conditions:   |  |    |           |  |   |
| 1. with primary pristine and dense young growth  |  |    |           |  | DENR-PAWB   |
| 2. adjoining mouth or major river systems  |  |    |           |  | DENR-PAWB   |
| 3. near or adjacent to traditional productive fry or fishing grounds .   |  |    |           |  | LGU   |
| 4. which act as natural buffers against shore erosion, strong winds and storm floods   |  |    |           |  | DENR-PAWB   |
| 5. on which people are dependent for their livelihood, pursuant to and taking into consideration Republic Act No. 7161 which prohibits the cutting of mangrove species   |  |    |           |  | DENR-PAWB/LGU (whichever is appropriate)  |

| Technical Description of Twelve (12) ECA Categories   | The project falls within ECA description |    |           | Basis<br>a) State specific official declaration of ECA<br>b) List specific ECA at the project (e.g. slope) | Agency from where to get technical information (if not available from EMB) <sup>2</sup> |
|---|--|----|-----------|--|---|
|   | Yes                                      | No | Uncertain |  |   |
| <b>L. Coral Reefs:</b> characterized by one or any combination of the following conditions: |  |    |           |  |   |
| 1. With 50% and above live coralline cover  |  |    |           |  | <b>DA-BFAR</b>  |
| 2. Spawning and nursery grounds for fish  |  |    |           |  | <b>DA-BFAR</b>  |
| 3. Which act as a natural breakwater of coastlines  |  |    |           |  | <b>DPWH/Concerned LGU</b> (whichever is appropriate)                                    |

<sup>3</sup> The CENRO or PENRO can only issue ECA certification for project locations within NIPAS and within the DENR (i.e. areas within wildlife habitats and in water bodies) mandate, and shall not issue ECA certification for the rest of the ECA categories, unless there is an official and explicit authorization from the DENR-EMB Director or from the DENR Secretary that the CENRO/ PENRO is authorized based on a bilateral agreement with other concerned government agencies with mandate on the ECA category.

<sup>4</sup> Supreme Court Decision on Case of DENR Region XI (Petitioner) vs. City of Davao (Respondent), (G.R. # 148622, September 12, 2002): "area outside the required minimum of five (5) meters from the fault zone" has been certified by PHILVOCS as not critical, and such certification has been considered by the SC as proof on non-ECA status of the area

**Table 3. Table on Project Groups, EIA Report Types, Decision Documents, Processing/Deciding Authorities and Processing Duration**

| PROJECT GROUPS/SUB-GROUPS  |  | APPLIED TO  | DOCUMENTS REQUIRED FOR ECC/CNC APPLICATION                                 | DECISION DOCUMENT            | PROCESSING RESPONSIBILITY <sup>1</sup><br>(Endorsing Official) | DECIDING AUTHORITY               | MAX TIME TO GRANT OR DENY ECC APPLICATION<br>(Working Days) |
|--|--|---|--|------------------------------|--|----------------------------------|---|
| <b>I: Environmentally Critical Projects (ECPs) in either Environmentally Critical Area (ECA) or Non-Environmentally Critical Area (NECA)</b> | <b>I - A: New</b>  | Single Projects                                   | Environmental Impact Statement (EIS)                                       | ECC                          | CO: EIAMD Chief /<br>EMB Director                              | EMB Director /<br>DENR Secretary | 120 days  |
|  | <b>I - B: Existing Projects for Modification or Re-start up (subject to conditions in Annex 2-1c)</b>  | Single Projects                                   | Environmental Performance Report and Management Plan (EPRMP) *             | ECC                          | CO: EIAMD Chief /<br>EMB Director                              | EMB Director /<br>DENR Secretary | 90 days   |
|  | <b>I - C: Operating without ECC</b>  | Single Projects                                   | Environmental Performance Report and Management Plan (EPRMP) *             | ECC                          | CO: EIAMD Chief /<br>EMB Director                              | EMB Director /<br>DENR Secretary | 90 days   |
| <b>II: Non-Environmentally Critical Projects (NECPs) in Environmentally Critical Area (ECA)</b>  | <b>II - A: New</b>   | Single Projects                                   | Environmental Impact Statement (EIS)                                       | ECC                          | RO: EIAMD Chief  | EMB RO Director                  | 60 days   |
|  |  |   | Initial Environmental Examination Report (IEER)                            | ECC                          | RO: EIAMD Chief  | EMB RO Director                  | 60 days   |
|  |  |   | Initial Environmental Examination Checklist (IEEC)                         | ECC                          | RO: EIAMD Chief  | EMB RO Director                  | 30 days   |
|  |  |   | Project Description Report (PDR)   | ECC                          | RO: EIAMD Chief  | EMB RO Director                  | 15 days   |
|  | <b>II - B: Existing Projects for Modification or Re-start up (subject to conditions in Annex 2-1c)</b> | Single Projects                                   | Environmental Performance Report and Management Plan (EPRMP) *             | ECC                          | RO: EIAMD Chief  | EMB RO Director                  | 30 days   |
|  | <b>II - C: Operating without ECC</b>   | Single Projects                                   | Environmental Performance Report and Management Plan (EPRMP) *             | ECC                          | RO: EIAMD Chief  | EMB RO Director                  | 30 days   |
| <b>III: Non-Environmentally Critical Projects (NECPs) in Non-Environmentally Critical Area (NECA)</b>  | <b>III - A1: New (Enhancement &amp; Mitigation Projects)</b>   | Single Projects                                   | Project Description Report (PDR) (REQUIRED)                                | CNC                          | CO: EIAMD Chief  | EMB Director                     | 15 days   |
|  |  |   |  |                              | RO: EIAMD Chief  | EMB RO Director                  |   |
|  | <b>III - A2: New (All Other Group II Projects Types/Sub-types in NECA)</b>                             | Single Projects                                   | Project Description Report (PDR) (AT OPTION OF PROPONENT)                  | CNC                          | CO: EIAMD Chief  | EMB Director                     | 15 days   |
|  |  |   |  |                              | RO: EIAMD Chief  | EMB RO Director                  |   |
| <b>IV: Co-located Projects</b>   | <b>IV - A: New</b>   | Co-located Projects composed of Group I Projects  | Programmatic Environmental Impact Statement (PEIS)                         | ECC                          | CO: EMB Director   | CO: DENR Secretary               | 180 days  |
|  |  | Co-located Projects composed of Group II Projects | Programmatic Environmental Impact Statement (PEIS)                         | ECC                          | RO: EIAMD Chief  | EMB RO Director                  | 60 days   |
|  | <b>IV - B: Existing Projects for Modification or Re-start up of Co-located Projects</b>                | Co-located Projects composed of Group I Projects  | Programmatic Environmental Performance Report and Management Plan (PEPRMP) | ECC (new) /<br>ECC Amendment | CO: EMB Director   | CO: DENR Secretary               | 120 days  |
|  |  | Co-located Projects composed of Group II Projects | Programmatic Environmental Performance Report and Management Plan (PEPRMP) | ECC (new) /<br>ECC Amendment | RO: EIAMD Chief  | EMB RO Director                  | 60 days   |

| PROJECT GROUPS/SUB-GROUPS  |                               | APPLIED TO   | DOCUMENTS REQUIRED FOR ECC/CNC APPLICATION  | DECISION DOCUMENT   | PROCESSING RESPONSIBILITY <sup>1</sup><br>(Endorsing Official)                             | DECIDING AUTHORITY                                   | MAX TIME TO GRANT OR DENY ECC APPLICATION<br>(Working Days) |
|--|-------------------------------|--|---|---|--|--|---|
|  | IV - C: Operating without ECC | Co-located Projects composed of Group I Projects                   | Programmatic Environmental Performance Report and Management Plan (PEPRMP)  | ECC (new) / ECC Amendment                                 | CO: EMB Director   | CO: DENR Secretary                                   | 120 days  |
|  |                               | Co-located Projects composed of Group II Projects                  | Programmatic Environmental Performance Report and Management Plan (PEPRMP)  | ECC (new) / ECC Amendment                                 | RO: EIAMD Chief  | EMB RO Director                                      | 60 days   |
| V: Unclassified Projects   | V - A: New                    |  | Project Description Report (PDR) (REQUIRED)   | CNC or Recommendation on Final Grouping & EIA Report Type | CO: EIAMD Chief / EMB Director<br>RO: EIAMD Chief  | CO: EMB Director / DENR Secretary<br>EMB RO Director | 15 days   |
| * IF THE MODIFICATION DOES NOT REQUIRE A PEPRMP or EPRMP BASED ON ANNEX 2-1C, THE FOLLOWING APPLY: |                               |  |   |   |  |  |   |
| Request for Minor ECC Amendment  |                               | Single Projects with Applicable Modifications listed in Annex 2-1c | Letter Request  | ECC Amendment   | CO: EIAMD Review & Evaluation Section Chief<br>RO: EIAMD Review & Evaluation Section Chief | CO: EIAMD Chief<br>RO: EIAMD Chief                   | 7 days  |
| Request for Major ECC Amendment  |                               | Single Projects with Applicable Modifications listed in Annex 2-1c | Letter Request and/or Updated Project Description or selected portions of the EIA Report (e.g. Baseline or impact assessment or EMP on the areas of amendment only) | ECC Amendment   | CO: EIAMD Chief<br>RO: EIAMD Chief   | EMB Director/ DENR Secretary<br>EMB RO Director      | 30 days   |

### **Determination of Jurisdiction over Projects**

In case the project's area is located in an area, which falls under the jurisdiction of two (2) or more DENR-EMB ROs, the offices concerned shall determine the participation of the different offices involved in evaluating the EIA and decide on the issue or non-issuance of the ECC. The DENR-EMB RO, under whose jurisdiction majority of the project area is located, will be the lead office in evaluating the EIA submissions.

The chosen lead office shall also have the responsibility for compliance monitoring and other subsequent activities under the EIS System. The other DENR-EMB RO/s concerned shall assist and participate in the review of the EIA submissions. The DENR-EMB ROs concerned shall agree upon the mode of collaboration.

In cases where the DENR-EMB ROs concerned cannot determine the lead office, the case shall be elevated to the EMB Director for resolution. The decision of the EMB Director shall be final. Furthermore, in cases where the issue of jurisdiction is difficult to determine (e.g., the project is located in territorial water which is not or is not clearly within the jurisdiction of any DENR RO), the EMB Director may assign the nearest DENR-EMB RO as the lead office.

The following illustrative cases provide basic guidance on how the DENR ROs shall decide the issue of jurisdiction:

| Parameters: Region A covers provinces X and Y; Region B covers provinces L and M |   |  |
|--|---|--|
| Case   | Situation   | Jurisdiction   |
| 1  | project is located in province X<br>impact area covers provinces X and Y  | Region A   |
| 2  | project is located in province X (30 ha.) and province L (5 ha.)<br>impact area covers province X (50 ha.), Y (20 ha.) and L (50 ha.) | Region A - lead office<br>Region B – participate in the review   |
| 3  | project is located in province X (30 ha.) and province L (30 ha.)<br>impact area covers province X (5 ha.), Y (20 ha.) and L (50 ha.) | Region A and B agree on who shall be the lead office, the other region shall participate in the review |

## Map and description of Preliminary Impact Areas

### ANNEX 2-2

#### GUIDELINES ON DELINEATION OF DIRECT AND INDIRECT IMPACT AREAS

#### GUIDELINES ON DELINEATION OF DIRECT AND INDIRECT IMPACT AREAS

- 1) Section 1 of DAO 03-30 states that "The EIS System is concerned primarily with assessing the direct and indirect impacts of a project on the biophysical and human environment and ensuring that these impacts are addressed by appropriate environmental protection and enhancement measures."
- 2) Direct and indirect impact areas serve as the main reference for the determination of stakeholders who may be potentially affected by the project.
- 3) The convention of direct and indirect impact areas for the Philippine EIA Process shall be as follows:
  - a) Direct impact area (DIA) is initially delimited during the Pre-EIA Study Stage as the area where ALL project facilities are proposed to be constructed/situated and where all operations are proposed to be undertaken, e.g. in a mining project proposal, this can include the entire block proposed to be mined and all areas outside the block where auxiliary facilities may be sited such as a power plant, access roads, the administrative building site, any coastal stockyard, pier/causeway. For most projects, the DIA is equivalent to the total area applied for an ECC.
  - b) Indirect Impact Area (IIA) during the pre-EIA Study can only be assumed or qualitatively estimated but may be guided by secondary data and information from key interviews of reliable local authorities, e.g. Based on a NAMRIA topographic map, an IIA can be the stretch of the river/s OUTSIDE the project area but draining the project site which can potentially transport Total Suspended Solids and other discharges from the project towards downstream communities.
  - c) Once the EIA Study is done, the impact areas are more technically defined. The impact areas may now be derived based on the environmental assessment, e.g. thru dispersion/transport modeling results. The DIA may include mixing or buffer zone areas delimited by the point or isopleths where ambient standards/guidelines are met, e.g. In a geothermal project, the DIA may cover the project site plus the stretch of the river up to the point where the level of boron (critical parameter for irrigation waters) meets the water quality criteria of 0.75 ppm; The DIA may also include the land area around the geothermal power plant site which may be exposed to Ground Level Concentrations (GLCs) of more than the 0.07 ppm hydrogen sulfide ambient air quality standard. Further, the interphase/overlap of the biophysical DIA with socio-cultural environment shall define the socio-cultural DIA after the EIA is completed.
  - d) The Indirect Impact Area (IIA) is clearly delineated only after the EIA Study is done, and is more accurately established during post-ECC monitoring. For the biophysical environment, the IIA may be the area from the outer boundary of the mixing or buffer zone to the point or area where the baseline environmental quality is calculated or monitored to be met. The socio-cultural IIA shall be based on the area of influence of the biophysical IIA.
  - e) If baseline environmental values are higher than any of the DENR-EMB standards, criteria or ambient guideline values, the project's DIA and IIA may still be reckoned from the modeling results, with subsequent validation of the mixing/buffer zones, cumulative levels of critical parameters during post-ECC monitoring, and with subsequent adjustment of the EMP. The assumption is that all projects with significant air and water discharges are supposed to be regulated at the effluent or emission discharge points.
- 4) The determination of the direct and indirect impact areas may vary according to the type of project and the location. On the other hand, the regional impact zone (RIZ) pertains more to the general area where the impact of the project would be felt, such as the entire municipality, province or region.

**ANNEX N. STAKEHOLDER'S IDENTIFICATION MATRIX**

| Potential Impact Areas <sup>1</sup> |            |  | Basis for selection of sector as a stakeholder of the project   | Sectors/Sub-sectors Identified by Proponent to be Likely Stakeholders of the Project   | Specific Organizations/Entities Likely to be Invited to IEC/Site Scoping as Representing the Sectoral Stakeholders  |
|-------------------------------------|------------|--|---|--|---|
| A                                   |            |  | Direct Impact Area (e.g. barangays within the project area)   |  |   |
| 1                                   | Apurawan   |  | <p>a) LGU is a “must” invitee due to its direct political jurisdiction over the area.</p> <p>b) Project poses concerns to academic-related activities due to mining operations.</p> <p>c) Sectors livelihood source, workforce, and profitability may be threatened by the project.</p> <p>d) Sectors livelihood source, agricultural production, and income may be affected by the project. Entities will be physically displaced by project construction and operations.</p> <p>e) Poses threat to environmental resources, health, and resettlement.</p> | <p>a) Barangay LGU</p> <p>b) Academe</p> <p>c) Subsector (Business)</p> <p>d) Subsector (Agriculture)</p> <p>e) Subsector (Private Organization/NGOs/IP)</p> | <p>a) Barangay captain and councilors</p> <p>b) Representative from elementary and secondary school</p> <p>c) Representative from business organization</p> <p>d) Representative from agricultural organization</p> <p>d) Representative from private organization/NGO/IP</p> |
| 2                                   | Culandanum |  | <p>a) LGU is a “must” invitee due to its direct political jurisdiction over the area.</p>   | <p>a) Barangay LGU</p>   | <p>a) Barangay captain and councilors</p>   |

|   |   |         |   |   |   |
|---|---|---------|---|---|---|
|   |   |         | <p>b) Project poses concerns to academic-related activities due to mining operations.</p> <p>c) Sectors livelihood source, workforce, and profitability may be threatened by the project.</p> <p>d) Sectors livelihood source, agricultural production, and income may be affected by the project. Entities will be physically displaced by project construction and operations.</p> <p>e) Poses threat to environmental resources, health, and resettlement.</p> | <p>b) Academe</p> <p>c) Subsector (Business)</p> <p>d) Subsector (Agriculture)</p> <p>e) Subsector (Private Organization/NGOs/IP)</p> | <p>b) Representative from elementary and secondary school</p> <p>c) Representative from business organization</p> <p>d) Representative from agricultural organization</p> <p>d) Representative from private organization/NGO/IP</p> |
| B |   |         | LGU with political jurisdiction over the project (over than the barangays listed in A)  |   |   |
|   | 1 | Aborlan | a) LGU with political jurisdiction over the project   | a) LGU (MPDO, MAO, and MENRO)   | a) Municipal mayor and representative from the following offices: MPDO, MAO, and MENRO  |
|   | 2 | Palawan |   |   |   |
| C |   |         | Other evident of pre-identified areas of potential impact (may be candidate for Indirect Impact Areas, subject to EIA findings)   |   |   |
|   |   |         |   |   |   |

<sup>1</sup> Attach NAMRIA topographic map showing project area/s and direct/indirect impact areas, with highlighted location (and/or boundaries, if available) of respective DIA and IIA sitios, barangay, municipality, and province.

## ANNEX O. INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN (IEC) ACTIVITIES

### Summary List of Pre-Scoping IEC Activities and Issues

| LGUs Covered by IEC  | Actual IEC Schedule / Dates | Issues Raised/ Suggestions Provided  | Proponent's Response  |
|--|-----------------------------|--|---|
| <p>LGU Aborlan</p> <ul style="list-style-type: none"> <li>➤ Municipal Mayor</li> <li>➤ Sangguniang Bayan Member</li> <li>➤ Municipal Planning and Development Office</li> <li>➤ Municipal Agriculture</li> </ul> | February 18, 2022           | Mr. Pedroso: Clarification on the assessment/inventory of indigenous and endangered species in the area. | <p>Dr. Abalus (EIA Co-Team Leader): Flora and Fauna Assessment was conducted in the proposed Long Point mining area through Rapid Biodiversity Assessment (RBA) last October to December 2021.</p> <p>Dr. Docto (EIA Team Leader): Recommended that the trees to be planted during mine rehabilitation should be of species native to the area to mimic the initial condition of the forest. He suggested that the number of trees to be planted must have carbon sequestration capacity equating the expected emissions during mine life.</p> <p>SB Peneyra: Informed the audience that a portion of the proposed project area is reserved as a marine sanctuary and is considered during the planning</p> |

|   |                   |  |   |
|---|-------------------|--|---|
|   |                   |  | process.  |
| <p>Brgy. Culandanum</p> <ul style="list-style-type: none"> <li>➤ Brgy. Captain</li> </ul>   | February 18, 2022 | <p>Kgd. Balladares: Asked for further explanation on the shipment procedure of the products from mining.</p> <p>On the remediation measures, the company will engage to address the loss of forest products such as honey and medicine.</p>  | <p>Engr. Sabat (Mine Planning Engr.): Products transport will follow the path where it is best suited and avoiding sensitive environmental features.</p> <p>SB Peneyra: Announced that the municipality has already designated an area of 6,000 hectares to augment the livelihood opportunity for their residents.</p>   |
| <p>Brgy. Apurawan</p> <ul style="list-style-type: none"> <li>➤ Brgy. Kagawad (6)</li> <li>➤ Brgy. Secretary</li> <li>➤ SK Chairman</li> </ul> | February 18, 2022 | <p>Kgd. Gila: Request for a visit/tour at the mine site operated by BNC at Brgy. Berong to make sure that the good practices presented to them are what happens on actual.</p> <p>Kgd. Pandinio: Reminded that BNC should ensure that the environmental management presented should really be implemented.</p> <p>Employment</p> | <p>Ms. Arquio (ComRel Officer): Said that the company has already received the officials' previous request on the mine tour but was withheld due to pandemic. The company will notify Kgd. Balladares when the site visit will proceed.</p> <p>Dr. Docto: Emphasized solutions must be formulated to the anticipated negative impacts of every activity.</p> <p>Engr. Sabat: He also assured that</p> |

|  |  |  |  |
|--|--|--|--|
|  |  |  | <p>the company implements "locals first" policy during the hiring of manpower.</p> <p>SB. Peneyra also informed the audience that the municipality has an office which is dedicated to aid the employment of their municipal constituents. He cited that the municipality has tapped the services of TESDA for the upgrading of technical skills and requested from BNC for heavy equipment which was used during the skills training.</p> |
|--|--|--|--|

### **Purpose of the LGU IEC**

1. Priority in IEC shall be given to the LGUs within the Direct Impact Areas (DIAs) followed by LGUs in the estimated Indirect Impact Areas (IIAs). Refer to Annex 2-2 for definition and examples of DIA and IIA.
2. LGUs are required to be covered by IEC at the Pre-Scoping stage as a requirement for preliminary identification of sectoral stakeholders who shall be invited to attend the Public Scoping Proper (for projects which shall undergo Public Scoping).
3. LGU IEC is also intended to surface preliminary key environmental issues by sectoral stakeholders from the perspective of the LGUs covered by the IEC. The information will help Proponent appropriately prepare for the Public Scoping. For projects which will not undergo Public Scoping, the key issues will be a critical input to the Technical Scoping with the EIA Review Team

**ANNEX P. SCOPING and PROCEDURAL SCREENING CHECKLIST FOR ENVIRONMENTAL IMPACT STATEMENT (EIS)**

**EIS SCOPING AND PROCEDURAL SCREENING CHECKLIST**

|                                  |  |                             |  |   |                     |              |
|----------------------------------|--|-----------------------------|--|---|---------------------|--------------|
| Project Name                     | Long Point Nickel Project  | Project Location            | Barangay<br>Aporawan   | Municipality/City<br>Aborlan  | Province<br>Palawan | Region<br>4B |
| Proponent Name                   | Berong Nickel Corporation  | Proponent Address           | 3F DMC1 Homes Corporate Center, 1321 Apolinario St., Bangkal, Makati City  |   |                     |              |
| Proponent Contact Person         | Mr. Ramon Manuel R. Briones<br>Vice President for Operations<br><br>Engr. Marc Raymund Zamora<br>Resident Mine Manager<br><br>Mr. Jonathan L. Pilien<br>Corporate Community Relations Head<br><br>Atty. Brenda D. Segovia<br>Associate Legal Counsel | Proponent Means of Contact  | Landline No. : +63 2 823 7963<br>Mobile No.:<br>Fax No. : +63 2 831 6241<br>Email :marc.raymund.zamora@gmail.com |   |                     |              |
| EIA Consultant                   | EMG Environmental and Safety Management Consultancy Services   | Consultant Address          | Gumamela Zone 5, Sta. Monica, Puerto Princesa City, Palawan  |   |                     |              |
| EIA Consultant Contact Person    | Ramon M. Docto, PhD<br>EIA Preparer/ Team Leader<br><br>Rodolfo O. Abalus Jr., PhD<br>Co-Team Leader   | Consultant Means of Contact | Landline No :<br><br>Mobile No : +63 917 849 5330<br>+63 917 162 2572  | Fax No. :<br><br>Email : mondocto@yahoo.com<br>rodolfo_abalus@yahoo.com |                     |              |
| EMB/DENR Scoping Representatives |  | Place of Scoping            |  |   |                     |              |
|                                  |  | Date of Scoping             |  |   |                     |              |

NOTES:

- 1) The EIA Report shall have about 250 pages, for management purposes, inclusive of all summaries, main report and all attachments. The suggested lay-out specifications are as follows: Font 10 Arial, single space; justified margin; no indentations; 1" margin all around, A4 bond size, back to back printing; optional continued numbering of paragraphs per Chapter (i.e. 1.0 - paragraph number 1,2,3, etc; 2.0 – paragraph number 1,2,3,etc...)
- 2) The page breakdown per section provided below is only for GUIDANCE purposes. The Proponent is strongly encouraged to submit only the minimum information necessary to establish the key impacts of the project and to manage such impacts., e.g. only the summary/analysis of secondary information obtained by the Proponent in the course of the EIA study need to be submitted. However, the EMB or the EIA Review Committee shall exercise its discretion to ask for the detailed information when it evaluates the need for such during the EIA Review meetings.
- 3) Label the EIA Report as a DRAFT. The FINAL report is to be resubmitted after the EIA review is completed and before the ECC is issued.
- 4) The Proponent and Review Team may clarify, make changes or adjustments to the Specific Requirements and provide SPECIAL INSTRUCTIONS" for Scoping purposes.
- 5) The Proponent shall have pre-filled out this Checklist prior to submission of the Letter-Request for Scoping. For projects during the transitory period whose proponents have not filled out the checklist, the Proponent shall be first asked by the EIARC Chair to identify which items in the Technical Scoping part of this checklist it proposes to cover in terms of likely impacts and related baseline information per impact, before the EIARC discusses and confirms the final scope.

#### A. REQUIREMENTS ON EIA REPORT OUTLINE, FORMAT AND CONTENT

| GENERAL CONTENTS/<br>REQUIREMENTS | SPECIFIC CONTENTS/REQUIREMENTS  | FOR SCOPING USE  | FOR PROCEDURAL SCREENING USE   |  |    |         |
|-----------------------------------|---|--|--------------------------------|--|----|---------|
|                                   |   | CLARIFICATIONS/<br>CHANGES/SPECIAL<br>INSTRUCTIONS BY<br>EIARC/EMB | Page/s in<br>the EIA<br>Report | Validated<br>Acceptable by<br>EMB Case<br>Handler? |    | REMARKS |
|                                   |   |  |                                | YES  | NO |         |
| Project Fact Sheet                | ~2-3 pages: Information highlights from Executive Summary on Project Description; Project Specific EIA Process, Baseline Profile, Key Impacts, Key environmental management measures and monitoring plans; include 0.25 page of project regional site location on Philippine Map inset.   |  |                                |  |    |         |
| Table of Contents                 | ~9-10 pages: Include all sections of the EIS for procedural screening purposes; list of tables, figures, annexes  |  |                                |  |    |         |
| Executive Summary                 | Maximum ~15 pages   |  |                                |  |    |         |
| 1.0 Brief Project Description     | ~3 pages (tabulated): project location & area (with 0.25 – 0.50-page project regional location on Philippine map inset), rationale, components, project phases/stages, process/ technology (as applicable), products and production capacity or rate (as applicable), types & estimated generation rate of major waste streams, manpower, project cost, project duration and schedule |  |                                |  |    |         |
| 2.0 Brief Summary of              | ~2 pages: (tabulated): name/expertise of preparer team, study period, study   |  |                                |  |    |         |

|  |   |  |  |  |  |  |
|--|---|--|--|--|--|--|
| Project's EIA Process  | area (and attach 1 page map), EIA method, summary of public participation in scoping and conduct of EIA study   |  |  |  |  |  |
| 3.0 Summary of Baseline Characterization                           | <b>~4 pages</b> (tabulated): Present integrated key findings/conclusions per ecosystem (Land, Water Air and People) in terms of criticality of environmental quality status. No need to detail findings per module.   |  |  |  |  |  |
| 4.0 Summary of Impact Assessment and Environmental Management Plan | <b>~3 pages:</b><br>1) Impacts Mitigation Summary<br>1 <sup>st</sup> column: Key project activities per phase (i.e. most critical environmental aspects which are the sources of key impacts);<br>2 <sup>nd</sup> column: environmental component or module affected, nature and magnitude of most significant impacts;<br>2) Present a statement each for SDP Framework, IEC Framework, ERP Policy, Abandonment Policy |  |  |  |  |  |

| GENERAL CONTENTS/<br>REQUIREMENTS                | SPECIFIC CONTENTS/REQUIREMENTS  | FOR SCOPING USE  | FOR PROCEDURAL SCREENING USE   |  |    |         |
|--|---|--|--------------------------------|--|----|---------|
|  |   | CLARIFICATIONS/<br>CHANGES/SPECIAL<br>INSTRUCTIONS BY<br>EIARC/EMB | Page/s in<br>the EIA<br>Report | Validated<br>Acceptable by<br>EMB Case<br>Handler? |    | REMARKS |
|  |   |  |                                | YES  | NO |         |
| 5.0 Summary of the Environmental Monitoring Plan | <b>~2 pages:</b><br>1) Summary of EMoP Matrix of Proponent – focused only on 1-3 most important objectives and corresponding parameters to be monitored per phase of the project, limit level to be complied with, station description to be monitored and what frequency<br>2) Summary of MMT or public participation framework in post-ECC monitoring |  |                                |  |    |         |
| 6.0 EMF and EGF Commitments                      | <b>~1 page:</b> Present EMF and EGF amount committed  |  |                                |  |    |         |
| <b>DRAFT MAIN EIS</b>                            | <b>Maximum ~142 pages (Less attachments);</b>   |  |                                |  |    |         |
| <b>1. BASIC PROJECT INFORMATION</b>              | <b>~3 pages</b> (tabulation of Project name, location./address (from Sitio to Region); nature of project; threshold limits applied for; Proponent Name, address, contact numbers, brief profile; EIA Preparer Name, address, contact numbers. Attach project site map in NAMRIA topographic (or nautical, if applicable) map                            |  |                                |  |    |         |

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  | in 1:50,000 scale  |  |  |  |  |  |
| <b>2. DESCRIPTION OF THE PROJECT'S</b> | <b>~25 pages</b> including all attachments as specified below  |  |  |  |  |  |
| 2.1 EIA TOR                            | Tabulate the main issues raised by the EIARC (see below Summary of Most Significant Issues) and the community (refer to List of Issues During Public Scoping) and state where/how each was addressed in the EIA Study; attach the detailed Scoping checklists (Public and Technical) as an annex |  |  |  |  |  |
| 2.2 EIA Team                           | Tabulate data on EIA Team: list of team members, field of expertise, module assigned to both proponent and preparer team   |  |  |  |  |  |
| 2.3 EIA Study Schedule                 | Inclusive periods of study/field surveys, state climate/season   |  |  |  |  |  |
| 2.4 EIA Study Area                     | Present area from project site up to extent of coverage of study: Show study area in NAMRIA topographic (and nautical, if applicable) map of 1:50,000 scale  |  |  |  |  |  |
| 2.5 EIA Methodology                    | Tabulate only generic EIA approach and data sources  |  |  |  |  |  |

| GENERAL CONTENTS/<br>REQUIREMENTS | SPECIFIC CONTENTS/REQUIREMENTS  | FOR SCOPING USE  | FOR PROCEDURAL SCREENING USE   |  |    |         |
|-----------------------------------|---|--|--------------------------------|--|----|---------|
|                                   |   | CLARIFICATIONS/<br>CHANGES/SPECIAL<br>INSTRUCTIONS BY<br>EIARC/EMB | Page/s in<br>the EIA<br>Report | Validated<br>Acceptable by<br>EMB Case<br>Handler? |    | REMARKS |
|                                   |   |  |                                | YES  | NO |         |
| 2.6 Public Participation          | Tabulate chronologically the following: EIA stage, dates, sectors involved, issues raised, committed actions by the Proponent where relevant; and explain or shed light on succeeding public's response/ reactions/participation or explain prevailing perceptions/ actions by the public. On sectors and issue, differentiate the list into supportive and opposing sectors as well as issues considered valid and invalid.  |  |                                |  |    |         |
| <b>3. PROJECT DESCRIPTION</b>     | <b>~ 30 pages</b>   |  |                                |  |    |         |
| 3.1 Project Location & Area       | <ul style="list-style-type: none"> <li>Presented in legible maps (use clearly scanned or original NAMRIA topographic (or nautical, if applicable) map of 1:50,000 or appropriate scale) showing both project site up to regional location with Philippine map as inset; Regional and provincial vicinity map (showing major landmarks, existing industries, settlements, etc)</li> <li>Show title, legend, scale, project location and political boundaries (from sitio/barangay to region); delineation of areas of primary and secondary</li> </ul> |  |                                |  |    |         |

|                          |   |  |  |  |  |  |
|--------------------------|---|--|--|--|--|--|
|                          | <ul style="list-style-type: none"> <li>impact areas, Present geographic coordinates</li> <li>Present applicable ECA categories and statement on technical description on environmental criticality of the site</li> </ul>   |  |  |  |  |  |
| 3.2 Project Rationale    | <ul style="list-style-type: none"> <li>Present need for project based on national &amp; local economic development and in terms of contribution to sustainable development agenda or current development thrusts of the Philippines ;</li> <li>Briefly justify/describe existence of expected commercial quantities of resources to meet local/national development or sectoral objectives (e.g. describe geologic resource for metallic/non-metallic mining, petroleum /geothermal reservoir, etc); Attach detailed Economic Geology as Annex</li> </ul> |  |  |  |  |  |
| 3.3 Project Alternatives | Present criteria used in determining preliminary options for facility siting; development design; process/technology selection; resource utilization  |  |  |  |  |  |

| GENERAL CONTENTS/<br>REQUIREMENTS   | SPECIFIC CONTENTS/REQUIREMENTS   | FOR SCOPING USE  | FOR PROCEDURAL SCREENING USE   |  |    |         |
|---|--|--|--------------------------------|--|----|---------|
|   |  | CLARIFICATIONS/<br>CHANGES/SPECIAL<br>INSTRUCTIONS BY<br>EIARC/EMB | Page/s in<br>the EIA<br>Report | Validated<br>Acceptable by<br>EMB Case<br>Handler? |    | REMARKS |
|   |  |  |                                | YES  | NO |         |
| 3.4 Project Development Plan, Process/ Technology Options and Project Components    | Attach tentative/options of Physical Plan/Site Development Map being considered at the FS stage (e.g., present annual program of development for a mine project); discuss processes/technologies being considered; tabulate project components and estimated dimensions/specifications (facilities/infrastructures, other single projects supporting the main project) and locate in map at a level of detail feasible at FS Stage |  |                                |  |    |         |
| 3.5 Description of Project Phases, Aspects, Wastes, Other Issues, Built-in Measures | Tabulate project phases, activities/environmental aspects, associated wastes*, other key environmental and social issues; and built-in pollution control measures *Under the column on Waste Generation: subheadings are as follows: types of wastes, estimated waste generation rate, estimated volume for the duration of the project phase)   |  |                                |  |    |         |
| 3.6 Manpower Requirements   | Present manpower requirements per project phase; specify expertise needed; nature & estimated number of jobs available for men; nature and number of jobs available for women; specify strategy and tentative scheme for sourcing locally from host and neighboring LGUs and those from outside  |  |                                |  |    |         |
| 3.7 Project Cost  |  |  |                                |  |    |         |

|                                   |                                    |  |  |  |  |  |
|-----------------------------------|------------------------------------|--|--|--|--|--|
| 3.8 Project Duration and Schedule | Present estimate per project phase |  |  |  |  |  |
|-----------------------------------|------------------------------------|--|--|--|--|--|

| GENERAL CONTENTS/<br>REQUIREMENTS   | SPECIFIC CONTENTS/REQUIREMENTS  | FOR SCOPING USE  | FOR PROCEDURAL SCREENING USE   |  |    |         |
|---|---|--|--------------------------------|--|----|---------|
|   |   | CLARIFICATIONS/<br>CHANGES/SPECIAL<br>INSTRUCTIONS BY<br>EIARC/EMB | Page/s in<br>the EIA<br>Report | Validated<br>Acceptable by<br>EMB Case<br>Handler? |    | REMARKS |
|   |   |  |                                | YES  | NO |         |
| <b>4. BASELINE ENVIRONMENTAL CONDITIONS, IMPACT ASSESSMENT AND MITIGATION</b> | <p>~ <b>50 pages</b> (less Attachments); For each module, present a) Methodology of EIA Modular Study including tabulation of stations with coordinates and qualitative description, as well as NAMRIA topographic map of the study area in 1:50,000 or more detailed scale; b) Summary of primary and secondary data (present detailed info as annexes; c) highlights of findings and conclusions on the baseline profile as to sensitivity to project impacts.</p> <ul style="list-style-type: none"> <li>On Baseline: MINIMUM DATA TO BE HIGHLIGHTED ARE THOSE ASKED IN THE PEMAPS QUESTIONNAIRE IN ANNEX 2-7d OF THE RPM. Subsequently, focus on 3-5 key findings on the baseline profiling per relevant module. No need to present or attach ALL primary data. Important to present highlights of analysis of baseline data:</li> </ul> <p>a) present summary analysis of physico-chem, bio and social data in terms of how the values compare with environmental standards, how the biostatistics compare with typical ecological values, how social data compare with national and local norms or Philippine statistics.</p> <p>b) present estimates and relative percentages of total area likely to be utilized, total volumes of soils to be excavated, # watersheds and total vegetation to be cut, # of rivers and extent of coastal/marine waters to be affected, total households to be displaced, etc...</p> <p>c) presence and statistical highlights of ecologically and economically most important species and ECAs which may be affected; state nature of impact of project and how this can be prevented or mitigated.</p> <p>d) presence of any physico-chem, biological &amp; social indicators (pseudo-indicators) of project impacts for monitoring purposes</p> <ul style="list-style-type: none"> <li>On Impacts: Focus on 1-3 most significant impacts/issues of the most critically affected modules under Land, Water, Air, People across each</li> </ul> |  |                                |  |    |         |

|               |   |  |  |  |  |  |
|---------------|---|--|--|--|--|--|
|               | <p>project phase. Include discussion of residual, unavoidable and cumulative impacts, where relevant and appropriate.</p> <ul style="list-style-type: none"> <li>On Mitigation: present major interventions/actions for each identified significant issue.</li> </ul>   |  |  |  |  |  |
| 4.1 THE LAND  | <ul style="list-style-type: none"> <li>Discuss Land Use/classification and associated Terrestrial Biology (flora and fauna);</li> <li>Discuss only relevant aspects of Geology which will explain the geohazards; (Note: For Metallic and Non-metallic Mining Projects, Geothermal Exploration and other similar projects, other aspects of Geology particularly which describe the geologic resource in relation to the project proposal must be described as part of Project Description to justify geologic resource use)</li> <li>Discuss Geomorphology (i.e. land forms/topography/slope/ terrain) which explain the limitations or nature of the land use and distribution of population and nature of and vegetation/wildlife forms;</li> <li>Discuss Pedology (main soil type and quality) which rationalize/explain and lend support to the land use, population and biota profile</li> </ul>  |  |  |  |  |  |
| 4.2 THE WATER | <p>Discuss relevant modules: Hydrology and Hydrogeology, Oceanography, Water Quality, Freshwater and Marine Biology</p> <p>Note #1: Identify which surface and groundwater systems will be affected by the project; present water quality status with highlight on the most relevant parameters, critical uses and the users of these water bodies; present the most important species likely to be affected by the project; present conclusions of modeling (where relevant) of extent of physical and chemical dispersion/trajectory of most relevant parameter and resulting concentrations with increasing distance and depth from the source as basis for deriving a mixing or buffer zone and delineating the DIA from the IIA; map out the economically and ecologically critical areas/resources and superimpose on the biophysical data;</p> <p>Note #2: Present key findings and conclusions of analysis of surface and groundwater quality; Identify key potential impacts of the project across project phases and propose corresponding measures</p> |  |  |  |  |  |

| GENERAL CONTENTS/<br>REQUIREMENTS                                | SPECIFIC CONTENTS/REQUIREMENTS  | FOR SCOPING USE  | FOR PROCEDURAL SCREENING USE   |  |    |         |
|--|---|--|--------------------------------|--|----|---------|
|  |   | CLARIFICATIONS/<br>CHANGES/SPECIAL<br>INSTRUCTIONS BY<br>EIARC/EMB | Page/s in<br>the EIA<br>Report | Validated<br>Acceptable by<br>EMB Case<br>Handler? |    | REMARKS |
|  |   |  |                                | YES  | NO |         |
| 4.3 THE AIR  | <ul style="list-style-type: none"> <li>• Meteorology (Note: For most projects, the relevant parameters are only the climate types, seasons, rainfall profile, wind roses and climatological extremes as the latter pose environmental hazards; the rest of the climatological data can be attached as an Annex);</li> <li>• Air Quality (&amp; Noise, if relevant) : Present highlight of air quality status with highlight on the most relevant parameters; present conclusions of modeling (where required) on extent of physical and chemical dispersion/trajectory of most relevant parameter and resulting ground level concentrations with increasing distance from the source as basis for deriving a buffer zone and delineating the DIA from the IIA; superimpose on the economically and ecologically critical areas/resources and population/significant socio-cultural features</li> <li>• Note: Present key findings and conclusions of analysis of air quality; Identify key potential impacts of the project across project phases and propose corresponding measures</li> </ul> |  |                                |  |    |         |
| 4.4 THE PEOPLE   | Present highlights of primary and secondary data on the DIA and IIA, including highlights of perception survey; Present key findings and conclusions of analysis of the Socio-Cultural Environment; Identify key potential impacts of the project considering biophysical findings across project phases and propose corresponding measures   |  |                                |  |    |         |
| <b>5 ENVIRONMENTAL<br/>RISK ASSESSMENT<br/>(WHEN APPLICABLE)</b> | <b>~2 page</b><br>Present only key findings and conclusions of the ERA. Refer to Section C of this Checklist and Annex 2-7e of the RPM to determine coverage and nature of ERA to be required.  |  |                                |  |    |         |
| <b>6 ENVIRONMENTAL<br/>MANAGEMENT PLAN</b>                       | <b>~30 pages</b>  |  |                                |  |    |         |
| 6.1 Impacts Management Plan                                      | Use Annex 2-17 of RPM – limit to most significant impacts per project phase and per environmental component arising from key environmental aspects  |  |                                |  |    |         |
| 6.2 Social Development Framework                                 | Use Annex 2-18 of RPM   |  |                                |  |    |         |
| 6.3 IEC Framework  | Use Annex 2-19 of RPM   |  |                                |  |    |         |

| GENERAL CONTENTS/<br>REQUIREMENTS  | SPECIFIC CONTENTS/REQUIREMENTS  | FOR SCOPING USE  | FOR PROCEDURAL SCREENING USE   |  |    |         |
|--|---|--|--------------------------------|--|----|---------|
|  |   | CLARIFICATIONS/<br>CHANGES/SPECIAL<br>INSTRUCTIONS BY<br>EIARC/EMB | Page/s in<br>the EIA<br>Report | Validated<br>Acceptable by<br>EMB Case<br>Handler? |    | REMARKS |
|  |   |  |                                | YES  | NO |         |
| 6.4 Emergency Response Policy and Generic Guidelines                           | The policy and generic guidelines are to be consistent with the relevant agencies' requirements that are to be complied with after the ECC is issued, e.g. MGB has a prescribed ERP content for mining projects.  |  |                                |  |    |         |
| 6.5 Abandonment /Decommissioning /Rehabilitation Policy and Generic Guidelines | Statement on Proponent's policies and generic procedures; Detailed Abandonment/Decommissioning Plan to be submitted post-ECC, within a timeframe specified in the ECC   |  |                                |  |    |         |
| 6.6 Environmental Monitoring Plan  |   |  |                                |  |    |         |
| 6.6.1 Self-Monitoring Plan   | Use Annex 2-20 of RPM (including costing) and applicable parts of Annex 3-1 on ECC Compliance Monitoring of the Proponent; Attach filled out PEMAPS Questionnaire (Annex 2-7d) – present a statement on the existence of a PATHWAY, criticality of the RECEPTOR, status of perception of ENVIRONMENTAL PERFORMANCE from supportive or opposing groups.  |  |                                |  |    |         |
| 6.6.2 Multi-sectoral Monitoring Framework                                      | For projects with MMT requirement, tabulate the following: list of stakeholder community sectors or representatives who are proposed to be likely members of the MMT as validated by EIA process, basis of priority selection, proposed MMT role, and scope of MMT responsibilities/activities; strategy or approach in establishing and monitoring Environmental Quality Performance Levels (EQPLs) in coordination with the MMT's program of identifying pseudo/quasiindicators of environmental damage. Refer to Annexes 3-2 and 3-4 of the RPM. |  |                                |  |    |         |
| 6.6.3 Environmental Guarantee and Monitoring Fund Considerations               | Present a proposed amount of EMF (based on a draft AWFP in Annex 3-4 and consistent with guidelines in Annex 3-5); Present a committed amount of EGF and the basis for the estimate, following the guidelines in Annex 3-6  |  |                                |  |    |         |
| 6.7 Institutional Plan for EMP Implementation                                  | Discuss the Table of Organization of the Proponent where the reporting line and manpower complement/positions of the EU, MEPEO or equivalent units to higher management and relationships with operating departments are shown  |  |                                |  |    |         |

| GENERAL CONTENTS/<br>REQUIREMENTS  | SPECIFIC CONTENTS/REQUIREMENTS   | FOR SCOPING USE  | FOR PROCEDURAL SCREENING USE   |  |    |         |
|--|--|--|--------------------------------|--|----|---------|
|  |  | CLARIFICATIONS/<br>CHANGES/SPECIAL<br>INSTRUCTIONS BY<br>EIARC/EMB | Page/s in<br>the EIA<br>Report | Validated<br>Acceptable by<br>EMB Case<br>Handler? |    | REMARKS |
|  |  |  |                                | YES  | NO |         |
| 7 BIBLIOGRAPHY/<br>REFERENCES  | ~2 pages   |  |                                |  |    |         |
| 8 ANNEXES  | ~80 pages  |  |                                |  |    |         |
| 8.1 Scoping Checklist  | Use Annex 2-7a of the RPM (signed off document) with attached signed off Public Scoping List of Issues, as applicable (Annex 2-7c)   |  |                                |  |    |         |
| 8.2 Original Sworn<br>Accountability Statement<br>of Proponent           | Use Annex 2-21 of RPM  |  |                                |  |    |         |
| 8.3 Original Sworn<br>Accountability Statement<br>of Key EIS Consultants | Use Annex 2-22 of RPM  |  |                                |  |    |         |
| 8.4 Proof of Public<br>Participation                                     | Attendance Sheets of IEC, Public Scoping, Public Consultation/Public Hearing;<br>Proof of public participation in the EIA Study  |  |                                |  |    |         |
| 8.5 Baseline Study<br>Support Information                                | <ul style="list-style-type: none"> <li>Detailed analysis of primary and secondary information per module; perception survey analysis with sample questionnaire; Lab analytical results for soil, ground and surface freshwater and marine waters, air quality, noise – all tables compared with relevant Philippine standards, Philippine typical baseline values, Philippine statistics or other equivalent reference standards.</li> <li>The rest of the baseline data obtained by the Preparer shall be presented during the EIA Review Meetings in case the Review Team has items to validate against detailed baseline info. These can also be used by the Proponent in its self-monitoring and MMT validation activities.</li> </ul> |  |                                |  |    |         |
| 8.6 Impact Assessment<br>and EMP Support<br>Information                  | ERA, PEMAPS Questionnaire, etc   |  |                                |  |    |         |

**NOTE:** The EIA review process will advise DOH if the project will pose a significant public health risk to the environment, e.g. public health may be affected if the wastes/discharges are direct contributors to the leading causes of mortality/morbidity in the DIA, regardless of environmental management measures. To assist EMB on its review, DOH shall coordinate with the DENR-EMB on the declaration of Health Sensitive Projects and Health Sensitive Areas. Until such time, DOH shall review EHIA independently of the EIA Process, consistent with the DENR-DOH MOA on EHIA. Further, workers' HIA component of the EHIA is recommended to be coordinated by DOH with DOLE for the latter's consideration in its requirement of an Occupational Health and Safety Program from the Proponent.

| DURING TECHNICAL SCOPING: OTHER INSTRUCTIONS BY THE EIARC/EMB ON THE FORMAT AND CONTENT OF THE EIA REPORT TO BE SUBMITTED |  |    | DURING PROCEDURAL SCREENING: OTHER OBSERVATIONS/COMMENTS/REMARKS BY THE EMB CASEHANDLER ON THE FORMAT AND CONTENT OF THE SUBMITTED EIA REPORT |
|---|--|----|---|
| 1)  |  | 1) |   |
| 2)  |  | 2) |   |
| 3)  |  | 3) |   |

## B. TECHNICAL SCOPING CHECKLIST <sup>1</sup>

**NOTE:** Attach list of issues raised by the attending community representatives during the Public Scoping (Annex 2-7c). Integrate the issues in the Technical Scoping Checklist below.

| List of Key Environmental Issues            | Relevance based on PD and Project Location2 LS = Likely Significant; LI = Likely Insignificant; NR= Not Relevant |    |    | a) Basis of Assessment of Relevance;<br>b) Proposed Method of Impact Assessment;<br>c) Other Instructions per Project Phase? | Description of Environment                              | Required? |   | Proposed Methodology of Securing and Presenting Information; Other Considerations in EIA Study | Page in the EIA Document | Verified acceptable by EMB CH? |   |
|---|--|----|----|--|---|-----------|---|--|--------------------------|--------------------------------|---|
|   | LS   | LI | NR |  |   | Y         | N |  |                          | Y                              | N |
| 1.0 THE LAND                                |  |    |    |  | THE LAND  |           |   |  |                          |                                |   |
| 1.1 Land Use and Classification             |  |    |    |  | Land Use and Classification                             |           |   |  |                          |                                |   |
| 1.1.1. Change/Inconsistency in land use     |  |    |    |  | Description of existing land use/zoning/ classification |           |   |  |                          |                                |   |
| 1.1.2. Encroachment in Protected Area under |  |    |    |  | Land Use Map (include location of                       |           |   |  |                          |                                |   |

|   |  |  |  |  |
|---|--|--|--|--|
| NIPAS   |  |  |  |  |
| 1.1.3. Encroachment in other ECAs                           |  |  |  |  |
| <b>1.2 Geology/Geomorphology</b>                            |  |  |  |  |
| 1.2.1. Change in surface landform /topography/terrain/slope |  |  |  |  |

|                                     |  |  |  |  |  |  |
|-------------------------------------|--|--|--|--|--|--|
| any ECAs and special land features) |  |  |  |  |  |  |
|                                     |  |  |  |  |  |  |
| <b>Geology/Geomorphology</b>        |  |  |  |  |  |  |
| Slope and Elevation Map             |  |  |  |  |  |  |

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This table has two major columns: Key environmental issues to be addressed, and the Description of Environment (primary or secondary data) based on one or more environmental issues identified. There is no one-to-one correspondence between the potential issue columns to the left and the baseline information to the right. These columns are provided to ensure the EIA Study focuses on the most relevant environmental issues. **LS = likely significant, LI = likely insignificant, NR = not relevant.** LS requires in depth quantitative analysis depending on the availability of mathematical methods. LI requires qualitative analysis. NR column is provided since there are listed impacts that may not be after all existent due to the nature of the project and location. During the EIA study, some project aspects may be discovered as significant and may be the basis of Additional Information in the review

| List of Key Environmental Issues  | Relevance based on PD and Project Location <sup>2</sup> LS = Likely Significant; LI = Likely Insignificant; NR= Not Relevant |    |    | a) Basis of Assessment of Relevance; b) Proposed Method of Impact Assessment; c) Other Instructions per Project Phase? | Description of Environment                  | Required? |   | Proposed Methodology of Securing and Presenting Information; Other Considerations in EIA Study | Page in the EIA Document | Verified acceptable by EMB CH? |   |
|---|--|----|----|--|---|-----------|---|--|--------------------------|--------------------------------|---|
|   | LS   | LI | NR |  |   | Y         | N |  |                          | Y                              | N |
| 1.2.2. Change in sub-surface/ underground geomorphology (e.g. underground mining) |  |    |    |  | Regional/General Geological Map             |           |   |  |                          |                                |   |
| 1.2.3. Inducement of subsidence   |  |    |    |  | Geological Cross-Sections                   |           |   |  |                          |                                |   |
| 1.2.4. Inducement of landslides or other natural hazards                          |  |    |    |  | Sequence Stratigraphic Column of Rock Units |           |   |  |                          |                                |   |
| 1.2.5.  |  |    |    |  | Geomorphological Map                        |           |   |  |                          |                                |   |
| 1.2.6.  |  |    |    |  | g factor Contour Map for Rocks              |           |   |  |                          |                                |   |
| 1.2.7.  |  |    |    |  | Seismicity Map                              |           |   |  |                          |                                |   |
| 1.2.8.  |  |    |    |  | Differential Settling Hazard Map            |           |   |  |                          |                                |   |

|  |  |           |           |   |   |                  |          |   |                                 |                                       |          |
|--|--|-----------|-----------|---|---|------------------|----------|---|---------------------------------|---------------------------------------|----------|
| 1.2.9.   |  |           |           |   | Bathymetric and Morphostructural Map                          |                  |          |   |                                 |                                       |          |
| 1.2.10.  |  |           |           |   | Results of Petrographic and Mineragraphic Analyses            |                  |          |   |                                 |                                       |          |
| 1.2.11.  |  |           |           |   | Results of Geochemical Analyses of Rock Samples               |                  |          |   |                                 |                                       |          |
| <b>1.3 Pedology</b>                                      |  |           |           |   | <b>Pedology</b>   |                  |          |   |                                 |                                       |          |
| 1.3.1. Soil Erosion                                      |  |           |           |   | Summary of Soil Investigation Report on soil type and quality |                  |          |   |                                 |                                       |          |
| 1.3.2. Change in soil quality (e.g. in irrigation areas) |  |           |           |   | Laboratory Results of Soil Sample Analysis                    |                  |          |   |                                 |                                       |          |
|  |  |           |           |   | Erodibility Potential   |                  |          |   |                                 |                                       |          |
| <b>1.4 Terrestrial Biology</b>                           |  |           |           |   | <b>Terrestrial Biology</b>                                    |                  |          |   |                                 |                                       |          |
| 1.4.1. Vegetation removal and loss of habitat            |  |           |           |   | Flora and Fauna Species Inventory or Survey                   |                  |          |   |                                 |                                       |          |
| <b>List of Key Environmental Issues</b>                  | <b>Relevance based on PD and Project Location</b><br><b>LS = Likely Significant; LI = Likely Insignificant; NR= Not Relevant</b> |           |           | <b>a) Basis of Assessment of Relevance;</b><br><b>b) Proposed Method of Impact Assessment;</b><br><b>c) Other Instructions per Project Phase?</b> | <b>Description of Environment</b>                             | <b>Required?</b> |          | <b>Proposed Methodology of Securing and Presenting Information; Other Considerations in EIA Study</b> | <b>Page in the EIA Document</b> | <b>Verified acceptable by EMB CH?</b> |          |
|  | <b>LS</b>  | <b>LI</b> | <b>NR</b> |   |   | <b>Y</b>         | <b>N</b> |   |                                 | <b>Y</b>                              | <b>N</b> |
| 1.4.2. Threat to existence of important local species    |  |           |           |   | Summary of Endemicity//Conservation Status                    |                  |          |   |                                 |                                       |          |
| 1.4.3. Threat to abundance, frequency and distribution   |  |           |           |   | Summary of Abundance, Frequency and Distribution              |                  |          |   |                                 |                                       |          |
| 1.4.4. Hindrance to wildlife access                      |  |           |           |   | Site Observation/ Transect Walk Map                           |                  |          |   |                                 |                                       |          |
| <b>2.0 THE WATER</b>                                     |  |           |           |   | <b>THE WATER</b>  |                  |          |   |                                 |                                       |          |
| 2.1 Hydrology/Hydrogeology                               |  |           |           |   | Hydrology/Hydrogeology  |                  |          |   |                                 |                                       |          |
| 2.1.1. Change in drainage morphology                     |  |           |           |   | Topographic Map showing Drainage                              |                  |          |   |                                 |                                       |          |

|  |   |    |    |   |   |                  |   |   |                                 |                                       |   |
|--|---|----|----|---|---|------------------|---|---|---------------------------------|---------------------------------------|---|
|  |   |    |    |   | System  |                  |   |   |                                 |                                       |   |
| 2.1.2. Change in stream, lake water depth      |   |    |    |   | Regional Hydrogeologic Map  |                  |   |   |                                 |                                       |   |
| 2.1.3. Reduction in stream volumetric flow     |   |    |    |   | Streamflow Measurements/ Mean Monthly Flow Data                             |                  |   |   |                                 |                                       |   |
| 2.1.4. Inducement of flooding                  |   |    |    |   |   |                  |   |   |                                 |                                       |   |
| 2.1.5. Water resource competition              |   |    |    |   | Flood Peaks, Volumes, frequency rating curves and Stormwater flow estimates |                  |   |   |                                 |                                       |   |
| 2.1.6. Reduction/Depletion of groundwater flow |   |    |    |   | Spring and Well Inventory and location map                                  |                  |   |   |                                 |                                       |   |
|  |   |    |    |   | Flow measurement location map   |                  |   |   |                                 |                                       |   |
| <b>2.2 Oceanography</b>                        |   |    |    |   | <b>Oceanography</b>   |                  |   |   |                                 |                                       |   |
| 2.2.1. Change in circulation pattern           |   |    |    |   | Predicted Tides   |                  |   |   |                                 |                                       |   |
| 2.2.2. Change in bathymetry                    |   |    |    |   | 24-Hour Tidal Cycles  |                  |   |   |                                 |                                       |   |
| 2.2.3.   |   |    |    |   | Surface Current System  |                  |   |   |                                 |                                       |   |
| <b>List of Key Environmental Issues</b>        | <b>Relevance based on PD and Project Location2 LS = Likely Significant; LI = Likely Insignificant; NR= Not Relevant</b> |    |    | <b>a) Basis of Assessment of Relevance; b) Proposed Method of Impact Assessment; c) Other Instructions per Project Phase?</b> | <b>Description of Environment</b>   | <b>Required?</b> |   | <b>Proposed Methodology of Securing and Presenting Information; Other Considerations in EIA Study</b> | <b>Page in the EIA Document</b> | <b>Verified acceptable by EMB CH?</b> |   |
|  | LS  | LI | NR |   |   | Y                | N |   |                                 | Y                                     | N |
| <b>2.3 Water Quality</b>                       |   |    |    |   | <b>Water Quality</b>  |                  |   |   |                                 |                                       |   |
| 2.3.1. Groundwater pollution                   |   |    |    |   | Physico-Chemical Characteristics of Wells and Springs                       |                  |   |   |                                 |                                       |   |
| 2.3.2. Stream water pollution                  |   |    |    |   | Physico-Chemical Characteristics of Inland Surface Waters                   |                  |   |   |                                 |                                       |   |
| 2.3.3. Lake water pollution                    |   |    |    |   | Physico-Chemical Characteristics of Coastal Waters                          |                  |   |   |                                 |                                       |   |

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|---|--|--|--|--|
| 2.3.4. Marine water pollution                                     |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
| <b>2.4 Freshwater Ecology</b>                                     |  |  |  |  |
| 2.4.1. Threat to abundance, frequency and distribution of species |  |  |  |  |
| 2.4.2. Loss of important species                                  |  |  |  |  |
| 2.4.3. Loss of habitat  |  |  |  |  |
| <b>2.5 Marine Ecology</b>   |  |  |  |  |
| 2.5.1. Threat to abundance, frequency and distribution            |  |  |  |  |
| 2.5.2. Loss of important species                                  |  |  |  |  |

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| Bacteriological Characteristics of Wells and Springs         |  |  |  |  |  |
| Bacteriological Characteristics of Inland Surface Waters     |  |  |  |  |  |
| Bacteriological Characteristics of Coastal Waters            |  |  |  |  |  |
| <b>Freshwater Ecology</b>                                    |  |  |  |  |  |
| Abundance of ecologically and economically important species |  |  |  |  |  |
| Presence of Pollution indicator Species                      |  |  |  |  |  |
| Sampling Site Map  |  |  |  |  |  |
| <b>Marine Ecology</b>  |  |  |  |  |  |
| Abundance of ecologically and economically important species |  |  |  |  |  |
| Presence of Pollution indicator Species                      |  |  |  |  |  |

| List of Key Environmental Issues | Relevance based on PD and Project Location2 LS = Likely Significant; LI = Likely Insignificant; NR= Not Relevant |    |    | a) Basis of Assessment of Relevance; b) Proposed Method of Impact Assessment; c) Other Instructions per Project Phase? | Description of Environment  | Required? |   | Proposed Methodology of Securing and Presenting Information; Other Considerations in EIA Study | Page in the EIA Document | Verified acceptable by EMB CH? |   |
|----------------------------------|--|----|----|--|---|-----------|---|--|--------------------------|--------------------------------|---|
|                                  | LS   | LI | NR |  |   | Y         | N |  |                          | Y                              | N |
| 2.5.3. Loss of habitat           |  |    |    |  | Marine Resource Map   |           |   |  |                          |                                |   |
| 2.5.4.                           |  |    |    |  | Abundance/Densities/Distribution of mangroves, coral reefs, fishes, sea grasses, algae, seaweeds, plankton, etc |           |   |  |                          |                                |   |
| 2.5.5.                           |  |    |    |  | Sampling Site Map   |           |   |  |                          |                                |   |

|  |  |  |  |  |
|--|--|--|--|--|
| 3.0 THE AIR  |  |  |  |  |
| <b>3.1 Meteorology/Climatology</b>                         |  |  |  |  |
| 3.1.1. Change in the local climate, e.g. local temperature |  |  |  |  |
| 3.1.2. Contribution to global greenhouse gas               |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 3.2 Air Quality (& Noise)                                  |  |  |  |  |
| 3.2.1. Air pollution                                       |  |  |  |  |
| 3.2.2. Increase in noise                                   |  |  |  |  |
|  |  |  |  |  |
| <b>4.0 THE PEOPLE</b>                                      |  |  |  |  |
| 4.1.1. Displacement of settler                             |  |  |  |  |

|   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| THE AIR   |  |  |  |  |  |  |
| <b>Meteorology/Climatology</b>  |  |  |  |  |  |  |
| Monthly Average Rainfall of the Area  |  |  |  |  |  |  |
| Climatological Normals/Extremes   |  |  |  |  |  |  |
| Wind Rose Diagrams  |  |  |  |  |  |  |
| Frequency of Tropical Cyclones  |  |  |  |  |  |  |
| Air Quality (& Noise)   |  |  |  |  |  |  |
| Ambient concentrations of TSP, SO <sub>x</sub> , NO <sub>x</sub> , PM <sub>10</sub> , etc., 1-hour, 24- Hour Sampling |  |  |  |  |  |  |
| Noise Levels  |  |  |  |  |  |  |
| Sampling Station Map (air and noise)  |  |  |  |  |  |  |
| <b>THE PEOPLE</b>   |  |  |  |  |  |  |
| Demography  |  |  |  |  |  |  |

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|----------------------------------|--|----|----|--|--|---|-----------|---|--|--------------------------|--------------------------------|---|
|                                  | LS   | LI | NR |  |  |   | Y         | N |  |                          | Y                              | N |
| 4.1.2. Change in land ownership  |  |    |    |  |  | Settlement Map and Population Distribution Map      |           |   |  |                          |                                |   |
| 4.1.3. Displacement of property  |  |    |    |  |  | Population Growth Rate                              |           |   |  |                          |                                |   |
| 4.1.4. Right-of-way conflict     |  |    |    |  |  | Number of Households and Household Size by Barangay |           |   |  |                          |                                |   |

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  | Summary of Demographic data per Barangay to be directly affected: Land Area, Population, Population Density, Main Sources of Income, Gender and Age Composition, Literacy, Highest Educational Attainment, Employment Status |  |  |  |  |  |  |
| 4.1.5. In-migration                    |  |  |  |  | Household Profile based on results of the Socio-Economic/Perception Survey   |  |  |  |  |  |  |
| 4.1.6. Presence of Indigenous People   |  |  |  |  | Indigenous Peoples   |  |  |  |  |  |  |
| 4.1.7. Cultural Change                 |  |  |  |  | Health   |  |  |  |  |  |  |
| 4.1.8. Threat to public health         |  |  |  |  | Morbidity and Mortality Rates (Infants and Adults) from Direct Impact Areas  |  |  |  |  |  |  |
| 4.1.9. Local benefits from the project |  |  |  |  | 5-Year Trend in Morbidity and Mortality  |  |  |  |  |  |  |
|  |  |  |  |  | Notifiable Diseases in the Area including Endemic Diseases   |  |  |  |  |  |  |

| List of Key Environmental Issues | Relevance based on PD and Project Location2 LS = Likely Significant; LI = Likely Insignificant; NR= Not Relevant |    |    | a) Basis of Assessment of Relevance;<br>b) Proposed Method of Impact Assessment;<br>c) Other Instructions per Project Phase? |  | Description of Environment   | Required? |   | Proposed Methodology of Securing and Presenting Information; Other Considerations in EIA Study | Page in the EIA Document | Verified acceptable by EMB CH? |   |
|----------------------------------|--|----|----|--|--|--|-----------|---|--|--------------------------|--------------------------------|---|
|                                  | LS   | LI | NR |  |  |  | Y         | N |  |                          | Y                              | N |
|                                  |  |    |    |  |  | Local Health Resources (Government and Private)  |           |   |  |                          |                                |   |
|                                  |  |    |    |  |  | Environmental Health and Sanitation Profile: water supply, human excreta mgt, waste mgt and disposal systems |           |   |  |                          |                                |   |

|  |  |  |  |  |                                  |  |  |  |                |  |  |
|--|--|--|--|--|----------------------------------|--|--|--|----------------|--|--|
|  |  |  |  |  | and food hygiene                 |  |  |  |                |  |  |
| 4.1.10. Threat to delivery of basic services |  |  |  |  | Water Supply and Demand          |  |  |  |                |  |  |
|  |  |  |  |  | Power Supply and Demand          |  |  |  |                |  |  |
| 4.1.11. Traffic congestion                   |  |  |  |  | Transportation/Traffic situation |  |  |  |                |  |  |
| SUMMARY/HIGHLIGHTS OF TECHNICAL SCOPING      |  |  |  |  |                                  |  |  |  | For Procedural |  |  |
|  |  |  |  |  |                                  |  |  |  |                |  |  |

| List of Key Environmental Issues |   |  | Relevance based on PD and Project Location2 LS = Likely Significant; LI = Likely Insignificant; NR= Not Relevant |  |     | a) Basis of Assessment of Relevance;<br>b) Proposed Method of Impact Assessment;<br>c) Other Instructions per Project Phase? |   | Description of Environment | Required? |         | Proposed Methodology of Securing and Presenting Information; Other Considerations in EIA Study | Page in the EIA Document | Verified acceptable by EMB CH? |                                |  |
|----------------------------------|---|--|--|--|-----|--|---|----------------------------|-----------|---------|--|--------------------------|--------------------------------|--------------------------------|--|
|                                  |   |  | LS   | LI   | N R |  |   |                            |           |         |  |                          | Y                              | N                              |  |
|                                  |   |  |  |  |     |  |   |                            |           |         | Screening  |                          |                                |                                |  |
|                                  | Considering all project activities and phases, select the most critical Environmental Aspects (major sources of most significant impacts) |  |  | List of Associated Most Significant Environmental Issues/Stressors |     |  | Agreed EIA Approach in Impact Assessment and Mitigation on key environmental aspects and impacts/issues |                            |           | Remarks |  | Page in EIA Document     |                                | Verified Acceptable by EMB CH? |  |
| 1                                |   |  |  |  |     |  |   |                            |           |         |  | Y                        |                                | N                              |  |
| 2                                |   |  |  |  |     |  |   |                            |           |         |  |                          |                                |                                |  |
| 3                                |   |  |  |  |     |  |   |                            |           |         |  |                          |                                |                                |  |

### C. ENVIRONMENTAL RISK ASSESSMENT

| If the project has the following:   | Required Study/Report  | Y | N |
|---|--|---|---|
| 1. Facilities for the production or processing of organic or inorganic chemicals using: alkylation, amination by ammonolysis, carbonylation, condensation, dehydrogenation, esterification, halogenation and manufacture of halogens, hydrogenation, hydrolysis, oxidation, polymerization, sulphonation, desulphurization, manufacture and transformation of sulphur-containing compounds, nitration and manufacture of nitrogen-containing compounds, manufacture of phosphorus-containing compounds, formulation of pesticides and of pharmaceutical products, distillation, extraction, solvation | Risk Screening Study   |   |   |
| 2. Installations for distillation, refining or other processing of petroleum products.  | Risk Screening Study   |   |   |
| 3. Installations for the total or partial disposal of solid or liquid substances by incineration or chemical decomposition  | Risk Screening Study   |   |   |
| 4. Installations for the production or processing of energy gases, for example, LPG, LNG, SNG   | Risk Screening Study   |   |   |
| 5. Installations for the dry distillation of coal or lignite  | Risk Screening Study   |   |   |
| 6. Installations for the production of metals or non-metals by a wet process or by means of electrical energy   | Risk Screening Study   |   |   |
| 7. Installations for the production of metals or non-metals by a wet process or by means of electrical energy   | Risk Screening Study   |   |   |
| 8. Specific facilities or the use of certain processes listed in the <b>Risk Thresholds</b> Table below.  | Risk Screening Study   |   |   |
| 9. Facilities that would use, manufacture, process or store hazardous materials in excess of <b>Level 1</b> threshold inventory in <b>Risk Thresholds</b> Table below.  | Hazard Analysis Study, and Emergency/ Contingency Plan based on the study and worst-case scenario. |   |   |
| 10. Facilities that would use, manufacture, process or store hazardous materials in excess of Level 2 threshold inventory in Risk Thresholds Table below.   | Quantitative Risk Assessment (QRA) and Emergency/Contingency Plan based on the QRA                 |   |   |

**Risk Threshold Table**

| CATEGORY                          | LEVEL 1 (tons) | LEVEL 2 (tons) | CATEGORY                        | LEVEL 1 (tons) | LEVEL 2 (tons) |
|-----------------------------------|----------------|----------------|---------------------------------|----------------|----------------|
| 1. Explosives                     | 10             | 50             | 7. Toxic substances (medium)    | 10             | 50             |
| 2. Flammable substances           | 5,000          | 50,000         | 8. Toxic substances (high)      | 5              | 20             |
| 3. Highly flammable substances    | 50             | 200            | 9. Toxic substances (very high) | 0.2            | 1              |
| 4. Extremely flammable substances | 10             | 50             | 10. Toxic substances (extreme)  | 0.001          | 0.1            |
| 5. Oxidizing substances           | 50             | 200            | 11. Unclassified (Type A)       | 100            | 500            |
| 6. Toxic substances (low)         | 50             | 200            | 12. Unclassified (Type B)       | 50             | 200            |

| NEED FOR PUBLIC HEARING/CONSULTATION /SITE VISIT OR SITE/VALIDATION DURING EIA REVIEW | BASIS FOR RECOMMENDATION/DECISION |
|---|-----------------------------------|
| 1) Proponent's Request  |                                   |
| 2) EIARC Evaluation   |                                   |
| 3) EMB Evaluation   |                                   |

**SCOPED BY: EIARC MEMBERS**

| NAME | EXPERTISE | SIGNATURE | NAME | EXPERTISE | SIGNATURE |
|------|-----------|-----------|------|-----------|-----------|
|      |           |           |      |           |           |
|      |           |           |      |           |           |

|   |                             |   |                             |
|---|-----------------------------|---|-----------------------------|
| <b>EIA PERSONNEL REPRESENTATIVE DURING TECHNICAL SCOPING:</b> |                             | <b>REPRESENTATIVE/S OF THE PROJECT PROPONENT:</b> |                             |
| Signature over Printed name                                   | Signature over Printed name | Signature over Printed name                       | Signature over Printed name |
| <b>NOTED BY: EIAM Division Chief</b>                          |                             | <b>REPRESENTATIVE/S OF THE EIA PREPARER:</b>      |                             |
| Signature over Printed name                                   |                             | Signature over Printed name                       | Signature over Printed name |

| <b>PROCEDURAL SCREENING RECOMMENDATION BY EMB CASEHANDLER:</b> |        |                          |   |
|--|--------|--------------------------|---|
| 1st Procedural Screening:                                      | Return | <input type="checkbox"/> | Accept Document for Filing of Application for |
| REMARKS:   |        |                          |   |
| Printed Name of EMB Case handler:                              |        | Signature: _____         | Date: _____                                   |
| 2nd Procedural Screening:                                      | Return | <input type="checkbox"/> | Accept Document for Filing of Application for |
| REMARKS:   |        |                          |   |
| Printed Name of EMB Case handler:                              |        | Signature: _____         | Date: _____                                   |

ANNEX Q. Public Scoping List of Invitees

| SEQ | NAME                                | DESIGNATION                 | OFFICE/<br>ORGANIZATION                     | ADDRESS   | CONTACT<br>NOs             | EMAIL ADD                         |
|-----|-------------------------------------|-----------------------------|---|---|----------------------------|-----------------------------------|
| 1   | Hon. Victorino Dennis Socrates      | Governor                    | Provincial Government of Palawan            | Provincial Capitol Bldg., Fernandez St., Puerto Princesa City | 048 7230590<br>048 4332987 | palawan.governor@gmail.com        |
| 2   | Hon. Leoncio Ola                    | Vice Governor               | Provincial Government of Palawan            | Provincial Capitol Bldg., Fernandez St., Puerto Princesa City | 048-4349906                | palawan.vicegovernorola@gmail.com |
| 3   | Hon. Jaime Ortega                   | Mayor                       | Municipal Government of Aborlan             | Municipal Bldg., Aborlan, Palawan                             | 09566294007                | omm.lguaborlan@gmail.com          |
| 4   | Hon. Marven Madeja                  | Vice Mayor                  | Municipal Government of Aborlan             | Legislative Bldg., Aborlan, Palawan                           | 09669731092                | sboaborlanpal@gmail.com           |
| 5   | Atty. Teodoro Jose Matta            | Executive Director          | Palawan COuncil for Sustainable Development | PCSD Building, Sta Monica, Puerto Princesa City               | 048-4344235                | oed@pcsd.gov.ph.                  |
| 6   | Dr. Marie Grace T. Pascua, CESO III | Regional Director, MIMAROPA | NCIP  | San Vicente, Calapan City, Oriental Mindoro                   | 09453491191                | region4b@ncip.gov.ph              |
| 7   | Atty. Jansen Jontilla               | Provincial                  | NCIP- Palawan                               | Sta Monica,   |                            | jijontilla@gmail.c                |

|    |                           |                          |                                   |  |                                  |                                 |
|----|---------------------------|--------------------------|-----------------------------------|--|----------------------------------|---------------------------------|
|    |                           | Director                 |                                   | Puerto Princesa City                     |                                  | om                              |
| 8  | Atty. Noel Aquino         | Chief of Provincial ENRO | PROVL ENRO                        | PEO Compound, Puerto Princesa City       | 09178691911                      | noelaquino45@yahoo.com          |
| 9  | Mr. Felizardo B. Cayatoc  | PENRO                    | DENR                              | Sta Monica, Puerto Princesa City         | (048) 433-5638<br>(048) 434-8791 | penropalawan@denr.gov.ph        |
| 10 | Mr. Pedro A. Velasco      | OIC- CENRO               | DENR                              | Sta Monica, Puerto Princesa City         | 09489591702                      | cenropuertoprincesa@denr.gov.ph |
| 11 | Hon. Danilo Cortez        | Brgy Captain             | Brgy Apurawan, Aborlan, Palawan   | Barangay Hall, Apurawan                  | 09089862816                      |                                 |
| 12 | Hon. Franklin Canja       | Brgy Captain             | Brgy Culandanum, Aborlan, Palawan | Barangay Hall, Culandanum                | 09468125953                      |                                 |
| 13 | Mr. Avelino De Guzman Jr. | MENRO                    | Municipal Government of Aborlan   | MENRO Bldg., Municipal Compound, Aborlan | 09178822505                      |                                 |
| 14 | Mr. Clemente Cacatian     | Municipal Agriculturist  | Municipal Government of Aborlan   | Municipal Bldg., Aborlan, Palawan        | 09173009012                      |                                 |
| 15 | Engr. Salvador Cojamco    | MPDO                     | Municipal Government of Aborlan   | Municipal Bldg., Aborlan, Palawan        | 09175732680                      | omm.lguaborlan@gmail.com        |

|    |                          |                          |   |  |             |                          |
|----|--------------------------|--------------------------|---|--|-------------|--------------------------|
| 16 | Dr. Fidel V. Salazar     | Municipal Health Officer | Municipal Government of Aborlan                       | Municipal Health Office, Poblacion, Aborlan, Palawan | 09478938011 | salazar_fidelv@yahoo.com |
| 17 | Ms. Lydia B. Salac       | President                | Senior Citizen Group Representative of Private Sector | Brgy. Apurawan                                       | 09701615086 |                          |
| 18 | Ms. Irel L. Hermosa      | Teacher III              | Apurawan National High School                         | Brgy. Apurawan                                       | 09385259334 |                          |
| 19 | Ms. Maribel B. Favila    | Head Teacher I           | Apurawan Elementary School                            | Brgy. Apurawan                                       | 09685243683 |                          |
| 20 | Ms. Melanie Herher       | Teacher I                | Culandanum High School                                | Brgy. Culandanum                                     | 09685230379 |                          |
| 21 | Ms Imelda Cajolo         | Head Teacher I           | Culandanum Elementary School                          | Brgy. Culandanum                                     | 09200365200 |                          |
| 22 | Mr. Nestor Valmoria      | President                | Farmers Association                                   | Brgy. Culandanum                                     | 09121457225 |                          |
| 23 | Mr. Rufino Pedroso       | President                | Farmers Association                                   | Brgy. Apurawan                                       | 09187802443 |                          |
| 24 | Fr. Joseph Haa           | Parish Priest            | Sto Nino Catholic Chapel                              | Sto. Nino, Brgy. Apurawan                            | 09284424267 |                          |
| 25 | Mr. Inocencio Magallanes | Chairman                 | NGO - Haribon Palawan                                 | Brgy. San Miguel, Puerto Princesa City               | 09611801566 | haribonpalawan@yahoo.com |

