

April 4, 2005

**DENR ADMINISTRATIVE ORDER**  
**No. 2005 – 08**

**SUBJECT : PROVIDING FOR NEW FEES AND CHARGES FOR  
VARIOUS SERVICES OF THE MINES AND  
GEOSCIENCES BUREAU**

Pursuant to Executive Order No. 197 dated 13 January 2000, the following fees and charges for services rendered by the Mines and Geosciences Bureau (MGB) are hereby revised and/or updated:

**Fees and Charges**  
(in Philippine Pesos, unless  
otherwise provided)

**1.0 MINING RIGHTS**

1.1 Application for/Approved Exploration Permit (EP), Mineral Agreement (MA), Financial or Technical Assistance Agreement (FTAA), Temporary Exploration Permit (TEP), Special Mines Permit (SMP), Mining Lease Contract (MLC), Special Exploration Permit (SEP), Government Seabed Quarry Permit (GSQP) or Government Dredging Permit (GDP), including renewal application as the case may be:

1.1.1 Filing/Renewal Fee (including renewal of Exploration Period of MA or FTAA )

- a. Application for EP and MA..... 60.00/Hectare or a fraction thereof but not less than 50,000.00/Application
- b. Application for TEP, SMP, SEP, ..... 20.00/Hectare or a fraction thereof but not less than 50,000.00/Application  
GSQP or GDP
- c. Application for FTAA ..... 60.00/Hectare or a fraction thereof but not less than 100,000.00/Application

1.1.2 Clearance Fee .....  
5,000.00/Application

1.1.3 Registration Fee

- a. For EP, TEP, SMP, SEP, GSQP or GDP..... 5,000.00/Permit
- b. For MA .....  
20,000.00/Contract
- c. For FTAA .....  
50,000.00/Contract

1.1.4 Occupation Fee (for EP, MA, FTAA, TEP SMP, MLC)

- a. For Mineral Reservation areas .....  
100.00/Hectare  
or a fraction thereof
- b. For Non-Mineral Reservation areas .....  
75.00/Hectare  
or a fraction thereof

1.1.5	Conversion Fee	
	a. Approved Contract/Permit (from MA to FTAA/vice versa or EP to MA/FTAA, or SEP to GSQP)	100.00/Hectare or a fraction thereof but not less than 50,000.00/ Conversion
	b. Mining Application (from one form of mining application to another e.g., application for EP to MA)	10,000.00/Conversion
1.1.6	Transfer/Assignment Fee	
	a. Approved Contract/Permit EP, MA, TEP, SMP, SEP, GSQP or GDP ....	20.00/Hectare or a fraction thereof but not less than 50,000.00/Transfer
	FTAA .....	20.00/Hectare or a fraction thereof but not less than 100,000.00/Transfer
	b. Application for EP, MA, FTAA or SEP .....	10.00/Hectare or a fraction thereof but not less than 25,000.00/Transfer
1.1.7	Amendment Fee	
	a. Application for/Approved EP or MA (except reduction in applied area)	20.00/Hectare or a fraction thereof but not less than 25,000.00/Application
	b. Application for/Approved FTAA (except reduction in applied area) .....	20.00/Hectare or a fraction thereof but not less than 50,000.00/Application
1.1.8	Evaluation of Feasibility Study Report/ Environmental Protection and Enhancement Program (EPEP) .....	20,000.00/Study Report/EPEP
1.1.9	Application for Certificate of Environmental Management and Community Relations Record	5,000.00/Application
1.2	Application for/Approved Industrial Sand and Gravel or other Mining Permits under MGB Jurisdiction	
1.2.1	Filing/Renewal Fee.....	10,000.00/Application
1.2.2	Registration Fee.....	5,000.00/Permit
1.2.3	Evaluation of EPEP.....	5,000.00/EPEP
1.2.4	Clearance Fee .....	2,000.00/Application
1.2.5	Transfer .....	5,000.00/Application or Permit
1.3	Application for Small-Scale Mining Permit	
1.3.1	Filing Fee/Renewal Fee	
	a. For Individual .....	2,000.00/Application
	b. For Corporation, Cooperative, Association or Partnership .....	5,000.00/ Application

1.3.2	Transfer Fee	
a.	For Individual .....	2,000.00/Application
b.	For Corporation, Cooperative, Association or Partnership .....	5,000.00/ Application
1.4	Application for Mineral Processing Permit	
1.4.1	Filing/Renewal Fee	
a.	Projects with Investments above <b>₱500 Million</b>	50,000.00/Application
b.	Projects with Investments of <b>₱250 Million to ₱500 Million</b> .....	20,000.00/Application
c.	Projects with Investments of <b>₱250 Million and below</b> .....	10,000.00/Application
1.4.2	Transfer Fee	
a.	Projects with Investments above <b>₱500 Million</b> .....	50,000.00/Transfer
b.	Projects with Investments of <b>₱250 Million to ₱500 Million</b> .....	20,000.00/Transfer
c.	Projects with Investments of <b>₱250 Million and below</b> .....	10,000.00/Transfer
1.5	Application for Ore Transport Permit	
1.5.1	Application Fee	
a.	For Metallic .....	2,000.00/Application
b.	For Non-Metallic .....	1,000.00/Application
1.5.2	Certification Fee (for ores/minerals/mineral products less than 2 Metric Tons).....	500.00/Certification
1.6	Application for Accreditation by Traders, Dealers/Retailers of Mineral Products/By-Products	
1.6.1	Filing fee .....	5,000.00/Application
1.6.2	Renewal fee .....	2,500.00/Application
1.7	Application/Renewal Fee for Treasure Hunting or Shipwreck/Sunken Vessel Recovery Permit .....	10,000.00/Application
1.8	Registration of Miscellaneous Documents and Related Services	
1.8.1	Power of Attorney.....	200.00/Power of Atty.
1.8.2	Other Forms of Assignments/Transfer .....	1,000.00/Assignment or Transfer
1.8.3	All other Instruments Affecting Mining Rights	1,000.00/Instrument
1.8.4	Letter-Request for Certification.....	50.00/Certification
1.8.5	Request for Certified True Copy/PhotoCopy .....	40.00/Document plus 5.00/page
1.8.5	Photocopying Charge .....	2.00/page
1.9	Docketing Charges of the Panel of Arbitrators/Mines Adjudication Board	
1.9.1	For Filing Ordinary Protest, Adverse Claim, Opposition or any other Petitions .....	5,000.00/Protest, etc

1.9.2	For Filing Protest with Damages .....	10% of the total damage claimed shall be the basis for the docket fee
1.9.3	For Filing Counter-Claim, Counter-Protest or Counter-Opposition.....	5,000.00/Counter-Claim, Counter-protest, etc.
1.9.4	For Filing Counter-Claim, Counter Protest or Counter-Opposition with Damages .....	10% of the total damage claimed shall be the basis for the docket fee
1.9.5	Intervenor's Fee.....	5,000.00/Intervenor
1.9.6	Appeal Fee.....	5,000.00/Appeal
1.9.7	Motion for Reconsideration Fee.....	5,000.00/Motion
1.10 Docketing Charges of MGB		
1.10.1	For Filing an Action with MGB Regional Office	5,000.00/Case
1.10.2	For Filing an Appeal.....	5,000.00/Appeal

**Note:** Each of the Fees and Charges under **Items 1.9 to 1.10** shall be subject to PD 1856, in the amount of ..... 20.00

1.11 Application for Survey Order, Verification of Survey Returns and Field Verification Survey of Approved/ Proposed Mining/Contract/Permit Areas		
1.11.1 Application for Survey Order		
a.	Processing Fee .....	60.00/block or 81 hectares plus 25.00 for every succeeding block or a fraction thereof
b.	Projection Fee.....	120.00 for the first 100 hectares, plus 25.00 for the succeeding 100 hectares or a fraction thereof
c.	Filing Fee.....	120.00/Application
d.	Surety Bond.....	10.00/hectare but not more than 500.00
1.11.2 Verification of Survey Returns		
a.	Application Fee .....	300.00/Application
b.	Processing of Prescribed Original and Duplicate Computation Sheet of not more than 15 Stations per Sheet .....	10.00/Sheet
c.	Processing of Resubmitted (new set) Original and Duplicate Computation Sheets (w/ correction) of not more than 15 Stations per Sheet, and/or Additional Survey Returns with Field Notes and/or Computation .....	6.00/New Set provided that the minimum charge shall be 350.00 for the first resubmittal, plus 400.00 for every subsequent resubmittal.
1.11.3 Perimeter Boundary Survey		
a.	Application for/Approved MA/FTAA.....	30,000.00 for the first 5 hectares, plus 2,000.00 per hectare for the succeeding hectares or fraction thereof.

- b. Application for/Approved Small Scale Mining Permit/Contract ..... 3,000.00/hectare for the first 5 hectares, plus 1,000.00 per hectare for the succeeding hectares or fraction thereof
  - c. Application for/Approved Sand and Gravel Permit..... 3,000.00/hectare or a fraction thereof
- 1.11.4 Tie Line Survey ..... 15,000.00/Line Kilometer

**Note:** In addition to the Fees and Charges under **Items 1.11.3 and 1.11.4**, the applicant or interested party shall shoulder the transportation of MGB personnel from his/her official station to the area and return, and other incidental expenses that may be incurred. The precision of survey control shall be in accordance with the Land Surveys Manual of the Philippines.

- 1.12 Evaluation of Mining Projects of Companies Applying for Registration/Licensing of Securities as referred by the Securities and Exchange Commission ..... 5,000.00/Application
- 1.13 Application for/Renewal of Explosives and Other Related Permits
  - 1.13.1 License to Possess Explosives - Purchaser's ... 1000.00/Application
  - 1.13.2 Amendment to License to Possess Explosives. 500.00/Application
  - 1.13.3 Purchase/Transfer/Import Explosives ..... 300.00/Application
  - 1.13.4 Foreman's License..... 500.00/Application
  - 1.13.5 Temporary Safety Inspector's Permit ..... 1,000.00/Application
  - 1.13.6 Temporary Safety Engineer's Permit ..... 1,000.00/Application
  - 1.13.7 Permanent Safety Inspector's Permit ..... 1,500.00/Application or renewal
  - 1.13.8 Permanent Safety Engineer's Permit ..... 1,500.00/Application or renewal
  - 1.13.9 Alien's Local Employment..... 4,000.00/Application
  - 1.13.10 Application for Mechanical/Electrical Permit... 500.00/Plan

**2.0 GEOLOGICAL/MINING INVESTIGATION AND VERIFICATION AND OTHER RELATED SERVICE**

- 2.1 The following shall have the following charge of **₱** 2,000.00/man/day, *Provided:* That the minimum charge is **₱** 6,000.00:
  - 2.1.1 Geological, Geochemical or Geophysical Assessment/Investigation
  - 2.1.2 Verification/Evaluation of Applied or Mining Contract/Permit Area, including Special Exploration Permit, Government Dredging Permit and Government Seabed Quarrying Permit
  - 2.1.3 Verification/Field Investigation of Mining Conflicts or Other Boundary Survey
  - 2.1.4 Evaluation/Verification of Ore Stockpile, Umpiring of Ore Shipment or Mineral/Ore Reserves
  - 2.1.5 Verification/Field Investigation of Mineral Processing Plant
  - 2.1.6 Field Assessment/Verification for Proposed Treasure Hunting or Shipwreck/Sunken Vessel Recovery Activities
  - 2.1.7 Verification/Audit of Explosives Magazines and Blasting Schemes
  - 2.1.8 Inspection of Mechanical/Electrical Installation

- 2.1.9 Conduct/Field Validation of Geological Site Scoping (GSS)/Geological Verification (GV)/Geohazard Identification Survey (GIS)
- 2.2 The following shall have the following charge of **₱** 2,000.00/man/day, *Provided:* That the minimum charge is **₱** 10,000.00:
- 2.2.1 Conduct of Engineering Geological and Geohazard Assessment (EGGAR) on coastal and land areas
- 2.2.2 Validation of environmental, mine safety, health and socio-economic status of affected coastal/ marine areas by seabed quarry/dredging/borrow pit and offshore mining operations
- 2.2.3 Evaluation of mineral/ore reserves within coastal and offshore mining claim areas or seabed quarry/borrow pit areas
- 2.3 Review of the Engineering Geological and Geohazard Assessment Report (EGGAR)
- 2.3.1 Housing Projects (low-cost housing, mass-housing projects, residential condominiums) ..... 6,000.00
- 2.3.2 Infrastructure Projects and High-rise (>10 storeys) residential/commercial complex and condominium projects..... 9,000.00
- 2.3.3 Major Infrastructure Projects and Civil Works (highways, pipelines, engineered landfills, seaports, airports, bridges/flyovers, etc.) having a project cost of > P 50 Million..... 15,000.00

**Note:** In addition to the Fees and Charges under **Items 2.1 to 2.2**, the applicant or interested party shall shoulder the transportation of MGB personnel from his/her official station to the area and return, and other incidental expenses that may be incurred. The coastal and offshore survey rates quoted above are exclusive of rental of equipment and facilities.

### 3.0 DRILLING EQUIPMENT AND ACCESSORIES

- 3.1 Drilling Machine (monthly rental)
- 3.1.1 X-Ray Drill..... 10,800.00
- 3.1.2 Longyear Model “24” Wireline Drill..... 21,600.00
- 3.1.3 Longyear Model “24” Conventional Drill..... 17,280.00
- 3.1.4 Longyear Model “34” Wireline Drill..... 27,360.00
- 3.1.5 Longyear Model “34” Conventional Drill..... 23,040.00
- 3.1.6 Longyear Model “38” Wireline Drill with Automatic Chuck..... 30,240.00
- 3.1.7 Longyear Model “44” Wireline Drill with Automatic Chuck ..... 34,560.00
- 3.2 Drill Pumps (monthly rental)
- 3.2.1 Longyear Model 315 Pump ..... 3,120.00
- 3.2.2 Longyear Model 535 Pump..... 9,600.00
- 3.2.3 Longyear Model 520 Pump..... 8,400.00
- 3.3 Drill Rods (monthly rental)
- 3.3.1 One (1) pc. AQ Rod, 10 ft..... 240.00
- 3.3.2 One (1) pc. BQ Rod, 10 ft..... 320.00
- 3.3.3 One (1) pc. NQ Rod, 10 ft..... 360.00
- 3.3.4 One (1) pc. HQ Rod, 10 ft..... 480.00

3.3.5	One (1) pc. AW Rod, 10 ft.....	240.00	
3.3.6	One (1) pc. BW Rod, 10 ft.....	320.00	
3.3.7	One (1) pc. NW Rod, 10 ft.....	360.00	
3.3.8	One (1) pc. HW Rod, 10 ft. ....	480.00	
3.3.9	One (1) pc. EWL Rod, 10 ft. (small than AW)..		190.00
3.3.10	One (1) pc, XRT Rod, 10 ft. (smaller than EWL).	150.00	
3.4 Casings (monthly rental)			
3.4.1	One (1) pc. AW Casing, 10 ft. ....	240.00	
3.4.2	One (1) pc. BW Casing, 10 ft. ....	310.00	
3.4.3	One (1) pc NW Casing, 10 ft. ....	360.00	
3.4.4	One (1) pc. HW Casing, 10 ft. ....	480.00	
3.4.5	One (1) pc. EWL Casing, 10 ft.....	190.00	
2.4.6	One (1) pc. RW Casing, 10 ft. ....	145.00	
3.5 Core Barrels (monthly rental)			
3.5.1	One (1) pc. AQ Core Barrel, 10 ft.....	2,250.00	
3.5.2	One (1) pc. 5BQ Core Barrel, 10 ft. ....	4,500.00	
3.5.3	One (1) pc NQ Core Barrel, 10 ft. ....	7,875.00	
3.5.4	One (1) pc. HQ Core Barrel ....	9,000.00	
3.6 Miscellaneous Accessories (monthly rental)			
3.6.1	One (1) set Tripod Sheave Wheel, 24” dia. With clevis and bolt.....	2,400.00	
3.6.2	One (1) set Tripod Sheave Wheel, 18” dia With clevis and bolt.....	1,920.00	
3.6.3	One (1) pc. Heavy Duty Water Swivel Assy. With lifting hail.....		1,200.00
3.6.4	One (1) pc. Lifting Plug with rod box adapter ..	480.00	
3.6.5	One (1) Snatch Block, 6” dia ....	240.00	
3.6.6	One (1) set BX Casing Clamp ....	240.00	
3.6.7	One (1) set NX Casing Clamp ....	240.00	
3.6.8	One (1) set HQ Safety Foot Clamp Assembly complete with clamp jaws.....	1,200.00	
3.7 Refundable Deposits (amount required, subject to refund, made to secure or guaranty compliance with certain requirements in a contract)			
3.7.1 Bond (all throughout the Project duration)			
a.	For X-ray Drill, Pump and Accessories ...	576,000.00	
b.	For Longyear Model “24” Conventional Drill, Pump and accessories .....	720,000.00	
c.	For Longyear Model “24” Wireline Drill Pump and accessories .....	792,000.00	
d.	For Longyear Model “34” Conventional Drill, Pump and accessories .....	1,080,000.00	
e.	For Longyear Model “34” Wireline Drill Pump and accessories.....	1,152,000.00	
f.	For Longyear Model “38” Wireline Drill w/ Automatic Chuck, Pump and accessories.....	1,368,000.00	

g.	For Longyear Model “44” Wireline Drill w/ Automatic Chuck, Pump and accessories.....	2,160,000.00
h.	For Additional Longyear 535 Pump.....	144,000.00
i.	For Additional Longyear 520 RQ Pump..	129,600.00
j.	For Additional Longyear 515 RQ Pump..	72,000.00
3.7.2	Cash Deposits(all throughout the Project duration)	
a.	For X-Ray Drill, Pump and accessories ...	28,800.00
b.	For Longyear Model “24” Conventional Drill, Pump and accessories .....	50,400.00
c.	For Longyear Model “24” Wireline Drill Pump and Accessories .....	57,600.00
d.	For Longyear Model “34” Conventional Drill, Pump and accessories .....	80,000.00
e.	For Longyear Model “34” Wireline Drill w/ Pump and accessories .....	80,000.00
f.	For Longyear Model “38” Wireline Drill w/ Automatic Chuck, Pump and accessories...	90,000.00
g.	For Longyear Model “44” Wireline Drill w/ Automatic Chuck, Pump and accessories ..	100,800.00
h.	For Additional Longyear 535 Pump .....	14,400.00
i.	For Additional Longyear 520 RQ Pump....	11,520.00
j.	For Additional Longyear 515 RQ Pump....	8,640.00
k.	For Demobilization of Drilling Equipment and Accessories .....	50,000.00

**4.0 PETROLOGICAL, MINERALOGICAL, GEOCHRONOLOGICAL AND OTHER RELATED SERVICES**

4.1 Sample Preparation and Gemology Unit

4.1.1	Rock cutting and polishing	
a.	Soft rocks (as soft or softer than marble), per sq. dm. or a fraction thereof	
-	cutting.....	175.00
-	polishing.....	225.00
b.	Hard rocks (harder than marble), per sq. dm. or a fraction thereof	
-	cutting.....	200.00
-	polishing.....	225.00
4.1.2	Thin section preparation	
a.	unmounted rocks and minerals .....	400.00
b.	mounted rocks and minerals .....	500.00
c.	mounted cutting/ditch samples .....	500.00
4.1.3	Polished section preparation	
a.	unmounted rocks and minerals .....	400.00
b.	mounted rocks and minerals .....	450.00
4.1.4	Polished-thin section preparation	
a.	unmounted rocks and minerals .....	540.00
b.	mounted rocks and minerals .....	635.00
c.	mounted cutting/ditch samples .....	635.00

4.1.5	Doubly polished wafer preparation for fluid inclusion analysis.....	635.00
4.1.6	Sample preparation (drying, crushing, grinding, sieving and splitting) of geological materials for sedimentological/ mineralogical analysis, per kilogram or fraction thereof	
	a. oven drying.....	60.00
	c. grinding using vibrating disc mill.....	95.00
	d. sieving	
	- coarse (14-150 mesh)	
	= dry sample .....	60.00
	= wet sample .....	70.00
	- fines (170-400 mesh)	
	= dry sample .....	60.00
	= wet sample .....	60.00
	e. splitting using Jones riffle splitter.....	35.00
4.1.7	Sample preparation (drying, crushing and grinding, up to 200-300 mesh) of geological materials for x-ray bulk analysis ...	160.00
4.1.8	Sample preparation (drying, crushing grinding, sieving and splitting) for chemical analysis .....	160.00
4.1.9	Sample preparation for paleomagnetic analysis	
	a. mounting.....	230.00
	b. coring .....	230.00
	c. cutting.....	230.00
	d. grinding.....	230.00
4.1.10	Sample preparation for paleontological analysis	
	a. Microfossil Analysis	
	- thin section.....	345.00
	- washing, per 200 grams .....	230.00
	- polished block (3x2x2 cm.) .....	345.00
	b. Macrofossil Analysis	
	- cleaning (per sample) .....	115.00
	- repair (per specimen) .....	20.00
	- fossil reconstruction for broken specimen, moulds and casts (per specimen) .....	45.00
4.1.10	Gemstone preparation	
	a. Preparation of cabochon with oval, round, triangle, square, pear and four-sided forms	
	- with Moh's hardness up to 7	
	= 7 to 18 mm. diameter .....	160.00
	= 19 to 32 mm. diameter .....	220.00
	- with Moh's hardness between 7 and 9	
	= 7 to 18 mm. diameter .....	300.00
	= 19 to 32 mm. diameter .....	350.00
	b. Preparation of cabochon with heart, clover, star, cross, hexagon, octagon and more than four-sided forms	
	- with Moh's hardness up to 7	
	= 7 to 18 mm. diameter .....	220.00
	= 19 to 32 mm. diameter .....	300.00
	- with Moh's hardness between 7 and 9	
	= 7 to 18 mm. diameter .....	350.00
	= 19 to 32 mm. diameter .....	400.00

	c.	Preparation of other shapes and forms such as teardrop, halfmoon, shark's tooth, sphere, cone, cylinder, etc. for materials with Moh's hardness up to 7	
	-	7 to 18 mm. diameter .....	350.00
	-	19 to 32 mm. diameter .....	400.00
	d.	Faceting (64 index gear)	
	-	standard brilliant cut (round)	
	=	with Moh's hardness up to 7 .....	400.00
	=	with Moh's hardness bet. 7 & 9.....	450.00
	-	brilliant oval cut, emerald cut	
	=	with Moh's hardness up to 7 .....	350.00
	=	with Moh's hardness bet. 7 & 9.....	550.00
	e.	Gemstone drilling	
	-	first 10 mm.....	35.00
	-	per 1 mm. or a fraction thereof, in excess of 10 mm. ....	20.00
	f.	Preparation of tumbled stones, per kilo (minimum of three kilos) .....	800.00
4.2		Megascopic/Microchemical Testing Laboratory	
4.2.1		Megascopic description of minerals, including mineral name, color, streak, form, hardness and uses/recommendation for further analysis ...	300.00
4.2.2		Megascopic description of rocks, including mineral composition, texture, rock name and uses/recommendations for further analysis ...	300.00
4.2.3		Qualitative microchemical test per element ...	160.00
4.2.4		Qualitative chemical stain test per mineral ...	160.00
4.2.5		Provision of rock and mineral collection with identification and description, per set of 12 samples .....	130.00
4.3		Sedimentology/Clay Mineralogy Laboratory Unit	
4.3.1		Sample preparation for grain size analysis	
	a.	dilution and chemical treatment with sodium hexametaphosphate .....	500.00
	b.	pipetting .....	500.00
	c.	determination of weight loss .....	100.00
4.3.2		Mineral separation per 100-gram sample or a fraction thereof	
	a.	using hand magnet .....	150.00
	b.	using isodynamic magnetic separator .....	500.00
	c.	using heavy liquid medium, per mineral....	1,000.00
4.3.3		Grain size analysis	
	a.	wet sieving method of quantitative determination of particle size distribution of soil/sediments down to fine sand size ...	345.00
	b.	hydrometer method of quantitative determination of particle size distribution of soil/sediments from coarse sand size to clay size.....	400.00
4.3.4		Identification of transparent and translucent detrital minerals, with qualitatively estimated mineral abundances	
	a.	as received .....	1,500.00
	b.	grain mounted polished/thin section .....	1,000.00

4.3.5	Identification of transparent and translucent detrital minerals, with quantitatively estimated mineral abundances by point counting, per constituent grain	
	a. as received.....	3,000.00
	b. grain mounted polished/thin section .....	1,500.00
4.3.6	Permeability test for sediments and soils (minimum of five trials).....	1,200.00
4.3.7	Proctor compaction test for sediments and soils (minimum of five trials) .....	900.00
4.3.8	Differential Thermal Analysis (DTA).....	700.00
4.3.9	Determination of liquid limit by cone penetrometer method	
	a. for soil samples .....	345.00
	b. for clay samples (unactivated) .....	600.00
	c. for clay samples (activated 1-6% Na <sub>2</sub> CO <sub>3</sub> )..	3,000.00
4.3.10	Determination of plastic limit	
	a. for soil samples .....	200.00
	b. for clay samples (unactivated).....	500.00
	c. for clay samples (activated).....	2,500.00
4.3.11	Determination of plasticity index	
	a. for soil samples.....	500.00
	b. for clay samples (unactivated) .....	1,000.00
	c. for clay samples (activated) .....	4,500.00
4.3.12	Pyrometric Cone Equivalent (PCE) test .....	450.00
4.3.13	Swelling test	
	a. unactivated .....	120.00
	b. activated .....	300.00
4.3.14	Oil bleaching test (inclusive of oil)	
	a. unactivated.....	250.00
	b. activated.....	500.00
4.4	Petrography/Fluid Inclusion Laboratory Unit	
4.4.1	Thin section analysis	
	a. standard petrographic description, including rock name, textures, qualitatively estimated mineral abundances and interpretation of alteration assemblages and/or paragenesis..	1,150.00
	b. mineral identification and rock name only, with qualitatively estimated mineral abundances.....	800.00
	c. mineral identification only, with quantitatively estimated mineral abundances by point counting, per mineral .....	1,035.00
	d. grain size determination only, per mineral..	345.00
4.4.2	Polished section analysis	
	a. standard petrographic description of ore minerals; including textures, qualitatively estimated mineral abundances and interpretation of paragenetic sequence ...	1,150.00
	b. mineral identification only, with quantitatively estimated mineral abundances.....	1,035.00
	c. mineral identification only, with quantitatively estimated mineral abundances by point counting, per mineral..	345.00

	d. grain size determination only, per mineral...	345.00
4.4.3	Fluid inclusion analysis	
	a. Inspection of samples for presence of fluid inclusions .....	115.00
	b. Petrographic description of fluid inclusions, including abundance, size, shape, nature of inclusions, etc. ....	300.00
	c. Measurement of homogenization temperature of as many inclusions as practical within the sample .....	1,725.00
	d. Measurement of freezing temperatures of as many inclusions as practical within the sample (exclusive of cost of liquid nitrogen) for salinity determination.....	2,875.00
	e. Measurement of salt dissolution temperatures of as many inclusions as practical within the sample for salinity determination.....	1,725.00
4.4.4	Photomicrography (exclusive of cost of films, developing and printing), per exposure .....	60.00
4.5	X-Ray Laboratory Unit	
4.5.1	X-Ray Diffraction (XRD) analysis	
	a. Sample preparation for orientation of clay minerals	
	- air drying.....	25.00
	- heating .....	115.00
	- glycolation.....	115.00
	b. XRD scan, machine run only	
	- 2°2θ to 41°2θ .....	1,500.00
	- in excess of 41°2θ, per degree .....	50.00
	c. XRD spectrograph interpretation (qualitative mineral identification) .....	500.00
4.5.2	X-Ray Fluorescence (XRF) spectrometric analysis	
	a. Sample preparation	
	- briquetting of powdered sample .....	100.00
	- glass bead/fused sample preparation ...	200.00
	b. Qualitative XRF analysis	
	- using LiF, Ge, PET and TAP analyzing crystal (scan from 6° to 148°2θ) .....	3,500.00
	c. Quantitative XRF analysis, per element (charge varies according to cost of standards)	
4.6	Paleomagnetic Laboratory Unit	
4.6.1	Paleomagnetic analysis	
	a. Demagnetizing (thermal altering field) .....	500.00
	b. Magnetic declination.....	350.00
	c. Magnetic inclination.....	350.00
	d. Magnetic moment.....	350.00
	e. Magnetic susceptibility.....	350.00
	f. North, east and vertical component .....	300.00
	g. Bedding correction.....	300.00
	h. Sample orientation correction .....	300.00
	i. Virtual geomagnetic pole.....	400.00

4.7	Paleontology Laboratory Unit	
4.7.1	Sample preparation	
	a. For radiolarian analysis: chemical treatment, washing and smear slide preparation .....	550.00
	b. For quantitative paleontological analysis of planktic and benthic small foraminifera	
	- Crushing, washing and drying	
	= loose, friable sample.....	175.00
	= semi-indurated, indurated sample chemical treatment with sodium hexameta- phosphate, hydrogen peroxide and/or borate .....	575.00
	- Sieving	
	= fine fraction (45µm).....	60.00
	= coarse fraction (250 µm and 150 µm)	60.00
	= Splitting by aliquot method using Otto microsplitter .....	60.00
4.7.2	Microfossil analysis of small and large foraminifera	
	a. Standard paleontological analysis of sedimentary rock sample, including picking/isolation of fossils, faunal identification/listing, age and paleoecology determination, per sample .....	805.00
	b. Quantitative paleontological analysis of planktic and benthic small foraminifera, per sample	
	- Picking (approximately 300 specimen) isolation of fossils .....	230.00
	- Taxonomic/faunal identification	
	= genus level .....	60.00
	= species level .....	90.00
	c. Statistical analysis, per sample	
	- Species richness .....	60.00
	- Species diversity and equitability .....	60.00
	- Species dissolution susceptibility .....	60.00
	d. Systematic description, per species .....	60.00
	e. Age, per sample .....	60.00
	f. Paleoecologic interpretation, per sample ...	115.00
4.7.3	Macrofossil analysis	
	a. Standard molluscan and other macrofossil analysis, including cleaning, faunal identification, age determination and paleoecologic interpretation, per sample ...	805.00
	b. Taxonomic identification and description, per sample .....	175.00
	c. Photography: internal, external and side views (excluding cost of film, developing and printing), per specimen.....	90.00
	d. Developing and printing, per print .....	175.00
	e. Detailed paleoecologic and paleoenvironmental reconstructions based on morphometric variation, faunal associations/assemblages, habitat, sediment preferences, trophic grouping, diversity and bathymetric gradient, per sample) .....	460.00

- 4.7.4 Photomicrography (exclusive of cost of film developing and printing)
- a. Thin section, per exposure ..... 60.00
  - b. Whole specimen, three exposures for three positions ..... 300.00

4.8 Petrochemistry Laboratory Unit

4.8.1 Chemical analysis of rocks, minerals, soils, stream sediments and similar materials

- a. Minor and trace element analysis, after partial decomposition

- Flame atomic absorption spectrometry

- = Using aqua regia, hydrochloric acid and nitric acid digestion methods

<u>Element</u>	<u>Detection Limit (ppm)</u>	
Ag	1	
Cd	1	100.00
Co	3	(first element)
Cu	2	40.00
Fe	50	(each additional element)
Mn	50	
Ni	3	
Pb	10	
Zn	2	
Mo	2 .....	100.00
Mo (with organic extraction)	0.4.....	250.00

- = Using hydride and vapor generation method

<u>Element</u>	<u>Detection Limit (ppm)</u>	
As	1 .....	300.00
Bi	0.1.....	300.00
Sb	0.1.....	300.00

- = Using acidic fusion method

<u>Element</u>	<u>Detection Limit (ppm)</u>	
Cr	100	135.00
Li	10	(first element)
Ni	10	110.00

(each additional element)

- = Using NH<sub>4</sub>I fusion method

<u>Element</u>	<u>Detection Limit (ppm)</u>	
Sn	1 .....	330.00

- = Using cold extraction method

<u>Element</u>	<u>Detection Limit (ppm)</u>	
Cu	20	100.00
Pb	40	(first element)
Zn	20	70.00

(each additional element)

- Graphite furnace atomic absorption spectrometry

- = Using organic extraction method

<u>Element</u>	<u>Detection Limit (ppm)</u>	
Ag	0.1	} 540.00 (first element) 1,300.00 (all 5 elements)
Cd	0.1	
Se	0.2	
Te	0.1	
Tl	0.1	

- Colorimetry, using dithiol method

<u>Element</u>	<u>Detection Limit (ppm)</u>	
W	4	330.00

b. Major, minor and trace element analysis, after total decomposition (whole rock analysis)

- Flame atomic absorption spectrometry

= Complete silicate analysis

<u>Oxide</u>	
SiO <sub>2</sub> .....	250.00
Al <sub>2</sub> O <sub>3</sub> .....	250.00
TiO <sub>2</sub> .....	250.00
Fe <sub>2</sub> O <sub>3</sub> (total).....	250.00
MnO .....	250.00
MgO .....	250.00
CaO .....	250.00
Na <sub>2</sub> O.....	250.00
K <sub>2</sub> O .....	250.00
FeO .....	300.00
P <sub>2</sub> O <sub>5</sub> .....	250.00
LOI .....	100.00
H <sub>2</sub> O <sup>-</sup> .....	100.00
H <sub>2</sub> O <sup>+</sup> .....	215.00
all of the above (except FeO and H <sub>2</sub> O <sup>+</sup> ) .....	2,000.00

= Minor and trace element analysis

≡ Using hydrofluoric and perchloric acid digestion methods

<u>Element</u>	<u>Detection Limit (ppm)</u>	
Ag	1.....	300.00
Ba	25.....	300.00
Be	1.....	300.00
Cd	10.....	300.00
Co	5.....	300.00
Cr	5.....	300.00
Cu	2.....	300.00
Ni	10.....	300.00
Mo	10.....	300.00
Pb	10.....	300.00
Rb	10.....	300.00
Sr	21.....	300.00
V	10.....	300.00
Zn	2.....	300.00

≡ Using hydride and vapor generation method

<u>Element</u>	<u>Detection Limit (ppm)</u>	
As	1 .....	300.00
Bi	0.1 .....	300.00
Sb	0.1 .....	300.00
Hg	0.1 .....	400.00

≡ Using MIBK extraction method

<u>Element</u>	<u>Detection Limit (ppm)</u>	
Au	0.02 .....	500.00
Ga	0.02 .....	500.00
Pt	(qualitative)..	500.00

- Graphite furnace atomic absorption spectrometry

= Using organic extraction method

<u>Element</u>	<u>Detection limit (ppm)</u>	
Au	0.001 .....	750.00
Pd	0.002 .....	750.00
Te	0.1 .....	750.00
Tl	0.1 .....	750.00
Se	0.2 .....	750.00

= Using fire assaying method

<u>Element</u>	<u>Detection limit (ppm)</u>	
Au	0.002 .....	1,500.00
Pt	0.005 .....	2,000.00

c. Mercury analysis by direct measurement using AMA 254 machine

<u>Element</u>	<u>Detection Limit (ppm)</u>	
Hg	0.002 .....	700.00

4.8.2 Chemical analysis of ground and surface water

a. Major cation and anion analysis

- Flame atomic absorption spectrometry

<u>Ion</u>	
Na.....	220.00
K .....	220.00
Mg.....	220.00
Ca .....	220.00
Si .....	220.00

- Wet chemical method

<u>Ion</u>	
SO <sub>4</sub> <sup>-2</sup> .....	220.00
HCO <sub>3</sub> <sup>-</sup> .....	220.00
Cl <sup>-</sup> .....	220.00

- Ion selective electrode method

<u>Ion</u>	
F <sup>-</sup> .....	240.00
I <sup>-</sup> .....	240.00
CN <sup>-</sup> (total, after distillation).....	1,100.00
CN (toxic or free).....	500.00

- Spectrophotometry

<u>Ion</u>	
NO <sub>3</sub> <sup>-</sup> .....	250.00
HPO <sub>4</sub> <sup>-2</sup> .....	250.00
CN .....	1,500.00

b. Water quality determination

<u>Parameter</u>	
pH.....	120.00
Total dissolved solids (1.2µm).....	200.00
Total dissolved solids (0.45µm).....	400.00
Total suspended solids.....	200.00
Total solids.....	200.00

Total hardness.....	250.00
Total alkalinity.....	250.00
Total acidity.....	250.00
Turbidity (NTU).....	220.00
Siltation test.....	100.00
Color.....	300.00
Dissolved oxygen.....	400.00
c. Trace element analysis using atomic absorption spectrophotometry	
<u>Element</u>	<u>Detection Limit (mg/L)</u>
Ag	0.05 ..... 200.00
Ag	0.002 ..... 240.00
Ag	0.0002 ..... 400.00
As	0.005 ..... 300.00
Al	1.0 ..... 220.00
Au	0.005 ..... 370.00
Ba	1.0 ..... 200.00
Be	0.02 ..... 200.00
Bi	..... 200.00
Cd	0.02 ..... 200.00
Cd	0.002 ..... 240.00
Cd	0.0002 ..... 410.00
Co	0.05 ..... 200.00
Cr	0.05 ..... 240.00
Cu	0.02 ..... 200.00
Fe	0.05 ..... 200.00
Li	0.01 ..... 200.00
Mn	0.03 ..... 200.00
Mo	10.0 ..... 220.00
Mo	0.01 ..... 410.00
Ni	0.05 ..... 200.00
Pb	0.2 ..... 200.00
Pb	0.005 ..... 240.00
Pb	0.0005 ..... 410.00
Rb	5.0 ..... 200.00
Se	..... 410.00
Sb	..... 300.00
Sr	..... 200.00
Te	..... 410.00
V	1.0 ..... 220.00
Zn	0.1 ..... 200.00
Discount rates:	
15 elements per sample	10%
22 elements per sample	15%
44 elements per sample	30%

d. Mercury analysis by direct measurement using AMA 254 machine

<u>Element</u>	<u>Detection Limit (ppm)</u>
Hg	0.002 700.00

## 5.0 METALLURGICAL TESTS, FIRE ASSAY AND CHEMICAL ANALYSIS

5.1 Metallurgical Tests on Ores, Minerals, Mill or Industrial Plant By-Products, etc. (Note: A maximum of fifty (50) kilograms may be accepted for testing)

5.1.1 Sample Preparation

	a. Crushing	
	First 5-kg sample .....	210.00
	For each additional 1 kg. ....	20.00
	b. Grinding	
	First 5-kg. sample.....	315.00
	For each additional 1 kg.....	25.00
5.1.2	Particle Size Determination (using sieves)	
	a. Dry sample, coarse (coarser than 100-mesh)	
	per fraction, per kg. ....	45.00
	b. Dry sample, fine (150-mesh to 400-mesh)	
	per fraction, per kg.....	70.00
	c. Wet sample, coarse (coarser than 100 mesh)	
	per fraction, per kg. ....	60.00
	d. Wet sample, fine (150-mesh to 400-mesh)	
	per fraction, per kg.....	85.00
5.1.3.	Classification Test:	
	a. Air Classification, per test .....	250.00
	b. Hydroclassification, per test.....	360.00
	c. Sedimentation/Elutriation/Scrubbing, per test	140.00
	d. Sedimentation/Elutriation/Scrubbing, per test	
	(with chemical reagents) .....	175.00
5.1.4	Gravity Concentration Test	
	a. Heavy Media Separation, per specific	
	gravity, per test.....	385.00
	b. Jigging, per test.....	360.00
	c. Tabling, per test.....	360.00
5.1.5	Flotation	
	a. Bulk Flotation, per test.....	420.00
	b. Differential Flotation, per test .....	735.00
5.1.6	Magnetic Separation	
	a. Dry, per test .....	210.00
	b. Wet, per test .....	315.00
5.1.7	Leaching	
	a. Cyanidation, per test.....	1,500.00
	b. Percolation leaching, per test .....	950.00
	c. Acid curing/agitation leaching, per test ...	630.00
	d. Leaching – precipitation – flotation, per test.	1,250.00
5.1.8	Amalgamation, per test.....	950.00
5.1.9	Calcination	
	a. up to 800°C	
	- one sample only .....	650.00
	- 2 or more samples, per sample .....	530.00
	b. up to 1050°C	
	- one sample only .....	735.00
	- 2 or more samples, per sample .....	630.00
5.1.10	Roasting/Sintering	
	a. Using Electric Furnace (batch),	
	- one sample only .....	630.00
	- 2 or more samples, per sample .....	530.00
	b. Using small rotary kiln (continuous), per test	850.00
5.1.11	Chiddy Method (Sponge), per test .....	850.00
5.1.12	Smelting, per test.....	1,500.00
5.1.13	Pelletizing	
	a. Using pelletizing drum (batch), per test ...	320.00
	b. Using pelletizing disc (continuous), per test..	530.00
5.1.14	Work Grindability Index.....	1,890.00
5.1.15	Swelling Test (Bentonite).....	90.00

5.1.16	Oil Bleaching.....	100.00	
5.1.17	Acid/Sodium Activation .....	460.00	
5.1.18	Cation Exchange Capacity.....	250.00	
5.1.19	Settling Rate.....	90.00	
5.1.20	Recovery of Chrysotile Asbestos, per kg. ....	740.00	
5.1.21	Specific Gravity		
	a. Apparent.....	90.00	
	b. Bulk Density .....	90.00	

**Note:** The Metallurgical Laboratory is also accepting samples for pilot testing on flotation, classification, roasting & magnetic separation (dry). Charges will be estimated for each case and job performed on contractual basis.

## 5.2. Fire Assay

Ore samples submitted for fire assays should weigh at least one (1) kilogram. Bullion drillings in excess of three (3) grams shall be returned to the owner upon request.

5.2.1	Gold or silver in ores, sands or concentrates, per sample .....	350.00	
5.2.2	Gold & silver in ores, sands or concentrates, per sample .....	590.00	
5.2.3	Fineness determination for gold, in bullion or alloys, per sample.....	1,200.00	
5.2.4	Fineness determination for silver, in bullion or alloys, per sample .....	800.00	
5.2.5	Fineness determination for gold and silver in bullions, per sample .....	1,440.00	
5.2.6	Certification of weight of gold or silver bullion ...		160.00
5.2.7	Preparation for Gold and Silver Assaying (as additional charges for every analysis		
	a. Drying		
	- First 1-kg sample or less .....	30.00	
	- For each additional 1-kg. ....	5.00	
	b. Crushing		
	- First 1-kg sample or less .....	30.00	
	- For each additional 1-kg. ....	5.00	
	c. Grinding		
	- First 1-kg sample or less .....	35.00	
	- For each additional 1-kg. ....	5.00	

## 5.3 Chemical Analysis

5.3.1	Wet Assays		
	Aluminum (from Silicates).....	165.00	
	Alumina (from Chromium and Manganese ores).	250.00	
	Antimony .....	250.00	
	Barium.....	250.00	
	Bismuth.....	250.00	
	Calcium.....	165.00	
	Available Lime.....	200.00	
	Chloride.....	250.00	
	Chromium (Peroxide fusion) .....	540.00	
	Chromium (Perchloric acid digestion) .....	300.00	
	Cobalt.....	300.00	

	Copper.....	250.00	
	Iron (Total, from silicates.....	250.00	
	Iron (Total, from chromium and manganese ores).....	165.00	
	Iron (Metallic, Fe <sup>0</sup> ).....	300.00	
	Iron (Ferrous, Fe <sup>++</sup> ).....	250.00	
	Iron (Ferric, Fe <sup>+++</sup> ).....	500.00	
	Lead.....	300.00	
	Magnesium.....	165.00	
	Manganese.....	200.00	
	Molybdenum.....	300.00	
	Nickel.....	300.00	
	Phosphorous (Total) .....	250.00	
	P <sub>2</sub> O <sub>5</sub> , Water Soluble .....	250.00	
	P <sub>2</sub> O <sub>5</sub> , Citrate Insoluble .....	250.00	
	Phosphorus (Available).....	500.00	
	Phosphorus (Citrate Soluble).....	750.00	
	Potassium.....	250.00	100(AA)
	Silica.....	250.00	
	Free Silica.....	250.00	
	Insolubles.....	150.00	
	Sodium.....	250.00	100(AA)
	Sulfur (Free).....	250.00	
	Sulfur (Total).....	250.00	
	Sulfur (Combined).....	250.00	
	Sulfur (Sulfate).....	250.00	
	Sulfur (Sulfide or Pyritic).....	500.00	
	Tin.....	250.00	
	Titanium .....	250.00	
	Zinc.....	300.00	
5.3.2	Analysis by Atomic Absorption Spectrophotometry of Solid/Sediment Samples - By Acid Digestion		
	Cadmium.....	300.00	
	Chromium.....	300.00	
	Copper.....	300.00	
	Iron .....	300.00	
	Lead .....	300.00	
	Manganese.....	300.00	
	Nickel .....	300.00	
	Zinc.....	300.00	
5.3.3	Analysis of Water		
	Dissolved Oxygen.....	120.00	
	Bicarbonate (HCO <sub>3</sub> <sup>-1</sup> ).....	220.00	
	Carbonate (CO <sub>3</sub> <sup>-2</sup> ).....	220.00	
	Total Solids.....	200.00	
	Total Dissolved solids.....	200.00	
	Total Suspended solids.....	400.00	
	Total Acidity.....	250.00	
	Total Alkalinity.....	250.00	
	Total Hardness.....	250.00	
	Sulfate.....	220.00	
	Chloride.....	220.00	

	Silicon.....	220.00
	Calcium.....	220.00
	Magnesium	
	.....	220.00
	Chromium.....	240.00
	Metals (Cd, Cu, Fe, K, Mn, Na, Pb, Zn, Ni)	
	Note: per element.....	200.00
5.3.4	Miscellaneous Determinations	
	pH.....	120.00
	Moisture (H <sub>2</sub> O <sup>-</sup> ), at 105°C .....	100.00
	Moisture as Received.....	200.00
	Moisture (H <sub>2</sub> O <sup>+</sup> ), Combined.....	200.00
	Loss on Ignition.....	100.00
	True Specific Gravity.....	120.00
5.4	Sample Preparation for Chemical Analysis (at least one (1)-kilogram sample required)	
5.4.1	Ore/Rock (Crushing, Grinding, Sieving).....	150.00
5.4.2	Crushed Ore/Rock (Grinding, Sieving) .....	130.00
5.4.3	Pulp (Sieving).....	50.00

**6.0 MARINE GEOPHYSICAL AND GEOLOGICAL INVESTIGATION AND VERIFICATION**

6.1	Marine Geophysical Survey	
6.1.1	Echo sounder, per km.....	1,200.00
6.1.2	Survey Vessel (RPS Explorer)	
	a. Mobilization/demobilization, per day.....	76,000.00
	b. Actual survey, per day (maximum of 12 hours per day) .....	36,000.00
6.2	Marine Geological Survey	
6.2.1	Piston Coring, per sample.....	1,600.00
6.2.2	Grab Sampling, per sample.....	800.00

**Note:** Cost of survey includes use of positioning instrument (GPS), but excluding cost of fuel

6.3	For Geophysical Services		
		<b>Man/Day</b>	<b>Total Daily</b>
		<b>Rate</b>	<b>Rate</b>
6.3.1	Induced Polarization.....	2,500.00	17,500.00
6.3.2	Resistivity Survey.....	2,500.00	17,500.00
6.3.3	Self Potential		
	a. Vertical Loop .....	2,500.00	17,500.00
	b. Potable Soil.....	2,500.00	17,500.00
6.3.4	Seismic Surveys		
	a. 12-Channel (refraction).....	3,200.00	22,400.00
	b. 12-Channel (reflection).....	3,200.00	22,400.00
6.3.5	Magnetics		
	a. Precision Type.....	2,300.00	16,100.00
	b. Fluxgate.....	2,500.00	17,500.00

**Note:** In addition to the Fees and Charges under **Item 6.3**, the applicant or interested party shall shoulder the transportation of MGB personnel from official station to the area and return, as well as the expenses for freight, labor, materials and analysis of the samples.

- 6.4 Geophysical/geological data processing and data analysis/interpretation
- a. Echo Sounder Data..... 500.00/line km.
  - b. Side-Scan Sonar Data ..... 500.00/line km.
  - c. Seismic Data..... 1,000.00/line km.
- 6.5 Coastal/Marine sampling involving physico-chemical and oceanographic measurements (water quality, water temperature, currents, waves, bottom sediments, etc.)..... 800.00/sampling station
- 6.6 Technical review and evaluation of technical reports and/or scientific documents by MGB, as requested, and the preparation of a corresponding technical evaluation report... 12,000.00/review
- 6.7 Underwater still photography, up to 30-meter water depth, thru SCUBA diving..... 10,000.00/12 scene/site\*  
(\*excluding per diems and travel expenses for personnel and transportation cost for equipment)

## **7.0 MGB FORMS (P5.00/page)**

- No. 5-1 Application for Exploration Permit
- No. 5-2 Exploration Permit
- No. 5-3 Outline Project Feasibility Study
- No. 5-4 Exploration Work Program
- No. 6-1 Application for Mineral Agreement
- No. 6-2 Three-year Work Program  
Mineral Agreement Proforma Contract
- No. 7-1 Application for Financial or Technical Assistance Agreement
- No. 8-1 Application for Industrial Sand and Gravel Permit - (MGB)
- No. 8-1A Application for Industrial Sand and Gravel (LGU)
- No. 8-2 Industrial Sand and Gravel Permit (MGB)
- No. 8-2A Industrial Sand and Gravel Permit (LGU)
- No. 8-3 Quarry or Sand and Gravel Permit Application
- No. 8-3A Commercial Permit Application
- No. 8-4 Quarry or Sand and Gravel Permit
- No. 8-4A Commercial Sand and Gravel Permit
- No. 8-4B Exclusive Sand and Gravel Permit
- No. 8-5 Application for Guano Permit
- No. 8-6 Application for Gemstone Gathering Permit
- No. 8-7 Gemstone Gathering Permit
- No. 11-1 Mineral Processing Permit
- No. 11-2 Application for Mineral Processing Permit
- No. 12-1 Ore Transport Permit
- No. 12-2 Sworn Statement of the Apprehending Officer
- No. 12-3 Affidavit of Witness
- No. 13-1 Application for Accreditation of Traders, Dealers and Retailers in the Trading of Minerals/Mineral Products and By-Products
- No. 13-2 Certificate of Accreditation of Traders, Dealers and Retailers in the Trading of Minerals/Mineral Products and By-Products
- No. 15-1 Permanent Safety Engineer's Permit
- No. 15-2 Temporary Safety Engineer's Permit
- No. 15-3 Permanent Safety Inspector's Permit
- No. 15-4 Monthly Employer's Report of Accident or Sickness
- No. 15-5 Monthly General Accident Report
- No. 15-6 License to Possess Explosives

- No. 15-7 Monthly Report of Explosive Transactions
- No. 15-8 Explosives and Accessories Consumption Report
- No. 16-1 Environmental Work Program
- No. 16-1A Environmental Work Program for Offshore
- No. 16-2 Environmental Protection and Enhancement Program
- No. 16-3 Annual Environmental Protection and Enhancement Program Outline (AEPEPO)
- No. 18-1 Semi-Annual Report on Mine Waste and Mill Tailings
- No. 18-2 Application for Compensation for Damages
- No. 25-1 Application for Order of Survey
- No. 25-2 Order of Survey
- No. 25-3 Survey Plan (21+17 CM)
- No. 25-4 Field Notes
- No. 25-5 Azimuth Computations from Astronomical Observations
- No. 25-6 Topographic Survey Computations
- No. 25-7 Traverse Computations
- No. 25-8 Area Computations
- No. 25-9 Coordinate Conversion - Geographic to Grid
- No. 25-10 Coordinate Conversion - Grid to Geographic
- No. 29-1 Monthly Report on Production, Sales and Inventory of Metallic Minerals and Employment (GOLD)
- No. 29-2 Monthly Report on Production, Sales and Inventory of Metallic Minerals and Employment (COPPER)
- No. 29-3 Monthly Report on Production, Sales and Inventory of Metallic Minerals and Employment (METALLURGICAL CHROMITE)
- No. 29-4 Monthly Report on Production, Sales and Inventory of Metallic Minerals and Employment (REFRACTORY CHROMITE)
- No. 29-5 Monthly Report on Production, Sales and Inventory of Metallic Minerals and Employment (NICKEL)
- No. 29-6 Monthly Report on Production, Sales and Inventory of Metallic Minerals and Employment (IRON)
- No. 29-7 Monthly Report on Production, Sales and Inventory of Metallic Minerals and Employment (MANGANESE)
- No. 29-8 Monthly Report on Production, Sales and Inventory of Metallic Minerals and Employment (LEAD)
- No. 29-9 Monthly Report on Production, Sales and Inventory of Metallic Minerals and Employment (ZINC)
- No. 29-10 Quarterly Report on Production, Sales and Inventory of Non-Metallic Minerals and Employment
- No. 29-11 Quarterly Report on Production, Sales and Inventory of Quarry Resources (Except Sand and Gravel) and Employment
- No. 29-12 Monthly Report on Production, Sales and Inventory of Industrial Sand and Gravel and Employment
- No. 29-13 Monthly Report on Production, Sales and Inventory of Commercial Sand and Gravel and Employment
- No. 29-14 Monthly Report on Production and Sales of Small-Scale Metallic Mines and Employment
- No. 29-15 Quarterly Report on Production and Sales of Small-Scale Gold
- No. 29-16 Integrated Annual Report
- No. 29-17 Integrated Annual Report for Small-Scale Mines
- No. 29-18 Quarterly Energy Consumption Report
- No. 29-19 Annual Mineral Reserve/Resource Inventory Report for Mineral Agreement and FTAA
- No. 29-20 Quarterly Report on Production, Sales and Inventory of SSM within Mineral Reservation

## 8.0 PUBLICATIONS

8.1	Technical Information Series.....	100.00
8.2	UNDP Technical Reports.....	200.00
8.3	MGB Technical Reports.....	100.00
8.4	MGB Information Circular (IC).....	100.00
8.5	MGB Report of Investigation (RI).....	100.00
8.6	Books and Other Publications	
	a. Manual on Standard Analytical Procedure of the Mines And Geosciences Bureau Laboratories (Revised Edition).....	500.00
	b. Annual Directory of Operating Mines and Quarries for CY 2001 and later years (in floppy or compact disk).....	250.00
8.7	MGB Maps and Geological Bibliography	
	a. Geological Quadrangle Maps 1:50,000 scale	
	- CD (BITMAP) .....	500.00
	- CD (DXF) .....	500.00
	- Printed Maps .....	500.00
	Reproducible .....	500.00
	b. Geohazard Maps 1:50,000 scale	
	- Power Point and PDF Files.....	500.00
	c. Geochemical Atlas Maps 1:50,000 scale	
	- BITMAP .....	500.00
	d. Geological Map of the Philippines	
	- 1:1,000,000 scale BITMAP.....	500.00
	e. Limestone Deposits of the Philippines	
	- BITMAP .....	500.00
	f. Geological Bibliography (Published and Unpublished Reports) PD File.....	500.00
	g. Mineral Gazette.....	5.00/page
	h. Philippine Mining Act of 1995 and its Revised Implementing Rules and Regulations .....	250.00
	i. Proceedings of the 1991 Annual Mines and Geosciences Technical Seminar .....	125.00

All existing orders, rules and regulations, memorandum circulars, directives or part thereof, contrary or inconsistent with the provisions of this Administrative Order, is hereby repealed, amended and/or modified accordingly.

This Order shall take effect fifteen (15) days after its complete publication in a newspaper of general circulation and fifteen (15) days after registration with the Office of the National Administrative Register.

**MICHAEL T. DEFENSOR**  
Secretary