

2011 Minerals Yearbook

BHUTAN AND NEPAL [ADVANCE RELEASE]

THE MINERAL INDUSTRIES OF BHUTAN AND NEPAL

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BHUTAN

Bhutan had monetary and trade links mainly with India, and its economy was significantly influenced by that of India. Bhutan's economy continued to grow steadily in 2011. The growth rate of the gross domestic product (GDP) in real terms was about 8%, the GDP based on purchasing power parity was about \$4 billion, and the average inflation rate was about 7%. In addition to receiving financial assistance from India, Bhutan generated income by selling hydroelectric power to India.

The mineral industry of Bhutan was small and not a significant contributor to the country's economy. The country produced and exported cement, copper wire, ferrosilicon, and manganese. Other mineral production included coal, dolomite, and limestone (table 1; U.S. Central Intelligence Agency, 2012). On April 13, the Royal Government of Bhutan published a draft Mineral Development Policy 2011, which addressed the mineral conservation and value addition policies in Bhutan (Royal Government of Bhutan, 2011).

Dungsam Cement Construction Ltd. (DCCL) of India was constructing a cement plant at Nganglam in Pemagatshel District, which is located in southeastern Bhutan. The plant was to have a design capacity of 1.3 million metric tons per year (Mt/yr) of cement. DCCL planned to sell 90% of the plant's cement production to India and to supply the remaining 10% to the Bhutanese market. Construction of the plant was expected to be completed in December 2011. Capital for the project came from the Bank of Bhutan, Bhutan National Bank, Druk Punjab National Bank, National Pension and Provident Fund, Royal Insurance Corp. of Bhutan Ltd., Punjab National Bank, State Bank of India, and Union Bank of India (table 2; India Cement & Construction Materials, 2011; Rai, 2011).

References Cited

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NEPAL

Nepal's mineral resources were mostly unexploited, and its mineral industry was not a significant contributor to the country's economy. Nepal's real GDP growth rate in 2011 was 3.5%. The country produced cement, red clay, coal, limestone, marble, and rolled steel (table 1). In 2011, Nepal's exports increased by 11.7%; exports went mainly to Bangladesh, Germany, India, and the United States. Imports increased by 7.7% and came mainly from China and India (Asian Development Bank, 2011; U.S. Department of State, 2012).

In 2011, through the Asian Development Bank's co-financing operation program, the Organization of the Petroleum Exporting Countries Fund for International Development provided a \$20 million loan to Nepal for the country's economic development. In June, Ambuja Cements of India acquired an 85% stake in Nepal's Dang Cement Industries. Dang Cement, which held a limestone mining lease in Nepal, became an Ambuja subsidiary. Limestone is a key raw material in the production of cement, and Ambuja Cements had 25 Mt/yr of cement production capacity in India (Asian Development Bank, 2011; Business Standard, 2012).

References Cited

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 $\label{table 1} \textbf{TABLE 1}$ BHUTAN AND NEPAL: PRODUCTION OF MINERAL COMMODITIES 1

(Metric tons unless otherwise specified)

| Country and commodity ² | 2007 | 2008 | 2009 | 2010 | 2011 ^e |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| BHUTAN | 2007 | 2000 | 2007 | 2010 | 2011 |
| Cement ^e thousand metric tons | 180 | 180 | 180 | 200 | 200 |
| Coal, bituminous | 105,261 | 123,704 | 48,545 | 87,814 | 80,000 |
| Dolomite | 578,552 | 1,247,568 | 1,028,993 | 1,192,374 | 1,100,000 |
| Ferrosilicon, exports | 40,313 ^r | 30.824 ^r | 90.798 ^r | 97,528 ^r | 94,000 ^e |
| Granite square meters | 1,341 | 199 | 217 | 18,731 | 18,000 |
| Gypsum | 189,198 | 248,445 | 299,735 | 344,034 | 340,000 |
| Limestone | 543,964 | 583,707 | 591,027 | 715,956 | 700,000 |
| Marble square meters | 1,121 | 1,143 | 31 | · | |
| Quartzite | 64,049 | 94,688 | 82,578 | 104,580 | 100,000 |
| Slate square meters | 7,256 | 764 | 1,765 | · | |
| Stone | 388,721 | 408,945 | 475,614 | 716,760 | 700,000 |
| Talc | 62,015 | 56,077 | 64,381 | 26,302 | 26,000 |
| NEPAL | | | | | |
| Cement ^e thousand metric tons | 300 | 295 | 295 | 295 | 300 |
| Clay, red | 35,000 | 14,135 | 8,950 | 9,000 | 9,000 |
| Coal: | | | | | |
| Bituminous | 16,274 | 13,845 | 14,819 | 16,000 | 16,000 |
| Lignite | 98 | 60 | NA | | |
| Total | 16,372 | 13,905 | 14,819 | 16,000 | 16,000 |
| Gemstones: | | | | | |
| Quartz kilograms | 1,110 | 930 | 826 | 1,000 | 1,000 |
| Tourmaline do. | 5 | | | | |
| Total do. | 1,115 | 930 | 826 | 1,000 | 1,000 |
| Salt thousand metric tons | 2 | | | | |
| Steel, rolled ^e do. | 85 | 85 | 85 | 85 | 80 |
| Stone: | | | | | |
| Limestone | 822,042 | 701,950 | 582,999 | 580,000 | 580,000 |
| Marble: | | | | | |
| Chips | 954 | 441 | 1,047 | 900 | 900 |
| Slab, cut cubic meters | 22,110 | 1,781 | 426 | 500 | 500 |
| Craggy do. | | | 8,062 | | |
| Quartzite ^e | 3,100 | | | 3,000 | 3,000 |
| Talc | 9,043 | 7,996 | 6,601 | 9,000 | 9,000 |

^eEstimated; estimated data are rounded to no more than three significant digits; may not add to totals shown. do. Ditto. NA Not available. -- Zero.

¹Table includes data available through June 21, 2012.

²In addition to the commodities listed, crude construction materials, such as sand and gravel and a variety of stone, presumably are produced in Bhutan and Nepal, but information is inadequate to make reliable estimates of output.

${\it TABLE~2} \\ {\it BHUTAN~AND~NEPAL:}~{\it STRUCTURE~OF~THE~MINERAL~INDUSTRIES~IN~2011}$

(Thousand metric tons unless otherwise specified)

| Country and commodity | y | Major operating companies and major equity owners | Location of main facilities | Annual capacity ^e |
|-----------------------|-------------|---|--------------------------------|------------------------------|
| BHUTAN | | | | |
| Cement | | Dungsam Cement Construction Ltd. (DCCL) | Nganglam, Pemagatshel District | 1,300 |
| Do. | | Penden Cement Authority Ltd. | Gomtu, Samtse District | 348 |
| Dolomite | | Jigme Mining Corp. Ltd. | do. | 2,000 |
| Ferrosilicon | | Bhutan Ferro Alloys Ltd. (Government of Bhutan, | Phuentsholing | 34 |
| | | Marubeni Co., and Tashi Commercial Co.) | | |
| NEPAL | | | | |
| Cement | _ | Dang Cement Industries (a subsidiary of | NA | NA |
| | | Ambuja Cements of India) | | |
| Do. | | Lhaki Cement Pvt. Ltd. | Bhawani Khola | 660 |
| Do. | | Hetauda Cement Industries Ltd. | Hetauda | 260 |
| Do. | | Himal Cement Co. Ltd. | Chobhar | 130 |
| Do. | | Manasa Cement Industry | Chandragadhi, Jhapa | 37 |
| Lead and zinc | | Nepal Metal Co. Ltd. | Lari | NA |
| Magnesite | metric tons | Nepal Orind Magnesite Ltd. | Dolkha | 50 |
| Marble | | Godavari Marble Industries Ltd. | Latitpur | 1 |

^eEstimated. Do., do. Ditto. NA Not available.