SERVICES AND PROGRAMS

**MINE SAFETY AND HEALTH, ENVIRONMENTAL MANAGEMENT AND SOCIAL RESPONSIBILITIES**
- Mine Environmental Safety and Health
- Environmental, Safety and Occupational Health Management
- Assessment of Water Quality of Major River Systems and other areas
- Integrated SHES Monitoring (AEPEP, SHP, EWP, SDMP, MPP)
- Processing/Issuance of Permits and Applications (Safety Engineer/Mech/Elec)
- Assessment/Investigation on Safety and Health Environment and Socials (SHES)-Related Issues and Complaints
- Redevelopment and Rehabilitation of Abandoned/Inactive Mines
- National Greening Program of the Minerals Industry
- Sustainable Advocacy of SHES Aspect

**NATIONAL SMALL-SCALE MINING DEVELOPMENT PROGRAM (NSSMDP)**
- Assistance to P/CMRBLGU and other stakeholders
- Provision of Technical Assistance
  - Area Clearance for SSM
  - Verification of Potential People’s Small Scale Mining Area (PSSMA)
  - Communal Quarry Areas (Sand And Gravel)

**GEOSCIENCES DEVELOPMENT AND SERVICES**
- Geohazard Survey Programs and Assessment
- Geologic Mapping
  - Quadrangle Mapping
  - Provision of Laboratory Services
- Groundwater Resources Assessment

For more information, please contact:

Department of Environment and Natural Resources
**Mines and Geosciences Bureau**
Regional Office No. 1
3/F Lee Bldg. Lingsat, San Fernando City, La Union
E-mail Address: mgbro1@yahoo.com
Website: www.denr-mgb1.org
Tel. No. (072) 607-2686 and 700-4453/4992
Fax No. (072) 242-2777
The Mines and Geosciences Bureau (MGB) is the primary government agency under the Department of Environment and Natural Resources (DENR), responsible for the sustainable exploration, development, utilization and conservation of all mineral resources in public and private lands within the territory and exclusive economic zone of the Republic of the Philippines.

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.

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.

DIRECT IMPACTS OF MINING (LGU PAYMENTS IN MILLION PESOS)

<table>
<thead>
<tr>
<th></th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
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</thead>
<tbody>
<tr>
<td>Ilocos Norte</td>
<td>6.31</td>
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<td>13.93</td>
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<td>Ilocos Sur</td>
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<td>6.2</td>
<td>4.7</td>
<td>6.89</td>
<td>4.42</td>
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<tr>
<td>La Union</td>
<td>8.38</td>
<td>7.9</td>
<td>8.7</td>
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<td>10.33</td>
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<tr>
<td>Pangasinan</td>
<td>9.45</td>
<td>11.2</td>
<td>14.57</td>
<td>18.34</td>
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SERVICES AND PROGRAMS

MINERAL LANDS ADMINISTRATION

MANAGEMENT OF MINING TENEMENTS AND PERMITS
- Issuance of Mining Rights/Contracts/Permits
- Mineral Lands Survey Services
- Action on Mining Complaints/Conflicts/Oppositions
- Monitoring of Approved Mining Contracts and Permits

MINERAL RIGHTS MANAGEMENT SYSTEMS (MRMS) PROGRAM
- Mineral Rights Computerization
- Updating of Tenement Control Map

INFORMATION, EDUCATION AND COMMUNICATION CAMPAIGN
- Mineral Resources and Geosciences Information Management and Services
- One-Stop-Shop (OSS) Operation
- Strategic Mineral Information System (SMIS)
- Statistical and Investment Data
Serving as conduits for the commercial disposal of high-value multicoloured pebbles to neighboring Asian countries are MGB Accredited Trader and Dealer. There are 48 accredited dealers in the region to date.

The supply of processed aggregates to the construction industry locally and in the international markets are sourced from 60 operating sand and gravel crushing plants across the region.

The direct impact of mining activities, which is measured in the form of extraction and other fees collected by the Local Government Units (LGUs), amounted to Php 49.8 Million in 2012. In 2013, the amount of Php 47.7 Million was collected, showing a decrease of Php 2.1 Million. This was attributed to the expiration of small scale mining permits for feldspar in Ilocos Norte, limestone and clinker in Pangasinan went down due to the modification of facilities at Northen Cement Corporation, and drop in sand and gravel production in all the provinces except Pangasinan.

### REGIONAL MINERAL PRODUCTION CY 2013

<table>
<thead>
<tr>
<th></th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ilocos Norte</td>
<td>54,808.48</td>
<td>334,896.00</td>
<td>35,998.25</td>
<td>1,851,713.00</td>
<td>2,048,825.75</td>
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<tr>
<td>Ilocos Sur</td>
<td>21,929.00</td>
<td>2,048,825.75</td>
<td>1,851,713.00</td>
<td>2,048,825.75</td>
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</tr>
<tr>
<td>La Union</td>
<td>61,850.00</td>
<td>169,462.50</td>
<td>214,571.00</td>
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<tr>
<td>Pangasinan</td>
<td>65,550.00</td>
<td>448,880.00</td>
<td>471,360.00</td>
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</tr>
</tbody>
</table>

### COMPARATIVE MINERAL PRODUCTION (IN MILLION PESOS)

- Limestone
- Sand & Gravel
- Shale
- Silica
- Pebbles
- Others

### REGIONAL SITUATIONER

Ilocos Region is composed of 4 provinces - Ilocos Norte, Ilocos Sur, La Union and Pangasinan with 9 cities namely - Laoag, Batac, Candon, Vigan, San Fernando, Dagupan, San Carlos, Alaminos, and Urdaneta, 122 municipalities and 3,265 barangays.

It is situated in the northwestern part of Luzon with its provinces stretching along the blue waters of West Philippine Sea. It is bounded on the North by the Babuyan Islands, on the East by the Cordillera Provinces, on the south by the provinces of Tarlac and Nueva Ecija, and on the south west by the province of Zambales. It falls within 15° 00' 40" to 18° 00' 40" North Latitude and 119° 00' 45" to 120° 00' 55" East Longitude.

### FUNCTIONS

- **Mine Management Division.** Undertakes processing/initial evaluation of mining rights applications and manages the issuance of mining rights over mining tenements; takes charge of the operationalization of the Mineral Rights Management System; conducts mineral resources assessment of areas for Mineral Reservations and Minahang Bayan; provides technical services to other government agencies, mining contractors/permittees and general public.
- **Mining Environment, Safety and Social Development Division.** Enforces and monitors the compliance of mining contractors/permittees with the provisions of the Philippine Mining Act of 1995 and its implementing rules and regulations pertaining to development of mining community, mining technology and geosciences, IEC, mine safety and health, and environmental protection; oversees mining rights holders’ compliance to the National Greening Program; and provides staff and technical support to all the Mine Rehabilitation Fund Committees (MRFCs) and their respective Multi-Partite Monitoring Teams (MMTs).
- **Geosciences Division.** Implements the Geohazard Mapping and Assessment Program; conducts geological, geo-environmental and mineral exploration surveys; complements the Mine Management Division in the evaluation of areas to be declared as final mining areas, Mineral Reservations and Minahang Bayan; and provides geological and geo-scientific information and geotechnical services to other government agencies, mining contractors/permittees and general public.
- **Administrative and Finance Division.** Provides general administrative services pertaining to human resource management, records, property and other forms of support to the operations; and renders budgeting, cashiering and accounting services.

### NUMBER OF CITIES/MUNICIPALITIES/BARANGAY PER PROVINCE (REGION 1)

<table>
<thead>
<tr>
<th>Province</th>
<th>No. of Cities</th>
<th>No. of Municipalities</th>
<th>Barangay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ilocos Norte</td>
<td>2</td>
<td>21</td>
<td>557</td>
</tr>
<tr>
<td>Ilocos Sur</td>
<td>2</td>
<td>32</td>
<td>768</td>
</tr>
<tr>
<td>La Union</td>
<td>1</td>
<td>19</td>
<td>576</td>
</tr>
<tr>
<td>Pangasinan</td>
<td>4</td>
<td>44</td>
<td>1364</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>9</strong></td>
<td><strong>116</strong></td>
<td><strong>3265</strong></td>
</tr>
</tbody>
</table>
Region 1, being geographically situated along the coastal stretch of the West Philippine Sea and the Caraballo Mountain Ranges is endowed with rich and varied mineral resources. Over the decades, the development and utilization of these God-given wealth had brought significant economic upturn in our society.

Cement Manufacture in the region is one of the major players in terms of the industry's contribution to the Regional GDP. There are two cement plants in the region namely: a) Holcim Philippines, Inc located in Brgy. Quirino, Bacnotan, La Union and Northern Cement Corp. in Brgy. Labayug, Sison, Pangasinan. A combined production volume of 41.39 million bags valued at 2.70 billion pesos was produced in 2013 by both companies.

Metallic minerals are also found in the region. These include gold, copper, iron ore, chromite and magnetite sand. Magnetite sand is found abundantly in all the provinces of the region along with gold while copper and iron ores and chromite are found in Ilocos Norte and Pangasinan. Of the metallic minerals mentioned, a total of 23,500.00 metric tons (MT) of magnetite sand was produced valued at Php 36,974,000.00 sourced in Ilocos Norte, Ilocos Sur and La Union.

Non-metallic minerals, namely: construction sand, pebbles and decorative stones, silica quartz, natural zeolite and bentonite granules and powder, had significant increase in production. The total value of these commodities posted an amount of PHP 786,123,055.25 compared to PHP 749,637,340.00 in 2012 or 5% increase. Aside from the local market, construction sand are exported to Japan and Singapore, while Luna pebbles and decorative stones to South Korea, Malaysia, Thailand, Hawaii, Florida and Japan.