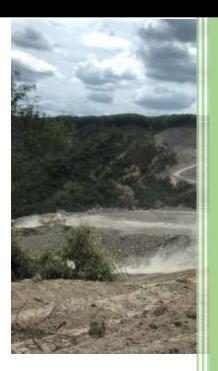
2019-2021

2-Year Community Development Program



ATN HOLDINGS INC.

February 2020

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SUMMARY

An Exploration Permit (EP) denominated as EP-IVA-019 covering an area of 82.7092 hectares in Barangay Macabud, Rodriguez, Rizal was entered into by and between ATN Holdings Incorporated and the Philippine Government through the Mines and Geosciences Bureau (MGB).

Republic Act (RA) No. 7942, known as the "Philippine Mining Act of 1995", and Department of environment and Natural Resources (DENR) Administrative Order (DAO) No.2010-21, as amended implementing Rules and Regulations of RA No. 7942, requires the Contractor/Permittee to prepare a Community Development Program (CDP), in consultation and in partnership with the host communities within the area subject of active exploration activities.

Following the existing implementing rules and regulations stipulated in DAO 2010-21, the 2-Year CDP includes Program for the Development of Host and Neighboring Communities (DHNC), Information, Education, and Communication (IEC) Program, and Program for the Development of Mining Technology and Geosciences (DMTG).

Prioritization of Program/Projects/Activities (P/P/As) for the 2-Year CDP were based on the following:

Based on needs. The needs of the community will be assessed through consultation and using the data and information from the Development Plans of the Barangays, Annual School Improvement Programs, and Community-Based Health Information System;

Impact. Consider high impact P/P/As that will spur further economic activities and will be of benefit to a more number of beneficiaries.

Cost Efficiency. This is the availability of the resources to implement the project based on the fund sources and community counterpart.

Viability and Sustainability. The readiness of the community to implement the P/P/As and their capacity to sustain the benefits derived from the CDP.

As a result of the social impact assessment based on the consultations and data gathered, ATN Holdings Inc. recognized the needs and problems of the community leading to the development of the P/P/As to be implemented in the CDP. For the DHNC program, it is the goal of the 2-Year CDP to provide assistance to the host communities in achieving community development, consistent with the local development plans being implemented in their area. Specifically, the CDP is aimed at assisting the host barangay in:

- Improving the health condition and services of the barangay;
- Supporting elementary school to improve quality of education;
- Improvement of product yield of farming organizations; and
- Ensure sufficient domestic water supply of Sitio Laan residents.

Per DAO 2010-21, a minimum of 10% of the Exploration Work Program budget shall be allotted for the CDP. Based on the approved Exploration Work Program, a total of PhP 4,100,000.00 is allotted for the implementation of the exploration activities, thus, PhP 410,000.00 shall be allotted for the implementation of the CDP. The regulation also stipulates that the CDP shall be developed within the area subject of active exploration activities for a period of two years.

Prior to the implementation of the program, ATN shall consult again the impact barangay to secure social acceptance to support and fully implement this CDP.

I. INTRODUCTION

1.1 Exploration Project Background

1.1.1 Project Name, Address of Contractor and Contact Person

Project Name: ATN Aggregates Project Exploration Work Program

Company Name: ATN Holdings Inc.

Address: 9th Floor, Summit One Tower

530 Shaw Boulevard Mandaluyong City Email Address:

Contact Persons:

Deody V. Solee (Consultant)

CP No.: 09175404207

Paul B. Saria (COO) CP No.: 09178839330

1.1.2 Exploration Project Description

1.1.2.1 Location and Accessibility

ATN Holdings Inc. exploration tenement area denominated as EP-IVA-019 which covers an area of 82.7092 hectares is located at Barangay Macabud, Municipality of Rodriguez, Province of Rizal. The project site can be reached via the Marikina-San Mateo Road passing through Cubao or Sumulong Highway while the other route is via Fairview passing through the Commonwealth Avenue-Litex-Payatas road. From Rodriguez proper the site is approximately 3 kilometers away.

The exploration permit area is bounded by the following geographic coordinates:

Table 1. Technical Description

| CORNER | LATITUDE | LONGITUDE | | | |
|-------------------------|-----------------|------------------|--|--|--|
| 1 | 14° 47′ 00.000″ | 121° 08′ 00.000″ | | | |
| 2 | 14° 47′ 30.000″ | 121° 08′ 00.000″ | | | |
| 3 | 14° 47′ 30.000″ | 121° 08′ 30.000″ | | | |
| 4 | 14° 47′ 00.000″ | 121° 08′ 30.000″ | | | |
| Area = 82.7092 Hectares | | | | | |

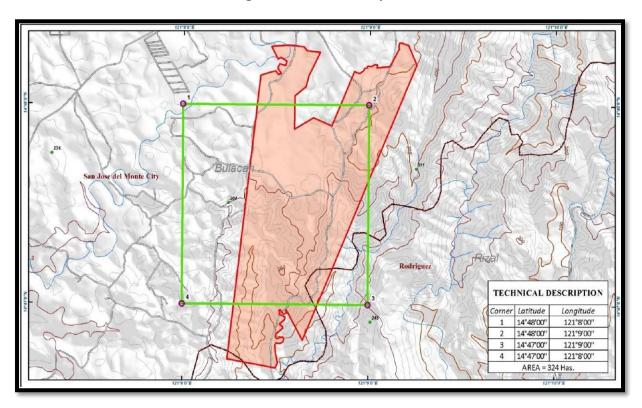
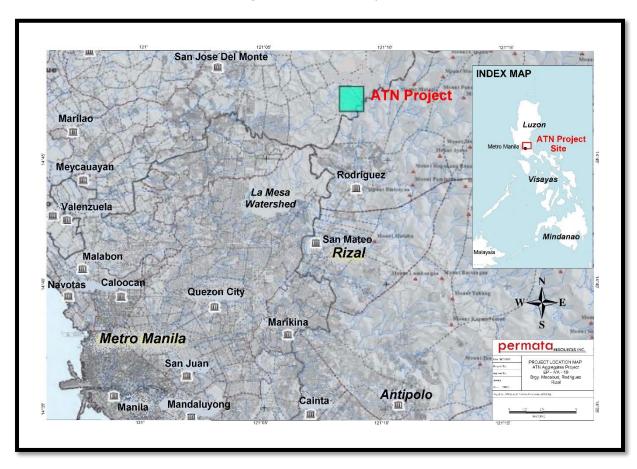


Figure 1. Tenement Map

Figure 2. Location Map



1.1.2.2 Research Work

No research work shall be further undertaken. Prior to the filing of the exploration permit application, a team was commissioned by ATN to undertake a rapid geological study of the project area to determine, characterize the lithology and do preliminary basalt deposits resource estimate.

1.1.2.3 Reconnaissance/Regional Survey

There is no need for reconnaissance or regional survey of the proposed permit area.

1.1.2.4 Semi-Detailed Survey

The exploration of the proposed permit area shall proceed directly to the detailed survey.

1.1.2.5 Detailed Survey

Subsurface Investigation

Drilling

A diamond core drilling program shall be implemented to test the thickness of the soil/overburden materials and for determination of the fracture density of the basalt and andesite deposit at depth.

This activity shall be executed by a competent drill contractor which shall be using diamond core drilling rigs. Core samples will be taken, recorded and logged as the drill penetrates deeper and deeper into the ground. Each core sample may need to be split into two (2) – one (1) will be preserved and the other half will be sent to the laboratory for more detailed studies such as but not limited to engineering properties and attributes of the rock.

About ten (10) drill holes shall initially be drilled with a combined lineal meterage of 500 meters at 50 meters depth per hole.

The drilling program is scheduled for six (6) months or less including the drill plan preparations and procurement of a drilling contractor, with an estimated budget of PhP3.0 Million, more or less.

Drill hole location maps, logs and cross-sections will be produced showing the outcome of the drilling activity.

Laboratory Analyses

Additional laboratory tests shall be conducted for the engineering and other lithological properties of the rocks and aggregates products contemplated to be produced. The materials to be tested shall be derived from the drill core samples and other fresh rock exposures. A minimum of three (3) sets of samples shall be tested for:

- Petrographic analysis by the Mines and Geosciences Bureau;
- In order to decide the suitability of the aggregate for use in pavement construction, following tests shall be carried out:
 - o Crushing test.
 - Abrasion test.
 - o Impact test.

- Soundness test.
- Shape test.
- Specific gravity and water absorption test.
- o Bitumen adhesion test.

The estimated cost of laboratory tests may amount to PhP 100,000.00 and may take three months to undertake.

1.1.2.6 Report Writing and Interpretation of Report

Report writing and interpretation of all the results of the geological mapping, laboratory tests and subsurface investigation shall be undertaken during the remaining month of the permit that will be granted. The Final Resource Report shall be prepared by a Competent Person to be eligible as support document in the filing of the Declaration of Mining Project Feasibility to comply with the regulations.

The exploration work program shall be managed and implemented by a competent experienced geologist with an estimated cost of PhP 500,000.00 for the duration of the exploration activities.

A budget of PhP 500,000.00 is likewise allocated for the project administration that include project management, supervision and monitoring.

1.1.2.7 Estimated Exploration Cost

| Activity | Cost (PhP) |
|---|--------------|
| Diamond core drilling | |
| Contract drilling (10 holes x 50m/hole x PhP 6,000.00/m) | 3,000,000.00 |
| Laboratory Test (lump sum) | 100,000.00 |
| Final Report (Competent Person) | 500,000.00 |
| Project Administration (consultant's fee, transportation, etc.) | 500,000.00 |
| Total | 4,100,000.00 |

Table 2. Exploration Work Program Cost Estimate

1.2 Overview of the CDP

1.2.1 Rationale

The Philippine Mining Act of 1995 as well as its Revised Implementing Rules and Regulations, Department of Environment and Natural Resources Administrative Order No. 2010-21, requires holders of an Exploration Permit to develop and implement a Community Development Program (CDP) to contribute to the sustainable development of the communities within their exploration project area and its implementation shall be supported by a fund equivalent to a minimum of ten percent (10%) of the approved Exploration Work Program budget.

The CDP shall be developed in consultation and in partnership with the host communities within the area subject of active exploration activities and may include Program, Projects and Activities (P/P/As) identified in accordance with section 135 and 136 hereof. The CDP shall be submitted to the Regional Office concerned, for approval, within six (6) months upon registration of the approved Exploration Permit.

The CDP will cover and implemented in Barangay Macabud, the lone community that will be affected by the exploration project.

1.2.2 Goals and Objective

It is the goal of the CDP to institutionalize basic mechanism in sharing the benefits of mining exploration to host communities through a concrete and meaningful socially-oriented program. Specifically, this project aims to improve the living conditions of the residents within the affected barangays and to develop, to foster and to maintain a harmonious relationship between the company and the community.

The primary objective of ATN is to provide opportunities by assisting in the development of host communities situated within its area of operation in accordance to the Community Development Program to promote the general welfare of the inhabitants living therein.

1.2.3 CDP Methodology

1.2.3.1 Secondary Data Gathering

Both primary and secondary data were gathered in order to have an assessment on the general conditions of the covered barangays with focus on the demographics, socio-economic, cultural, and environmental aspects. These documents were gathered from the Local Government Unit offices. ATN participatory rapid appraisal was also used as reference for the formulation of the program.

1.2.3.2 Community Consultation

On April 11, 2019, a consultation with the host barangay was conducted in order to present and discuss with the host barangay the approved Exploration Work Program and Community Development Program of ATN Holding Inc. The occasion was attended by the representatives of the project proponent, MGB RIV-A headed by Mr. Sonny Villar, and members of the barangay council. In this meeting the preparation of Community Development Program (CDP) has been discussed where the council was advised to hold a workshop to identify their barangay priority projects that can be funded by the CDP.

On November 23, 2019, an SDMP and CDP consultation was held in Barangay, Macabud. The objective of the meeting is to inform and consult the barangay regarding the ATN Aggregates Project's social responsibility. Two of these is the implementation of the SDMP during the operation period and CDP during the exploration period. The minutes of the meeting is attached in Annex 8.5.

1.2.3.3 Social Impact Assessment

ATN prepared a Social Impact Assessment (SIA). SIA is an applied social science research aimed at identifying and analyzing intended and unintended social consequences, both

positive and negative, of planned interventions and social change processes such as policies, programs, and projects.

On November 18-22, a random community/social development perception survey was conducted. It was carried out in Sitios within Barangay Macabud. Respondents that were interviewed are household heads, spouses of household heads, sons or daughters of household heads who are at least 18 years old, and other household members who are also at least 18 years of age.

Through this approach, an assessment of the current socio-economic status of the host barangay, pressing issues, and concerns were determine and utilize as a basis for priority community development projects that can be funded and implemented through the SDMP and this CDP. The SIA document is attached in Annex 8.8.

1.2.4 Process and Approval

An approved CDP is required prior to commencement of the implementation of the approved Exploration Work Program under the renewed Exploration Permit/ Exploration Period or approved Pre-Feasibility/Feasibility Period. ATN prepared the CDP in consultation and in partnership with the host communities within the area subject of active exploration activities. It shall be submitted to the Regional Office concerned, for approval, within six (6) months upon registration of the approved Exploration Permit.

The MGB Region IV-A Office will conduct an evaluation of the submitted programs as to its form, substance, and completeness. Additional documents or information which are deemed necessary to supplement the programs may be required by the reviewers.

1.0 SITE PROFILE

1.1 Geographical Location

Municipality of Rodriguez is situated in the northernmost part of Rizal Province and within the fringes of Metro Manila. Situated at the foot of the Sierra Madre Mountains with a total of 36,307.31 hectares or 363.07 km2, it is one of the largest municipalities in Rizal Province in terms of land area. More than 40% (12,620.90 hectares) of the Upper Marikina River Basin and Protective Landscape (UMRBPL) is part of the municipality. It is bounded on the West by Quezon City and Caloocan City; on the North by San Jose del Monte City, Bulacan; on the East by the Municipality of General Nakar, Quezon and by Antipolo City and San Mateo, Rizal on the South.

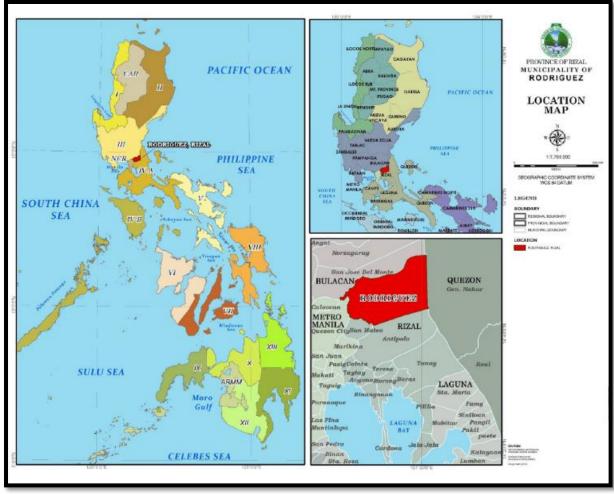
Barangay Macabud which is the host barangay of the exploration project is located in the northernmost part of Rodriguez and bounded in the north by Norzagaray, Bulacan, in the west by San Jose Del Monte, Bulacan; Pangarap, Caloocan City and Quezon City and in the south by Barangay San Jose of Rodriguez . Barangay Macabud has a total land area of 1,886 hectares representing 5.19% of the total municipal land area.

Table 3. Land Area of Rodriguez by Barangay

| BARANGAY | AREA (hectares) | % DISTRIBUTION |
|----------|-----------------|----------------|
| Balite | 53.88 | 0.15% |

| Burgos | 276.00 | 0.76% | |
|------------|-----------|---------|--|
| Geronimo | 36.75 | 0.10% | |
| Macabud | 1,886.00 | 5.19% | |
| Manggahan | 117.44 | 0.32% | |
| Mascap | 7,576.41 | 20.87% | |
| Rosario | 25.17 | 0.07% | |
| San Isidro | 3,792.00 | 10.44% | |
| San Jose | 1,045.28 | 2.88% | |
| San Rafael | 6,061.45 | 16.69% | |
| Total | 36,308.07 | 100.00% | |

Figure 3. Location of Map of Rodriguez Rizal



1.2 Physiography - Slope, elevation and terrain characteristics, etc.

The topography of Rodriguez is generally rugged and mountainous. Its central and eastern sections are dissected by a series of steep ridges and highlands, extending from north to south that includes Barangay Macabud. The rough topography is characterized by a series of volcanic, metamorphic and dioritic hills. Elevations of more than 1,000 meters can be found in the northeastern part of the municipality. Mt. Irid, the highest peak is at 1,469 MASL.

The low lying areas are found mostly on the western side of the municipality ranging from 10 to 30 meters above sea level (MASL), formed by natural alluvial depositions of rivers and waterways. From here, elevation is increasing going to the east direction. Strips of flatlands can also be found on riversides where the slope varies from 0–3%. The 'poblacion' is situated at approximately 41.16 MASL.

Rodriguez has at least 31 peaks topped by Mt. Irid as the highest peak at 1,469 meters, ASL. The other mountain peaks, with their corresponding measurements, above sea level, are: Mt Pamitinan (330 m; 1,081 ft); Rizal Peak (725 m; 2,377 ft); Mt. Parawagan (475 meters), Mt. Binicayan (1,001 ft; 305 m) , Mt Ayaas (567 m; 1,859 ft), Mt Limila (886 ft / 270 m); Mt Caypipili (1,661 ft ; 507 m), Mt. Lucutan (849 ft / 259); Mt. Danes (918 meters), Mt. Macatohuol (1,369 meters); Mt Palagyo (1,251 meters), Mt. Matulid (1,074 meters), Mt. Maymasibi (901 meters; 2154 ft), Mt. Minalunad (628 meters), Mt Cabaun (1,797 ft / 548 m); Mt Magalisian (1,748 ft / 533 m); Mt Macabinauan (1,627 ft / 496 m); Mt. Haponang Baboy (1,514 ft / 462 m); Mt Panas (1,461 ft / 446 m), Mt Malagia (1,203 ft / 367 m); Mt. Payacin865 ft / 264 m); Mt. Malac (548m), Mt Batay (1320 m), Mt. Cayadlas, Mt Mamasan, Mt Calumpog, Mt Masola, Mt Masarat, Mt. Batabas, and Mt. Cacanado.

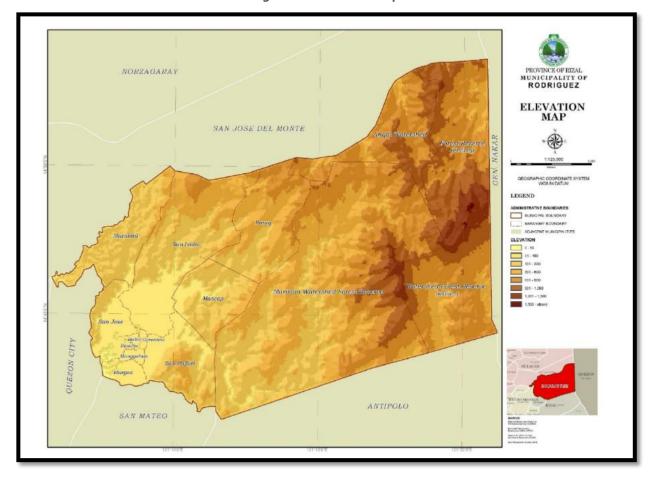


Figure 4. Elevation Map

1.3 Natural Drainage System

The municipality's highlands are drained by rivers and their tributaries which have a combined length of 397.23 km, excluding those of small streams and creeks. They generally flow from the northeastern to the southwestern part. The northern portions are drained by Puray River, Montalban River, Wawa River, Lucutan River, and Tanag River. In the southern portions, water is discharged through Burgos River and Maly River, which are then joined by Mango River.

Wawa River is famous than the other rivers that are found in the municipality because a dam was built on it. The dam, called Wawa Dam, can be a potential source of potable water for residents of Rizal and Metro Manila.

All these rivers converge on an even larger channel, the Marikina River. This is the biggest waterway in the entire province of Rizal. Other smaller waterways, such as Anginan Creek and Laan Creek also drain into this river. By the way, Marikina River traverses the territories of Rodriguez, San Mateo, and Marikina City in southward direction until it joins Pasig River at Napindan point. Both Marikina River and Pasig River eventually drain into Manila Bay.

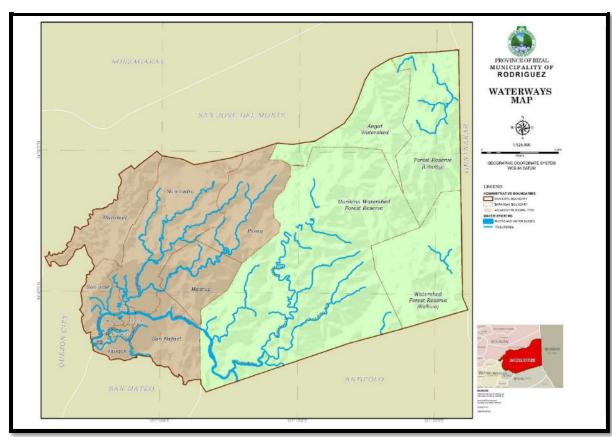


Figure 5. Waterways Map

1.4 Climate Type

Rodriguez's climatic type falls under Type I in the Corona Classification System of DOST-PAGASA. This climate is characterized by a distinct but brief dry season from December to April during which the area receives less than 60 mm of precipitation.

The local climate is dominated by monsoon circulations which cause seasonal variations in precipitation. In particular, January and February receive only 23mm and 15mm of precipitation, respectively. The 'low-sun' characteristic of this period produces hot and dry conditions. This dryness is compensated by heavy rains and excessive moisture from June to October also called the 'high sun' period, during which the area receives more than 200 mm of rainfall per month or more than 40% of the average rainfall in other parts of the country.

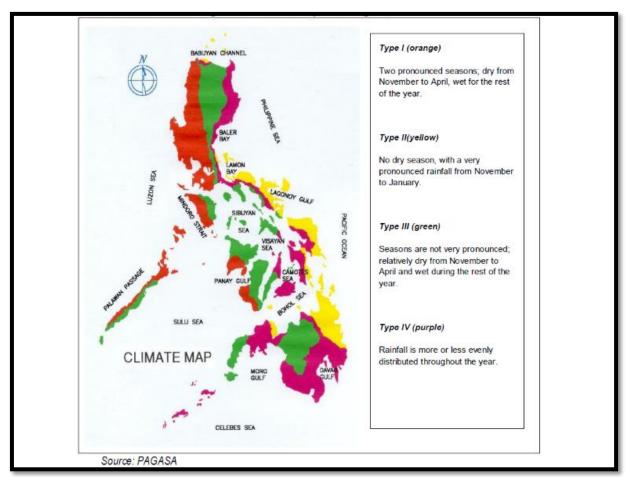


Figure 6. Climate Map

1.5 Rainfall Pattern

Total annual precipitation averages 2,471 millimetres per year from around 151 rainy days. July, August and September are the rainiest months with a spike in rainfall in the vicinity of 500 mm per month. The heavy rains which fall during this time of the year are enhanced by the southwest monsoon (Habagat). Thunderstorms, lightning, and other effects of Intertropical Convergence Zone (ITCZ) are frequent occurrences during this time.

Wind patterns are influenced by the southwest (Habagat) and the northeast (Amihan) monsoons. The most frequent wind direction is north-easterly because of the influence of the northeast monsoon. Winds are not quite strong. The annual average wind speed is only 2 meters per second (or approximately 7.2 kph) and up to four knots. The strongest winds occur in April and May each year.

Because of its latitudinal location, the sun is almost always directly overhead in Rodriguez at noontime for much of the year. The town consequently receives enormous concentration of solar energy which is responsible for high temperatures all year-round, averaging above 27° degrees Celsius. The mean temperature changes with rising elevation by about 0.5°C per 100 meters increase in elevation.

From October to March, relatively colder conditions are experienced, with the average monthly temperature dropping below 27° degrees Celsius as a combined effect of the northeast monsoon and the cold Siberian winds.

2.0 GENERAL DESCRIPTION OF ENVIRONMENTAL/SOCIO-ECONOMIC AND CULTURAL CONDITIONS

3.1 Environmental Conditions

3.1.1 Land-use Pattern

Significant changes in Rodriguez' land use and growth patterns are caused by the considerable growth of real estate developments in the last two decades coupled with the housing programs of the national government for the relocation of informal settlers from various sites of Metro Manila from 1980 up to the present. The operation of sanitary landfills, establishment of agro-industrial businesses, and the continued mining and quarrying activities in the municipality also affect the distribution of land uses.

With 36, 307.31 hectares of total land territory, the general classification of lands in the municipality are forestland (75.04%), agricultural (9.31%), built-up (5.13%), agro-industrial (0.13%), mining and quarrying (0.84%), tourism (1.67%) among other uses. The Marikina Watershed takes up a substantial portion of the municipality's land area with 22, 693.32 hectares or 62.50% inclusive to the forestland area.

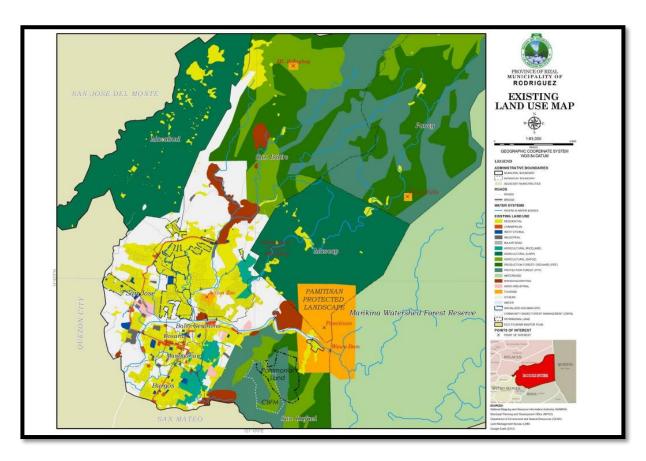
As shown in the table and map below, all lands with a slope of 0% to 18% in Rodriguez combine for 8,300 hectares. Based on slope, elevation, landform, soil quality, and geology, previous CLUP documents identified only 6,211 hectares in Rodriguez as 'developable' or fit for human settlement. The rest of the territory was deemed suitable for conservation in its original state as 'forestland' primarily because of ecologic constraints such as steep slopes, unsuitable soils, geologic hazards, difficult access, etc.

Category
Total Land
Area (ha)
Distributed
Land Area (ha)
Forestland
Watershed
Agricultural Land
3,3381.34
Percentage
(%)
Percentage
(%)
22,693.32
9.31

Table 4. General Land Use in Rodriguez Rizal

| CARP | | 1,432.37 | |
|-----------------------|-----------|----------|--------|
| SAFDZ | | 1,549.96 | |
| | | , | |
| Rice Land | | 399.02 | |
| Built-Up Areas | 1,862.76 | | 5.13 |
| Commercial | | 66.59 | |
| Industrial | | 38.04 | |
| Institutional | | 39.76 | |
| Major Road | | 22.40 | |
| Residential | | 1,696 | |
| Others | 2,790.78 | | 7.69 |
| Cemetery | | 17.95 | |
| Landfill | | 33.02 | |
| Agro-Industrial | 45.81 | | 0.13 |
| Mining/Quarrying | 304.13 | | 0.84 |
| Tourism | 606.49 | | 1.67 |
| Water | 72.12 | | 0.20 |
| TOTAL | 36,307.31 | | 100.00 |

Figure 7. Land Use Map



The Bureau of Soil and Water Management (BSWM) used the morphological approach to classify the soil types in Rodriguez into appropriate soil mapping units. Based on its classification, the general soil types in Rodriguez are Antipolo clay, Antipolo soils (undifferentiated), Binangonan clay, Marikina clay loam, Marikina loam, Marikina silt loam, Novaliches clay loam, Novaliches loam, and Quiangua silt loam.

3.1.2 Availability and Source of Water Supply

The municipality is currently sourcing its water supply from Angat Dam. However, due to the insufficiency of water supply for Metro Manila, there was a strong clamor to reuse the Wawa Dam. The dam and surrounding area are currently protected as part of the Pamitinan Protected Landscape. The Wawa Dam in Rizal province is the most feasible and immediate water source for Metro Manila in the event of a water crisis, according to a firm that owns the rights to the Wawa river system.

Wawa Dam (also known as Montalban Dam) is a gravity dam constructed over the Marikina River in the municipality of Rodriguez in Rizal province, Philippines. The slightly arched dam is situated in the 360-meter (1,180 ft) high Montalban Gorge or Wawa Gorge, a water gap in the Sierra Madre Mountains, and east of Manila. It was built in 1909 during the American colonial era to provide the water needs for Manila. It used to be the only source of water for Manila until Angat Dam was built and Wawa was abandoned in 1968.

3.1.3 Natural Calamities and Disasters

Three (3) major natural land use hazards are identified in Rodriguez, these are flooding, landslide (erosion), and fault. Flooding covers a combined area of 1, 049.76 hectares with 966.32 hectares and 83.44 hectares covering "high" and "low to moderate" flood risks respectively. Fault hazards cover a total of 27.42 and landslide or erosion hazards combined for a hefty 20, 684.83 hectares. Table below summarizes the total area per Barangay Affected by the Various Hazards in Rodriguez.

PHILVOCS reported active faults along the fringes of Marikina Valley. This Valley Fault System is composed of two major northeast-trending faults. The East Valley Fault extends as far as north of Barangay San Rafael, Gloria Vista Subdivision, eastern San Mateo Northwest of Antipolo until down south just north of Marvihills Subdivision and Modesta Village, stretching for at least 8 kilometers. The West Valley fault extends approximately 23 kilometers from lower Barangay Macabud in the north down near ULTRA in Pasig City.

| | | | | Hazard | | | |
|------------|------------------------|--------|--------------------|--------------|----------|----------|----------|
| | Fault | Flo | ood | od Landslide | | | |
| Barangay | Within 5m buffer | High | Low to Moderate | High | Moderate | Low | Total |
| Balite | | 38.06 | | | | 18.47 | 56.53 |
| Burgos | 0.06 | 161.39 | 1.22 | 7.83 | 2.98 | 180.29 | 353.78 |
| Geronimo | | 27.22 | | | | 21.92 | 49.14 |
| Macabud | 5.09 | | | 538.94 | 87.36 | 1,280.61 | 1,912.00 |
| Manggahan | | 39.86 | | | | 69.81 | 109.67 |
| Mascap | 4.09 | | | 1,290.80 | 3.17 | 350.79 | 1,648.86 |
| Puray | 6.84 | | | 2,501.50 | | 27.06 | 2,535.41 |
| Rosario | | 13.04 | | | | 14.21 | 27.25 |
| San Isidro | 2.65 | 327.83 | 9.21 | 2,752.71 | 246.50 | 655.69 | 3,994.60 |
| San Jose | 4.10 | 236.59 | 73.01 | 98.20 | 374.39 | 217.36 | 1,003.65 |
| San Rafael | 4.59 | 82.94 | | 1,379.24 | 116.65 | 156.26 | 1,739.48 |

| Watershed | | 39.39 | | 8,168 | 123.77 | | 8,331.48 |
|-----------|-------|--------|-------|-----------|--------|----------|-----------|
| Total | 27.42 | 966.32 | 83.44 | 16,737.54 | 954.82 | 2,992.47 | 21,761.85 |

3.2 Socio-Economic Conditions

3.2.1 Demographic Information

3.2.1.1 Historical Growth of Population

Rodriguez has a steady growth of population. National Statistics Office (NSO) census in Table 6 revealed that in the last two years, the municipality had an average growth rate of more than twice that of the province. The contrasting population growth rates of Rodriguez at these years against the trends in the broader context can be attributed to the large influx of migrants during the same periods. Based on PSA 2015 Census, Barangay Macabud has a total population of 9,707.

Sharp increases in population size of the municipality, as reflected in Table 6 is a result of the national government's guided relocation of informal settlers from Metro Manila which started in the 1990s. The migration due to relocation intensified between 1995 and 2000 largely in Barangay San Jose and Barangay San Isidro between 2004 and 2007 and still continues up to the present. These tremendous inflows of migrants transformed the character of Rodriguez from rural to urban.

Table 6. Population Distribution by Barangay

| Parangay | Census Year | | | | | | |
|---------------|-------------|--------|---------|---------|---------|---------|--|
| Barangay | 1990 | 1995 | 2000 | 2007 | 2010 | 2015 | |
| Balite (Pob.) | 6,182 | 6,943 | 7,849 | 8,827 | 9,114 | 9,983 | |
| Burgos | 15,483 | 19,536 | 25,146 | 34,032 | 38,554 | 44,100 | |
| Geronimo | 3,365 | 3,830 | 4,584 | 4,450 | 5,417 | 5,554 | |
| Macabud | 2,021 | 2,327 | 3,124 | 6,338 | 6,605 | 9,707 | |
| Manggahan | 5,862 | 7,031 | 8,220 | 11,170 | 12,557 | 13,913 | |
| Mascap | 1,645 | 2,056 | 2,089 | 4,293 | 4,425 | 4,699 | |
| Puray | 1,311 | 1,746 | 1,772 | 2,937 | 2,941 | 3,921 | |
| Rosario | 3,530 | 4,109 | 4,558 | 5,414 | 5,881 | 7,244 | |
| San Isidro | 1,905 | 2,178 | 2,618 | 28,614 | 62,114 | 117,277 | |
| San Jose | 15,222 | 17,627 | 40,372 | 93,567 | 108,586 | 124,868 | |
| San Rafael | 10,548 | 12,285 | 14,835 | 23,952 | 24,710 | 27,956 | |
| Total | 67,074 | 79,669 | 115,167 | 223,594 | 280,904 | 369,222 | |

Table 7. Land Distribution by Barangay

| Barangay | Land Area (ha) | Land Distribution (%) | 2015 Population |
|-----------|----------------|-----------------------|--------------------|
| Balite | 53.88 | 0.15% | 9,983 |
| Burgos | 276.00 | 0.76% | 44,100 |
| Geronimo | 36.75 | 0.10% | 5,554 |
| Macabud | 1,886.00 | 5.19% | 9,707 |
| Manggahan | 117.44 | 0.32% | 13,913 |

| Mascap | 7,576.41 | 20.87% | 4,699 |
|------------|-----------|--------|---------|
| Puray | 15,437.70 | 42.52% | 3,921 |
| Rosario | 25.17 | 0.07% | 7,244 |
| San Isidro | 3,792.00 | 10.44% | 117,277 |
| San Jose | 1,045.28 | 2.88% | 124,898 |
| San Rafael | 6,061.45 | 16.70% | 27,956 |

NONZAGANAY

SAN JUNE TIKL MINET.

Angus Watershed

Forms Reserve

Glowing as PEELA,
NUNCITALITY OF

POPULTAION
MAP

SAN JUNE TIKL MINET.

Angus Watershed

Forms Reserve

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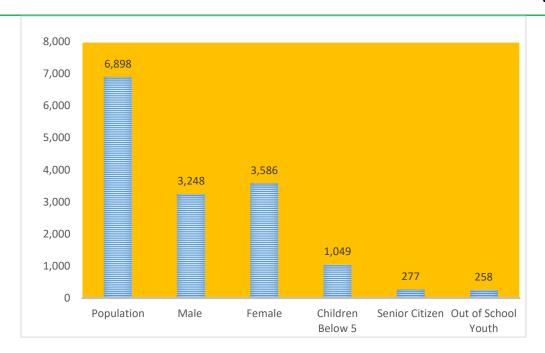
Glowing as Sel

Figure 8. Population Map

3.2.1.2 Demography of Barangay Macabud

In the 2011 barangay census, Macabud recorded a population of 6,898 from 1,454 households. Majority of the population is female (51%) with the rest being male (49%). Children below 5 years of age represented 15.21% while senior citizens were only 4.02% of the population. The Out of School Youth population represented 4.02%. The barangay had a total of registered voters numbering 3,871. Figure 2 presents the demographic profile of Barangay Macabud.

Table 8. Demographic Profile of Barangay Macabud



3.2.1.3 Age — Sex Structure

NSO Census 2007 has revealed that, based on age-sex structure, Rodriguez has a relatively young population. Young dependents with ages 0-14 years comprise 36% of the total population while economically-productive individuals with ages 15-64 comprise 61.42% of the total population. Those who are retirable or past retirement age comprise only 2.66% of the total population.

The sex ratio approaches almost-perfect parity at 1.025 men to 1 woman. Men slightly outnumber women in most age brackets up to 54 years of age. From 54 years onwards, women outnumber men and tend to live longer.

Reproductive-age females of 15-49 years combined for 26.66% of the total population in 2010, with a fertility rate of 2.34 births per woman, a modest figure compared to the country's average of 3.75 births per woman.

Elementary school-going population in 2010 at a 90% participation rate comprised 16% of the total population, or 35,318 children requiring 883 classrooms. For high school education at 80% participation rate, age-groups combined for a total of 17,481 students requiring 437 classrooms.

Those with ages 18 years and above, male and female, and eligible to register for 2010 elections regardless of literacy or illiteracy, comprised about 43% of total population, or 127,469 individuals. Per COMELEC figures, there were 139,304 registered voters in 2010.

3.2.1.4 Working-Age Population According to Literacy and Educational Attainment

Literacy, defined as nominal literacy or simple ability to read and write (vs functional literacy and numeracy), is generally high in Rodriguez at 97.94% of working-age population 15 years and above. In urban barangays, the literacy rate is 98% while in rural barangays the literacy rate is 3% lower at 95%.

In terms of formal education in the year 2007, more than 70% of the population was still enrolling or finishing basic education. The running figure of the academic degree holders in the municipality was low at 8.25%.

Those without high school diploma need to be targeted by informal education and non-formal education programs to equip them to be competitive within the labor force. Without such interventions, these so-called dropouts would not even qualify for TESDA skills training which requires completion of high school education.

3.2.1.5 Education

Rodriguez has 37 elementary (28 public & 9 private) schools and 24 high (15 public & 9 private) schools, all are under the supervision of the Department of Education (DepEd) schools district. It also has 5 tertiary schools under the control of the Commission on Higher Education (CHED). These are the Pamantasan ng Montalban, University of Rizal System (URS-Rodriguez), St. Joseph's College of Quezon City (Montalban Campus), Asian Institute of Computer Studies (AICS) and Froebellian College of Science and Technology. The private sector's share in the provision of basic education is noteworthy for the upper-income families. Public schools cater mostly to middle-income and lower-income families.

Teacher-student ratio is 1:48 and 1:59 in Rodriguez District I and II respectively. The ideal teacher-student ratio in elementary education is 1:30 (Azim Premji Foundation, 2010).

In Barangay Macabud, education is accessible to the community. There is one public elementary school, one public high school and one private school (Saint Joseph Christian Academy). There are day care centers in Sitio Karahume, Sitio Licao-Licao, Sitio Harangan and Sitio Laan that caters to children below six years of age.

3.2.2 Income sources

Agriculture is the main source of income in the municipality. Noted agricultural produce in the municipality are root crops: cassava and sweet potato; fruit vegetable crops like tomato, squash, ampalaya, pole 'sitao', eggplant, okra and radish; and leafy vegetables like pechay, mustasa, sili, alugbati and camote tops.

Rice farming has declined from 573 hectares in 1983 to 349 hectares in 2007. The town has been short of rice supply at 13,313 metric tons in 1983 to approximately 34,000 metric tons in 2012. In 1998, only 86 farmers own the land that they till, 902 farmers are beneficiaries of the agrarian reform program and still paying for their farms, 263 farmers are on tenancy basis, and the rest are landless farmworkers. Other agricultural production in 2012 included a variety of fruits, root crops, coconuts, coffee/cacao and rubber. Of these, banana has the highest combined areas at 33.5 hectares.

Agriculture has considerably declined -- in terms of the area being cultivated, output, and labor share since the 1990s with the rise of quarrying, and the hauling and waste-disposal activities brought about by the operation of the municipality's sanitary landfill.

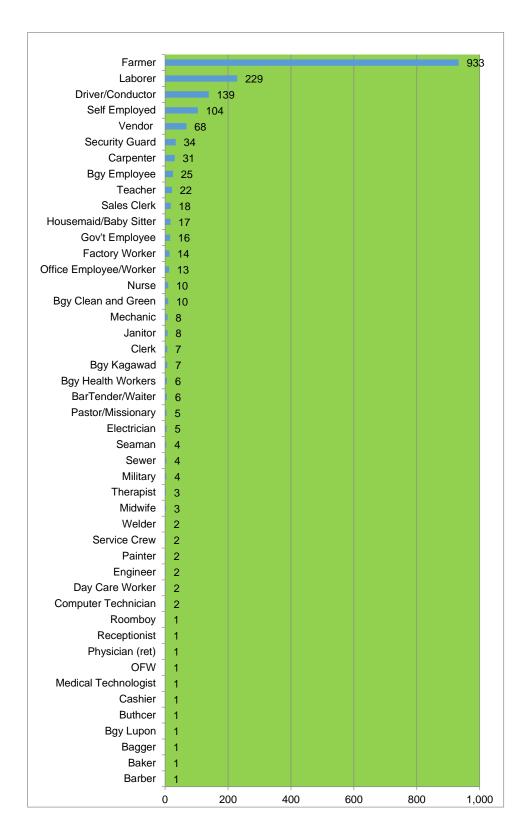
Other sources of income in Rodriguez where people are employed are Tourism, Mining and Quarrying, Manufacturing, Trade, Commerce and other services.

Barangay Macabud is considered an agricultural community with land under the Comprehensive Zoning Ordinance of Rodriguez. The top five occupations in Macabud are farmers (52.5%), laborer (12.89%), driver/conductor (7.83%), self-employed (5.86%), and vendor (3.83%). The rest, around 11%, are engaged in various employment/occupations. However, more than 1,500 of the total population are unemployed.

3.2.3 Labor availability and distribution

Farming is the main source of income in the Barangay Macabud while laborers, drivers/conductors follows. Other labor availability and distribution in the barangay is illustrated in the table below.





3.2.4 Transport, market and credit facilities

Rodriguez is strategically located in relation to NCR, Central Luzon, and Calabarzon. It is accessible to most parts via national highways and provincial roads. Public utility buses, jeepneys, and FX vans regularly ply the routes to Antipolo City, Marikina City, San Mateo, Sta. Lucia Grand Mall in Cainta, and Cubao Quezon City via Marcos Highway. Registered public transport vehicles total of 1,444 units. A previous provincial report counted 14,433 privately-owned vehicles of different kinds. On any given day, there could be around 4,500 vehicles of all sorts circulating or contributing to traffic volume in the town center. The Rodriguez Highway-San Jose-Quezon City national road had a computed average daily traffic of 10,145 vehicles in 1998.

In 2012, the Transport and Traffic Management Office (TTRAMO) of the municipality has registered a total number of 7,284 units. The registered vehicles were sorted, as follows: public utility jeepneys, 1,110 units; AUV/FX service, 217 units; tricycles with franchise, 2,653 units; and private tricycles, 3,304 units. TTRAMO also registered a total of 52 associations that operate the public transport vehicles. There are 27 associations for public utility jeepneys, 6 associations for AUV/FX service and 19 associations for the tricycles with franchise. It is noticeable that the total number of private and tricycles with franchise is 5,957 units.

A large number of tricycles for short-distance trips (1,631 units in 3 barangays of the urban district alone) and the popularity of private motorbikes among motorists have combined to cause traffic congestion in the urban core. This is principal because there are few traffic regulators, there is a lack of parking space, and roadside parking in commercial areas has always been tolerated.

The municipal market serves as the major buyer of local products. Barangays have also their own flea market or talipapa where a small volume of produce was sold.

Rodriguez has several banks and lending institutions which serve to stimulate the local capital formation and mobilization of savings for investment. These financial institutions include Bank of the Philippine Islands, BPI Family Savings Bank, RCBC Savings Bank, Inc., Banco de Oro, Premiere Development Bank, Rural Bank of Montalban, Inc., Builders SLA Inc., Philippine Savings Bank, Allied Bank, Bank of Makati, and the eleven (11) lending/financing investment companies and ten (10) cooperatives that are established in the area. Joining them is the growing money remittance industry like M Lhuillier, Cebuana Lhuiller, Smart Padala, Globe G-Cash, Western Union, Palawan Express and LBC Padala.

3.6 Cooperatives and other organizations

Below is the table showing the notable organization in Barangay Macabud and its functions.

ORGANIZATION

Pantawid Pamilyang Pilipino

Program (4Ps)

It is a human development measure of the national government that provides conditional

Table 10. List of Local Organizations

| | cash grants to the poorest of the poor to | | |
|--------------------------------|---|--|--|
| | improve the health, nutrition, and education of | | |
| | children aged 0-18. | | |
| Farmer's Association | Facilitate the integration of farmers into | | |
| | markets, improvement of quality of life, and | | |
| | promoting sustainable fishing practices. | | |
| Senior Citizens | This group aimed at organizing the elderly to | | |
| | identify their needs, welfare, and rights | | |
| | especially on health. | | |
| Women's Organization | Ensure the full integration of women for | | |
| | economic, social and cultural development at | | |
| | the municipal and barangay level. | | |
| Tricycle Operators and Drivers | One of their primary objectives of TODA is to | | |
| Association | provide programs such as livelihood, assistance | | |
| | on the issuance of franchise and others. The | | |
| | regular meeting was also scheduled for the | | |
| | monitoring of the activities of Macabud TODA. | | |

3.2.5 Access, Control and Land Ownership

Land ownership in Barangay Macabud is through titling while others are renting or covered by Comprehensive Agrarian Reform Program (CARP). CARP is the redistribution of private and public agricultural lands to help the beneficiaries survive as small independent farmers, regardless of the "tenurial" arrangement. Its goals are to provide landowners equality in terms of income and opportunities, empower land owner beneficiaries to have equitable land ownership, enhance agricultural production and productivity, provide employment to more agricultural workers, and put an end to conflicts regarding land ownership.

3.2.6 Social Services and Support Programs

3.2.6.1 Social Welfare Services

Social welfare services have been devolved to LGUs by RA 7160. The Municipal Social Welfare and Development Office carries out the following programs using locally-generated resources:

- Community Organizing and Sustainable Livelihood
- Operation of Day Care Centers
- Supplemental nutrition for malnourished children
- Disability Prevention & Integration Program for Persons with Disability
- Center for Senior Citizens
- Welfare Programs for women, youth, youth offenders, drug and substance abusers, etc.
- Parent Effectiveness, Pre-marriage Counselling, similar programs

To alleviate indigence given the high poverty incidence of the population, MSWDO focuses its services on the bottom 30% of households. Selected households in Socialized Housing Sites and upland tribal areas are covered by the 4Ps program.

Since the Social Reform Agenda of 1992, DSWD has provided start-up capital to livelihood projects intended to alleviate poverty of disadvantaged groups, a program that has evolved through the decades under different labels, namely; Self-Employment Assistance Program (1981-1997), CIDSS (1995-2001), KALAHI-CIDSS Convergence (2001-2004), Conditional Cash Transfer (2007-2010), and Pantawid Pamilyang Pilipino Program 4-Ps (2010-2016).

3.2.6.2 Sports and Recreation

The municipality has two (2) major public recreational facilities excluding play courts inside schools, institutions, and private compounds. The municipal plaza measures 2, 060 square meters and has been converted into a roofed multi-purpose center that functions alternately as an auditorium, social hall, or as covered basketball court. Another major public facility is located in Brgy. San Jose measuring 4.04 hectares. For cockfighting enthusiasts, the Montariza cockpit remains to be functional.

There are 15 public play courts for basketball and volleyball that also function as open venues for community gatherings and social affairs.

3.2.6.4 Relocation Housing Projects

Relocation of informal settlers from NCR to Montalban has been done in 'waves' starting in the 1990s. Between 2007 and 2010, National Housing Authority (NHA) had resettled 9,000 households, mostly from the riversides of Pasig River, from Sta. Ana Manila; 4,832 from various parts of Quezon City; 1,538 households from East Triangle and Botanical Area, Brgy Central, Quezon City. After that, there were 3,158 families relocated from North Triangle Quezon City. After the prolonged Habagat torrential rains on July 29-August 9, 2012, 8,968 more families were relocated to Southville, Brgy San Isidro.

The recurrent problem in national-government-initiated relocation has been the lack of prior coordination with the Municipal Government of Rodriguez and inadequate social and physical preparation of receiving barangays.

3.2.6.5 Day Care Centers

All barangays have daycare centers as mandated by Republic Act 6972, "An Act Establishing a Day Care Center in Every Barangay, Instituting Therein a Total Development and Protection of Children Program, Appropriating Funds Therefor, and For Other Purposes". These centers are supervised by the Municipal Social Welfare and Development Office.

3.2.6.6 Health Care and Facilities

The primary health care system has been established in Rodriguez. This includes one (1) 25-bed infirmary (Montalban infirmary), one (1) rural health unit office, and a health center for each of the eleven (11) barangays. In addition, there are private medical treatment centers, dental clinics, laboratories, as well as lying-in maternity centers. Pharmacies are present to serve people's medicinal needs (See Figure 4.4 Health Institutions Map).

The Casimiro Ynares Memorial Medical Center is a higher-level public health facility soon to open along F. Rodriguez St., Villa Ana Maria, Barangay San Jose. It seeks to improve and modernize the various public health services of the municipality.

The Rodriguez Rural Health Unit (RHU) headed by the MHO has two physicians who are assisted by two nurses, eleven midwives, 2 malaria officers, one sanitary inspector, and paramedics. Midwives supervise the barangay health stations which are generally staffed by barangay health workers (BHW) to whom 'trained hilots' report. Municipal dental services are limited, having only one official dentist based in the Municipal Health Unit office for the whole town. Supplementing government's health services are the following private facilities with highly trained and specialist personnel:

- HVIII Hospital, 20 hospital beds;
- Marcelo J. Pascua Hospital, 10 hospital beds;
- St. Mark Hospital; and
- San Jose Maternity and Lying-in Hospital.

Maternal and Child Care. In the 2012 municipal health report, 5,500 were administered with BCG; 17,269 with DPT (1, 2, 3); 17,764 with OPV; and 10,731 HB (1, 2, 3). It also successfully delivered a total of 3,697 live births; 1,849 of whom were males and 1,848 were females.

Leading Morbidity. In 2012, animal bite cases topped the Annual Morbidity Report. The other leading causes of morbidity are respiratory in nature. Cases of respiratory infection in the upper tract, lower tract, as well as influenza, add up to thousands per year. This trend might be related to dust pollution emanating from quarrying sites, water pollution in the Montalban River, as well as olfactory or odor pollution from illegal waste dumping practices. Following the cluster of respiratory diseases are gastro-intestinal disorders including diarrhea which may be traced to the safety and potability of water consumed by households.

Other diseases are also recorded like leprosy with 4 cases, 1 case of Schistosomiasis and 1,863 cases of TB Symptomatic who underwent DSSM.

3.3 Cultural Conditions

3.3.1 History of the area

'Montalban' is originally a name of a town in Toledo, Spain established in the 1490s. It is said to be a Spanish contraction of the words, "Monte Alba" or "white mountain." The name also alludes to Alban Hills ("Monte Albano") in Lazio, Italy where popes and Roman nobles built historic castles.

Montalban, Rizal' was established in 1871 during the Spanish rule by Padre Eustaquio, a native of Pasig. Montalban was carved out of the town of San Mateo to combine four barrios, namely, Balite, Burgos, Maran, and Calipahan. "Balite" served as first town center; it was called so after the 'balete' or strangler fig trees that grew abundantly on the banks of Montalban River. Later, a chapel or 'Pasong Vista' was erected on the present location where the Catholic Church and cemetery stand. The legend of Bernardo Carpio, explaining the topography of the place, was popular during this time. The legend of 'nag-uumpugang bato'

tells the story of a giant trapped between two mountains that he had to push apart, thus creating a gorge or canyon, where Montalban's famous river now flows through.

During the Philippine Revolution against the Spanish colonial regime, Montalban produced numerous patriots such as Licerio Geronimo, Simplicio Inocentes, Gregorio Cruz, Martin Cruz, Victoriano Bautista, Hilario Cruz, among others, who identified themselves with the revolutionary movement. The town's Catholic church served as some kind of fort. Revolutionaries established a hideout in the caves of 'Puray' which was visited at different times by Supremo Andres Bonifacio and General Emilio Aguinaldo until the camp was attacked by Spanish forces and reduced to ashes in 1897.

Filipino patriots sustained their fervour for national independence during the Philippine-American War of 1889-1901. Revolutionaries dealt a heavy blow to the Americans when "General Sergio" Licerio Geronimo killed US General Henry Lawton in battle along the river in Bagong Silangan. The Americans retaliated and eventually defeated the Filipinos. Thereafter, the town of Montalban was returned to the jurisdiction of the town of San Mateo in 1903. It took another leader, Don Eulogio Rodriguez Sr., to work towards reclaiming the status of Montalban as a separate municipality in 1909. Rodriguez Sr served as 'Presidente' of the town until 1916. During this time, the barangays of Burgos, San Jose, San Rafael, San Isidro, Geronimo, Balite and Manggahan became part of Montalban. When World War II raged in 1941-1945, the Japanese bombed the town in 1941 and occupied it in 1944. The Rodriguez Sr family was then among the most prominent of the town. Their members were arrested by Japanese soldiers and imprisoned in Fort Santiago. Some members offered the supreme sacrifice of their lives.

On July 26, 1982, by virtue of Batas Pambansa Blg. 275, Montalban was renamed Rodriguez in honor of Don Eulogio Rodriguez Sr., in grateful recognition of his pioneering efforts and example of public service.

3.3.2 Migration and ethnic groupings

The sharp increases or leaps in population size of the municipality, as reflected in Table 3.2 were recorded as a result of the national government's guided relocation of informal settlers from Metro Manila beginning in the 1990s. The migration of those who were relocated intensified between 1995 and 2000 mainly in Barangay San Jose. Such population movement still continues up to the present day.

Also, a second barangay, San Isidro, experienced a separate inflow of migrants between 2004 and 2007, which continues up to now. Thus, it helped change the character of Rodriguez from rural to urban.

In Barangay Macabud people are composed of different sub-groups such as Tagalog, Bisaya, Muslim and Dumagats (Indigenous Peoples). Most of the Dumagats live in Sitio Karahume while Muslims are in Sitio Jovil III and Laan. There are also immigrants from different places in Metro Manila.

3.3.3 Leadership patterns

Following the Philippine System of Governance, the Barangay is the basic political unit and the Barangay Council is the highest governing body within the host mining communities. It is headed by the Punong Barangay, with at least seven regular Sanggunian members, and appointive officers.

3.3.4 Social structures related to decision-making and conflict resolution

According to the Local Government Code of 1996, the Barangay is recognized as the primary planning and implementing unit of government policies, programs, projects, and activities. It is also acknowledged as a forum wherein the collective views of the people may be expressed, crystallized and considered, and where disputes may be amicably settled.

Disputes within the host communities is being settled in the Katarungang Pambarangay through the Lupong Tagapamayapa and Pangkat ng Tagapagkasundo.

3.3.5 Peace and Order

Rodriguez's peace and order are maintained by the Philippine National Police (PNP) with 112 uniformed men and staff stationed at the center of town. PNP has 11 sub-stations and outposts. The policeman-to-population ratio, using the 2010 population stands at 1: 2,508 and is below the ideal 1:1,000 ratio.

Hundreds of police deputies or barangay tanods are considered 'force multipliers' who complement the PNP in providing safety and protection to all residents. Civilian traffic enforcers and volunteers from the town's Public Safety & Order Office (PSOO) also assist and augment the police force.

The average monthly crime rate has increased slightly from 9.01 per month in 2008 to 10.10 per month in 2009. In 2009, Crime Solution Efficiency Rate is at 92% despite the lack of police officers.

The Bureau of Fire Protection (BFP) station of Rodriguez has 16 firemen and trained personnel and 2 fire trucks. The fireman—to—population ratio is 1:17,557, which is way below the ideal ratio of 1:2,000.

4.0 DISCUSSION OF THE RESULTS OF COMMUNITY ASSESSMENT

Poverty is being experienced within the host barangay because of the low income condition of the households. The Barangay has a total income of PhP 9,000,000, but generally 55% is allocated for personnel services, 20% for development projects, 5% for calamity funds, 10% for youth development, and the rest for other activities or projects.

Macabud is considered an agricultural community with land under the Comprehensive Zoning Ordinance of Rodriguez. The top five occupations are farmers (52.5%), laborer (12.89%), driver/conductor (7.83%), self-employed (5.86%), and vendor (3.83%). The rest, around 11%, are engaged in various employment/occupations. However, more than 1,500 of the total population are unemployed. Based on the data obtained, more than 80% of those with occupation have incomes below PhP5,000, 15% have incomes between PhP5,000-9,000, 4%

have incomes between PhP10,000-15,000 and only a few are earning more than P16,000 per month.

With regards to education there is one public elementary school, one public high school and one private school (Saint Joseph Christian Academy). There are daycare centers in Sitio Karahume, Sitio Licao-Licao, Sitio Harangan and Sitio Laan that caters to children below six years of age.

Barangay Macabud has a health center with 10 Barangay Health Workers, two nutritionists, and one midwife. Most of the common diseases reported are fever, cough, colds, tonsillitis, infected wound, tuberculosis, diarrhea, UTI, hypertension, infantile colic, otitis media, and influenza. The barangay is free from malaria and dengue diseases.

The 2-Year exploration program and ATN Aggregates Project is expected to operate with a projected mine life of fifteen (15) years. Without the project, the community will remain dependent on agro-forestry where most of the respondents in the perception survey result with gainful employment and livelihood have an income of below P5,000 per month. Current social services being provided by the LGUs and the private sector will continue in its existing slower phase because of limited resources.

The project will spur additional economic activities in Barangay Macabud and neighboring communities as a result of project operations. It will generate additional employment and livelihood and increase demand for agro-forestry outputs. With the implementation of the CDP and SDMP, the project will definitely enhance social services in the barangay. It will provide assistance and material support to day care, elementary and high school education. Similar support can be provided to improve infrastructures and health services in the form of additional medicine, equipment and medical and dental mission.

4.1 Community Issues/Problems/Concerns

Based on the secondary data gathered, consultation meeting, key informant interview and the result of ATN social impact assessment, the identified needs and problem of the host barangay are summarized in the Table below.

| Topic | Issues/Problem/Concerns | Proposed Solution |
|------------|--|---|
| Health | Unsatisfied with the barangay health center's | • Establish additional health center |
| | services Location of barangay health center is far from sitios Most of sick person's go to government owned hospital | Free medical consultation Provision of medicines |
| Livelihood | Lack of work opportunityNo financial capital | Livelihood training and programCapital loan |

Table 11. Community Issues/Problem/Concerns and Perceived Solution

| | Livestock pest/virus problemLack of educational attainment | Employment |
|----------------|---|--|
| Education | Lack of school facilities (location of elementary and high school is farm from sitios) Financial problem | Establish additional school near the remote sitios Free education Scholarship School assistance |
| Infrastructure | Bad road conditionInsufficient water supply | Road improvementElectricityImprove water system |

5.0 CDP DEVELOPMENT FRAMEWORK

5.1 Development Strategies

Based on the existing implementing rules and regulations stipulated in DAO 2010-21, the 2-Year CDP will be implemented mainly on the Program for the Development of Host and Neighboring Communities (DHNC). Prioritization of Program/Projects/Activities (P/P/As) for DHNC was based on the following:

Based on needs. The needs of the community will be assessed through consultation and using the data and information from the Development Plans of the Barangays, Annual School Improvement Programs, Infrastructure Development Needs and Community-Based Health Information System;

Impact. Consider high impact P/P/As that will spur further economic activities and will be of benefit to a more number of beneficiaries.

Cost Efficiency. This is the availability of the resources to implement the project based on the fund sources and community counterpart.

Viability and Sustainability. The readiness of the community to implement the P/P/As and their capacity to sustain the benefits derived from the CDP.

For the DHNC program, it is the goal of the 2-Year CDP to provide assistance to the host communities in achieving socio-economic development, consistent with the local development plans being implemented in their area.

5.1.1 Access to Education and Educational Support Programs *Goals*

To improve the standard of education in the host community.

Objective

To provide opportunities for students to have access to better education thus enhancing higher educational attainment and employment potentials.

Strategies/Activities

Provision of school supplies and/or improvement of school facility

Responsible Person/Group

CRO, CTWG, PTA, Macabud Elem. School, BLGU

5.1.2 Access to Health Services, Facilities, and Sanitation Support *Goals*

The enhance health services and safeguard the health and well-being of the residents in Barangay Macabud.

Objective

To improve the health condition of the residents and services of Barangay Health Center.

Strategies/Activities

ATN shall provide free medicines to Barangay Health Center on semi-annual basis and conduct medical mission on the second year of the exploration activity.

Responsible Person/Group

CRO, BHW, BLGU, DOH

5.1.3 Enterprise Development and Networking

Goals

For the farming community to become self-reliant and improve the yield their farm as additional source of income.

Objective

To provide opportunities for the farming communities to improve their farm and income.

Strategies/Activities

ATN shall facilitate livelihood seminar to farming organizations in coordination with BLGU, and Municipal Agriculture Office.

ATN shall provide free seedlings and fertilizers to selected beneficiaries in Barangay Macabud.

Responsible Person/Group

CRO, Farmer's organization, BLGU, MAO

5.1.4 Assistance to Infrastructure Development and Support Services *Goals*

To ensure sufficient domestic water supply of Sitio Laan residents.

Objective

To help improve the supply of drinking and domestic water of Sitio Laan residents.

Strategies/Activities

ATN shall conduct an on-site assessment of existing water system to identify the amount of work to be done and materials to be provided.

Responsible Person/Group

CRO, Sitio Leader, BLGU

5.2 Program/Project/Activity Implementation

5.2.1 Fund Source

Per DAO 2010-21, the "Revised Implementing Rules and Regulations of the Philippine Mining Act of 1995", a minimum of 10% of the Exploration Work Program budget shall be allotted for the CDP. Based on the submitted Exploration Work Program, a total of **PhP 4,100,000.00** is allotted for the implementation of the exploration activities, thus, **PhP 410,000.00** shall be allotted for the implementation of the CDP. The regulation also stipulates that the CDP shall be developed within the area subject of active exploration activities for a period of two years.

5.2.2 Setting up systems, policies, and procedures

The approval of MGB Regional Office No. IV-A of the CDP will be the indicator to start the implementation of the planned Programs/Projects/Activities (P/P/A).

For the Program in the Development of Host and Neighboring Communities (DHNC), the CTWG will finalize the schedule of implementation of the P/P/As and prioritization will be based on the needs of the host communities.

The main features of the existing procedures in the processing community development projects of the DHNC P/P/As will be adopted, as stipulated below:

- Project proposals and program of works will be evaluated during the CTWG regular meeting or special meeting;
- Needed materials, supplies, and equipment for the P/P/As will procured by ATN and will be awarded to the intended beneficiaries;
- The host communities/beneficiaries will impart time, knowledge, skills, talent and/or community resources as counterpart responsibility in accomplishing the P/P/As;
- A certificate of turn-over or project acceptance will be issued between ATN and the beneficiaries, attested by the concerned Barangay Council; and
- Budget realignment will require justifications and proof of consultation from the concerned communities/beneficiaries.

5.2.2.1 SDMP Administration

The Community Relations Office

The Community Relations Office (CRO) which will be established at the plant site is responsible for building and maintaining the harmonious relationship between the company

and the host communities. It is the duty of the CRO to ensure the successful implementation of the SDMP, to organize and mobilize the communities for the realization of the goals and objectives.

Another important task of the CRO is to solicit and manage the concerns of the communities with regards to the safety and health, environment, and social aspects of the operation. Also, the CRO will be partly responsible in environmental scanning, planning, project consultations, management implementation, monitoring and evaluation. He is also assigned to prepare and submit all the CDP reportorial requirements to Mines and Geosciences Bureau (MGB). The Office is composed of one (1) Community Relations Officer, Engr. Elmer Delmiguez and one (1) Community Relations Assistant. The Community Relations Officer will report directly to the Resident Manager.

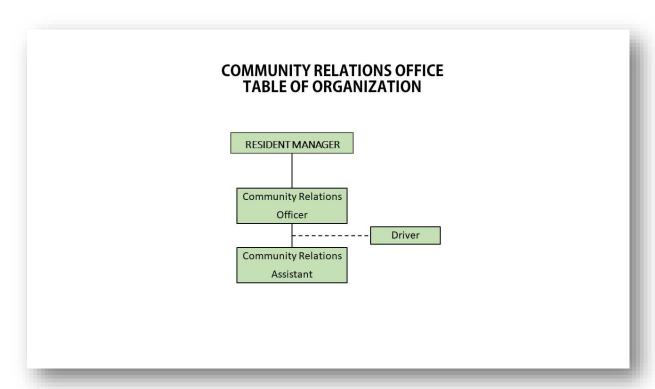


Figure 9. Community Relations Office Table of Organization

5.2.2.2 Formation of CDP Community Technical Working Group

The Community Technical Working Group (CTWG) is to be composed of representatives on primary impact Barangay LGU, Academe, Local Organizations, Community Health Unit, the Community Relations Officer and the Administrative Officer of ATN Holdings Inc.

To ensure the effective implementation of the CDP, the CTWG shall:

- Assist the Community Relations Office in the implementation of CDP.
- Formulate guidelines on the submission and approval of projects for funding and implementation.
- Recommend/Endorse projects of the Barangays for funding and implementation.

 Actively participate in the monitoring and evaluation of projects funded and implemented.

5.2.3 Monitoring of Program/ Project/Activity

In all the activities that shall be undertaken, the company together with the CTWG shall encourage the involvement of the Community and the MLGUs during the CDP implementation stage and regular monitoring.

The monitoring of the DHNC P/P/As will be conducted by the Community Relations Officer of ATN together with the concerned CTWG member for specific P/P/A. Monthly internal monitoring reports will be prepared that will present physical and financial accomplishments, as well as issues and concerns experienced in implementing the P/P/As. The company will submit annual accomplishment reports to the MGB RO No. IV-A and a copy of the submitted reports will be forwarded to the MGB-Central Office (MGB-CO).

5.2.4 Evaluation of Program/Project/Activity

The evaluation of the P/P/As will be based on the success indicators stipulated in the P/P/As and results of the mid-year and year-end assessment of P/P/As implementation. The results of the evaluation will be discussed in the annual accomplishments reports.

The CDP CTWG shall participate in the evaluation of the implemented projects based on the impact and yearly statistics of the barangay's socio-economic status, problems encountered and how it was addressed.

6.0 MATRIX PRESENTATION OF PROGRAMS/PROJECTS/ACTIVITIES

Table 12. Programs/Projects/Activities, Timeframe and Budge Allocation

| | | | | Constitution | | | | | Sche | dule | | | | | 2 V |
|----|-------------------------------|--|---|--|------------------------|------------------------|------------------------|------------------------|-----------------|------------------------|------------------------|------------------------|------------------------|-----------------|-----------------|
| | D/D/A | Location | Stakeholders | Specific | | | 1st Y | 'ear | | | | 2 nd Y | 'ear | | 2-Year |
| | P/P/A | Location | Involved | Activity/Key Results | 1 st Qtr | 2 nd Qtr | 3 rd Qtr | 4 th Qtr | Budget (PhP) | 1 st Qtr | 2 nd Qtr | 3 rd Qtr | 4 th Qtr | Budget (PhP) | Budget (PhP) |
| DE | VELOPMENT OF | HOST AND NE | IGHBORING CON | MMUNITIES (DHNC) | | | | | | | | | | | |
| Ac | cess to Educatio | n and Educatio | nal Support Pro | gram | | | | | | | | | | | |
| a. | Adopt-a- School Program | Brgy. Macabud Elementary School | Macabud Elem. School, Bgy, Council, Parents & | Provision of school supplies and/or improvement of school facility | | | | | 40,000 | | | | | 40,000 | 80,000.00 |
| Ac | cess to Health S | ervices, Facilition | students es, and Sanitatio | n Support | | | | | | | | | | | |
| a. | Provision of medicines | Barangay Macabud Health Center | CRO, Brgy. Council, BHW, MHO, and residents | Semi-annual provision of medicines or medical equipment | | | | | 40,000 | | | | | 40,000 | 80,000.00 |
| b. | Medical Mission | Barangay Macabud | CRO, Brgy. Council, BHW, MHO, and residents | Conduct of free medical check-up and provision of medicines | | | | | | | | | | 100,000 | 100,000.00 |
| En | terprise Develor | oment and Net | working | | | | | | | | | | | | |
| a. | Livelihood Seminar | Barangay Macabud | CRO, BLGU MAO, Farmers | Conduct of seminar with the farming organizations | | | | | 20,000 | | | | | | 20,000 |

| b. | Provision of fertilizers and seedlings | Barangay Macabud | CRO, BLGU MAO, Farmers | Provision of seedlings and fertilizers to farmers | | 35,000 | | | 35,000 | 70,000.00 |
|-----|--|---------------------|------------------------------|---|--|---------|--|---|---------|------------|
| Ass | sistance to Infra | structure Devel | opment and Sup | port Services | | | | , | | |
| a. | Improvement | Sitio Laan, | CRO, Brgy. | Assessment of the | | 60,000 | | | | 60,000.00 |
| | of the water | Brgy. | Council, Sitio | water system and | | | | | | |
| | system | Macabud | leader, | provision of | | | | | | |
| | ** | | Residents | materials | | | | | | |
| | | | | Total | | 195,000 | | | 215,000 | 410,000.00 |

Mr. Paul B. Saria COO, ATN Holdings Inc.

7.0 BIBLIOGRAPHY

ATN Exploration Work Program

Local Climate Change Action Plan by: Mayor Cecilio C. Hernandez Presented by: Vice Mayor Jonas J. Cruz

Comprehensive Development Plan 2016-2021, Municipality of Rodriguez, Province of Rizal. 2016

Social Investigation (SI) and Participatory Rural Rapid Appraisal (PRA) Report, ATN Solar Project, Barangay Macabud, Rodriguez, Rizal

Municipality of Rodriguez Comprehensive Land Use Plan. 2012-2022

https://www.philstar.com/metro/2012/07/13/827117/wawa-dam-pushed-alternative-water-source

https://en.m.wikipedia.org/wiki/Wawa Dam

Aftermath of Tropical Storm Ondoy (Ketsana), September 24-30, 2009

https://psa.gov.ph/classification/psgc/?q=psgc/barangays/045808000

Annual Progress Report, Municipality of Rodriguez, FY 2018

Situational Analysis Report, Municipality of Rodriguez

ATN Holdings Inc. Social Impact Assessment (SIA), December 2019

8.0 ANNEXES

8.1 Copy of the Approved Exploration Work Program

Republic of the Philippines
Department of Environment and Natural Resources
MINES AND GEOSCIENCES BUREAU
Regional Office No. IVA (CALABARZON)
8/F, 1515 DENR by the Bay Bldg., Roxas Blvd., Ermita, Manila

EXPLORATION PERMIT

Date

Exploration Permit No.

EP-IVA- 019

Permittee

ATN Holdings, Inc.

Address

9th Floor Summit One Tower

530 Shaw Boulevard, Mandaluyong City

This Exploration Permit covering an area of Eighty-Two and 70.92/100 (82.7092) hectares situated in Brgy. Macabud, Rodriguez, Rizal which metes and bounds are more particularly described as follows:

| 72 | | LATITUDE | E | | LONGITUI |)E |
|--------|------|----------|-------|------|----------|-------|
| CORNER | Deg. | Min. | Sec. | Deg. | Min. | Sec. |
| 1 | 14 | 47 | 0.00 | 121 | 8 | 0.00 |
| 2 | 14 | 47 | 30.00 | 121 | 8 | 0.00 |
| 3 | 14 | 47 | 30.00 | 121 | 8 | 30.00 |
| 4 | 14 | 47 | 0.00 | 121 | 8 | 30.00 |

The pertinent application for which was filed in the Mines and Geosciences Burau (Bureau) Regional Office No. IVA (CALABARZON) on August 13, 2018, is hereby granted to ATN Holdings, Inc. in accordance with Republic Act No. 7942, otherwise known as "The Philippine Mining Act of 1995," and its Implementing Rules and Regulations: Provided, that areas with conflict, within ancestral lands/domains without the free and prior informed consent by the Indigenous Peoples concerned, within adequately stocked forests/proclaimed watershed forest reserves/critical watersheds, classified under the National Integrated Protected Areas System are excluded therefrom, and subject to the following Terms and Conditions:

- The right to explore shall be subject to valid, prior and existing rights of any party(ies) within the area;
- This Permit shall be for the exclusive use and benefit of the Permittee and shall, under no circumstances, be used for purposes other that mineral exploration: Provided, that the exercise of the rights thereunder by another entity/party shall be subject to the prior approval of the Bureau Director;
- 3. The term of the Permit shall be for a period of two (2) years from date of issuance thereof, renewable for like periods but not to exceed a total term of four (4) years for non-metallic mineral exploration or six (6) years for metallic mineral exploration: Provided, that the application for renewal of the Permit shall be filed prior to its expiration, otherwise, any renewal application filed after such expiration shall not be accepted: Provided further, that no renewal of the Permit shall be allowed unless the Permittee has complied with the terms and conditions thereof and has not have been found guilty of violations of any provision of the Mining Act and its Implementing Rules and Regulations: Provided, furthermore, that in case of failure to file declaration of mining project feasibility during the total term of four (4) years of this Permit for non-metallic minerals or six (6) years of the same Permit for metallic minerals, the Permittee may apply for further renewal of the Permit prior to the expiration of the same Permit, which may be granted by the Secretary for another



1

term of two (2) years for the very purpose of preparing or completing the feasibility studies, and filing of the declaration of mining project feasibility and the pertinent Mineral Agreement or Financial or Technical Assistance Agreement (FTAA) application. The complete and final exploration report shall be required in this renewal of the Permit: *Provided, finally,* That in case the Permit expires prior to the approval of the declaration of mining project feasibility or filing of the Mineral Agreement or FTAA application (after the approval of the said declaration), the said Permit shall be deemed automatically extended until such time that the Mineral Agreement of FTAA application is approved;

- 4. The Permittee shall submit to the Regional Office concerned, copy furnished the Bureau Central Office, within thirty (30) calendar days after the end of each semester a report under oath of the Exploration Work Program's (ExWP's) implementation and expenditures showing discrepancies/deviations, including the results of the survey, laboratory reports, geological reports/maps, subject to semi-annual inspection and verification by the Bureau Central Office/Regional Office concerned at the expense of the Permittee; Provided, that any expenditure in excess of the yearly budget of the approved ExWP program may be carried forward and credited to the succeeding years covering the duration of the Permit;
- The Permittee shall submit to the Regional Office concerned, copy furnished the Bureau Central Office, a status report on the compliance with the Environmental Work Program (EWP) within thirty (30) calendar days every end of six (6) months from the issuance of this Permit;
- 6. The Permittee shall annually relinquish at least 20% of the permit area during the first two years of exploration and at least 10% of the remaining Permit Area annually during the renewed Exploration Period. However, if the Permit Area is less than five thousand (5,000) hectares, the Permittee need not relinquish any part thereof. In case of relinquishment, a separate geologic report shall be submitted to the Regional Office concerned, copy furnished the Bureau Central Office, with a detailed geologic report of the relinquished area accompanied by maps at a scale of 1:50,000 and results of analyses and corresponding expenditures, among others. The minimum exploration expenditures for the remaining area after relinquishment shall be based on the approved ExWP;
- 7. The Permittee shall submit to the Regional Office concerned, copy furnished the Bureau Central Office, a final report upon the expiration or relinquishment of the Permit or its conversion into Mineral Agreement or FTAA in a form and substance comparable to published reports of respected international organizations and shall incorporate all the findings in the Permit Area, including locations of samples, assays, chemical analyses and assessment of the mineral potential. Such report shall include complete detailed expenditures incurred in the conduct of exploration activities;
- In case of diamond drilling, the Permittee shall, upon request of the Bureau Director/Regional Director concerned, submit to the Bureau Central Office/Regional Office concerned a quarter of the core samples which shall be deposited in the Bureau Central Office/Regional Office Core Library concerned for safekeeping and reference;
- The exploration activities shall be carried out in a manner that will, at all, times, safeguard the environment;
- If the Permittee applies for a Mineral Agreement or FTAA over the Permit Area, the Exploration Period under the Exploration Permit shall be considered as the Exploration Period of the Mineral Agreement or FTAA that may be issued;



- The Permittee shall allow the Department Secretary and Bureau Director/Regional Director concerned or their duly authorized representative/s to annually monitor and/or audit its performance, and shall not deny access to the Permit Area for said purposes;
- This Permit may be suspended by the Bureau Director in cases of force majeure as defined in the Act;
- The Regional Director concerned may, at any time, cancel this Permit for violation
 of the provision of the Mining Act and its Implementing Rules and Regulations or
 the terms and conditions of this Permit;
- The Permittee shall strictly secure a written consent from any surface owners, occupant/s and/or concessionaire/s within the Permit Area prior to entry or conduct of any form of exploration activities therein;
- The Permittee shall furnish a copy of the approved EWP to the Sangguniang Punlalawigan concerned;
- The Permittee shall annually submit a copy of its Securities and Exchange Commission-received General Information Sheet;
- The Permittee shall formally inform the Bureau of any change of its office address.
 Failure to do so shall be construed that all communications sent to its present office address are duly served;
- The Permittee shall submit to the Regional Office concerned, copy furnished the Bureau Central Office, the proof of consultation with the Sanggunian concerned in the form of Resolution or Certification prior to the implementation of the approved ExWP, pursuant to the pertinent provisions of Section 23 of the Department Administrative Order (DAO) No. 2010-21;
- The Permittee shall submit a Community Development Program within six (6) months from the registration of the Exploration Permit, pursuant to the pertinent provision of Section 2 of DAO No. 2010-13;
- The Permittee may surrender this Permit or exercise the priority right to apply for a
 Mineral Agreement or FTAA over the Permit Area, which application shall be
 granted if the Permittee meets the necessary qualifications and the terms and
 conditions of any such agreement;
- This Permit excludes commercial extraction and/or construction of infrastructures designed for mining development or mining production;
- 22. This Permit does not grant beneficial ownership of the minerals to the Permittee;
- The Permittee shall assume all the exploration risks and shall not be entitled to reimbursement of its expenses;
- 24. The Permittee shall comply with the minimum ground expenditures during the term of the Permit, as follows:

| Year | Pesos/Hectar |
|------|--------------|
| 1 | 100 |
| 2 | 100 |

In case the minimum ground expenditure for the first year is not met for justifiable reasons as determined by the Regional Office concerned, the unexpended amount may be spent on the following year of this Permit. However,



if the minimum ground expenditures for the entire term of this Permit are not met, the unexpected amount shall be paid by the Permittee and shall accrue to the Bureau to be used for mining operations in Mineral Reservations or to other purposes as may be determined by the Bureau. The failure of the Permittee to pay the said amount within the prescribed period shall be ground for the denial of any of its mining application(s) filed in the Bureau/Regional Offices concerned;

- 25. The Permittee shall submit to the Regional Office concerned, copy furnished the Bureau Central Office, within 30 days from receipt of this Permit the following documents:
 - Revised EWP, taking into account the February 12, 2019 comments of the Mines, Safety, Environment and Social Development Division of the Bureau Central Office.
 - ii. Original or issuing office-certified true copy of the Transfer Certificate of Title with tabulated geographic coordinates showing that the entire permit area is privately owned, in lieu of (a) the written consent of the Department of Public Works and Highways and/or Local Government Unit concerned considering that the applied area encroached some roads and (b) the National Commission on Indigenous Peoples Certification.
 - Certification attesting to the completion of posting of the pertinent Notice of Application for one week from the Municipal Government of Rodriguez, Rizal.

26. This Permit shall be subject to review by the Department Secretary.

SAMUEL T. PARAGAS Regional Director

Regional Director

I hereby accept the terms and conditions of this permit as above stated.

ATN HOLDINGS, INC.

Permittee

TIN:

Signed in the presence of:

DOND CO. SARMIENTO

DIC, Mine every, Environment and Social Development Division

(Signature over Printed Name)

PAUL & SARK

(Signature over Printed Name)

| | ACKNOWLEDGEMEN' | Г | |
|---|--------------------------|---|--------------------------|
| Republic of the Philippines Province of City/Municipality of |) s.s. | | |
| SUBSCRIBED AND Swith Passport No. Ar2076474 | SWORN to before me, | SAMUEL T. | PARAGAS Mamila in his |
| capacity as Regional Director o IVA (CALABARZON) and _ issued on | f the Mines and Geoscien | ces Bureau F | |
| President of ATN Holdings, Inc who executed the foregoing acknowledgement page, and ack deeds. | instrument consisting of | six (6) pag | ges, including this |
| IN WITNESS WHERE Seal, this day of | 2019 | ny hand and | affixed my Notaria |
| | ATTY. | HENRY B | /ADASA |
| | | COMMISSION / | /10 FASIG |
| 100 | MCLE COMPLIA | L SSZEGET - 91/0 LUICE NO. VI-DOB ROLL NO. 2967 | 2830 - 4/14/2022 |

8.2 Photo Documentation

8.2.1 CDP Consultation Meeting, April 12, 2019



Figure 10. ATN representative Mr. Deode Solee discussing the Exploration Activities and CDP.



Figure 11. Barangay Council of Macabud



Figure 12. Engr. Elmer Delmiguez answering questions raised by the council



Figure 13. ATN Socio consultation explaining the importance of CDP in partnership with the host community

8.2.2 Gathering of Secondary Data and Interview



Figure 14. Rodriguez Municipal Planning and Development Office



Figure 15. Legislative Office, Rodriguez Rizal



Figure 16. Office of the Vice Mayor of Rodriguez, Rizal



Figure 17. Office of the Municipal Disaster Risk Reduction Management

Table 13. Summary of Issues and Concerns During the Consultation and IEC

| Location | Issues Raised | Concerns/Recommendation |
|--|---|--|
| Barangay Macabud Date: April 12, 2019 | Conduct of public consultation | There should be proper consultation with the residents. The barangay council is being blamed by their constituents about the on-going ATN quarry project |
| | Land ownership issue (ATN claim VS Actual | Since ATN is already operating, the farmers agreed to accept the companies' offer to relinquish their farm lots where their house is also erected rather than receiving nothing. Accordingly, the received an amount of PhP 35,000.00 How can they resist to sign the |
| | users) | agreement when their house is already been demolished? In the agreement, it includes the relocation of the affected farmers. |
| | | Until now, no relocation site has been established. |
| | | ATN lot claim was acquired from Garcia family |
| | | There was a petition before to convert Garcias claim into CARP but Garcia sold it to ATN |
| | Conversion of ATN lot claim to the Comprehensive Agrarian Reform Program (CARP) | Before a boundary survey was conducted but only for ATN property and no boundary survey was carriedout for individual lots inside the claim for CARP conversion. The case is still unsolved |
| | | Where is the Deed of Sale as proof that ATN acquired the property from Garcia? |
| | | Where is the relocation site they have promised to the farmers? |

| | Road Check Point | According to ATN representative, check point was established at quarry road due to thievery issue |
|--|------------------------|--|
| | Road Safety | ATN established a diversion road to avoid residents to enter at the crushing plant for safety reason Put barbed wire at the perimeter to avoid outsiders to enter |
| | | Why there's no water truck? |
| | | Dust is visible even at night during full moon |
| | Dust Pollution | Conduct of regular monitoring - e.g. air and water quality monitoring regular and water |
| | | Establish settling ponds |
| | | They are confused with the exploration permit because they have an existing operation. |
| | Project Awareness | Permata explained that they are not familiar with the permit of the existing operation but only on the exploration permit that will eventually be converted into MPSA once the result of the exploration study is positive |
| | | In 2018, they put a human barricade not to allow ATN's equipment to enter in the area |
| | On-Going Legal Case | The barangay council was accused by ATN as members of Anak Pawis and Kadamay. They used this as a motive to request the presence of the military in the area. |
| | | ATN filed a case against the barangay council and until now it is still unsolved |
| | Safety of the cemetery | The cemetery is located just above the existing quarry of ATN operation |
| | and the same series | What are the companies plan to avoid landslide/rockslide? |

| | • | From the very beginning, ATN has a |
|-------------------------------------|---|--|
| | | wrong approach in dealing with the barangay. They only bring documents to barangay to notify and received but |
| Absence of the IEC | | no formal IEC or consultation with the people have been conducted. How can we understand their project? |
| program | • | They have promised before that they |
| | | are going to conduct a meeting in the |
| | | barangay together with the concerned government agencies and non- |
| | | government entities but it did not happen. |
| Community Development Program (CDP) | • | The council was advised to conduct a planning workshop with the presence of sectoral representatives to identify |
| , | | barangay priority projects |

8.5 Minutes of the SDMP/CDP Consultation Meeting (including photos), November 23, 2019

MINUTES OF THE SDMP/CDP CONSULTATION MEETING

November 23, 2019
Session Hall, Barangay Macabud, Rodriguez Rizal

Honorable Councilor Renie T. Nedusa headed the attendees of the meeting. He welcomes the ATN representatives and expresses apologies because the other council members were not present due to prior scheduled activities. He also clarify to the group that they will not sign the attendance sheet because most of the council members are not present due to other commitments. ATN respected their decision.

ATN socio consultant introduced himself and ATN Holdings Inc. representatives. He explained that the meeting was allowed by Hon. Barangay Captain Judith Gandia through a request letter and personal communication with her. He imparted to the group that the objective of the gathering is to consult the barangay council, sectoral and local organization's representative about ATN's CDP and SDMP and the proposed planning workshop.

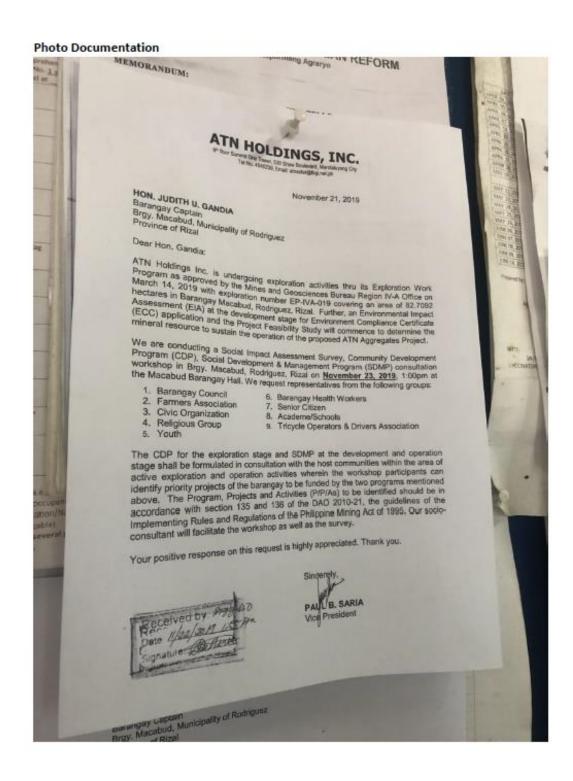
A PowerPoint presentation about the SDMP and CDP was presented by ATN representative to provide knowledge to the attendees about DAO 2010-21 and the company's implementation scheme as mandated by law.

Objective of SDMP

- DAO 2010-21 Section 135-136 (implementing rules and regulation of SDMP)
- SDMP and CDP Budget Allocation
- SDMP Components
 - Development of Host and Neighboring Communities (DHNC)
 - Promotion of Public Awareness on Mining Technology and Geosciences (PPAMTG)/Information, Education, and Communication (IEC)
 - Development of Mining Technology and Geosciences (DMTG)
- SDMP Credited activities for Social Expenditures
 - o DHNC (Health, Education, Livelihood, Infrastructures, and Socio-Cultural)
 - o PPAMTG/IEC
 - DMTG

After the presentation, the presenter reminded them that part of the consultations is to conduct a planning workshop. However, councilor Nedusa decides not to proceed with it because the other barangay official was not around. ATN shared that the company has an ongoing random Social Development perception survey that was allowed by Honorable Barangay Captain Gandia. Since the workshop will no longer be conducted, it was clarified that the result of the survey is already enough as a basis for the formulation of the 5-Year SDMP and CDP. Furthermore, it was shared that once MGB has approved the 5-Year SDMP, an Annual SDMP has to be prepared by ATN in consultation with the community where they can prioritize development projects that can be funded by the SDMP and CDP.

Councilor Nedusa and the rest of the attendees expressed interest in the SDMP and accepted the perception survey form to answer. They will share the result of the discussion with the other community members, such as; farmers, neighbors, relatives, and friends. Kagawad Nedusa commits that he will discuss the SDMP consultation excerpts in their next barangay council session.







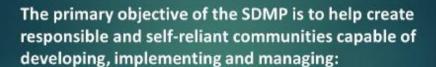
Copy of PowerPoint Presentation

ATN HOLDINGS INC.

SOCIAL DEVELOPMENT AND MANAGEMENT PROGRAM (SDMP), and COMMUNITY DEVELOPMENT PROGRAM (CDP)

CONSULTATIVE PLANNING WORKSHOP November 23, 2019

SOCIAL DEVELOPMENT MANAGEMENT PROGRAM



- -community development programs,
- projects and activities in a manner consistent with the principles of sustainable development.

DAO 2010-21 Section 135-136

 As prescribed by law, mining companies are required to allot 1.5% of their operating cost to assist government, particularly the LGUs in the development of the host and neighboring communities to promote the general welfare of the inhabitants living therein.

DAO 2010-21, Sec. 134

Operating cost-

specific costs of producing a saleable product on a commercial scale incurred in the calculation of the net income before tax. This includes all costs and expenditures related to mining/extraction and treatment/processing (inclusive of depreciation, depletion and amortization), exploration activities during operation stage, power, maintenance, administration, excise tax, royalties, transport and marketing, and annual progressive/environmental management.

- ▶ In the case of an operating mine, the permit holder is required to submit to the MGB Regional Office a sworn statement of its previous year's operating costs within 60 days after the end of each calendar year as basis for the SDMP.
- In the case of new mining operations, the basis for the initial SDMP implementation shall be the operating costs estimates contained in the approved Mining Project Feasibility Study.

BUDGET ALLOCATION

SDMP = 1.5% OF COMPANIES OPERATING COST

CDP = 10% OF EXPLORATION COST

| SDMP COMPONENTS BUDGET ALL | OCATION | |
|---|--|---|
| SDMP/CDP COMPONENTS | ALLOCATION OUT OF TOTAL SDMP COST (1.5% of Operating Cost) | ALLOCATION OUT OF TOTAL SDMP COST (10% of Exploration Cost) |
| Development of Host and Neighboring Community (DHNC) | 75% of 1.5% | 75% of 10% |
| Information, Education and Communication (IEC) Program | 15% of 1.5% | 15% of 10% |
| Development of Mining Technology and Geosciences (DMTG) | 10% of 1.5% | 10% of 10% |

SDMP Credited activities for Social Expenditures

Credited activities for the Development of Host and Neighboring Communities (DHNC)

- 1. Human resource development and institutional building;
- 2. Enterprise development and networking;
- 3. Assistance to infrastructure development and support services;
- 4. Access to education and educational support programs.
- 5. Access to health services, facilities and health professionals; and
- 6. Protection and respect of socio-cultural values

SDMP- Credited activities for the Development of Mining Technology and Geosciences



- Basic and applied research on mining technology, geosciences, and advanced studies related to mining, to be conducted by qualified researchers
- Expenditures for scholars, fellows and trainees, including grants for dissertations, on mining technology and geoscience and related subjects;
- 3. Expenditures on equipment and capital outlay as assistance for research and educational institutions.

SDMP- Credited activities for Information Education and Communication (IEC)



- Establishment, enhancement, and maintenance of information and publicity centers where stakeholders can access information on the performance of a mining project;
- Publication of IEC materials on social, environmental, and other issues relative to mineral resources development and responsible mining operations;
- Expenditures for continuing public awareness and education campaigns;
- Expenditures on equipment and capital outlay as assistance to the institutionalizing public awareness and education on mining technology and geosciences.



Prepared by:

Diosdado R. Parreno Jr.

Table 14. KII Summary of Issues and Concerns

| Location | Issues Raised | Concerns/Recommendation | | | | |
|------------------|------------------------|--|--|--|--|--|
| Barangay | | It will cause flooding in Rodriguez town | | | | |
| Macabud | Harmful to the | proper | | | | |
| Date: April 11 & | environment | | | | | |
| 14, 2019 | environment | The in-depth study should be done and | | | | |
| | | mitigating measures have to be put in place | | | | |
| | Awareness on the | Majority of the residents in the barangay | | | | |
| | proposed project | are unaware of the proposed 82 hectares | | | | |
| | ргорозей ргојесс | aggregates project. | | | | |
| | Established Electrical | Need clarification if the electrical post | | | | |
| | Post in the Barangay | erected at the barangay is under the ATN | | | | |
| | 1 ost in the Barangay | solar project | | | | |
| | | Location of the cemetery is very close to | | | | |
| | Possible landslide | the on-going quarry operation of ATN. If | | | | |
| | | the operation will expand it will imperil the | | | | |
| | | cemetery from landslide | | | | |
| | Blasting | When they do blasting it is like a tremor felt | | | | |
| | | at the barangay | | | | |
| | | ATN have to put mitigating measured on | | | | |
| | Dust Pollution | dust caused by transportation of | | | | |
| | | aggregates and crushing plant | | | | |
| | Destate and the | Most of the residents are resistant to | | | | |
| | Resistance to the | accept the project because it will affect the | | | | |
| | project | agricultural land. Farming is one of the | | | | |
| | | main sources of living in the area. Residents of Barangay Macabud should be | | | | |
| | Employment | prioritized in hiring employees | | | | |
| | | There is an on-going issue regarding the | | | | |
| | | ATN claim (titled land) vs the actual user of | | | | |
| | | the land | | | | |
| | Land Rights | the land | | | | |
| | | The land has no title but occupants are | | | | |
| | | cultivating the area a long time ago | | | | |
| | | ATN only meet with the barangay council. | | | | |
| | | Residents are unaware of the details of the | | | | |
| | No proper consultation | project. | | | | |
| | with the residents | , | | | | |
| | | ATN have to implement an IEC program | | | | |
| | | The problem with the people in the area is | | | | |
| | Danila a ve veloli C | that they are listening/believed from the | | | | |
| | People are misinformed | wrong information disseminated to them | | | | |
| | | by individuals that includes some members | | | | |

| | of the barangay council. This issue can be |
|----------------------------------|---|
| | clarified during the public scoping. |
| Resistance to the | Most people residing in Brgy. Macabud |
| project | proper are against the project |
| Project accontance in | In Sitio Laan, where the on-going ATN |
| Project acceptance in Sitio Laan | operation is situated, the residents are in |
| SILIO Ladii | favor of the project |

8.7 Attendance of the Consultation Meeting

| | | INFORM | MATION, EDUCATION | AGGREGATI DN, AND COI bud, Montal April 11-12, | MMUNICATION (IEC lban, Province of Riz | C) CAMPAIGN ral | | |
|----------------------|---------|--------|-------------------|---|---|--------------------|-------------|--|
| NAME | AGE | GENDER | ORGANIZATION | N/OFFICE/ | POSITION | ADDRESS | CONTACT NO. | SIGNATUR |
| JUDITH U. GANDIA | 44 | P | Втуру. Маса | | Pring Brygy. | | | minande |
| VIRGINIA S. LASTIMA | 03 60 | F | 0) | | kagawad | | | Blast J. J. |
| JAIM S. PASCUAR | | | | | J., | | | JA . |
| REDIE T. NEGOSA SR. | | m. | pry. m | caby | | | | Anders |
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| GUILLERMO C BOUTHETS | 1 | | | | 7 | | | Nation of the last |
| NEEDE G. VILLERA | - | | | | n | | | Mych |
| DOMNADOR O. SADYAS, | - | | | | " | | | Dega O |
| JOSEPH C CATAGOR | 22 | M | Gangguniang Ka | bataan | S.k chairman | | | 1 Special |
| WESIREE NEOUS TICATS | 2 | | | | Dray. Sec. | | | a alug |
| WILLIAM D. COLLEGE | - | | | | Dryn. Tres | | | June 9 |
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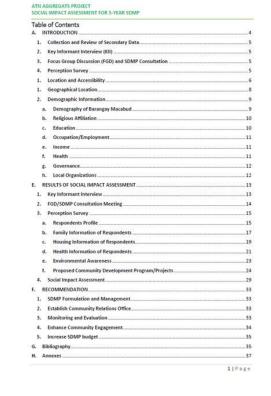
8.8 Copy of ATN Social Impact Assessment

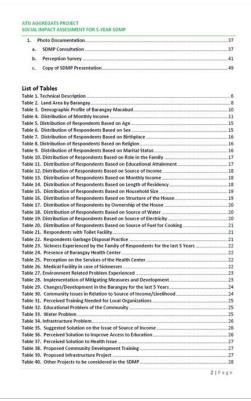


SOCIAL IMPACT ASSESSMENT

FOR ATN AGGREGATES PROJECT 5-YEAR SDMP 1ST CYCLE







ATN AGGREGATS PROJECT
SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

Table 41. SIA Matrix 29

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Figure 2. Vicinity Map 77
Figure 3. Location Map of Rodriguez. Rizal 9

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ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

A. INTRODUCTION

A. INTRODUCTION

Social Impact Assessment (SIA) is an applied social science research aimed at identifying and analyzing intended and unintended social consequences, both positive and negative, of planned interventions and social change processes such as policies, programs, and projects. It can be considered as "all social and cultural consequences to human populations of any public or private actions that after the ways in which people live, work, play, relate to one another, organize to meet their needs, and generally cope as members of the society".

For ATN Aggregates Project, SIA is important particularly in the identification of immediate or priority Programs/Projects/Activities in the first cycle of the company's S-year Social Development and Management Program (SDMP) plan. SIA plays a significant role at the start of the program development and management cycle. When conducted at the early stage of plan formulation, it provides a prospective analysis of the positive and negative impacts of programs and projects thus, providing implementers the options for monitoring and managing these consequences.

The overall objective is to secure social licenses, assess the current socio-economic conditions of the area and identify appropriate community development project in Barangay Macabud.

Moreover, the conduct of SIA significantly figures in the formulation and implementation of Moreover, the conduct of \$1A significantly figures in the formulation and implementation of SOMP in the Philippines to comply with policy standard as exposured in the Philippine Mining Act of 1995 (BA 7942), accompanying rules and regulations, and administrative orders issued by the Department of Ferrironment and Natural Resources (DENI), and to generate evidences to inform strategic management decisions on where to invest resources for the development of host and neighboring communities based on relevance, appropriateness, effectiveness, efficiency, and sustainability. Specifically, the activity aims to:

a. Inform the community of the proposed project; its impact and benefits to the environment and to the people, and simultaneously gather their opinions and suggestions;

b. Conduct of key informant interview, focus group discussion and SDMP perception survey to facilitate analysis of information, in the practice of critical self-awareness, in sharing of knowledge and in making decisions on the developmental direction for the concerned community and in determining a sustainable utilization of the resources in the community;

c. Analyze possible impacts of the 5-year SDMP (2020-2024) on institutions, groups, and individuals of Barangays Macabud; and

 $\label{eq:decomposition} \mbox{d. Develop Monitoring \& Evaluation system of the Community Relations Department of ATN particularly for SDMP.}$

B. ASSESSMENT METHODS

Social science research tools such as interviews, surveys and researches were conducted to be able to obtain information, issues and concerns that exist in the covered area of the proposed project.

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ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

| Support facilities (includes office buildings, housing facilities, and bunk houses, security outposts, and facilities, motorpool, nursery area) |
|--|
| Pollution Control facilities (including sedimentation ponds/settling ponds, pit drainage) |

 Location and Accessibility
 ATN Holdings Inc. exploration tenement area denominated as EP-IVA-019 which covers an area of 82.7092 hectares is located at Barangay Macabud, Municipality of Rodríguez, Province of Rizal. The project site can be reached via the Marikina-San Marbo Road passing through Cubao or Sumulong Highway while the other route is via Fairview passing through the Commonwealth Avenue-Litex-Payatas road. From Rodriguez proper the site is approximately 3 kilometers away.

The exploration permit area is bounded by the following geographic coordinates:

Table 1. Technical Description

| CORNER | LATITUDE | LONGITUDE |
|--------|-----------------|------------------|
| 1 | 14" 47' 00.000" | 121° 08' 00.000° |
| 2 | 14* 47' 30.000" | 121° 08' 00.000° |
| 3 | 14" 47" 30.000" | 121° 08′ 30.000′ |
| 4 | 14" 47' 00.000" | 121° 08' 30.000' |

ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

1. Collection and Review of Secondary Data

1. Collection and never of secondary potal pata gathering was conducted in April 2019, prior to the scheduled public scoping. These data were reviewed specifically the socio-economic profile of Barangay Macabud and Rodriguez Rizal, together with the project documents and other related information.

Roomgove Ruan, sugerum with the river (Kill)
Also in April 2019, Kill was done with residents, and members of people's organizations. This methodology is a qualitative in-depth interviews with people who have a diverse background on the history and current situation of the community. It is an effective tool in gathering information from a wide range of people who have first-hand knowledge and understanding about the community. This is also the venue to discuss sensitive issues where some individuals don't want to voice out in group discussion.

Focus Group Discussion (FGD) and SDMP Consultation
 This activity was conducted on November 23, 2019 at the Barangay Hall of Macabud,
 Rodriguez Rizal. FGD is a form of qualitative information dissemination and collection where
 questions are asked about their perceptions attitudes, beliefs, opinion or ideas about the
 project that encourage discussions among the participants

4. Perception Survey
To further assess and evaluate the extent of awareness of the stakeholder's issues and concerns, and perceived priority community development projects this method was undertaken on November 18-22, 2019 covering the concerned stakeholders from Barangay

C. PROJECT BACKGROUND

| Project Name | ATN Aggregates Project |
|--------------------------------------|---|
| Project Proponent | ATN Holdings Inc. |
| Authorized Representative | Paul Saria, CEO |
| Proponent Address | 9th Floor, Summit One Tower, 530 Shaw Boulevard, Mandaluyong City, Philippines |
| Proponent Contact Details | (032) 4040-0239/404-2596 |
| Nature of Project | Major Quarrying and Crushing Project |
| Proposed Extraction Rate | 7,000,000 DMT |
| Proposed Annual Crushing Rate | 5,000,000 |
| Commodity | Aggregates |
| Location of Quarry and Facilities | Barangay Macabud, Rodriguez, Rizal |
| Permit | EP=IVA-019 |
| Total Project Area | 82.7092 Hectares |
| Mining Method | Surface Mining - Quarrying |
| Project Components | Quarry (includes haul and access roads, crushing plant, stockpile and dumps |

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ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

Figure 1. Tenement Mac

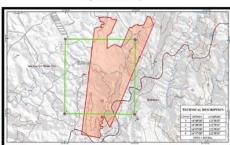
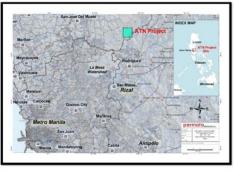


Figure 2. Vicinity Map



ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

D. SITE PROFILE

Geographical Location

Barangay Macabud which is the host barangay of ATN Aggregates Project is one of the 11 barangays of Rodriguez, Rixal and located in the northernmost part of Rodriguez and bounded in the north by Norzagaray, Bulacan, in the west by San Jose Del Monte, Bulacan, Pangarap, Caloccan City and Guezon City and in the south by Barangay San Jose of Rodriguez. Barangay Macabud has a total land area of 1,886 hectares representing 5.19% of the total municipal land area.

Municipality of Rodriguez is situated in the northernmost part of Rizal Province and within numicipantly of Nodriguez is situated in the northerimost part of Rizal Province and within the fringes of Metro Manila, Situated at the foot of the Sierra Madre Mountains with a cold of 56,307.31 hectares or 363.07 km2, it is one of the largest municipalities in Rizal Province in terms of land area. More than 40% (12,620.90 hectares) of the Upper Marikina River Basin and Protective Landscape (UMBROYL) is part of the municipality. It is bounded on the West Quezon City and Calocara City, on the North by San Jose del Monte City, Bulacan; on the East by the Municipality of General Nakar, Quezon and by Antipolo City and San Mateo, Rizal on the South.

Table 2. Land Area by Baranaay

| BARANGAY | AREA (hectares) | % DISTRIBUTION |
|------------|-----------------|----------------|
| Balite | 53.88 | 0.15% |
| Burgos | 276.00 | 0.76% |
| Geronimo | 36.75 | 0.10% |
| Macabud | 1,886.00 | 5.19% |
| Manggahan | 117.44 | 0.32% |
| Mascap | 7,576.41 | 20.87% |
| Rosario | 25.17 | 0.07% |
| San Isidro | 3,792.00 | 10.44% |
| San Jose | 1,045.28 | 2.88% |
| San Rafael | 6,061.45 | 16.69% |
| Total | 36.308.07 | 100.00% |

ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP



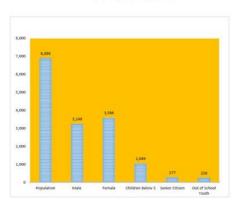
2. Demographic information as Demography of Barnagay Macabud In the 2011. biarnagay census, Macabud recorded a population of 6,898 from 1,454 households. Majority of the population is female (51%) with the rest being male (49%). Children below 5 years of age represented 15,21% while senior citizens were only 4,02% of the population. The Out of School Youth population represented 4,02%. The barnagay had a total of registered voters numbering 3,871. Figure 2 presents the demographic profile of Barnagay Macabud. In year 2015, the population of the barnagay increased to 9,707.

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ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

Table 3. Demographic Profile of Barangay Macabud



The people of Macabud are composed of different sub-groups such as Tagalog, Bisaya, Muslim and Dumagats (Indigenous Peoples). Most of the Dumagats live in Sitio Karahume while Muslims are in Sitio Jovil III and Laan. There are also immigrants from different places of Metro Manila.

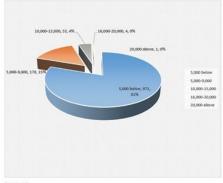
b. Religious Affiliation
More than 80% of the population in Barangay Macabud are Catholic while 9.71% are
Christians, 6.99% are Iglesia ni Cristo and the rest belongs to various religious affiliations such
as Jehovah's Witnesses, Ang Dating Doan, Islam, and Seventh Day Adventist.

Frimary and Secondary education is accessible to the community. There is one public elementary school, one public high school and one private school (Saint Joseph Christian Academy). There are day care centers in Sitio Karahume, Sitio Licao-Licao, Sitio Harangan and Sitio Laan that caters to children below six years of age.

ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

d. Occupation/Employment Macabud is considered an agricultural community with land under the Comprehensive Zoning Ordinance of Rodriguez. The top five occupations in Macabud are farmers (52.5%), laborer (12.89%), driver/conductor (7.83%), self-employed (5.86%), and vendor (3.83%). The rest, around 11%, are engaged in various employment/occupations. However, more than 1,500 of the total population are unemployed.

e. Income Based on the data obtained from the Barangay profile, more than 80% of those with occupation have incomes below PhPS,000, 15% have incomes between PhPS,000-9,000, 4% have incomes between PhP10,000-15,000 and only a few are earning more than P16,000 per month.



1. neeum Barangay Macabud has a health center with 10 Barangay Health Workers, two nutritionists, and one midwife. Most of the common diseases reported are: fever, cough, colds, tonsillitis, infected wound, tuberculosis, diarrhea, UTI, hyperculosion, linfantle colic, othtis media and influenza. The barangay is free from malaria and dengue diseases.

ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

Barangay Macabud is governed by the Sangguniang barangay, a collegial body of elected Officials headed by the Barangay Chairman. The current Barangay Officials of Macabud are the following:

Barangy Chairwoman: Hon. Judith U. Gandia

Barangay Chairwoman: Hon, Judith U. Gandia
Barangay Councilors: Hon. Virginia S. Lastimada
Hon. Jaime S. Pascual
Hon. Vergilio C. Roque
Hon. Guillermo C. Bautista
Hon. Dominador R. Sadya
Hon. Analiza S. Montaño
Hon. Nestro G. Villeza
SK Chairman: Hon. Joseph Catayoc

The Sangguniang Barangay is supported by the following key personnel:

Secretary: Hon. Desiree Neddy S. Alcazar Treasurer: Hon. Willbeth B. Calleja

h. Local Organizations

ow is the list and functions of notable organizations in Barangay Macabud:

| ORGANIZATION | FUNCTION |
|--|---|
| Pantawid Pamilyang Pilipino Program (4Ps) | It is a human development measure of the national government that provides conditional cash grants to the poorest of the poor to improve the health, nutrition, and education of children aged 0-18. |
| Farmer's Association (IARBARRI, and SAMAKA) | Facilitate the integration of farmers into markets, improvement of quality of life, and promoting sustainable fishing practices. |
| Senior Citizens | This group aimed at organizing the elderly to identify their needs, welfare, and rights especially on health. |
| Women's Organization (Montalban Ladies Association, and Yellow Ladies) | Ensure the full integration of women for economic, social and cultural development at the municipal and barangay level. |
| Tricycle Operators and Drivers Association | One of their primary objectives of TODA is to provide programs such as livelihood, assistance on the issuance of franchise and others. The regular meeting was also scheduled for the |

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ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

| | monitoring of the activities of Macabud TODA. | | | |
|--------------------------|---|--|--|--|
| Odiongan New Generations | A civic organization composed of youth | | | |
| | representatives. | | | |

E. RESULTS OF SOCIAL IMPACT ASSESSMENT

Key informant interview
 The key informant interview was held on April 11 and 14, 2019. The informants of the summary of issues and concerns illustrated in the table below are young couple and individuals residing in Barangay Macabud.

| Location | Issues and Concerns | Remarks/Recommendation |
|---|--|--|
| Barangay Macabud Date: April 11 & 14, 2019 | Harmful to the environment | It will cause flooding in Rodriguez town proper The in-depth study should be done and mitigating measures have to be put in place |
| | Awareness on the proposed project | Majority of the residents in the barangay are unaware of the proposed 82 hectares aggregates project. |
| | Established Electrical Post in the Barangay | Need clarification if the electrical post erected at the barangay is under the ATN solar project |
| | Possible landslide | Location of the cemetery is very close to the on-going quarry operation of ATN. If the operation will expand it will imperil the cemetery from landslide |
| | Blasting | When they do blasting it is like a tremor fel at the barangay |
| | Dust Pollution | ATN have to put mitigating measured on dust caused by transportation of aggregate and crushing plant |
| | Resistance to the project | Most of the residents are resistant to accept the project because it will affect the agricultural land. Farming is one of the main sources of living in the area. |
| | Employment | Residents of Barangay Macabud should be prioritized in hiring employees |
| | Land Rights | There is an on-going issue regarding the ATN claim (titled land) vs the actual user of the land The land has no title but occupants are cultivating the area a long time ago |

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ATN AGGREGATS PROJECT

| No proper consultation with the residents | ATN only meet with the barangay council. Residents are unaware of the details of the project. ATN have to implement an IEC program |
|---|---|
| People are misinformed | The problem with the people in the area is that they are listening/believed from the wrong information disseminated to them by individuals that includes some members of the barangay council. This issue can be clarified during the public scoping. |
| Project acceptance in Sitio Laan | In Sitio Laan, where the on-going ATN operation is situated, the residents are in favor of the project |

2. FGD/SDMP Consultation Meeting

reglysolmy consultation Meeting
 On November 23, 2019, an SDMP consultation was held in Barangay Macabud. The objective
of the meeting is to inform and consult the barangay regarding the ATM Aggregates Project's
social responsibility of which one of these is the implementation of the SDMP.

The attendees of the meeting was headed by Hon. Councilor Renie T. Nedusa Sr. He welcome the ATN representatives and express apologies because the other council members were not present due to prior scheduled activities. He also clarify to the group that they will not sign the attendance sheet. ATN respected their decision.

A PowerPoint presentation was presented by ATN representative to provide knowledge to the attendees about the laws pertaining to the program and the company's implementation scheme as mandated by law. Below is the outline of the presentation:

- Objective of SDMP
 DAO 2010-21 Section
- DAO 2010-21 Section 135-136 (implementing rules and regulation of SDMP)

DAG 2434-6
SOMB Audget allocation
SDMP Components
Development of Host and Neighboring Communities (DHNC)
Promotion of Public Awareness on Mining Technology and Geosciences (PPAMTG)/Information, Education, and Communication (IEC)
Development of Mining Technology and Geosciences (DMTG)
SDMP Credited activities for Social Expenditures
DHNC (Health, Education, Livelihood, Infrastructures, and Socio-Cultural)
PPAMTG/EC
DMTG After the presentation the presenter informed them that part of the consultations is to conduct an SDMP workshop but councilor Nedusa decided not to proceed with it because the other barnage workfield were not around. ATN shared that the company has on-going SDMP perception survey that was allowed by Honorable Barnagay Captain Judith U. Gandia. Since

ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

the workshop will not be conducted the result of the survey is already enough as basis for the formulation of the 5-Year SDMP. It was also clarified that once the 5-Year SDMP have been approved by MGB, an Annual SDMP have to be prepared by ATN in consultation with the barangay.

Councilor Nedusa and the rest of the attendees expressed interest in the SDMP and accepted the perception survey form to be filled. They will share the discussion with the other community members such as; farmer, neighbors, relatives and friends. Kagawaw Medusili also discuss the SDMP and excerpts of the meeting in their next barangay council session.

3. Perception Survey

3. Perception Survey
The SDMP perception survey was conducted on November 18-22, 2019. These were carried out in Sitos within Barangay Macabud. Respondents considered to be interviewed are household heads, spouses of household heads, sons or daughters of household heads who are at least 18 years old, and other household members who are also at least 18 years of age.
Below is the result of the random survey.

a. Respondents Profile

a. Respondents rrows Age Distribution.
All of the respondents are at the working age. Most of the respondents were in the age bracket from 4.15 years old or 25% of the total respondents. Age bracket of 31.35, 36-40, and 56-60 have 13.9% respondents while 61 years old and above have 11.1% respondents. Totale 5. Distribution of Respondents Based on Age.

| Age of Respondents | Frequency | Percentage |
|--------------------|-----------|------------|
| 16-20 | 1 | 2.8 |
| 21-25 | 2 | 5.6 |
| 26-30 | 3 | 8.3 |
| 31-35 | 5 | 13.9 |
| 36-40 | 5 | 13.9 |
| 41-45 | 9 | 25.0 |
| 46-50 | 2 | 5.6 |
| 51-55 | | 0.0 |
| 56-60 | 5 | 13.9 |
| 61-above | 4 | 11.1 |
| | | |

Sex Distribution

Based on the result of the survey both sexes have been represented equally with 50% each of respondents.

| Gender | Frequency | Percentage |
|--------|-----------|------------|
| Male | 18 | 50.0 |
| Female | 18 | 50.0 |
| Total | 36 | 100.0 |

| Place of Birth | Frequency | Percentage |
|-------------------|-----------|------------|
| Rodriguez, Rizal | 12 | 33.3 |
| San Mateo, Rizal | 1 | 2.8 |
| Surigao Del Norte | 2 | 5.6 |
| Aklan | 3 | 8.3 |
| Bulacan | 2 | 5.6 |
| Oriental Mindoro | 1 | 2.8 |
| Lanao Del Sur | 1 | 2.8 |
| Marikina City | 1 | 2.8 |
| Makati City | 1 | 2.8 |
| Davao Del Sur | 1 | 2.8 |
| Roxas City | 2 | 5.6 |
| Nueva Vizcaya | 1 | 2.8 |
| Kidapawan City | 1 | 2.8 |
| Negros | 1 | 2.8 |
| Masbate | 1 | 2.8 |
| No Answer | 5 | 13.9 |
| Total | 36 | 100.0 |

Only two religions represented the respondents. Majority of it belongs to Iglesia Ni Cristo with \$2.8% while Roman Catholic is 38.9%. Three (8.3%) of the respondents did not disclose their religious affiliation.

Table 8. Distribution of Respondents Based on Religion

| Religion | Frequency | Percentage |
|-------------------|-----------|------------|
| Roman Catholic | 14 | 38.9 |
| Iglesia Ni Cristo | 19 | 52.8 |
| No Answer | 3 | 8.3 |
| Total | 36 | 100.0 |

Mortati status
The survey have 23 or 63.9% respondents that are married. There are 6 (16.8%) that are single while widow is 3 or 63.9%. Two (5.6%) are separated.
Table 9. Distribution of Respondents Based on Marital Status

| Marital Status | Frequency | Percentage |
|----------------|-----------|------------|
| Single | 6 | 16.7 |
| Married | 23 | 63.9 |

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| Separated | 2 | 5.6 |
|-----------|----|-------|
| Widow | 3 | 8.3 |
| Widower | 1 | 2.8 |
| No Answer | 1 | 2.8 |
| Total | 36 | 100.0 |

Household Role of Respondents
Most of the respondent's role in the family are Father or Household head with 15 individuals
or 41.7% of the total of respondents. Mother role followed with 12 (33.3%) while 11.1% area

Table 10. Distribution of Respondents Based on Role in the Family

| Role in the Family | Response | |
|--------------------|----------|------------|
| Role in the Family | Count | Percentage |
| Father | 15 | 41.7 |
| Mother | 12 | 33.3 |
| Son | 1 | 2.8 |
| Daughter | 4 | 11.1 |
| Others | 4 | 11.1 |
| Total | 36 | 100.0 |

Educational Attainment
Of the 38 total of respondents, 14 (38.9%) are high school graduate while 12 (33.3%) finished
elementary school. Only 5 or 13.9% reached college level of education while 3 or 8.3% are
college graduate. Only 1 (2.8%) respondent finished vocational course.

Table 11. Distribution of Respondents Bosed on Educational Attainment

| Educational Attainment | Response | |
|------------------------|----------|------------|
| Educational Attainment | Count | Percentage |
| Elementary | 12 | 33.3 |
| High School | 14 | 38.9 |
| Vocational | 1 | 2.8 |
| College Level | 5 | 13.9 |
| College Graduate | 3 | 8.3 |
| No Answer | 1 | 2.8 |
| Total | 36 | 100.0 |

Source of Income
Most of the respondents sourced their income from small businesses with 12 respondents
(33.9%). Unemployed follows with 25% while privately employed is 19.4%. There are 4
(11.1%) that are farmers, 2 (5.6%) are government employees, and 2 (5.6%) are tricycle

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| Source of Income | Response | |
|---------------------|----------|------------|
| source of income | Count | Percentage |
| Government Employee | 2 | 5.6 |
| Private Employee | 7 | 19.4 |
| Self Employed | 12 | 33.3 |
| Farmer | 4 | 11.1 |
| Driver | 2 | 5.6 |
| Unemployed | 9 | 25.0 |
| | | |

Monthly Income
It is evident on the result of the survey that most of the respondents belongs to low income family. Nine (25.4%) of the total respondents are jobless or no income while only 8 or 22.2% are receiving a monthly income from 1,001-5,000 pesos. Skr respondents or 16.7% are a monthly income that range from 5,001-10,000, 8.3% receives 1,000 pesos and below, and only 5.6% percent have monthly salary range of 15,001-20,000 pesos.

Table 13. Distribution of Respondents Based on Monthly Income

| Income | Response | |
|---------------|-----------|------------|
| micome. | Frequency | Percentage |
| Below 1,000 | 3 | 8.3 |
| 1,001-5,000 | 8 | 22.2 |
| 5,0010-10,000 | 6 | 16.7 |
| 10,001-15,000 | 1 | 2.8 |
| 15,001-20,000 | 2 | 5.6 |
| Above 20,000 | | 0.0 |
| No Income | 9 | 25.0 |
| No Answer | 7 | 19.4 |
| Total | 36 | 100.0 |

Length of Residency

Lengtin on resourcesy
Majoritry of the respondents (69.4%) have a length of residency in Barangay Macabud of more
than 10 years. Three (63.3%) respondents only stayed in the community for 3 years while the
rest have no answer or have a year of residency in Macabud.
Table 14. Distribution of Respondents Based on Length of Residency

| Year of Residency | | Response | |
|--------------------|-------|------------|--|
| rear or westoericy | Count | Percentage | |
| 1 | 1 | 2.8 | |
| 2 | 3 3 | 0.0 | |
| 3 | 3 | 8.3 | |
| 4 | 2 | 5.6 | |
| 5 | 1 | 2.8 | |
| 6 | | 0.0 | |

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| 7 | 1 | 2.8 |
|-----------|----|-------|
| 8 | | 0.0 |
| 9 | | 0.0 |
| 10-above | 25 | 69.4 |
| No Answer | 3 | 8.3 |
| Total | 36 | 100.0 |

Household Size
Ten or 27.8% of the respondents have household size with 5 members while respondents with a size of 6 family members follows with 22.2%. Four respondents or 11.1% have household size of 2 and another 11.1% with 4 family members.

Table 15. Distribution of Respondents Based on Household Size

Presentate.

| Number of Family Members | Frequency | Percentage |
|--------------------------|-----------|------------|
| 1 2 3 | | 0.0 |
| 2 | 4 | 11.1 |
| 3 | 2 | 5.6 |
| 4 | 4 | 11.1 |
| 4 5 | 10 | 27.8 |
| 6 7 | 8 | 22.2 |
| 7 | 2 | 5.6 |
| 8 9 | | 0.0 |
| 9 | 1 | 2.8 |
| 10-above | 2 | 5.6 |
| No Answer | 3 | 8.3 |
| Total | 36 | 100.0 |

c. Housing Information of Respondents.

Structure of the House

Thirty three percent or 12 respondents revealed that their house is made of mixed housing materials while "respondents or 19.4% shared that their house structure is a combination of nipa and wood. Five respondents or 19.9% have house made of concrete and G.I. roofing, another 13.9% made of nipa and bamboo, and 11.1% is a combination of nipa and concrete.

Table 16. Distribution of Respondents Based on Structure of the House

| Structure of House | Frequency | Percentage |
|--------------------|-----------|------------|
| Nipa/Bamboo | 5 | 13.9 |
| Nipa/Wood | 7 | 19.4 |
| Nipa/Concrete | 4 | 11.1 |
| GI Roof/Wood | 3 | 8.3 |
| GI Rood/Concrete | 5 | 13.9 |
| Mixed | 12 | 33.3 |
| | 100 | 2000 |

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More than half or 55.6% of the respondents owned the house their household presently inhabits. Only mere 8.3% were rented while 8.3% are owned by their parents. There are 16.7% respondents that are caretakers of the house they inhabit.

Table 17. Distribution of Respondents by Ownership or the House

| Ownership | Frequency | Percentage |
|------------------|-----------|------------|
| Owned | 20 | 55.6 |
| Rented | 3 | 8.3 |
| Owned by Parents | 3 | 8.3 |
| Caretaker | 6 | 16.7 |
| No Answer | 4 | 11.1 |
| Total | 36 | 100.0 |

Fifty percent of the respondents are sourcing their water from a spring. Respondents that sourced water from deep well with pump is 19.4% while another 19.4% is sourcing water from deep well without a pump. A mere 8.3% of respondents are getting water from river or creek. Table 18. Distribution of Respondents Bosed on Source of Water

| Source of Water | Frequency | Percentage |
|--------------------------|-----------|------------|
| River/Creek | 3 | 8.3 |
| Deep Well (without pump) | 7 | 19.4 |
| Spring | 18 | 50.0 |
| Deep Well (with pump) | 7 | 19.4 |
| No Answer | 1 | 2.8 |
| Total | 36 | 100.0 |

Source of Electricity

Eleven or 30.6% of respondents are using lamp with gas as lighting for their house while 22.2% have electrical line powered by Meralco. Since Meralco have limited line within the barangay, 16.7% of the respondents are using solar panel while households that are using battery 13.9%, similar to household that uses both solar and battery alternately.

Table 19. Distribution of Respondents Based on Source of Electricity

| Source of Electricity | Frequency | Percentage |
|-----------------------|-----------|------------|
| Meralco | 8 | 22.2 |
| Solar | 6 | 16.7 |
| Battery | 5 | 13.9 |
| Solar and Battery | 5 | 13.9 |
| Gas Lamp | 11 | 30.6 |
| No Answer | 1 | 2.8 |
| Total | 36 | 100.0 |

Source of Fuel for Cooking

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Majority of the respondents are using wood for cooking (65.8%) while 44.7% are using liquefied petroleum gas (IPG) with 44.7%. There are responses that they are alternately using IPG gas and wood.

Totale 20. Distribution of Respondents Based on Source of Fuel for Cooking

| Source of Fuel | Count | Percentage |
|----------------|-------|------------|
| Charcoal | 3 | 7.9 |
| Wood | 25 | 65.8 |
| Gas | 3 | 7.9 |
| LPG Gas | 17 | 44.7 |
| Others | 2 | 5.3 |
| Total | 50 | 131.6 |

Sanitary Toilet Facility

Sameury Forcer racingy
Most respondents have toilet facility in their household presently inhabited with 86.1 percent
while only 8.3% don't have toilet facility.

Table 21. Respondents with Toilet Facility

| Toilet Facility | Frequency | Percentage |
|-----------------|-----------|------------|
| Yes | 31 | 86.1 |
| None | 3 | 8.3 |
| Others | 2 | 5.6 |
| Total | 36 | 100.0 |

Garbage Disposal

Twenty one or 58.3% of respondents are disposing garbage by burning while 25% are burying their garbage at their backyard. Only six or 16.7% of the respondents' garbage are collected by garbage truck.

| Garbage Disposal | Frequency | Percentage |
|-----------------------------------|-----------|------------|
| Burned | 21 | 58.3 |
| Collected by Garbage Truck | 6 | 16.7 |
| Buried at backyard (Decomposting) | 9 | 25.0 |
| Total | 36 | 100.0 |

d. Health Information of Respondents

Sicknesses
The respondents identified various sickness that they have experienced for the past five years of stay in Barangay Macabud. Seventeen respondents family did not suffer from any sicknesses while respondent's family who have experience sicknesses the most common is fewer with 21.4% followed by pneumonia with 9.5%. Other sicknesses experience were flu, LBM, asthma, and UTI.

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Table 23. Sickness Experienced by the Family of Respondents for the last 5 Years

| Type of Sickness | Count | Percentage |
|------------------|-------|------------|
| Fever | 9 | 21.4 |
| Flu | 3 | 7.1 |
| LBM | 2 | 4.8 |
| Asthma | 2 | 4.8 |
| Pneumonia | 4 | 9.5 |
| UTI | 2 | 4.8 |
| None | 17 | 40.5 |
| No Answer | 3 | 7.1 |
| Formi | 42 | 100.0 |

Presence of Barangay Health Center
Seventy five percent (75%) of the respondents confirm that there is a barangay health center
in the barangay. However, 25% says that there is no established barangay in the community,
it is probably because of accessibility reason. The health center is located at the barangay
proper and far from the stitos.

Table 24. Presence of Barangay Health Center

| Barangay Health Center | Frequency | Percentage |
|------------------------|-----------|------------|
| Yes | 27 | 75.0 |
| None | 9 | 25.0 |

Perception on Health Services
Most of the respondents perceived that the services provided by the health center is not poor
with 47.2% response. Twenty five percent (25%) says that they are satisfied with the services
provided while 22.2% are not sure.

Table 25. Perception on the Services of the Health Center

| Satisfaction on Service Provided | Frequency | Percentage |
|----------------------------------|-----------|------------|
| Yes | 9 | 25.0 |
| No | 17 | 47.2 |
| Not Sure | 8 | 22.2 |
| No Answer | 2 | 5.6 |
| Total | 26 | 100.0 |

Majority of the respondents which is 80.6% go to nearby health center or government hospital in case of sicknesses while 13.9% brought their sick family members to private clinic

Table 26. Medical Facility in case of Sicknesses

| Medical Facility | Frequency | Percentage |
|------------------|-----------|------------|
|------------------|-----------|------------|

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| Health center/govt. hospital | 29 | 80.6 |
|------------------------------|----|-------|
| Private clinic/hospital | 5 | 13.9 |
| No Answer | 2 | 5.6 |
| Total | 36 | 100.0 |

e. Environmental Awareness

Environmental Problem

Concerning environmental problems being experienced by the respondents, the most common problem identified are bad road condition with 18.5%, environmental degradation (16.7%), no electricity (16.7%), and poor water system/supply (7.4%). Three respondents (5.6%) at disclose they've lost their farm lost due to the quarry operation in the area.

Table 27. Environment Related Problem Experienced

| Environmental Problem | Count | Percentage |
|----------------------------------|-------|------------|
| Bad Road condition | 10 | 18.5 |
| Environmental Degradation | 9 | 16.7 |
| Noise Pollution (Crushing Plant) | 2 | 3.7 |
| Loss of farmlots/Land ownership | 3 | 5.6 |
| Dust Pollution | 3 | 5.6 |
| Garbage smell/stink | 3 | 5.6 |
| Poor Water System/Supply | - 4 | 7.4 |
| No Electricity | 9 | 16.7 |
| Flooding | 3 | 5.6 |
| None | 2 | 3.7 |
| Others | 2 | 3.7 |
| No Answer | 4 | 7.4 |
| Total | 54 | 100.0 |

Mitigating Measures/Development Project In relation to the above environmental concerns mentioned, 44.4% of the respondents share that the local authority have provided mitigating measures and development but they were not satisfied with the projects and results. Fourteen respondents (38.9%) remarks that local authority don't have any actions implemented to mitigate or resolve the problems. Table 28. Implementation of Mitigating Measures and Development

| Mitigating Measures | Frequency | Percentage |
|---------------------|-----------|------------|
| Yes | 16 | 44.4 |
| None | 14 | 38.9 |
| Others | 1 | 2.8 |
| No Answer | -5 | 13.9 |
| Total | 16 | 100.0 |

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observations. The most number of answers from the respondents about the development observed in the area for the last five years is the slow socio-economic and development growth with 15-7%, dust pollution (111:18), environmental degradation (111:34), noise pollution due to crusher operation (8.3%), and loss of farm lots which was acquired by quarry operation (8.3%).

Table 29. Changes/Development in the Barangay for the last 5 Years

| Projects for the last 5 Years | Count | Percentage |
|----------------------------------|-------|------------|
| Loss of farm lots | 3 | 8.3 |
| Dust Pollution | 4 | 11.1 |
| Noise Pollution (crushing plant) | 3 | 8.3 |
| Partial Road Construction | 3 | 8.3 |
| Flooding of mud | 1 | 2.8 |
| Slow Economic/Development Growth | 6 | 16.7 |
| Environmental Degradation | 4 | 11.1 |
| None | 7 | 19.4 |
| No Answer | 5 | 13.9 |
| Total | 36 | 100.0 |

f. Proposed Community Development Program/Projects
Concerns Related to Source of Income/Livelihood
The most number of concerns gathered from the survey with regards to source of income and
employment is the lack of work opportunity (27.9%), followed by lack or no capital in order
to start a small busines (18.6%). Respondents who are engaged into livestock experienced
problem on pest/virus (11.6%), while lack of skills and no educational attainment resulted
into problem of earning a job (23.9%).

Table 30. Community issues in Relation to Source of Income/Livelihood

| Issues | Count | Percentage |
|---|-------|------------|
| Lack of Work Opportunity | 12 | 27.9 |
| Livestock pest/virus problem | 5 | 11.6 |
| No farm lots (affected by quarry) | 4 | 9.3 |
| No livelihood program | 1 | 2.3 |
| Establish Cooperative | 1 | 2.3 |
| No Capital | 8 | 18.6 |
| Lack of Skills/No Educational Attainment | 4 | 9.3 |
| No Answer | 8 | 18.6 |
| Total | 43 | 100.0 |

Trainings Needed for Local Organizations
To uplift the socio-economic difficulty in the area, most of the respondents recommend to have levelihood training (45.2%) while health and sanitation training have 11.9% respondents. Remarkably, 31% of the respondents did not answer the question.

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Table 31. Perceived Training Needed for Local Organizations

| Trainings (teeded | Count | Percentag |
|--------------------------------|-------|-----------|
| Livelihood Training | 19 | 45.2 |
| Health and Sanitation Training | 5 | 11.9 |
| Educational Training | 4 | 9.5 |
| Training for Women | 1 | 2.4 |
| No Answer | 13 | 31.0 |
| Total | 42 | 100.0 |

coucational Problem
Lack of educational facility for elementary school and high school is the main issue of most of
the respondents. Twenty one of them or 58.3% complains that the school is located at the
barangay proper and very far from remote Sitios. Another concern is financial difficulty to
send their children to high school and college with 2.50% respondents.

Table 32. Educational Problem of the Community

| Educational Problem | Frequency | Percentage |
|---------------------------|-----------|------------|
| School is far from Sitios | 21 | 58.3 |
| Lengthen school class | 1 | 2.8 |
| Financial Problem | 9 | 25.0 |
| No Answer | 5 | 13.9 |
| Total | 36 | 100.0 |

water Problem

Poor water supply especially during dry season is the most concern of the respondents (25%).
They are hoping that MWSS will establish water line to the residents with 22.2% respondents
while 19.4% express concern on the existing water system. 306% of the respondents did not
answer the question.

| Water Problem | Count | Percentage |
|----------------------------|-------|------------|
| Poor Water System | 7 | 19.4 |
| No existing line from MWSS | 8 | 22.2 |
| Poor Water Supply | 9 | 25.0 |
| Distance of water source | 1 | 2.8 |
| No Answer | 11 | 30.6 |
| Total | 36 | 100.0 |

Fifty percent (50%) of the respondent complained about the bad road condition in the Barangay especially in Sitio Laan. Sixteen or 44.4% of the respondents have no answer to the

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Table 34. Infrastructure Problem

| Infrastructure Problem | Frequency | Percentag |
|------------------------|-----------|-----------|
| Bad Road Condition | 18 | 50.0 |
| Construction of bridge | 1 | 2.8 |
| None | 1 | 2.8 |
| No Answer | 16 | 44,4 |
| | | |

Perceived Solution on Source of Income
Suggestions have been reflected in the survey as possible solution to employment or source
of income by the respondents. Livelihood program (36.7%) have the most number of
suggested solution followed by capital loan (26.6%) that they can use to start a small busines
or other source of livelihood. Employment was also suggested with 10.2% respondents.

| Perceived Solution | Count | Percentage |
|--------------------------|-------|------------|
| Employment | 5 | 10.2 |
| Livelihood Program | 18 | 36.7 |
| Market for farm products | 1 | 2.0 |
| Capital Loan | 14 | 28.6 |
| No Answer | 11 | 22.4 |
| Total | 46 | 100.0 |

Proposed Educational Support

Because of the financial problem of the respondents, they recommend to have a free education with 29.3% while scholarship is 17.1%. Due to access to school because of distance, 17.1% of respondents suggested to establish school facilities in remote sitios.

| Proposed Educational Project | Count | Percentage |
|---|-------|------------|
| Establish School in Remote Sitios | 7 | 17.1 |
| Free Education | 12 | 29.3 |
| Assistance to School | 1 | 2.4 |
| Scholarship | 7 | 17.1 |
| Others | 1 | 2.4 |
| No Answer | 13 | 31.7 |
| Charles and the second | 741 | 2000 |

otable Water eeding program for malnourished ree Consultation rovision/Free Medicine

Table 37. Perceived Solution to Health Issue

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Suggested Community Development Training Majority of the respondents did not answer the question with 52.8%. Proposal on livelihood training follows as answer to the poverty problem in the area with 22.2%.

| Proposed Trainings | Count | Percentage |
|--------------------------------|-------|------------|
| Livelihood Training | 8 | 22.2 |
| Communication | 2 | 5.6 |
| Family Planning Seminar | 1 | 2.8 |
| Community Development Training | 3 | 8.3 |
| Peace and Order | 2 | 5.6 |
| Organizational Training | 1 | 2.8 |
| No Answer | 19 | 52.8 |
| Total | 36 | 100.0 |

Proposed Infrastructure Project

Suggestion for road improvement have 27.1% response while establishment of electricity is 25%. Interestingly, 35.4% don't have response to the question.

| Proposed Infrstructure Project | Count | Percentage |
|--------------------------------|-------|------------|
| Road Improvement | 13 | 27.1 |
| Electricity | 12 | 25.0 |
| Housing Project | 1 | 2.1 |
| Establishment of Hospital | 2 | 4.2 |
| Community Devt. Projects | 3 | 6.3 |
| No Answer | 17 | 35.4 |
| Total | 48 | 100.0 |

| Other Proposed Project | Count | Pertentage |
|--------------------------------------|-------|------------|
| Employment | 6 | 9.5 |
| Establish School at Remote Areas | 6 | 9.5 |
| Improve Water Supply | 6 | 9.5 |
| Electricity | 13 | 20.6 |
| Health center | 3 | 4.8 |
| Livelihood Project | 5 | 7.9 |
| Road improvement | 6 | 9.5 |
| Scholarship | 1 | 1.6 |
| Feeding Program | 1 | 1.6 |
| Relocation Site for affected Farmers | 2 | 3.2 |
| No Answer | 14 | 22.2 |
| Total | 63 | 100.0 |

SOCIAL IMPACT ASSISSMENT FOR S-YEAR-SOME

A. Social Impact Assessment

The first cycle of ATN Holdings lice. Aggregates Project 5-Year SOMP formulation needs planning framework and process to become strategic and programmatic. The relatively small amount of SOMP funds yn not be enough to establish community development program but rather settle for provisions as additional assistance for existing development programs of the barrangs and municipal local government units. It will require deliberate approach to anchor the SOMP provisions to broader programsatic interventions and intilatives in Barrangs Marabod. This can be achieved by twolving the barrangs and municipal IGU, repentance of affective section and control organizations in the preparation of annual.

| Category | Community Issues/Challenges Encountered | Perceived Solution | Current Situation | Potential Contribution of SDMP |
|----------|--|---|---|--|
| Health | Accessibility of health facility Not satisfied with the health quality services insufficient supply of medicines Lack of water source No existing line from MMSS Garbage | Establish additional health center at remote sitios Free medicines Free medicines Free medical consultation Establishment of hospital Establishment of potable water source Feeding program | Community members from remote sitios are complaining primarily about the accessibility of the lone health center situated at the barangay proper. Insufficient supply of medicines and services in general did not satisfy the respondents as reflected in the survey. | The SDMP provisions to health care service provisions to health care service provisions and facilities can contribute to achieving positive results in terms of access to quality healthcare service. From the supply end, any form of aid given to supplement the current capacities of health workers and facilities such as community health stations can be linked to better performance. This is important given the design of the country's health care given the design of the country of the countr |

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| velhood ind imployment | • • • • • • | are fair from the residential area are fair from the residential area almost spinling were already affected by quantry from the fair from the fair footness of the fair footness | Livelihood program Employment Establish as Cooperative | Additional source of income is a perennial problem in the survivors which some in the survivors which there is no the survivors which 27 % source of | in the rural areas being devoked and community-based. Livelinood program have to the Management in the San San Atta Will development in the san shits will development in the san shits will also construct to the san shits will also construct the san shits will be a supported to the san shits will be a supported |
|------------------------------|-------------|---|---|--|--|
| | | No financial capital to establish small enterprise business Job qualification | | earning a monthly income ranging from 1,001-5,000. | and available assets such as human, social, physical, finandal, and public assets to create or facilitate sustainable means of livine. |
| | • | Loss of farmiots to quarry operation | | | The company have to prioritize employment from the barangay. |
| ducation | • | Elementary and High School location is far from remote sitios | Establishment of additional school at remote sitios | Accessibility to school facility is the main complain of the respondents in the survey as | Establishment of new school is not plausible because of limited SDMP funds. However, provisions of |
| | • • | Financial problem Transportation cost of students from house to school | Scholarship program Free education | well as financial capability to send their children to better school and enroll them in college. | assistance to the schools both elementary and high school, and child development center will contribute to the enhancement of |

| experience. Provision of equipment, school supplies and materials for teachers and the schools will help improve the | ship could be | granted to deserving students from indigent families for mining related courses through the development of mining technology and | dget. | While concreting project is at the development stage. Assistance | maintenance could be the possible | contribution of ATN Holdings Inc. | SDMP. Regular maintenance of | oad will facilitate the mobility of | people coming in and out of the | barangay as well as the transport of | goods and products. It will also result to a perceived sense of | safety (equating to a perception of | less likely to | happen). It will also result to an | of in terms of | mobility and access to safe road | networks, it will accommodate the |
|---|---|---|--------------------|--|-----------------------------------|-----------------------------------|------------------------------|-------------------------------------|---------------------------------|--------------------------------------|--|-------------------------------------|--------------------------------|------------------------------------|------------------------------|----------------------------------|-----------------------------------|
| experience. Provision of equipment, school supplies a materials for teachers and the schools will help improve the | experience. College scholarship could be | granted to deserving stud indigent families for minin courses through the devel of mining technology and | geosciences budget | While concreting development s | maintenance o | contribution of | SDMP. Regular | road will facility | Buimos aldoad | barangay as we | goods and proc | safety (equatin | accidents being less likely to | happen). It will | immediate relief in terms of | mobility and ac | networks, it wil |
| | | | | Issues on the current road condition is repeatedly raised | is already on-going road | projects, for them the | development is very slow. | | | | | | | | | | |
| | | | | Road improvement Electricity | system | | | | | | | | | | | | |
| | | | | | Source from | residential area | No budget for | electrification | No budget for | establishment of | water system | | | | | | |
| | | | | • Infrastructure • | • | | • | | • | | | | | | | | |

| NTN AGGREGATS PROJECT | | |
|----------------------------------|--|--|
| OCIAL IMPACT ASSESSMENT FOR 5-YI | AAR SOMP | differentiated safety needs of its users particularly the PWDs, older persons, women traveling with children, children and pregnant women. |
| | Improved water system is another demand. The correct water source of the community is deep well and spring, however its accessibility with regards to distance is the problem by the majority. | In the absence of MIVSS water lin in Sitio Laan, establishment of a water reservoir or water tank would be of help for better access to safe and potable water. |
| | Large area in the barangay have no electricity, Since 2000, the Sanguniang Barangay of Macabud has a pending request to the Provincial Government of Rizal for electricitation but it requires FIP2-2 million soft of the Provincial Constitution of the Million State of electricitation but it requires FIP2-2 million soft of the State | This problem could not be addressed through SDMP due to financial requirement. In the future, ATN Solar Project is the possible solution to the electrification needs in the barangey. |

F. RECOMMENDATION
From the gathered and analyzed data of the SIA, the following recommendations are
presented for ATM biodings and its partners in the SDMP formulation and management may
consider in the programming and planning of the SYeer SDMP and Annual SDMP,
Recommendations for enhancing the information, fluxicists, and Communication (EC)
strategies and optimizing the cultisation of funds allocated for Development of Mining
Technology and Conformication and annual SDMP.

- SDMP Formulation and Management
 The following are recommended for the effective SDMP planning and management.
- The following are recommended for the effective SDMP planning and management.

 Enurge participatory planning, monthing and evaluation processes to facilitate collective astonalization and prioritization of suggested program/projects/activities and foster strategic company sometime plannerships.

 Esplane and establish strategic partmerships and networking options with government agencies and instructions, NOSI, roundstorns and private sector institutions for resource mobilization and resource sharing, prioritivoside service and program delivery, and knowledge exchange; and

 C. Due to resistively small SDMP budget, the following is recommended:

 Invest on developing small-scale but high impact interventions by linking SDMP with existing, community, development programs instituted by government, non-transportations, and the selection of beneficiaries by setting clear and agreed upon guidelines for targeting and prioritization.

 Strategically valles CSM Programs to supplement SDMP and by providing assistance to

- Strategically utilize CSR Programs to supplement SDMP and by providing assistance to various requests from communities.

2. Establish Community Relations (Title Community Relations Office (CRO) to feed the The proponent have to establish the Community Relations Office (CRO) to feed the melementation and monotoring of SOMP. CRO is responsible for building and maintaining the harmonius relationship between the company and host communities and implement the functions of the CRO. The CRO is also tracked to solicit and managenet testures and considerable to the communities and of the impact and neighboring communities with regards to safety, health, reinforment and of the companies operation. This Office will be enabling of conducting environmental scanning promising, project consistance, management implementation, management implementation, communities implementation, of the SOMP as well as other Corporate Social Responsibility (CSI).

Monitoring and Evaluation
 For the effective implementation of the SDMP P/P/As, the following monitoring and evaluation approach are recommended:

a. Conduct amount for matther enew or evaluation process in the first four years of 50MP implementation and a terminal / Jummative evaluation by year 5. Formative reviews are meaning to track gains and gas in the implementation of programs. The results of which then provide basis for adjustments or reprogramming when needed. The summative collustion indirects directly the questions of: "Old we achieve our tergets", "In what ways did we

ATN AGGREGATS PROJECT SOCIAL IMPACT ASSESSMENT FOR 5-YEAR SDMP

achieve our targets?", and / or "Why did we not achieve our targets?". Having these review processes during and after SDMP implementation bridges the process gap between project reporting and social impact assessment with the former focusing on the outputs and the latter on impacts. What is missing is the process which help determine outcomes or intermediate results. This missing link is what this specific recommendation wishes to

- intermediate results. This missing link is what this specific recommendation wishes to address.

 b. Establish clear baselines and progress indicators. This will be the bases for tracking and summing up achievements, outcomes and impacts (both positive and negative).

 c. Set-up a multi-sectoral monitoring and evaluation team such as a Community Technical Working Group (CTWG) to ensure partnership and communities active participation a Community Technical Working Group (CTWG) shall be formed which will be composed by the GRO, representatives from the different sector from the impacted barragey such as; Barrangay Chairman, School representatives. Barrangay Health workers, and head of sectors and local organizations present in the rear. The CTWG will be tasked to assist in the formulation and review of the Annual SDMP, formulate guidelines on the submission and approval of projects for funding and implementation, actively participate in the quarterly monitoring, and attend the CTWG regular meetings to evaluate and discuss issues and concerns affecting the implementation of the PP/A.

 d. The team then leads the audit processes prior to MG8's quarterly monitoring. This mechanism promotes transparency, trust amongst stakeholders, and increases the partner beneficiars! Evel of appreciation and understanding of SDMP.

 e. Establish internal monitoring mechanisms for ComiRel. This strategy can be used as the ComiRel's way of checking the actual Villazion and effectiveness of the PPA provided particularly before the actual MGB monitoring, it is important to note that "monthly internal monitoring communities to determine the level of implementation of the PPAs in accordance with the ASDMP shall be done jointly by the CRO and representatives of the brassed into and neighboring communities to determine the level of implementation of the PPAs in accordance with the ASDMP shall be done jointly by the CRO and representatives of the ASDMP shall be though on the CRO and representatives of the ASDMP shall be conjustive by the CRO a

opportunity to open community fraggement

A. Enhance Community Fraggement

In the perspective of deliberately utilizing SDMP both as an entry point and a platform for
building a strong and active community-company relations, the company has to create venues
for discussion and consensus-building rather than as battlefields. The community relations
office have to acquire a skilled community engagement facilitators in addition to the task as
SDMP administrators. A sustained good relationship with the community will ramify ATN's
engagement in Barangay Macabud.

The following recommendations have to be considered to intensify community engagement

a. Establish an Information Education and Communication (IEC) Program containing community engagement plans and communications strategy. The objectives of which may be: to provide communities with correct, relevant and up to date information on mining laws, company's operations and its environmental and social programs.

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ESSCIAL IMPACT ASSESSMENT FOR S-YEAR SDMP

- b. Increase company presence in community and participation in community-related activities. This will help boost the company's identity and is fundamental for building community's brand awareness. This strategy will also keep the ComRel in the loop and get an accurate feel of the community towards ATN.
- Identify a pool of official company representatives who will be dealing with community leaders. This strategy may further enhance the communication line between company
- leaders. This strategy may further enhance the communication line between company and community and develop community-company relationships rather than community-specific person-based collaborations. This will mean spreading out the responsibility of company representation to several individuals instead of just one or two employees. d. Delegate qualified IEC personnel to effectively implement and represent the company in the community. This strategy may, however, require specific actions from the Human Resource Department as it might entail recruitment and hiring and/ or training of current ComRel staff.

 e. Invest time, resources and competent personnel for consensus-building. This means being deliberate in the conduct of dialogue and consultation sessions with the community through its representative groups and instructions, and in establishing feedback mechanism for community members to directly communicate with the company on matters concerning SOMP and the broader mining operations of ATN.

5. Increase SDMP budget

3. increase Suhar Pouges. To be able to have a better impact to community development, it is recommended to provide additional SDMP budget to fulfill some of the priority development needs of Barangay Macabud. The 15% of the companies projected operating expenses is the minimum budget requirement for SDMP implementation as mandated by law. It can be inferred that SDMP requirement for SDMP implementation as mandated by law. It can be inferred that SDMP requirements for SDMP implementation as mandated by law. It can be inferred that SDMP requirements for SDMP implementation as mandated by law. It can be inferred that SDMP requirement for SDMP implementation as mandated by law. It can be inferred that SDMP requirements for SDMP implementation as mandated by law. It can be inferred that SDMP requirements for SDMP implementation as mandated by law. It can be inferred that SDMP requirements for SDMP implementation as mandated by law. It can be inferred that SDMP requirements for SDMP implementation as mandated by law. It can be inferred that SDMP requirements for SDMP implementation as mandated by law. It can be inferred that SDMP requirements for SDMP implementation as mandated by law. It can be inferred that SDMP requirements for SDMP implementation as mandated by law. can contribute in achieving the following outcomes:

- Access to quality healthcare service
 Improved mobility and access to safe.
- Improved mobility and access to safe road networks
 Enhanced teaching methods and learning spaces in schools
 Enhanced capacities of institutions, groups and individuals
 Asset building for livelihoods development

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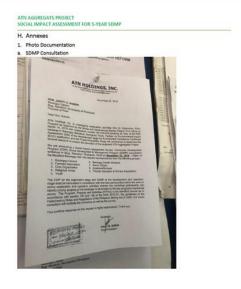
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SDMP- Credited activities for the Development of Mining Technology and Geosciences

1. Basic and applied research on mining technology, geosciences, and advanced studies related to mining, to be conducted by qualified researchers

2. Expenditures for scholars, fellows and trainees, including grants for dissertations, on mining technology and geoscience and related subjects;

3. Expenditures on equipment and capital outlay as assistance for research and educational institutions.

SDMP- Credited activities for Information Education and Communication (IEC)

1. Establishment, enhancement, and maintenance of information and publicity centers where stakeholders can access information on the performance of a mining project;

2. Publication of IEC materials on social, environmental, and other issues relative to mineral resources development and responsible mining operations;

3. Expenditures for continuing public awareness and education campaigns.

4. Entitutionalizing public awareness and education on mining technology and geosciences.

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Prepared by:
Diosdado R. Parreño Jr.

Prepared by:

Diosdado R Parreño Jr.

CDP Consultant

Telephone: +63(2) 9178883506

Email Address: jojoparreno@gmail.com

Approved by:

Deody V. Sole

Noted by:

Paul B. Salia

COO, ATN Holdings Inc.