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OIC, Office of the Regional Director
**MANDATE**

The Mines and Geosciences Bureau is the Primary government agency under Department of Environment and Natural Resources (DENR) responsible for the conservation, management, development and proper use of the country’s mineral resources including those in reservations and lands of public domain.

In pursuing the mandate, it envisions a mining and minerals industry that is not only prosperous but also socially, economically and environmentally sustainable, with broad community and political support while positively and progressively assisting in the government’s program on revitalizing the minerals industry and contribution to the general economic well-being of the nation.

**MISSION**

The MGB, as steward of the country’s mineral resources, is committed to the promotion of sustainable mineral resources development, aware of its contribution to national economic growth and countryside community development. It fully recognizes that the development of a responsive policy framework in partnership with stakeholders to govern mineral exploration, mining and investment decisions and an effective institutional structure, are fundamental requisites for the sustainable utilization of the country's mineral resources. It is adherent to the promotion of geological studies as an integral element of socio-economic development, environmental protection and human safety. Yet, it is sensitive to the known environmental impacts of mining and the need for restoration and rehabilitation of mining affected areas and the development and adoption of environmental and geo-scientific technologies.
VISION
MGB envisions a minerals industry that is not only prosperous but also socially, economically and environmentally sustainable, with broad community and political support while positively and progressively assisting in government’s program on poverty alleviation and contributing to the general economic well-being of the nation. MGB also aims to be the leading geoscience and geo-resources Bureau serving the public and nation with scientific reliability.

THRUST
To realize its vision for the industry, MGB subscribes to the core requirements of Sustainable Development as applied to mining and geoscience:

* Protection and rehabilitation of the environment;
* Promotion of social and community stability;
* Preservation of options for future generations;
* Competitive and prosperous mining industry; and
* Conduct of Geohazard Mapping and Assessment.
REGIONAL DIRECTOR’S REPORT

This year’s Mid-Year Report highlights exemplary accomplishments of the men and women of the Mines and Geosciences Bureau Regional Office No. 1, showcasing the unwavering commitment to good governance, accountability and social responsibility. Also, it stays true to the mission, vision and thrusts of the MGB anchored on Responsible Mining to address poverty alleviation, environmental protection and inclusive economic growth.

Our newly-appointed DENR Secretary Roy A. Cimatu vows to heighten awareness on protecting the environment in all forms, promoting the wise and proper use of natural resources for public good. Moreover, Undersecretary and Concurrent MGB Director Mario Luis J. Jacinto has expressed support and confidence to our new environmental chief especially in the management on Mining and Geosciences aspects. Empowering local leaders to make their communities safe from the adverse impacts of natural hazards was a primordial consideration thru the applications of learnings in the field of Geosciences.

We have done and accomplished so much so far.

As for the first few months of 2017, we have successfully sustained our productive partnerships with different sectors of the society in different cities and municipalities in the region by way of various presentations, dialogues and forums with dialogues/consultations with religious groups, civil society
organizations, academe and etc. Furthermore, we have effectively brought closer the services offered by the office to the stakeholder through mass media.

We strengthened the Information, Education and Communication (IEC) Campaign through various platforms in print, broadcast and multi-media. To serve as our “window” to the outside/digital world, the MGB regional website was properly maintained for clients.

Coordination and collaborative initiatives were likewise reflected in this year’s report as we have been linkaging with partner agencies and organizations.

Vulnerability and Risk Assessment was done in eight (8) municipalities in the province of Ilocos Sur, which includes the municipalities of Narvacan, Santiago, Sta. Lucia, Sta. Cruz and Tagudin while municipalities of Currimao and Paoay in the province of Ilocos Norte and municipality of Agoo for the province of La Union. The updating of 1:10,000m scale geohazard map of Agoo, La Union was also updated.

MGB Region I partnered with the Department of Interior and Local Government (DILG) in the conduct of a series of seminars titled “Training Workshop on Understanding 1:10,000m Scale Geohazard Maps”. Posters, VCDs, pamphlets/flyers were distributed along with geohazard maps.

The Coastal Geohazard Mapping covered the Eastern Coast of the Philippines especially those affected by the Typhoon “Yolanda”.

Hydrogeological Assessment in the thirteen (13) municipalities of the Province of Ilocos Sur was conducted. They were assessed and surveyed through well measurement and structural mapping.

As for our Mining Regulation Services, our office has issued twenty seven (27) ore transport permits, eight (8) certificate of accreditations, four (4) certificate of Environmental Management and Community Relations Record and Certificate of Exemption and sixty nine (69) Mineral Ore Export Permits. Also, we have issued one (1) Mineral Processing permit and endorsed twenty (20) permits for our “Use it, Lose it” Policy.

Twenty nine (29) Annual EPEPs and thirty one (31) Annual SHPs were evaluated and five (5) 5-year Social Development Management Programs (SDMPs) and thirty (30) Annual SDMPs were approved. A number of complaints for alleged illegal and indiscriminate quarrying were also investigated by the office.

In connection to Gender and Development activities, we have actively participated in the series of activities during the celebration of National Women’s Month 2017.

As we move on to another semester of the year, we are looking forward to positive results on achieving and accomplishing our targets through our united actions. Once more, we affirm our commitment towards sustainable development and be agents of positive change for our people’s welfare.
NARRATIVE REPORT OF ACCOMPLISHMENT
GENERAL ADMINISTRATION
AND
SUPPORT SERVICES
GENERAL ADMINISTRATION
AND SUPPORT SERVICES

General Management and Supervision

Administrative Services

Activities programmed for the semester were all satisfactorily completed which are all demand driven. Maintenance and inventory of vehicles and equipment, buildings, records management, among others, are all 100% accomplished.

The Region has fully complied with all the requirements of the conditions of Good Governance by posting the Transparency Seal on the MGB-I Regional Website which consists of the mandate and function of the Office, List of personnel, approved Work and Financial Plan, Annual Procurement Plan and PHILGEPS certification; the Citizens’ Charter was also posted in a conspicuous area in the office;
All plantilla personnel submitted their respective Statement of Assets, Liabilities and Networth (SALN) for CY 2016 in compliance to Section 8 of Republic Act No. 6713 otherwise known as “Code of Conduct and Ethical Standards for Public Officials and Employees”, updated Personal Data Sheet (PDS), Individual Performance Commitments Review (IPCR), among other as required by the Civil Service Commission.

In line with the Philippine government’s program to promote efficiency and responsiveness, MGB-I acquired the consulting services of AGF Consulting Group to adopt/establish the ISO 9001:2015 Quality Management Systems (QMS) and implement the 10 key clauses of ISO 14001:2015 of the Environment Management System (EMS) – Requirements with Guidance for Use and BS OHAS 18001 of the Occupational Health and Safety Management System.

**Housekeeping, Building and Ground Improvement Services**

Improvement of office facilities continues with the installation of office partitions, additional lightings, electrical fixtures and lines for internet connection.

With regard to the major improvement of Network Infrastructure of the Bureau, MGB-region I was the pilot region in the implementation of the Mines and Geosciences Bureau-Network Enhancement (MGBnet). The Infobahn Communications, Incorporated provided the services for
network cabling, installation of anti-virus, configuration of Virtual Private Network (VPN) and security implementation within the network.

On February 23-24, Mr. Jeffrey Ledesma from MGB Central Office conducted an assessment and validation of the installed network.
Human Resource Management and Development Service

The Human Resource Development Service aims to provide responsive and excellent service in the development and administration of effective human resource management. Various trainings were coordinated, attended/conducted for bettering the performance, gaining more knowledge of individuals and sharpening their skills. Hereunder is the list of trainings/workshops attended:

<table>
<thead>
<tr>
<th>TITLE</th>
<th>VENUE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Coordination meeting on MGB Network Enhancement (MGBNet) and Finalization of MGB 2018-2020 Information Systems Strategic Plan</td>
<td>MGB-Central Office, Quezon City</td>
<td>Jan. 12-13, 2017</td>
</tr>
<tr>
<td>2 JOGMEC Seminar on Sustainable Development and Environmental for the Mining Sector of the Philippines</td>
<td>New World Hotel, Makati City</td>
<td>Jan. 23, 2017</td>
</tr>
<tr>
<td>3 Values Orientation Workshop (VOW)</td>
<td>CSC-Region I Training Center</td>
<td>Feb. 7-8, 2017</td>
</tr>
<tr>
<td>4 Administrative Policies and Systems Workshop</td>
<td>Region IV-A, CALABARZON</td>
<td>Feb. 27-Mar. 1, 2017</td>
</tr>
<tr>
<td>5 15th Annual National Convention and 6th National Congress of the MGBEA</td>
<td>Pasay City</td>
<td>Mar. 14-17, 2017</td>
</tr>
<tr>
<td>6 Leave Administration Course for Effectiveness (LACE)</td>
<td>CSC-Region I Training Center</td>
<td>Mar. 21-22, 2017</td>
</tr>
<tr>
<td>7 22nd Regional Continuing Professional Education for Human Resource Management Practitioners</td>
<td>Kultura, Cares, Pugo, La Union</td>
<td>Apr. 4-6, 2017</td>
</tr>
<tr>
<td>8 Legal Information System (LeGIS) Users Training</td>
<td>Icon Hotel, Quezon City</td>
<td>Apr. 3-7, 2017</td>
</tr>
<tr>
<td>9 29th Annual Regional Convention of Geodetic Engineers</td>
<td>Crown Legacy Hotel, Kisad Road, Baguio City</td>
<td>May 5-6, 2017</td>
</tr>
<tr>
<td>10 Learning Event on the Roll-Out of the Agno River Basin Climate Responsive Master Plan</td>
<td>Mariveles, Bataan</td>
<td>May 16-18, 2017</td>
</tr>
<tr>
<td>11 39th Annual National Convention of Government Association of CPAs</td>
<td>Iloilo Convention Center, Iloilo City</td>
<td>May 24-27, 2017</td>
</tr>
<tr>
<td>12 Records Disposition Administration Seminar-Workshop</td>
<td>Greenleaf Hotel Gensan, General Santos City, South Cotabato</td>
<td>May 23-25, 2017</td>
</tr>
</tbody>
</table>
Likewise, the Office has strengthened its Human Resource System through regular updating and implementation of CSC Program to Institutionalize Meritocracy and Excellence in Human Resource Management (PRIME-HRM). MGB Region I is one of the only sixteen (16) Level 2 CSC accredited agencies in the Province of La Union.

**Solidwaste Management Service**

The Office strictly implements waste segregation in collaboration with Mines and Geosciences Bureau Employees Association Region I Chapter.

**Implementation of Government Procurement**

With regard to the implementation of government procurement, a weekly Bids and Awards Committee (BAC) meeting is conducted to ensure that all purchase requests, request for quotations were in accordance to Republic Act No. 9184 “An Act Providing for the Modernization, Standardization and Regulation of the Procurement Activities of the Government and for Other Purposes”. Purchase requests were also posted at the Philippines Government Electronic Procurement System (PhilGEPs).
Cashiering

The cashiering unit created an Official Receipt System to expedite the issuance of receipt to stakeholders. This system also helped in generating reports submitted to MGB-CO, Bureau of the Treasury and COA.
FINANCIAL MANAGEMENT SERVICES

The Department of Budget and Management (DBM), through the General Appropriations Act (GAA) has released P44,499,000 budget for CY 2017, P22,218,000 for Personnel Services (PS) and P22,281,000 for Maintenance and Other Operating Expenses (MOOE). A continuing appropriation of P116,916.94, P106,676.94 for Maintenance and Other Operating Expenses (MOOE) and P10,240 for Capital Outlay (CO). Additional P316,000 was released by MGB Central Office, P258,000 and P58,000 Maintenance and Other Operating Expenses (MOOE) for ICT Consultancy Services and Mine Rehabilitation Program. Thus, the total allotment as of June 30, 2017 amounted to P44,931,916.94.

As of June 30, 2017, Budget Utilization Rate (BUR 1) (Obligation/Allotment) for MOOE have reached 51% and Budget Utilization Rate (BUR 2) (Disbursement/Obligation) reached 98%.

All advances to special disbursing officers and employees were liquidated and aging of cash advances was verified by Commission on Audit (COA).

Budget and Financial Accountability Reports (BFARs) were submitted accurately and timely to MGB Central Office, COA and DBM.

The Government Accounting Manual (GAM), DBM guidelines and COA circulars were used as primary references for processing of payments to employees and creditors.
PLANNING AND POLICY FORMULATION

Monthly Physical Accomplishment Reports, Performance Information Report and Fund Utilization Reports were regularly submitted to MGB Central Office.

To improve the reporting of accomplishments of every Division as well as records filing and keeping, planning coordinators were designated in the respective divisions to effectively coordinate with the planning officer for the timely submission of reports.

Periodic assessment of accomplishments vis-à-vis target is conducted and timely feedbacks are provided to the division concern for immediate and appropriate course of action.
MINERAL RESOURCE SERVICES
Communication Plan
for Minerals Development

Awareness and Advocacy on Mineral Resources
and Geosciences (MRGS)

For the period, various presentations/ dialogues and forums were conducted to the different sectors of society to promote awareness and advocacy of the thrusts and programs of the bureau and to address mining-related activities of the region.

Hereunder are the activities undertaken for the period:

Dialogues with Sangguniang Bayan

a. LGU-Umingan, Pangasinan

Topics discussed:

1. Status of the ISAG Permit issued to Oniol II Development
2. Monitoring of Sand and Gravel Extraction
3. Proposed organization of a monitoring task force to address illegal quarrying

b. LGU- Sison, Pangasinan

Topics discussed:

1. Proposed Bued River Enhancement Project
2. Status of Sand and Gravel Extraction along Bued River
c. **LGU-Sudipen, La Union**

Topics discussed:

1. Proposed dredging of the Amburayan River
2. Status of sand and gravel extraction along amburayan river

d. **LGU-Sison, Pangasinan**

Topics discussed:

1. Presentation of the proposed Memorandum of Agreement between and among the following parties in relation to the Bued River Enhancement Project namely:
   - Office of the Governor, Pangasinan
   - Office of the Mayor, Sison, Pangasinan
   - MGB Region I
   - EMBR Region I
   - DPWH-3rd Pangasinan Engineering District

e. **LGU-Sison, Pangasinan**

Topics discussed:

1. Proposed dredging canal
2. Implications to existing permit area in the area
3. Proposed Program of the participating government agencies
Consultation meeting on the Proposed Bued River Enhancement Project in Sison, Pangasinan. It was held on May 16, 2017 at Leeza’s Restaurant, Bila, Sison, Pangasinan and hosted by SB Sison, Pangasinan. Attending the event are representatives of MGB1, EMB1, DPWH-3rd, ENRO-Pangasinan, Brgy. Officials of Sison and ISAG Permit Holders/Operators in Sison.

f. **LGU-Bauang, La Union**

Topics discussed:

1. Proposed Municipal Ordinance on Treasure Hunting
2. Status of sand and gravel extraction along Bauang River

g. **LGU-Sudipen, La Union**

Topics discussed:

1. Strengthening the role of the LGU in the promotion of Responsible Mining in the Area
2. Strengthening the system and procedure prior to the issuance of Endorsement by the Municipal Government
Dialogue/Consultation with Other groups
(Religious group, CSO, Academe, etc.)

a. Consultation with Cervantes- Isalakan, Salakniban Movement on May 12, 2017 at Cervantes Covered Court, Poblacion, Cervantes, Ilocos Sur

It was organized by the Cervantes - Ipateg, Salakniban Movement (C-ISM), the group showing strong opposition against mining and any other mining-related activities within the town's territorial jurisdiction.

Plenary speakers coming from the MGB-Region I were invited to enlighten the people of Cervantes on Mining Exploration and Mining Operation during the People’s Convention held on May 12, 2017 at the covered court, Poblacion, Cervantes, Ilocos Sur.

Engr. Renato A.D. Rimando, the Chief, Mine Management Division together with Engr. Nandry Clae B. Lagman and Engr. Christopher S. Sibayan were the representatives of the office to the convention.
b. CSOs/Brgy. Residents of Umingan, Pangasinan at Umingan Municipal Gymnasium on February 8, 2017

c. NGA’s with Cong. DV Savellano at NSCC Bath and Coffee, Vigan City Ilocos Sur on April 4, 2017

**Radio/TV Broadcast/ Guesting**

A total of nine (9) Radio/TV Broadcast/ Guesting were completed for the semester.
Capacity Building on MRGS laws, rules and regulations

Workshop/ Trainings Participated/Conducted/Coordinated

MGB Personnel to attend:

a. 16th Regional Mining Summit

The 16th Regional Mining Summit with the theme “Right Attitude towards Responsible Mining” was held on March 29-31, 2017 at Puerto de San Juan Resort Hotel, Ili Sur, San Juan, La Union.

It involved convergence of diverse approaches to mining issues with main consideration on the implementation of Best Mining Practices, community empowerment and environmental protection. Similarly it tackled the problems faced by the minerals industry in the region. It provided further the venue for the exchange of knowledge, information, ideas, and culture of members.

It was primarily highlighted by paper presentations that engaged sharing and providing the participants relevant information on a wide range of matters relating to mineral resource utilization and development. It provided conductive and lively interactions between speakers and participants and among participants themselves by sharing knowledge and experiences. It also laid the foundation for future collaborations among individuals of related fields.
The event achieved its objective of bonding together the participants to discuss and exchange ideas on how to address issues on environmental degradation, permit applications, Mining Education and Mine Rehabilitation funding. It was also a venue and an opportunity of finding greater ideas from other participants on approaches to effectively manage our environmental and mineral resources.

b. Symposium on Biodiversity and Mining;

c. 24th Mindanao Association of Mining Engineers Convention

d. Mines Adjudication and Panel of Arbitrators 5th Seminar Workshop on Mining Conflicts/ Dispute Resolution on May 22-26, 2017 at Icon Hotel, North Edsa, Quezon City

The Workshop has the theme: “Alternative Dispute Resolution: A Catalyst for Change in Dispute Resolution on Mining Conflict”

It was attended to orient the Members of the Panel of Arbitrators and the Mines Adjudication Board of the Legal Information System (LegIS), an innovation under the MGB ISSP (Network Integration Project) in line with the transparency direction of the government to finalize the Proposed Revised Rules on Pleading, Practice and Procedure before the Mines Adjudication Board and the Panel of Arbitrators;
It was also a venue for participants to update their knowledge on the new laws, rules and regulations on mining and jurisprudence; To orient the and To formulate Alternative Dispute Resolution Principles and Procedures on Mining Cases and to draft a Memorandum Circular for the Panel defining its jurisdiction based on actual cases decided.

LGUs and other Stakeholders

1. 16th Regional Mining Summit


The participants were seventy two (72) Police Commissioned and Non-Commissioned Officers of the Philippine National Police, Ilocos Norte Police Provincial Office, Barangay Captains and members of Provincial Quarry Council.

The seminar was carried out basically to equip the police officers and local government officials with sufficient knowledge and information specifically on the provisions of the Mining Law specifically on the transport of minerals and mineral products. As to the personnel who are authorized to effect arrests and confiscation/seizures, Sec. 118 of DAO 2010-21, s. 2010, provides.

3. Regional Law Enforcement Coordinating Council (RLECC) Seminar on Environmental Law, Rules and Regulations on June 29, 2017 at DENR Conference Hall, Sevilla, City of San Fernando, La Union.
For Small Scale Miners

1. 16th Regional Mining Summit


Conduct of IEC on June 21, 2017 at the Multi-purpose Hall of Brgy. Dilavo, Pasuquin, Ilocos Norte. The topic presented was on update of the petition of the Barangay for their Minahang Bayan and the process flow of approval for a Declaration of Minahang Bayan and issuance of a Small Scale Mining Contract.
Generation/Publication/Dissemination of Information and IEC Materials:

a. MGB-1 Website [www.region1.mgb.gov.ph](http://www.region1.mgb.gov.ph) is being maintained by the Office for better and easier access of clients to the services being offered by the Office.

b. Thirteen (13) articles posted on the Website.

c. Two (2) IEC materials were produced and one hundred (100) were reproduced and distributed during fora, conferences, dialogues and meetings. Some were requested by walk-in clients.

d. Forty four (18) Statistical Reports were prepared and submitted to MGB-Central Office.
e. Twelve (12) updating of tenement maps which is done on a bi-monthly basis.
f. Eighteen (18) MRGS reports were prepared. These are the databases of the Mining Tenement Statistics Report, SHES Database Management, Mining Tenement Database, Mine Rehabilitation Fund Report.

National Linkages

Six (6) Linkages were coordinated for the reporting period, namely:

1. Attendance to Regional Budget Review and Consultation

2. Attendance to Environment and Natural Resources Sectoral Committee Meeting (ENR SECOM)

3. Linkages coordinated with the Office of Civil Defense re: holding of earthquake drill

4. Attendance to DENR Regional Management Conference

5. Attendance to hearing of the Committee Laws and Ordinances of
the 9th Sangguniang Panlalawigan

6. Linkages coordinated with the Office of Civil Defense on the one day Incident Command System Executive Course for Head of Agencies
Geosciences Development Services

Geohazard Survey and Assessment

Vulnerability Risk Assessment and
Updating of 1:10,000 Scale Geohazard Maps

For the first semester, a total of eight (8) municipalities accomplished for the Vulnerability and Risk Assessment. These include the municipalities of Narvacan, Santiago, Sta. Lucia, Sta. Cruz, and Tagudin in the province of Ilocos Sur, Currimao and Paoay in the province of Ilocos Norte, and Agoo, La Union. Updating of the 1:10,000 scale geohazard maps were also conducted along with the vulnerability and risk assessment.

This is in line with the government’s effort to determine the potential harm or loss a city or municipality may suffer as well as its capacity to anticipate, cope, and recover from the impacts of various hazards. The assessment particularly aims to determine elements, i.e. objects, building facilities, population/people, economic activities, public services, environment and cultural heritage, that may be adversely affected by flood and rain-induced landslide phenomena.

Interview with the barangay officials of Santa Fe and San Agustin Sur, Agoo, La Union.
The said assessment is composed of two components, namely data gathering and GIS analysis. During the data gathering, barangay officials and residents were interviewed to determine the hazards experienced in their respective barangays and the affected constituents. Geographic coordinates of critical infrastructures, i.e. barangay hall, medical clinics, schools, and bridges, were recorded as well. Data gathered are then analysed using ARCGIS to generate exposure maps which may be utilized for the municipality’s comprehensive land use planning and disaster and risk management programs.

Ms. Vilma A. Vecino, Supervising Geologist of MGB RO1, assessing a flood prone area in Patiqui, Ilocos Sur.

A resident of San Vicente Sur, Agoo, La Union showing the flood height experienced in Sector 1 during heavy rains.
Sub-surface Assessment

Karst Subsidence Mapping and Hazard Assessment was conducted in the City of Alaminos, province of Pangasinan. The main objective of the said survey and assessment is to identify and locate existing sinkholes as well as to delineate areas of possible sinkholes, in order to produce sinkhole inventory and Karst subsidence susceptibility map. It also aimed to increase awareness on sinkholes and other Karst subsidence hazard, and to issue threat advisories to LGUs and recommend possible prevention and mitigation relative to the hazard.

Using satellite images – IFSAR (Interferometric Synthetic Aperture Radar) Interpretation, Geologic and Geomorphologic information combined with anecdotal accounts from the locals, and conducting of Ground Penetrating Radar survey, personnel from the Geosciences Division was able to determine the location of existing sinkholes and surface collapse/subsidence susceptibility of the study area.
Geohazard IEC Materials Dissemination

IEC materials like maps (965), posters (716), VCD (45), and pamphlets/flyers (894) were also distributed. Likewise, geohazard maps with a scale of 1:10,000m were uploaded in the website. Re-issuance of advisories was also made to municipalities and cities in the region.

Conduct of IEC to LGUs

For the period, the Mines and Geosciences Bureau Regional Office No. 1, in partnership with the Department of Interior and Local Government (DILG), conducted a seminar entitled “Training-Workshop on Understanding 1:10,000 Scale Geohazard Maps to a total of 622 barangays in the Province of Pangasinan and Ilocos Sur.

It aims to equip the local government leaders with knowledge and skills on the use of geohazards maps, a crucial component in disaster and risk reduction and management.
The participants consist of the barangay and municipal officials of the different barangays in the province of Pangasinan and Ilocos Sur. It covered discussions on landslide, flood, and coastal geohazards. It was followed by a workshop on understanding 1:10,000m scale geohazard maps and was highlighted by the distribution of barangay geohazard maps to the abovementioned municipalities.

Ms. Marie Rose B. Aguda, a geologist of MGB R01, attending to queries and concerns of the participants regarding the 1:10,000m scale geohazard map
Series of lectures were also presented/conducted, namely:

1. Technical Assistance in the conduct of Geo Resistivity Survey Training (Instrumentation and Data Interpretation) for the Technical Personnel of MGB Regional Office VII - Cebu last March 6-11, 2017;

2. Lecture on Geohazard Map (GMAPs) during the Local Climate Change Orientation / Workshop by the Municipality of Santol, Province of La Union last March 17-18, 2017; and

3. Seminar on the Establishment and Management of Sanitary Landfill participated by the MENRO in all the Municipalities of the Province of Ilocos Sur last April 21, 2017.
Coastal Geohazard Mapping and Assessment

As per Special Order No. 2017 – 61, issued on April 20, 2017, personnel from central office and certain regional offices were authorized to conduct 1:10,000m scale coastal geohazard assessment and mapping along the eastern coast of the Philippines and areas affected by typhoon Yolanda.

The MGB RO1 Coastal Geohazard Survey Team accomplished three (3) municipalities within the Province of Catanduanes, namely: Pandan (May 2017), Caramoran (May 2017) and San Andres (June 2017).

The Coastal Geohazard Mapping and Assessment Program was undertaken to be able to assess the hazards present on the coastal community, as well as to provide and recommend appropriate mitigating measures to address the problem. This will provide the public with the information on the susceptibility of their coastal areas to erosion or accretion. This program aims to deliver significant information to the policy makers and the public regarding the risks their community faces. Thus, helping the community enhance their preparedness, response, resilience and to minimize the adverse impacts of these events. The output of this fieldwork may be incorporated in the creation of land use and development plans of the affected communities.

The methods used in the survey consist of Anecdotal Data Gathering, Beach Profiling and Shoreline Mapping.
Interview of the long-time residents in the area is conducted to obtain historical accounts regarding coastal flooding, coastal erosion and accretion, and coastal geohazard occurrences in the area, such as tsunami or storm surges.

**Historical data gathering.** Long-time residents residing along the coast were the ones interviewed. The questions were about the hazards such as storm surges, erosion/accretion, tsunamis, that they experience in the community and their observation of the beach area.

*Beach profiling* is conducted to survey the shape of the beach, compare coastlines in different survey area and investigate seasonal changes in the beach profile.
Profile of the beach area using slope height and slope angle was attained by the means of a meter tape, for length measurement, and two ranging poles for horizon sighting. This method aims to compare coastlines in different assessment locations.

Shoreline mapping was done using the hand-held Global Positioning System (GPS) unit while tracking the present water line. The newly acquired GPS data will be compared with those from the old NAMRIA topographic map, which were gathered during the 1950's.

Initial threat advisories and progress report were issued to the accomplished municipalities and their respective barangays. The advisories inform the barangays of their susceptibility rating and contains the necessary recommendations applicable to their area.
Geologic Mapping
The conduct of 1:50,000 scale geologic quadrangle mapping within the CALABARZON Region was prioritized for the year. This undertaking is one of the government’s efforts to produce and complete the geological maps of the CALABARZON Region. These maps are important as base maps for other geological surveys (i.e. geohazards, hydrogeological and other geological resources) and can be used for land use and development planning of the Local Government Units (LGUs).

In line with this, a special order no. 2017-09 was issued on February 1, 2017 authorizing the conduct of geologic quadrangle mapping in regions CALABARZON and V by certain MGB Regional Offices (ROs). The geological quadrangle mapping team of MGB RO1 was assigned in Atimonan, Perez, Unisan, Lucban and Mauban Quadrangle in the Province of Quezon.
For the period, municipalities of Atimonan and Mauban in Atimonan Quadrangle and municipalities of Perez and Alabat in Perez Quadrangle were completed. Field data were collected through tape-compass or pace-compass traverses in streams, mountains and along the roads. GPS, Brunton compasses, measuring tape, sample picks, and rock identification kit were used to get a detailed description and composition of the outcrops encountered during the fieldwork. A 1:50,000 topographic map from the National Mapping and Resource Information Authority (NAMRIA) was used to plot locations of the outcrops.

Photo showing rock sampling on the outcrops found in the target area.
Groundwater Resources and Vulnerability Assessment

HYDROGEOLOGICAL ASSESSMENT: PROVINCE OF ILOCOS SUR

The whole province of Ilocos Sur was the targeted area for Groundwater Resource and Vulnerability Assessment this year.

For the semester, a total of thirteen (13) municipalities of Ilocos Sur were assessed and surveyed through well measurement and structural mapping these are the municipalities of:

1. Lidiidda
2. Banayoyo
3. Burgos
4. Sta. Lucia
5. Galimuyod
6. Salcedo
7. Gregorio del Pilar
8. Sigay
9. Suyo
10. Alilem
11. Sugpon
12. San Emilio
13. Cervantes

The fieldwork was done to assess the groundwater resource potential of the area and to assist the local government units in delineating areas feasible for the development of groundwater resource for the consumption of its populace.

The survey conducted primarily consists of geological mapping and water level measurements of the pump/dug wells in the area. The static water level of each well is used to generate a piezo metric map by means of software called Surfer. This map will show the delineated areas with groundwater resource potential.
Photos above show the hydrogeological assessment survey team doing well depth measurement of a pump well at Barangay Carcarabasa (left) and water quality test at Poblacion Sur (right), all in the municipality of Lididda, province of Ilocos Sur.

Photos above show the measurement of strike and dip of a roadcut structure (left) at barangay Alfonso and GPS reading of a antiform (right) at barangay Dapdappig, all in the municipality of Gregorio del Pilar, Ilocos Sur.
Photos above show the GPS reading of a hydroelectric power plant (left) at barangay Amilongan, Alilem, Ilocos sur. The photo on the right shows the plotting of the area to the topo map using the GPS data.

Photos above show structural measurement of strike and dip and GPS reading at barangay Kalumsing (left) and barangay Cabaroan (right), all in the municipality of San Emilio, Ilocos Sur.
Miscellaneous Geological Services

A total of Fourteen (14) Geological Investigations were conducted by the Office for the 1st semester for various purposes:


2. Geological Site Scoping on the proposed site of River View States Subdivision located at De Venecia Road, Brgy. Pantal, Dagupan City, Pangasinan (February 8-10, 2017)

3. Geological Assessment on the proposed site of Sanitary landfill in the Municipality of Tagudin, Province of Ilocos (March 15-17, 2017)

4. Follow-up Geologic Investigation at Northern Luzon Heroes Hill, Santa, Ilocos Sur (April 4-6, 2017)

5. Geological assessment on the proposed sanitary landfill site located at the Barangay Tanap, Municipality of Burgos, Province of Ilocos Norte (April 4-7, 2017)
6. Technical assistance in the conduct of Water Quality Assessment in line with the wetlands Assessment in Matangra Lake, in Burgos Ilocos Norte (April 4-7, 2017)


10. Geological Site Scoping on the proposed sanitary landfill site located at the Municipality of Sarrat, Province of Ilocos Norte (May 8-10, 2017)

11. Geological Site Scoping (GSS) on the proposed Sanitary Landfill Site located at the Municipality of Tayug, Pangasinan (May 10-12, 2017)


MINING REGULATION SERVICES
**Mining Regulation Services**

**MINERAL LANDS ADMINISTRATION**

**Mineral Investment Promotion Program**

**Issuance of Permits/Contracts**

The Office issued twenty seven (27) Ore Transport Permits, eight (8) Certificates of Accreditations, four (4) Certificate of Environmental Management and Community Relations Record and Certificate of Exemption and sixty nine (69) Mineral Ore Export Permits (MOEP). *(Please see Performance Information Report for the list)*

**“Use It, Lose It” Policy**

In compliance to the Department Memorandum Order No. 2010-04 “*Reforms in the Department Mining Tenement System*”, which directs the Bureau to expedite the grant of mining contracts and permits, cleanse and process all pending mining applications and strengthen all compliance requirements, the Office have issued one (1) Mineral Processing Permit and endorsed twenty (20) permits.
## Permit Endorsed

<table>
<thead>
<tr>
<th>Tenement ID</th>
<th>Tenement Holder</th>
<th>Date Endorsed</th>
</tr>
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<tbody>
<tr>
<td>1 AMPP 000021</td>
<td>Isla Verde Mining &amp; Dev. Corp.</td>
<td>02-20-17</td>
</tr>
<tr>
<td>(MGB CO)</td>
<td></td>
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<tr>
<td>2 06-007 (IPA-144)</td>
<td>Ramoncito Tan</td>
<td>05-15-17</td>
</tr>
<tr>
<td>3 06-006 (IPA-143)</td>
<td>Melchor S. de Leon</td>
<td>05-15-17</td>
</tr>
<tr>
<td>4 06-004 (IPA-141)</td>
<td>Flor T. Lagang</td>
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<td>5 06-005 (IPA-142)</td>
<td>Joseph L. Chua</td>
<td>05-15-17</td>
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<tr>
<td>6 06-008 (IPA-145)</td>
<td>Mae Ann L. Chua</td>
<td>05-15-17</td>
</tr>
<tr>
<td>7 06-011 (IPA-153)</td>
<td>Edison C. Tiu</td>
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<td>8 06-018 (IPA-160)</td>
<td>Alma L. Kho</td>
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<td>9 06-017 (IPA-159)</td>
<td>Alice L Chua</td>
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<tr>
<td>10 06-012 (IPA-154)</td>
<td>Maechellenie P. Café</td>
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<tr>
<td>11 06-013 (IPA-155)</td>
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<td>12 06-010 (IPA-152)</td>
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<tr>
<td>13 06-007 (IPA-144)</td>
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<td>14 06-026 (IPA-163)</td>
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<td>15 06-027 (IPA-165)</td>
<td>Adoracion M. Ceperiano</td>
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<td>16 06-017 (IPA-159)</td>
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<td>17 06-015 (IPA-157)</td>
<td>Betty Ngo Chua</td>
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<td>18 06-022 (IPA-161)</td>
<td>Omnico Natural Resources, Inc.</td>
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<td>19 06-013 (IPA-155)</td>
<td>Joan B. Palanog</td>
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<tr>
<td>20 06-018 (IPA-160)</td>
<td>Alma L. Kho</td>
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<tr>
<td>21 06-010 (IPA-152)</td>
<td>Erna C. Tiu</td>
<td>05-15-17</td>
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</table>
Isla Verde Mining & Dev. Corp. has applied for a Mineral Processing Permit (MPP) in July 12, 2015. And in February 20, 2017, the application was endorsed to the Mines and Geosciences Bureau (MGB)-Central Office. Finally, in June 27, 2017, this office has approved and registered the permit of said MPP of IVMDC.

Signing of approved Mineral Processing Permit of Isla Verde Mining and Dev’t Corp on June 27, 2017. Terms and conditions of the MPP were also discussed with the personnel from MGB and IVMDC. (in photo: RD Socrates G. Gaerlan, Engr. Renato A.D. Rimando and representatives from IVMDC Mr. Teng Po-Wei [a.k.a Paul Teng], Ms. Rosana Santos and Mr. Jeff Lin)
Approval of SHES Program

For the semester twenty nine (29) Annual EPEPs and thirty one (31) Annual SHPs were evaluated and subsequently issued Certificates of Approval; and five (5) 5-year Social Development Management Programs (SDMPs) and thirty (30) Annual SDMPs were approved. Two (2) Quarterly Monitoring Reports for National Greening Program were submitted to Central Office.

The region issued one (1) “show cause” letter to R & D Properties for non-submission of Annual SHPs.

Assistance to P/CMRB/LGUs and Stakeholders

The Provincial Mining Regulatory Boards of all the four provinces in the region are fully operationalized. A total of twenty four (24) regular Provincial Mining Regulatory Board meetings were attended/conducted by the office for the period in review.

This is to monitor the compliance of Quarry and Commercial Sand and Gravel Permit Holders in their applied areas and to address issues and concerns arising in the operations of PMRB. Likewise, two (2) PSSM/Quarry Sites were inventoried and this activity is conducted in a quarterly basis.
Minahang Bayan Sites Identified

In connection with the petition for the declaration of an area as Minahang Bayan by Mr. Rogelio S. Garaño, personnel from the office conducted a field assessment on June 20-23, 2017 within the territorial jurisdiction of Barangay Dilavo, Pasuquin, Ilocos Norte.

The petitioned area is situated at Brgy. Dilavo, Municipality of Pasuquin, Province of Ilocos Norte. It is within the intersections of geographic coordinates 18°26′15″N to 18°26′45″N latitudes and 120°37′00″E to 120°37′30″E longitudes.

The exposed silica deposit found within the petitioned area. (18°26′21.1″N and 120°37′14.5″E) Outcrop of chert deposit exposed within the petitioned area. (18°26′27.0″N and 120°37′13.5″E)
Mineral Industry Development Program

Monitor/Audit of Approved Mining Contracts/Permits and SHES Programs

The Monitoring and Technical Services Section’s principal function is to undertake monitoring of disposition and utilization of mineral lands and resources. Compliance monitoring of existing Contracts and Permits are primarily based on the terms and conditions with emphasis on the implementation of the approved work program, submission of mandated reports, and payment of all appropriate taxes and fees. For the period in review, the Section has audited a total of twenty five (25) contracts and permits. These include 11 MPSA Contracts, 1 Exploration Permit, 4 Mineral Processing Permits, and 9 Industrial Sand and Gravel Permits (Please see Performance Information Report for the list).
The project site covered by Mineral Processing Permit No. 12-004 of Isla Verde Mining and Development Corporation (IVMDC) located at Barangay Rancho, Santa, Ilocos Sur was visited to check on their compliance to the earlier issued Suspension Order. For the joint MTSS-MSESDD team to reach the area, they had to ride a motor boat from Barangay Tamorong, Caoayan to the island barangay of Rancho. The operation of IVMDC was suspended in 2013 pursuant to MICC Resolution No. 4.
Integrated Social, Health, Environment and Safety (SHES) Monitoring

For the First Semester, a total of forty (40) contracts/mining permits were monitored relative to the physical and financial compliance of their approved Environmental Enhancement and Protection Programs (EPEP) /Annual Environmental Enhancement and Protection Programs (AEPEP), Approved Annual Safety and Health Program (ASHP), 5-year Social Development and Management Program (SDMP) Annual Social Development and Management Program (ASDMP)

The monitored areas involved two (2) Exploration Permit, one (1) Financial and/or Technical Assistance Agreement, twelve (12) Mineral Production Sharing Agreement, four (4) Mineral Processing Permit and twenty one (21) Industrial Sand and Gravel Permit. (Please see Performance Information Rating for the list).

Industrial sand and gravel operations inside the ISAG permit area of Mr. Romeo Chan situated at Santa, Ilocos Sur.

Micro-mills at the Milling Plant of the Heirs of Elias E. Olegario located in Barangay Malabobo, Mangatarem, Pangasinan.
Implementation of wearing PPEs

Provision of Safety Signage

SDMP assisted project of Holcim Mining and Development Corporation in cooperation with the LGU of Brgy. Pitpitac, Balaoan, La Union (Construction of Barangay Hall).

SDMP assisted project of Northern Cement Corporation - construction of covered court in Brgy. Inmalog, Sison, Pangasinan. The structure provides convenience for the residents mainly during community gatherings and celebrations.
Monitoring on Mining Forest Program and/or National Greening Program:

One (1) Consolidated Semi-Annual Mining Forest Program (MFP) Report and two (2) Consolidated Quarterly National Greening Program (NGP) Reports were submitted for the period in review. The said reports belonged to Holcim Phils, Inc., Northern Cement Corporation and Heirs of Elias E. Olegario which are holders of Mineral Production Sharing Agreement Contracts located in Bacnotan, La Union and Agno, Pangasinan, Sison, Pangasinan and Mangatarem, Pangasinan, respectively.

Nursery No. 1 of the Heirs of Elias Olegario located within the Plant Site in Mangatarem, Pangasinan. Settlings are used in the reforestation of said Company both for its Mining Forest and National Greening Programs.
Strengthen Multi-Partite Monitoring System

A total of nine (9) Multi-Partite Monitoring Teams with corresponding MRFCs in the region under MGB issued permits are fully operationalized to ensure and check the performances and compliances with the approved EPEP/AEPEP of mining/quarry projects.

MMT-ISAG-LU conducting compliance monitoring along Bued River in Rosario, La Union

MMT Monitoring at ISAG area of San Hai Aggregates and Construction Corporation. Systematic mode of quarrying was noted.
Investigation of Complaints/Cases/Conflicts

Complaints for alleged illegal and indiscriminate quarrying were promptly investigated by the office.

1. Allegedly Operating without Mining Permit and Destroying the Adjacent Agricultural Lands and Fishponds with the Spilling and Dumping of Tailings and Hazardous Wastes, thus, Affecting the Marine Life and Aquatic Resources;
2. Alleged extensive quarrying along a River located between Brgy. Guisguis, Sta Cruz Zambales and Brgy. Potol, Pangasinan;
3. Alleged Illegal Mining in Brgy. Pao Norte, City of San Fernando, La Union;
4. Alleged Illegal Excavation in Brgy. Bacani, Rosario, La Union;
5. Complaint against Multicon Mines and Metal Corp;
6. Request guidance on permission to Haul Remaining Feldspar Mineral of NMII;
7. Alleged excavation activity inside a private property in Sitio Sisi, Daking, San Gabriel La Union

Conduct of investigation on June 15, 2017 on the complaint of illegal excavation activity inside the private property of Mr. Manuel Balanon located in Sitio Sisi, Brgy. Daking, San Gabriel, La Union.
8. Alleged Gold Mining / digging activity in Banuar, Laoac, Pangasinan causing damage to property

9. Reported Black Sand Mining Operation within the vicinity of Damortis, Sto. Tomas, La Union

Under the **Panel of Arbitrators**, two (2) cases/complaints were investigated.

1. Petition for Cancellation of the issuance of CSAG Permit to Rachelle Marie Martin

2. Dispute over areas subject of Mining Rights

**Anti-Illegal Mining**

Based on the investigation of MGB-I technical personnel and having found engaging in the processing of minerals without the necessary permit, one (1) Cease and Desist Order (CDO) was issued to Multicon Mines and Metals Corporation/ Golden Peak Mining Corporation located in Brgy. Barlo, Mabini, Pangasinan on April 17, 2017.
GENDER AND DEVELOPMENT
Gender and Development

WOMEN’S MONTH

In observance of the 2017 Women’s Month Celebration with the theme “We Make Change Work for Women”, the Mines and Geosciences Bureau Regional Office No. I, in coordination with the Department of Environment and Natural Resources and Environmental Management Bureau Regional Office No. I conducted activities for the whole month of March 2017.

On March 6, 2017, there was a live streaming of Zumba in front of the DENR building followed by the singing of “One Billion Rising” during the Monday program.
An inter-agency parade organized by RAGE was participated by the employees wearing their pink uniforms from the City Plaza to DMMMSU-MLUC, followed by a Zumba and a short program on March 10, 2017.

On March 13, 2017 was the opening of Exhibit with Hon. Mary Jane Ortega as the guest of honor and speaker. MGB has two (2) booths where women entrepreneurs sold ice candies, rhinestone arts, peanuts and plants.
On March 14, 2017, there was a Forum on Livelihood Development for Women which was held at the DENR Conference Room. MGB invited the Northern Cement Corporation (NCC) represented by Mr. Artven Corpuz to present their Social Development and Management Program (SDMP). Other NGAs and GOCC were invited as speakers like the Department of Agriculture, Department of Trade and Industry and Department of Science and Technology to present their livelihood programs and Land Bank of the Philippines for business loan offers.

In line with the culmination program of the Women’s Month celebration, a gift giving was conducted at Barangay Barlo, Mabini, Pangasinan on March 31, 2017. This activity is a product of a collaborated effort of the PENR Office, and CENRO Alaminos City, in partnership with DENR Region I, Philippine Red Cross, Technical Education and Skills Development Authority (TESDA), Rotary Club of Dagupan, and the Local Government Unit of Mabini, Pangasinan.

Ms. Febe Carino, Administrative Officer V represented MGB-I by giving clothes and soaps to the affected families for the closure of Barlo Mines Corporation.
IEC

To increase geohazard awareness and disaster preparedness among women in barangays, it was highlighted in the letter of invitation the presence of at least two (2) women representatives from each barangay to participate in the Workshop for Geohazard Assessment held at Pangil Beach Resort, Currimao, Ilocos Norte on June 29, 2017. A total of two hundred GAD brochures were distributed during workshop.
OFFICE OF THE REGIONAL DIRECTOR
The Office of Regional Director shall implement the pertinent laws, policies, rules and regulations and programs; exercise the management functions of planning, organizing, directing and controlling; undertake Information, Education and Communication campaign; and perform such other duties and functions as may be provided by law or delegated by the Director.

FINANCE AND ADMINISTRATIVE DIVISION
The Finance and Administrative Division (FAD) shall provide general administrative services pertaining to human and financial resources and property and records management.

GEOSCIENCES DIVISION
The Geosciences Division (GD) shall undertake land and marine geoscientific surveys (including mineral exploration, geological mapping, geohazard assessment, groundwater resource exploration and vulnerability assessment, and engineering geological and geo-environmental studies) and provide geological laboratory and information services.

MINE MANAGEMENT DIVISION
The Mine Management Division (MMD) shall undertake initial evaluation of mining and mining-related applications, monitoring of the disposition and utilization of mineral lands and resources, and survey of mineral lands.

MINE SAFETY, ENVIRONMENT AND SOCIAL DEVELOPMENT DIVISION
The Mine Safety, Environment and Social Development Division (MSESDD) shall conduct the evaluation and monitoring of implementation of programs and investigate incidents/complaints on mine safety and health, environmental management and social development.
PHYSICAL ACCOMPLISHMENT vis-à-vis FUND UTILIZATION REPORT