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INDIAN BUREAU OF MINES
MINERAL ECONOMICS DIVISION
WORLD MINERAL INTELLIGENCE UNIT

WORLD MINERAL RESERVES

As on 2018

(Source:- Mineral Commodity Summaries, 2019, USGS)

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World Reserves of Antimony
(By Principal Countries)

(In tonnes of Antimony metal content)

Country	Reserves
World Total (rounded)	1500000
Australia	140000
Bolivia	310000
Burma	NA
China	480000
Guatemala	NA
Iran	NA
Kazakhstan	NA
Laos	NA
Mexico	18000
Pakistan	NA
Russia (Recoverable)	350000
Tajikistan	50000
Turkey	100000
USA	60000
Vietnam	NA

NA:- Not available

**World Reserves of Asbestos
(By Principal Countries)**

Country	Reserves (In tonnes)
World Total (rounded)	Large
Brazil	12000000
China	96000000
Russia	110000000
Kazakhstan	Large
USA	Small

**World Reserves of Barite
(By Principal Countries)**

(In '000 tonnes)

Country	Reserves
World Total (rounded)	320000
China	36000
India	51000
Iran	24000
Kazakhstan	85000
Mexico	NA
Morocco	NA
Pakistan	30000
Russia	12000
Thailand	18000
Turkey	35000
USA	NA
Other countries	29000

NA:- Not available.

**World Reserves of Bauxite
(By Principal Countries)**

Country	Reserves
World Total (rounded)	30000000
Australia	6000000
Brazil	2600000
Canada	-
China	1000000
Guinea	7400000
India	660000
Indonesia	1200000
Jamaica	2000000
Malayasia	110000
Russia	500000
USA	20000
Vietnam	3700000
Other countries	5200000

World Reserves of Boron
(By Principal Countries)

(In '000 tonnes)

Country	Reserves
Argentina (Crude ore)	NA
Bolivia (Ulexite)	NA
Chile(Ulexite)	35000
China (Boric Oxide equivalent)	24000
Kazakhstan (Unspecified)	NA
Peru (Crude Borates)	4000
Russia (Datolite Ore)	40000
Turkey (Concentrate)	950000
USA	40000

NA:- Not available

World Reserves of Chromium

(By Principal Countries)

(Shipping Grade)

(In '000 tonnes of chromium content)

Country	Reserves
World Total (rounded)	560000
India	100000
Kazakhstan	230000
South Africa	200000
Turkey	26000
USA	620
Other countries	NA

NA:- Not available

Shipping grade- Chromite ore, which is deposit quantity and grade normalized to 45% Cr₂O₃, except for the United States where grade is normalized to 7% Cr₂O₃.

World Reserves of Cobalt
(By Principal Countries)

(In tonnes of Cobalt content)

Country	Reserves
World Total (rounded)	6900000
Australia	1200000
Canada	250000
China	80000
Congo (Kinshasa)	3400000
Cuba	500000
Madagascar	140000
Morocco	17000
Papua New Guinea	56000
Philippines	280000
Russia	250000
South Africa	24000
USA	38000
Other countries	640000

World Reserves of Copper
(By Principal Countries)

(In '000 tonnes of copper content)

Country	Reserves
World Total (rounded)	830000
Australia	88000
Chile	170000
China	26000
Congo(Kinshasa)	20000
Indonesia	51000
Mexico	50000
Peru	83000
Russia	61000
USA	48000
Zambia	19000
Other Countries	210000

World Reserves of Diamond (Industrial)
(By Principal Countries)

Country	(In million Carats) Reserves
World Total (rounded)	1200
Australia	120
Botswana	90
Congo (Kinshasa)	150
Russia	650
South Africa	70
Zimbabwe	NA
USA	NA
Other countries	90

NA:- Not available

World Reserves of Diatomite
(By Principal Countries)

(In '000 tonnes)

Country	Reserves
World Total (rounded)	Large
Argentina	NA
China	110000
Denmark(processed)	NA
France	NA
Germany	NA
Japan	NA
Mexico	NA
Peru	NA
South Africa	NA
Spain	NA
USA	250000
Turkey	44000
Other countries	NA

NA:- Not available

**World Reserves of Fluorspar
(By Principal Countries)**

Country	Reserves (In '000 tonnes)
World Total (rounded)	310000
Argentina	NA
Brazil	1500
China	42000
Germany	NA
Iran	3400
Mexico	68000
Mongolia	22000
Morocco	460
South Africa	41000
Spain	6000
Thailand	3600
United Kingdom	4000
USA	4000
Vietnam	5000
Other countries	110000

NA:- Not available.

World Reserves of Garnet (Industrial)
(By Principal Countries)

(In tonnes of garnet)

<u>Country</u>	<u>Reserves</u>
World Total (rounded)	Moderate to Large
Australia	Moderate to large
China	Moderate to large
India	13,000,000
USA	5,000,000
Other countries	6,500,000

World Reserves of Gold

(By Principal Countries)

(In tonnes of gold content)

Country	Reserves
World Total (rounded)	54000
Australia	9800
Brazil	2400
Canada	2000
China	2000
Ghana	1000
Indonesia	2500
Kazakhstan	1000
Mexico	1400
Papua New Guinea	1300
Peru	2600
Russia	5300
South Africa	6000
Uzbekistan	1800
USA	3000
Other countries	12000

World Reserves of Graphite (Natural)
(By Principal Countries)

(In '000 tonnes)

Country	Reserves
World Total (rounded)	300000
Brazil	72000
China	73000
India	8000
Korea North	2000
Madagascar	1600
Mexico	3100
Mozambique	17000
Norway	600
Tanzania	17000
Turkey	90000
Vietnam	7600

**World Reserves of Gypsum
(By Principal Countries)**

(In '000 tonnes)

Country	Reserves
World Total (rounded)	Large
Algeria	NA
Argentina	NA
Australia	NA
Brazil	340000
Canada	450000
China	NA
Egypt	NA
France	NA
Germany	NA
India	36000
Iran	1600
Japan	NA
Mexico	NA
Oman	4900
Pakistan	NA
Russia	NA
Saudi Arabia	NA
Spain	NA
Thailand	NA
USA	700000
Turkey	200000
Other countries	NA

NA:_ Not available.

**World Reserves of Ilmenite
(By Principal Countries)**

(In '000 tonnes of of TiO₂)

Country	Reserves
World Total(rounded)	880000
Australia	250000
Brazil	43000
Canada	31000
China	230000
India	85000
Kenya	54000
Madagascar	40000
Mozambique	14000
Norway	37000
Senegal	NA
South Africa	63000
Ukraine	5900
USA	2000
Vietnam	1600
Other countries	26000

NA:- Not available.

World Reserves of Iron ore
(By Principal Countries)

(In '000' tonnes iron content)

Country	Reserves
World Total (rounded)	84000
Australia	24000
Brazil	17000
Canada	2300
China	6900
India	3200
Iran	1500
Kazakhstan	900
Russia	14000
South Africa	770
Sweden	600
Ukraine	2300
USA	760
Other countries	9500

World Reserves of Iron ore
(By Principal Countries)

(In '000' tonnes of crude ore)

Country	Reserves
World Total (rounded)	170000
Australia	50000
Brazil	32000
Canada	6000
China	20000
India	5400
Iran	2700
Kazakhstan	2500
Russia	25000
South Africa	1200
Sweden	1300
Ukraine	6500
USA	2900
Other countries	18000

**World Reserves of Kyanite and Related Minerals
(By Principal Countries)**

Country	Reserves (In tonnes)
World Total (rounded)	NA
India (Kyanite and sillimanite)	7,190,000
Peru(Andalusite)	NA
South Africa(Andalusite)	NA
USA (Kyanite)	Large

NA:- Not available.

World Reserves of Lead
(By Principal Countries)

(In '000 tonnes of lead content)

Country	Reserves
World Total (rounded)	83000
Australia	24000
Bolivia	1600
China	18000
India	2500
Kazakhstan	2000
Mexico	5600
Peru	6000
Russia	6400
Sweden	1100
USA	5000
Turkey	6100
Other countries	5000

World Reserves of Magnesite

(By Principal Countries)

(In '000 tonnes of magnesium oxide (MgO) content)

Country	Reserves
World Total (rounded)	850000
Australia	320000
Austria	50000
Brazil	390000
China	1000000
Greece	280000
India	82000
Korea North	2300000
Russia	2300000
Slovakia	120000
Spain	35000
Turkey	230000
USA	35000
Other countries	1400000

World Reserves of Manganese ore
(By Principal Countries)

(In '000 tonnes)

Country	Reserves
World Total (rounded)	760000
Australia	99000
Brazil	110000
China	54000
Gabon	65000
Ghana	13000
India	33000
Kazakhstan, concentrate	5000
Malaysia	NA
Mexico	5000
South Africa	230000
Ukraine concentrate	140000
Other countries	Small

NA:- Not available.

World Reserves of Mica (Natural)
(By Principal Countries)

(In tonnes)

Country	Reserves
World Total (rounded)	Very Large
Canada	NA
China	NA
Finland	NA
France	NA
India	110000
Korea, Republic of	NA
Madagascar	NA
Turkey	NA
USA	Very Small
Other countries	Moderate

NA:- Not available

**World Reserves of Molybdenum
(By Principal Countries)**

(In '000 tonnes of molybdenum content)

Country	Reserves
World Total (rounded)	17000
Argentina	100
Armenia	150
Canada	100
Chile	1400
China ^e	8300
Iran	43
Mexico	130
Mongolia	210
Peru	2400
Russia ^e	1000
Turkey	700
USA	2700
Uzbekistan ^e	60

e:- Estimated

World Reserves of Nickel
(By Principal Countries)

(In tonnes of nickel content)

Country	Reserves
World Total (rounded)	89000000
Australia	19000000
Brazil	11000000
Canada	2700000
China	2800000
Colombia	440000
Cuba	5500000
Finland	NA
Guatemala	1800000
Indonesia	21000000
Madagascar	1600000
New Caledonia	-
Philippines	4800000
Russia	7600000
South Africa	3700000
USA	110000
Other countries	6500000
NA	

World Reserves of Perlite
(By Principal Countries)

Country	Reserves
World Total (rounded)	NA
Armenia	NA
China	NA
Greece	120000
Hungary	49000
Iran	NA
Mexico	NA
New Zealand	NA
Turkey	57000
USA	50000
Other countries	NA

NA:- Not available.

**World Reserves of Platinum Group Metals
(By Principal Countries)**

(In Kg. of PGM content)

Country	Reserves
World Total (rounded)	69000000
Canada	310000
Russia	3900000
South Africa	63000000
USA	900000
Zimbabwe	1200000
Other countries	NA

NA:- Not available.

World Reserves of Phosphate Rock
(By Principal Countries)

(In '000 tonnes)

Country	Reserves
World Total (rounded)	7000000
Algeria	2200000
Australia	1100000
Brazil	1700000
China	3200000
Egypt	1300000
Finland	1000000
India	46000
Israel	67000
Jordan	1000000
Kazakhstan	260000
Mexico	30000
Morocco & Western Sahara	5000000
Peru	400000
Russia	600000
Saudi Arabia	1400000
Senegal	50000
South Africa	1500000
Syria	1800000
Togo	30000
Tunisia	100000
Uzbekistan	100000
USA	1000000
Vietnam	30000
Other countries	770000

**World Reserves of Potash
(By Principal Countries)**

(In '000 of K₂O tonnes)

Country	Reserves
World Total (rounded)	5800000
Belarus	750000
Brazil	24000
Canada	1200000
Chile	100000
China	350000
Germany	150000
Israel	270000
Jordan	270000
Russia	2000000
Spain	41000
UK	170000
USA	220000
Other countries	280000

World Reserves of Talc and Pyrophyllite

(By Principal Countries)

(In '000 tonnes)

Country	Reserves
World Total (rounded)	Large
Brazil(Crude& beneficiated)	44000
China(Unspecified Minerals)	82000
Finland	Large
France(Crude)	Large
India	110000
Japan	100000
Korea Rep. of	8100
USA(Crude)	140000
Other countries (includes crude)	Large

World Reserves of Rare Earths

(By Principal Countries)

(In tonnes of rare-earth oxide (REO) content)

Country	Reserves
World Total (rounded)	120000000
Australia	3400000
Brazil	22000000
Burma (Myanmar)	NA
Burundi	NA
China	44000000
India	6900000
Malaysia	30000
Russia	12000000
Thailand	NA
Vietnam	22000000
USA	1400000
Other countries	4400000

NA:- Nota available.

World Reserves of Rutile
(By Principal Countries)

(In '000 tonnes of TiO₂)

Country	Reserves
World Total (rounded)	62000
Australia	29000
India	7400
Kenya	13000
Mozambique	880
Senegal	NA
Sierra Leone	490
South Africa	8300
Ukraine	2500
Other countries	400

NA:- Not available.

World Reserves of Selenium
(By Principal Countries)

(In tonnes of Selenium content)

Country	Reserves
World Total (rounded)	99000
Canada	6000
China	26000
Peru	13000
Poland	3000
Russia	20000
USA	10000
Other countries	21000

World Reserves of Silver
(By Principal Countries)

(In tonnes of silver content)

Country	Reserves
World Total (rounded)	560000
Argentina	NA
Australia	89000
Bolivia	22000
Chile	26000
China	41000
Mexico	37000
Peru	110000
Poland	110000
USA	25000
Russia	45000
Other countries	57000

NA:- Not available.

World Reserves of Sulphur

Reserves of sulphur in crude oil, natural gas and sulphide ores are large. Because most sulphur production is a result of the processing of fossil fuels, supplies should be adequate for the foreseeable future. Because petroleum and sulphide ores can be processed long distances from where they are produced, sulphur production may not be in the country for which the reserves were attributed. For instance, sulfur from Saudi Arabian oil may be recovered at refineries in the United States.

World Reserves of Tellurium
(By Principal Countries)

(In tonnes)

Country	Reserves
World Total (rounded)	31000
Bulgaria	NA
Canada	800
China	6600
Russia	NA
Sweden	670
USA	3500
Other countries	16000

NA:- Not available.

World Reserves of Tin
(By Principal Countries)

In tonnes of Tin content)

Country	Reserves
World Total (rounded)	4700000
Australia	370000
Bolivia	400000
Brazil	700000
Burma	110000
China	1100000
Congo (Kinshasa)	150000
Indonesia	800000
Malaysia	250000
Nigeria	NA
Peru	110000
Russia	350000
Rwanda	NA
Thailand	170000
USA	-
Vietnam	11000
Other countries	180000

NA:- Not available

World Reserves of Tungsten
(By Principal Countries)

(In tonnes of Tungsten content)

Country	Reserves
World Total (rounded)	3300000
Austria	10000
Bolivia	NA
China	1900000
Portugal	3100
Russia	240000
Rawanda	NA
Spain	54000
UK	43000
Vieatnam	95000
USA	NA
Other countries	1000000

NA:- Not available

World Reserves of Vanadium
(By Principal Countries)

In 000 tonnes of Vanadium content)

Country	Reserves
World Total (rounded)	20000
Australia	2100
Brazil	130
China	9500
Russia	5000
South Africa	3500
USA	45

**World Reserves of Vermiculite
(By Principal Countries)**

(In '000 tonnes)

Country	Reserves
World Total (rounded)	NA
Brazil	6200
Bulgaria	NA
China	NA
Egypt	NA
India	1600
Russia	NA
South Africa	14000
Uganda	NA
USA ^e	25000
Zimbabwe	NA
Other countries	NA

NA:- Not available

**World Reserves of Zinc
(By Principal Countries)**

(In 000 tonnes of Zinc content)

Country	Reserves
World Total (rounded)	230000
Australia	64000
Bolivia	4800
Canada	3000
China	44000
India	10000
Kazakhstan	13000
Mexico	20000
Peru	21000
Sweden	1400
USA	11000
Other countries	33000

World Reserves of Zirconium
(By Principal Countries)

(In 000' tonnes of ZrO₂ content)

Country	Reserves
World Total (rounded)	73000
Australia	42000
China	500
Indonesia	NA
Kenya	3600
Mozambique	1800
Senegal	NA
South Africa	14000
USA	500
Other countries	10600

NA:- Not available