

MINERAL RESOURCES OF BICOL REGION*

PROVINCE/MUNICIPALITY BARANGAY	MINERAL COMMODITY	ESTIMATED RESERVES (In MT)	GRADE ANALYSIS
SORSOGON			
1. BACON			
Gatbo	Limestone	9,600,000	55% CaO, 0.42% MgO, 0.44% Al ₂ O ₃ , 0.39% SiO ₂
Bato-Gatbo	Marble	25,000,000 cu.m. geologic reserve 3,750,000 cu.m. mineable reserve	
Dalipay & Osiao	White Clay	1,050	
New Bato	Guano	42	1.92% P ₂ O ₅ , 0.06% N, 0.1% K ₂ O
	Phosphatic Rock	59	1.38% P ₂ O ₅ , 0.06% N, 0.07% K ₂ O
2. SANTA MAGDALENA			
Talaonga & Poblacion	Titaniferous Magnetite Sand	123,425	
3. PILAR			
Abucay	Rock Phosphate	753	30.82% P ₂ O ₅ , 0.66% N, 1.50% K ₂ O
San Jose	Guano	458	8.10% P ₂ O ₅ , 0.11% N, 0.25% K ₂ O
	Rock Phosphate	97	23.35% P ₂ O ₅ , 0.16% N, 1.12%K ₂ O
Lungib	Guano	49	10.29% P ₂ O ₅ , 0.13% N, 0.19% K ₂ O
	Rock Phosphate	379	14.75% P ₂ O ₅ , 0.35% N, 1.12%K ₂ O
Calpi	Guano	50	13.24% P ₂ O ₅ , 0.19% N, 0.10%K ₂ O
Pilar Beach	Iron, Titanium	69,250	0.191-46.1% Fe by weight
	Magnetite Beach Sand	217,000,000	
4. MAGALLANES	Iron, Titanium	17,000	40.56%Fe; 61.00% TiO ₂
	Pumice	17,310,416	
	Pumicite	1,288,644	
5. IROSIN			
Gabao	Red Clay	56,250	53.45% SiO ₂ ; 22.40% Al ₂ O ₃ , 9.80% Fe ₂ O ₃ , 0.54% Cao, 1.0% MgO, 8.68% LOI, 3.96%
6. CASIGURAN			
Boton	Red Clay	5,000,000	54.63% SiO ₂ ; 26.15% Al ₂ O ₃ , 6.21% Fe ₂ O ₃ , 3.08% CaO, 2.22% MgO, 28-31 PCE
Colambis	Pumicite	250,000	24.81% - 10 mesh 10-15% non-pumiceous
7. PRIETO DIAZ			
San Ramon	Guano	43	0.64% P ₂ O ₅ ; 0.15% N; 0.17% K ₂ O
Manlabong	Guano	73	2.45% P ₂ O ₅ ; 0.29 N, 0.38% K ₂ O
San Antonio	Guano	17	1.79% P ₂ O ₅ , 0.7% N, 0.10% K ₂ O
8. BULAN			
Calpi	Pumice/pumicite	797,360	64.55-71.55% SiO ₂ , 18.96- 22.93% Al ₂ O ₃ , 2.95% Fe ₂ O ₃ , 2.09% CaO, 0.75% MgO
Dolos	Pumice/pumicite	190,140	
9. GUBAT			
Aparadijon	Red Clay	30,000	54.11% SiO ₂ , 32.93% Al ₂ O ₃ , 4.21% Fe ₂ O ₃ , 3.6% CaO, 1.96% MgO

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SORSOGON			
Bagacay	Guano	519	3.76% p2o5, 0.60%N, 0.26%K2O
10. JUBAN			
Lahong	Pumice & Pumicite	540,000	
11. SORSOGON			
Rizal	Sulphur	775	10.39-40.75% S
* source: Mineral Resources of Bicol Region, August 1990 & Technical Report on Banner Mineral Commodity Program: Marble, Nov. 1994 by Vnarido, Gapuya & JMSLaud.			