

MINERAL RESOURCES OF BICOL REGION*

PROVINCE/MUNICIPALITY BARANGAY	MINERAL COMMODITY	ESTIMATED RESERVES (In MT)	GRADE ANALYSIS
CATANDUANES			
1. VIRAC			
Tablora	Guano	962	
	Phosphate	354	
Calatagan	Guano	196	6.37% P ₂ O ₅
	Phosphate	72	16.20% P ₂ O ₅
Talisoy	Guano	1,486	9.74% P ₂ O ₅
	Phosphate	583	10.52% P ₂ O ₅
Eli	Manganese	79.50	
Cacao	Guano	670	18.35% P ₂ O ₅ , 0.50% N
	Phosphate	300	28.19% P ₂ O ₅ , 0.50% N
Marilima	Guano	3,694	22.4% P ₂ O ₅
	Phosphate	1,424	24.56% P ₂ O ₅
Bigaa	Limestone	147,000,000	
Calatagan	Shale/Siltstone	36,000,000	
2. BAGAMANOK			
Bacak Bagatabao Minaile Poblacion	Iron	63,000	27.5% Fe 3.00% Ti
3. BATO			
Sipi	Marble	40,000,000 cu.m. geologic reserve 6,000,000cu.m. mineable reserve	
Marinawa	Manganese	2,000	1.52-9.08% Mn
4. Calolbon (San Andres)			
Datag	Manganese	500	19-20% Mn
Carawat	Manganese	800	30.24% Mn; 2.65% Fe
Codon	Marble	66,666,666 cu.m. geological reserve 10,000,000 cu.m. mineable reserve	
Catagbacan	Marble	16,763,409 cu.m. geological reserve 2,514,511 cu.m. mineable reserve	
JM Alberto	Guano	465	
	Phosphate Rock	183	
Lictin	Guano	1,601	11.97% P ₂ O ₅
	Phosphate Rock	589	21.43% P ₂ O ₅
Manamrag Hilawan Barinay Tibang	Cement Raw	257,000,000	Limestone
	Materials	370,000,000	Shale/Sandstone
		2,880,000	Chert
5. San Miguel			
Boton	White Clay	3,600	

* source: Mineral Resources of Bicol Region, August 1990 & technical report on the Banner Mineral Commodity Program: Marble, Nov. 1994 by Vnarido, Gapuya & JMSLaud.