

## Mineral Import of Thailand 2020 - 2021 (Jan. - Sep.)

Source: Information and Communication Technology Center., DPIM, in cooperation with the Customs Department.

Quantity : Tonnes Value : Million Baht

| Mineral                                 | 2020       |                 | 2021       |                 | Percentage |               |
|-----------------------------------------|------------|-----------------|------------|-----------------|------------|---------------|
|                                         | Quantity   | Value           | Quantity   | Value           | Quantity   | Value         |
| Aluminium ore                           | 9,979      | 114.8           | 16,856     | 224.1           | 68.92%     | 95.26%        |
| Andalusite, Kyannite and Sillimanite    | 2,081      | 24.4            | 2,831      | 35.0            | 36.07%     | 43.30%        |
| Anhydrite                               | -          | -               | -          | -               | -          | -             |
| Anthracite                              | 113,057    | 448.9           | 100,509    | 424.9           | -11.10%    | -5.34%        |
| Antimony ore                            | 1,029      | 23.7            | 4,749      | 518.0           | 361.66%    | 2086.45%      |
| Apatite (ground)                        | 2,130      | 6.6             | 3,313      | 9.0             | 55.55%     | 36.14%        |
| Asbestos                                | 30,378     | 399.0           | 25,673     | 359.8           | -15.49%    | -9.84%        |
| Attapulgite                             | -          | -               | 28         | 0.5             | -          | -             |
| Ball Clay                               | 17,105     | 96.9            | 22,170     | 143.1           | 29.61%     | 47.63%        |
| Barite                                  | 61,890     | 130.1           | 63,891     | 129.2           | 3.23%      | -0.71%        |
| Basalt                                  | 22,028     | 90.1            | 8,878      | 53.8            | -59.70%    | -40.22%       |
| Bentonite                               | 97,545     | 529.4           | 120,021    | 729.2           | 23.04%     | 37.75%        |
| Bituminous coal                         | 6,513,453  | 15,676.1        | 7,157,428  | 18,092.5        | 9.89%      | 15.41%        |
| Calcite                                 | 47         | 0.0             | -          | -               | -          | -             |
| Chalk                                   | 21         | 0.3             | 38         | 0.6             | 81.69%     | 71.79%        |
| Chromite ore                            | 981        | 10.7            | 1,035      | 11.1            | 5.57%      | 2.86%         |
| Coal Solid Fuels from Coal              | 11,554,688 | 16,558.8        | 11,559,133 | 22,973.2        | 0.04%      | 38.74%        |
| Cobalt ore                              | 0          | 0.2             | 0          | 0.4             | 34.85%     | 75.62%        |
| Coke                                    | 14,025     | 194.1           | 10,562     | 185.8           | -24.69%    | -4.29%        |
| Columbite                               | 216        | 70.7            | -          | -               | -          | -             |
| Copper                                  | 1,258      | 3.5             | 7,463      | 30.0            | 493.16%    | 751.50%       |
| Dolomite                                | 970        | 15.9            | 405        | 4.9             | -58.25%    | -69.16%       |
| Ecaussine                               | -          | -               | -          | -               | -          | -             |
| Emery                                   | 4,883      | 47.4            | 5,770      | 70.9            | 18.18%     | 49.55%        |
| Epsomite                                | 77         | 0.8             | 63         | 0.6             | -18.23%    | -14.27%       |
| Feldspar                                | -          | -               | -          | -               | -          | -             |
| - Potassium, Sodium Feldspar            | 16,153     | 64.7            | 27,131     | 101.8           | 67.97%     | 57.36%        |
| - Other Feldspar                        | 10,694     | 47.7            | 13,199     | 52.8            | 23.42%     | 10.62%        |
| Fireclay                                | 594        | 8.7             | 950        | 11.7            | 59.96%     | 33.85%        |
| Flint                                   | 288,262    | 55.8            | 325,136    | 68.8            | 12.79%     | 23.21%        |
| Fluorite                                | 7,331      | 25.2            | 8,435      | 50.5            | 15.05%     | 100.24%       |
| Granite                                 | 56,605     | 191.0           | 37,506     | 176.8           | -33.74%    | -7.43%        |
| Graphite                                | 5,480      | 77.5            | 5,773      | 122.5           | 5.36%      | 58.09%        |
| Gypsum                                  | 236        | 5.0             | 177        | 3.8             | -25.03%    | -24.90%       |
| ilmenite ore                            | 72         | 3.2             | 104        | 4.7             | 44.58%     | 44.07%        |
| Iron ore                                | 325        | 4.2             | 1,413      | 8.7             | 335.11%    | 109.74%       |
| Iron Pyrites                            | 785        | 6.3             | 2,379      | 14.2            | 202.99%    | 127.09%       |
| Kaolin                                  | -          | -               | -          | -               | -          | -             |
| - Ceramic                               | 20,877     | 129.1           | 30,947     | 227.8           | 48.23%     | 76.45%        |
| - Paper                                 | 7,488      | 69.3            | 6,920      | 72.3            | -7.59%     | 4.44%         |
| - Others                                | 37,207     | 380.6           | 53,465     | 525.7           | 43.69%     | 38.11%        |
| Kieserite                               | 3,941      | 17.7            | 9,571      | 51.4            | 142.86%    | 190.20%       |
| Lead ore                                | 51         | 20.2            | 136        | 80.9            | 168.76%    | 301.14%       |
| Lignite                                 | 113,192    | 102.1           | 210,637    | 202.7           | 86.09%     | 98.57%        |
| Limestone                               | 1,339      | 14.4            | 2,080      | 28.1            | 55.28%     | 95.40%        |
| Lucite, Nepheline and Nepheline Syenite | 405        | 10.9            | 641        | 19.1            | 58.37%     | 74.66%        |
| Magnesite                               | 889        | 10.6            | 3,337      | 47.8            | 275.61%    | 352.42%       |
| Manganese ore                           | 61,232     | 95.0            | 14,079     | 25.2            | -77.01%    | -73.42%       |
| Marble                                  | 17,598     | 251.8           | 15,541     | 253.8           | -11.69%    | 0.81%         |
| Mica                                    | 3,707      | 93.7            | 5,625      | 143.9           | 51.72%     | 53.61%        |
| Molybdenite ore                         | 7,339      | 982.6           | 5,346      | 1,301.9         | -27.15%    | 32.50%        |
| Mullite                                 | 1,079      | 16.5            | 2,252      | 36.5            | 108.66%    | 121.18%       |
| Nickel ore                              | 4          | 1.9             | 3          | 2.5             | -15.36%    | 33.51%        |
| Niobium and Vanadium ore                | 35,376     | 612.8           | 51,221     | 1,480.5         | 44.79%     | 141.58%       |
| Orpiment                                | 688        | 5.1             | 1,056      | 8.6             | 53.51%     | 69.04%        |
| Peat                                    | 16,248     | 127.1           | 21,164     | 195.4           | 30.25%     | 53.79%        |
| Phosphate                               | -          | -               | -          | -               | -          | -             |
| - Ground                                | -          | -               | -          | -               | -          | -             |
| - Unground                              | 1          | 0.8             | 0          | 0.0             | -97.13%    | -98.56%       |
| Potash                                  | -          | -               | -          | -               | -          | -             |
| Pumice stone                            | 5,230      | 37.5            | 8,870      | 64.1            | 69.60%     | 71.11%        |
| Pyrophyllite                            | 80         | 0.5             | 160        | 1.1             | 100.00%    | 109.57%       |
| Quartz                                  | 14,493     | 115.8           | 49,211     | 374.7           | 239.54%    | 223.73%       |
| Rock salt                               | 266        | 1.9             | 263        | 3.5             | -0.98%     | 82.17%        |
| Sandstone                               | 1,744      | 3.5             | 564        | 7.1             | -67.67%    | 105.74%       |
| Serpentine                              | 211        | 2.5             | 55         | 0.7             | -73.76%    | -71.81%       |
| Silica sand                             | 74,506     | 269.5           | 64,992     | 416.2           | -12.77%    | 54.41%        |
| Silver ore                              | 6          | 0.5             | 8          | 0.6             | 35.14%     | 32.42%        |
| Slate                                   | 49         | 0.7             | 48         | 0.8             | -1.37%     | 11.36%        |
| Steatite                                | 582        | 8.3             | 919        | 13.2            | 58.00%     | 58.11%        |
| Sulphur                                 | 73,949     | 234.8           | 94,541     | 612.1           | 27.85%     | 160.64%       |
| Talc                                    | 86,905     | 843.8           | 117,782    | 1,334.1         | 35.53%     | 58.12%        |
| Tantalite                               | 269        | 377.6           | 673        | 957.5           | 150.24%    | 153.55%       |
| Thorium ore                             | -          | -               | -          | -               | -          | -             |
| Tin ore                                 | 12,754     | 3,686.4         | 14,583     | 7,368.5         | 14.35%     | 99.88%        |
| Titanium ore                            | -          | -               | -          | -               | -          | -             |
| - Rutile                                | 3,745      | 172.7           | 1,094      | 52.6            | -70.79%    | -69.51%       |
| - Leucoxene                             | 301        | 12.1            | 420        | 17.4            | 39.53%     | 43.86%        |
| - Ilmenite                              | 421        | 5.0             | 332        | 11.2            | -21.05%    | 125.05%       |
| - Other Titanium ore                    | 152        | 6.7             | 388        | 18.3            | 154.93%    | 171.09%       |
| Tungsten (other)                        | -          | -               | -          | -               | -          | -             |
| Vermiculite, Perlite and Chlorites      | 2,895      | 33.5            | 3,239      | 34.2            | 11.91%     | 2.00%         |
| Witherite                               | 50         | 0.7             | 50         | 0.8             | 0.00%      | 5.94%         |
| Zinc ore                                | 1,669      | 5.1             | 5,468      | 14.6            | 227.56%    | 187.84%       |
| Zirconium ore                           | 6,323      | 277.5           | 18,099     | 510.2           | 186.25%    | 83.84%        |
| <b>Total</b>                            |            | <b>43,970.4</b> |            | <b>61,130.3</b> |            | <b>39.03%</b> |

0\* denoting the amount of less than 0.1 metric tonnes

0.0\*\* denoting the amount of less than 0.05 million baht

# Mineral Import of Thailand 2020 - 2021 (Jan. - Sep.) by Group

Quantity : Tonnes

Source: Information and Communication Technology Center., DPIM, in cooperation with the Customs Department.

Value : Million Baht

| Mineral                                   | 2020       |          | 2021       |          | Percentage |          |
|-------------------------------------------|------------|----------|------------|----------|------------|----------|
|                                           | Quantity   | Value    | Quantity   | Value    | Quantity   | Value    |
| <b>Mineral Fuels and Energy</b>           |            |          |            |          |            |          |
| Anthracite                                | 113,057    | 448.9    | 100,509    | 424.9    | -11.10%    | -5.34%   |
| Bituminous coal                           | 6,513,453  | 15,676.1 | 7,157,428  | 18,092.5 | 9.89%      | 15.41%   |
| Coal Solid Fuels from Coal                | 11,554,688 | 16,558.8 | 11,559,133 | 22,973.2 | 0.04%      | 38.74%   |
| Coke                                      | 14,025     | 194.1    | 10,562     | 185.8    | -24.69%    | -4.29%   |
| Lignite                                   | 113,192    | 102.1    | 210,637    | 202.7    | 86.09%     | 98.57%   |
| Peat                                      | 16,248     | 127.1    | 21,164     | 195.4    | 30.25%     | 53.79%   |
| Total                                     |            | 33,107.1 |            | 42,074.5 |            | 27.09%   |
| %                                         |            | 75.3     |            | 68.8     |            | -8.59%   |
| <b>Iron and Ferro Alloy</b>               |            |          |            |          |            |          |
| Chromite ore                              | 981        | 10.7     | 1,035      | 11.1     | 5.57%      | 2.86%    |
| Cobalt ore                                | 0          | 0.2      | 0          | 0.4      | 34.85%     | 75.62%   |
| Columbite                                 | 216        | 70.7     | -          | -        | -          | -        |
| Iron ore                                  | 325        | 4.2      | 1,413      | 8.7      | 335.11%    | 109.74%  |
| Iron Pyrites                              | 785        | 6.3      | 2,379      | 14.2     | 202.99%    | 127.09%  |
| Manganese ore                             | 61,232     | 95.0     | 14,079     | 25.2     | -77.01%    | -73.42%  |
| Molybdenite ore                           | 7,339      | 982.6    | 5,346      | 1,301.9  | -27.15%    | 32.50%   |
| Nickel ore                                | 4          | 1.9      | 3          | 2.5      | -15.36%    | 33.51%   |
| Tungsten (other)                          | -          | -        | -          | -        | -          | -        |
| Total                                     |            | 1,171.4  |            | 1,364.0  |            | 16.44%   |
| %                                         |            | 2.7      |            | 2.2      |            | -16.25%  |
| <b>Base Metals</b>                        |            |          |            |          |            |          |
| Aluminium ore                             | 9,979      | 114.8    | 16,856     | 224.1    | 68.92%     | 95.26%   |
| Antimony ore                              | 1,029      | 23.7     | 4,749      | 518.0    | 361.66%    | 2086.45% |
| Copper                                    | 1,258      | 3.5      | 7,463      | 30.0     | 493.16%    | 751.50%  |
| Lead ore                                  | 51         | 20.2     | 136        | 80.9     | 168.76%    | 301.14%  |
| Tin ore                                   | 12,754     | 3,686.4  | 14,583     | 7,368.5  | 14.35%     | 99.88%   |
| Zinc ore                                  | 1,669      | 5.1      | 5,468      | 14.6     | 227.56%    | 187.84%  |
| Total                                     |            | 3,853.6  |            | 8,236.0  |            | 113.72%  |
| %                                         |            | 8.8      |            | 13.5     |            | 53.73%   |
| <b>Precious Metals and Precious Stone</b> |            |          |            |          |            |          |
| Emery                                     | 4,883      | 47.4     | 5,770      | 70.9     | 18.18%     | 49.55%   |
| Silver ore                                | 6          | 0.5      | 8          | 0.6      | 35.14%     | 32.42%   |
| Total                                     |            | 47.9     |            | 71.5     |            | 49.38%   |
| %                                         |            | 0.1      |            | 0.1      |            | 7.45%    |
| <b>Light Metals and Rare Earth</b>        |            |          |            |          |            |          |
| ilmenite ore                              | 72         | 3.2      | 104        | 4.7      | 44.58%     | 44.07%   |
| Niobium and Vanadium ore                  | 35,376     | 612.8    | 51,221     | 1,480.5  | 44.79%     | 141.58%  |
| Tantalite                                 | 269        | 377.6    | 673        | 957.5    | 150.24%    | 153.55%  |
| Thorium ore                               | -          | -        | -          | -        | -          | -        |
| Titanium ore                              |            |          |            |          |            |          |
| - Rutile                                  | 3,745      | 172.7    | 1,094      | 52.6     | -70.79%    | -69.51%  |
| - Leucoxene                               | 301        | 12.1     | 420        | 17.4     | 39.53%     | 43.86%   |
| - Ilmenite                                | 421        | 5.0      | 332        | 11.2     | -21.05%    | 125.05%  |
| - Other Titanium ore                      | 152        | 6.7      | 388        | 18.3     | 154.93%    | 171.09%  |
| Zirconium ore                             | 6,323      | 277.5    | 18,099     | 510.2    | 186.25%    | 83.84%   |
| Total                                     |            | 1,467.7  |            | 3,052.4  |            | 107.97%  |
| %                                         |            | 3.3      |            | 5.0      |            | 49.59%   |
| <b>Cement Industrial Minerals</b>         |            |          |            |          |            |          |
| Anhydrite                                 | -          | -        | -          | -        | -          | -        |
| Gypsum                                    | 236        | 5.0      | 177        | 3.8      | -25.03%    | -24.90%  |
| Limestone                                 | 1,339      | 14.4     | 2,080      | 28.1     | 55.28%     | 95.40%   |
| Total                                     |            | 19.4     |            | 31.8     |            | 64.27%   |
| %                                         |            | 0.0      |            | 0.1      |            | 18.16%   |

0\* denoting the amount of less than 0.1 metric tonnes

0.0\*\* denoting the amount of less than 0.05 million baht

# Mineral Import of Thailand 2020 - 2021 (Jan. - Sep.) by Group

Quantity : Tonnes

Source: Information and Communication Technology Center., DPIM, in cooperation with the Customs Department.

Value : Million Baht

| Mineral                                 | 2020     |                 | 2021     |                 | Percentage |               |
|-----------------------------------------|----------|-----------------|----------|-----------------|------------|---------------|
|                                         | Quantity | Value           | Quantity | Value           | Quantity   | Value         |
| <b>Ceramic Industrial Minerals</b>      |          |                 |          |                 |            |               |
| Andalusite, Kyannite and Sillimanite    | 2,081    | 24.4            | 2,831    | 35.0            | 36.07%     | 43.30%        |
| Attapulgite                             | -        | -               | 28       | 0.5             | -          | -             |
| Ball Clay                               | 17,105   | 96.9            | 22,170   | 143.1           | 29.61%     | 47.63%        |
| Dolomite                                | 970      | 15.9            | 405      | 4.9             | -58.25%    | -69.16%       |
| Feldspar                                |          |                 |          |                 |            |               |
| - Potassium, Sodium Feldspar            | 16,153   | 64.7            | 27,131   | 101.8           | 67.97%     | 57.36%        |
| - Other Feldspar                        | 10,694   | 47.7            | 13,199   | 52.8            | 23.42%     | 10.62%        |
| Kaolin                                  |          |                 |          |                 |            |               |
| - Ceramic                               | 20,877   | 129.1           | 30,947   | 227.8           | 48.23%     | 76.45%        |
| - Paper                                 | 7,488    | 69.3            | 6,920    | 72.3            | -7.59%     | 4.44%         |
| - Others                                | 37,207   | 380.6           | 53,465   | 525.7           | 43.69%     | 38.11%        |
| Lucite, Nepheline and Nepheline Syenite | 405      | 10.9            | 641      | 19.1            | 58.37%     | 74.66%        |
| Mullite                                 | 1,079    | 16.5            | 2,252    | 36.5            | 108.66%    | 121.18%       |
| Quartz                                  | 14,493   | 115.8           | 49,211   | 374.7           | 239.54%    | 223.73%       |
| Silica sand                             | 74,506   | 269.5           | 64,992   | 416.2           | -12.77%    | 54.41%        |
| Total                                   |          | 1,241.3         |          | 2,010.3         |            | 61.95%        |
| %                                       |          | 2.8             |          | 3.3             |            | 16.49%        |
| <b>Dimension Stone</b>                  |          |                 |          |                 |            |               |
| Ecaussine                               | -        | -               | -        | -               | -          | -             |
| Granite                                 | 56,605   | 191.0           | 37,506   | 176.8           | -33.74%    | -7.43%        |
| Marble                                  | 17,598   | 251.8           | 15,541   | 253.8           | -11.69%    | 0.81%         |
| Sandstone                               | 1,744    | 3.5             | 564      | 7.1             | -67.67%    | 105.74%       |
| Serpentine                              | 211      | 2.5             | 55       | 0.7             | -73.76%    | -71.81%       |
| Slate                                   | 49       | 0.7             | 48       | 0.8             | -1.37%     | 11.36%        |
| Total                                   |          | 449.5           |          | 439.3           |            | -2.27%        |
| %                                       |          | 1.0             |          | 0.7             |            | -29.71%       |
| <b>Industrial Rock</b>                  |          |                 |          |                 |            |               |
| Basalt                                  | 22,028   | 90.1            | 8,878    | 53.8            | -59.70%    | -40.22%       |
| Flint                                   | 288,262  | 55.8            | 325,136  | 68.8            | 12.79%     | 23.21%        |
| Pumice stone                            | 5,230    | 37.5            | 8,870    | 64.1            | 69.60%     | 71.11%        |
| Vermiculite, Perlite and Chlorites      | 2,895    | 33.5            | 3,239    | 34.2            | 11.91%     | 2.00%         |
| Total                                   |          | 216.9           |          | 221.0           |            | 1.87%         |
| %                                       |          | 0.5             |          | 0.4             |            | -26.72%       |
| <b>Other Industrial Minerals</b>        |          |                 |          |                 |            |               |
| Apatite (ground)                        | 2,130    | 6.6             | 3,313    | 9.0             | 55.55%     | 36.14%        |
| Asbestos                                | 30,378   | 399.0           | 25,673   | 359.8           | -15.49%    | -9.84%        |
| Barite                                  | 61,890   | 130.1           | 63,891   | 129.2           | 3.23%      | -0.71%        |
| Bentonite                               | 97,545   | 529.4           | 120,021  | 729.2           | 23.04%     | 37.75%        |
| Calcite                                 | 47       | 0.0             | -        | -               | -          | -             |
| Chalk                                   | 21       | 0.3             | 38       | 0.6             | 81.69%     | 71.79%        |
| Epsomite                                | 77       | 0.8             | 63       | 0.6             | -18.23%    | -14.27%       |
| Fireclay                                | 594      | 8.7             | 950      | 11.7            | 59.96%     | 33.85%        |
| Fluorite                                | 7,331    | 25.2            | 8,435    | 50.5            | 15.05%     | 100.24%       |
| Graphite                                | 5,480    | 77.5            | 5,773    | 122.5           | 5.36%      | 58.09%        |
| Kieserite                               | 3,941    | 17.7            | 9,571    | 51.4            | 142.86%    | 190.20%       |
| Magnesite                               | 889      | 10.6            | 3,337    | 47.8            | 275.61%    | 352.42%       |
| Mica                                    | 3,707    | 93.7            | 5,625    | 143.9           | 51.72%     | 53.61%        |
| Orpiment                                | 688      | 5.1             | 1,056    | 8.6             | 53.51%     | 69.04%        |
| Phosphate                               |          |                 |          |                 |            |               |
| - Ground                                | -        | -               | -        | -               | -          | -             |
| - Unground                              | 1        | 0.8             | 0        | 0.0             | -97.13%    | -98.56%       |
| Potash                                  | -        | -               | -        | -               | -          | -             |
| Pyrophyllite                            | 80       | 0.5             | 160      | 1.1             | 100.00%    | 109.57%       |
| Rock salt                               | 266      | 1.9             | 263      | 3.5             | -0.98%     | 82.17%        |
| Steatite                                | 582      | 8.3             | 919      | 13.2            | 58.00%     | 58.11%        |
| Sulphur                                 | 73,949   | 234.8           | 94,541   | 612.1           | 27.85%     | 160.64%       |
| Talc                                    | 86,905   | 843.8           | 117,782  | 1,334.1         | 35.53%     | 58.12%        |
| Witherite                               | 50       | 0.7             | 50       | 0.8             | 0.00%      | 5.94%         |
| Total                                   |          | 2,395.6         |          | 3,629.5         |            | 51.51%        |
| %                                       |          | 5.4             |          | 5.9             |            | 8.98%         |
| <b>Total</b>                            |          | <b>43,970.4</b> |          | <b>61,130.3</b> |            | <b>39.03%</b> |

0\* denoting the amount of less than 0.1 metric tonnes

0.0\*\* denoting the amount of less than 0.05 million baht

## Mineral Import of Thailand 2020 - 2021 (Jan. - Sep.) by Value

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Quantity : Tonnes Value : Million Baht

| Mineral                                 | 2020       |                 | 2021       |                 | Percentage |               |
|-----------------------------------------|------------|-----------------|------------|-----------------|------------|---------------|
|                                         | Quantity   | Value           | Quantity   | Value           | Quantity   | Value         |
| Coal Solid Fuels from Coal              | 11,554,688 | 16,558.8        | 11,559,133 | 22,973.2        | 0.04%      | 38.74%        |
| Bituminous coal                         | 6,513,453  | 15,676.1        | 7,157,428  | 18,092.5        | 9.89%      | 15.41%        |
| Tin ore                                 | 12,754     | 3,686.4         | 14,583     | 7,368.5         | 14.35%     | 99.88%        |
| Niobium and Vanadium ore                | 35,376     | 612.8           | 51,221     | 1,480.5         | 44.79%     | 141.58%       |
| Talc                                    | 86,905     | 843.8           | 117,782    | 1,334.1         | 35.53%     | 58.12%        |
| Molybdenite ore                         | 7,339      | 982.6           | 5,346      | 1,301.9         | -27.15%    | 32.50%        |
| Tantalite                               | 269        | 377.6           | 673        | 957.5           | 150.24%    | 153.55%       |
| Kaolin                                  |            |                 |            |                 |            |               |
| - Ceramic                               | 20,877     | 129.1           | 30,947     | 227.8           | 48.23%     | 76.45%        |
| - Paper                                 | 7,488      | 69.3            | 6,920      | 72.3            | -7.59%     | 4.44%         |
| - Others                                | 37,207     | 380.6           | 53,465     | 525.7           | 43.69%     | 38.11%        |
| Bentonite                               | 97,545     | 529.4           | 120,021    | 729.2           | 23.04%     | 37.75%        |
| Sulphur                                 | 73,949     | 234.8           | 94,541     | 612.1           | 27.85%     | 160.64%       |
| Antimony ore                            | 1,029      | 23.7            | 4,749      | 518.0           | 361.66%    | 2086.45%      |
| Zirconium ore                           | 6,323      | 277.5           | 18,099     | 510.2           | 186.25%    | 83.84%        |
| Anthracite                              | 113,057    | 448.9           | 100,509    | 424.9           | -11.10%    | -5.34%        |
| Silica sand                             | 74,506     | 269.5           | 64,992     | 416.2           | -12.77%    | 54.41%        |
| Quartz                                  | 14,493     | 115.8           | 49,211     | 374.7           | 239.54%    | 223.73%       |
| Asbestos                                | 30,378     | 399.0           | 25,673     | 359.8           | -15.49%    | -9.84%        |
| Marble                                  | 17,598     | 251.8           | 15,541     | 253.8           | -11.69%    | 0.81%         |
| Aluminium ore                           | 9,979      | 114.8           | 16,856     | 224.1           | 68.92%     | 95.26%        |
| Lignite                                 | 113,192    | 102.1           | 210,637    | 202.7           | 86.09%     | 98.57%        |
| Peat                                    | 16,248     | 127.1           | 21,164     | 195.4           | 30.25%     | 53.79%        |
| Coke                                    | 14,025     | 194.1           | 10,562     | 185.8           | -24.69%    | -4.29%        |
| Granite                                 | 56,605     | 191.0           | 37,506     | 176.8           | -33.74%    | -7.43%        |
| Feldspar                                |            |                 |            |                 |            |               |
| - Potassium, Sodium Feldspar            | 16,153     | 64.7            | 27,131     | 101.8           | 67.97%     | 57.36%        |
| - Other Feldspar                        | 10,694     | 47.7            | 13,199     | 52.8            | 23.42%     | 10.62%        |
| Mica                                    | 3,707      | 93.7            | 5,625      | 143.9           | 51.72%     | 53.61%        |
| Ball Clay                               | 17,105     | 96.9            | 22,170     | 143.1           | 29.61%     | 47.63%        |
| Barite                                  | 61,890     | 130.1           | 63,891     | 129.2           | 3.23%      | -0.71%        |
| Graphite                                | 5,480      | 77.5            | 5,773      | 122.5           | 5.36%      | 58.09%        |
| Titanium ore                            |            |                 |            |                 |            |               |
| - Rutile                                | 3,745      | 172.7           | 1,094      | 52.6            | -70.79%    | -69.51%       |
| - Leucosene                             | 301        | 12.1            | 420        | 17.4            | 39.53%     | 43.86%        |
| - Ilmenite                              | 421        | 5.0             | 332        | 11.2            | -21.05%    | 125.05%       |
| - Other Titanium ore                    | 152        | 6.7             | 388        | 18.3            | 154.93%    | 171.09%       |
| Lead ore                                | 51         | 20.2            | 136        | 80.9            | 168.76%    | 301.14%       |
| Emery                                   | 4,883      | 47.4            | 5,770      | 70.9            | 18.18%     | 49.55%        |
| Flint                                   | 288,262    | 55.8            | 325,136    | 68.8            | 12.79%     | 23.21%        |
| Pumice stone                            | 5,230      | 37.5            | 8,870      | 64.1            | 69.60%     | 71.11%        |
| Basalt                                  | 22,028     | 90.1            | 8,878      | 53.8            | -59.70%    | -40.22%       |
| Kieserite                               | 3,941      | 17.7            | 9,571      | 51.4            | 142.86%    | 190.20%       |
| Fluorite                                | 7,331      | 25.2            | 8,435      | 50.5            | 15.05%     | 100.24%       |
| Magnesite                               | 889        | 10.6            | 3,337      | 47.8            | 275.61%    | 352.42%       |
| Mullite                                 | 1,079      | 16.5            | 2,252      | 36.5            | 108.66%    | 121.18%       |
| Andalusite, Kyannite and Sillimanite    | 2,081      | 24.4            | 2,831      | 35.0            | 36.07%     | 43.30%        |
| Vermiculite, Perlite and Chlorites      | 2,895      | 33.5            | 3,239      | 34.2            | 11.91%     | 2.00%         |
| Copper                                  | 1,258      | 3.5             | 7,463      | 30.0            | 493.16%    | 751.50%       |
| Limestone                               | 1,339      | 14.4            | 2,080      | 28.1            | 55.28%     | 95.40%        |
| Manganese ore                           | 61,232     | 95.0            | 14,079     | 25.2            | -77.01%    | -73.42%       |
| Lucite, Nepheline and Nepheline Syenite | 405        | 10.9            | 641        | 19.1            | 58.37%     | 74.66%        |
| Zinc ore                                | 1,669      | 5.1             | 5,468      | 14.6            | 227.56%    | 187.84%       |
| Iron Pyrites                            | 785        | 6.3             | 2,379      | 14.2            | 202.99%    | 127.09%       |
| Steatite                                | 582        | 8.3             | 919        | 13.2            | 58.00%     | 58.11%        |
| Fireclay                                | 594        | 8.7             | 950        | 11.7            | 59.96%     | 33.85%        |
| Chromite ore                            | 981        | 10.7            | 1,035      | 11.1            | 5.57%      | 2.86%         |
| Apatite (ground)                        | 2,130      | 6.6             | 3,313      | 9.0             | 55.55%     | 36.14%        |
| Iron ore                                | 325        | 4.2             | 1,413      | 8.7             | 335.11%    | 109.74%       |
| Orpiment                                | 688        | 5.1             | 1,056      | 8.6             | 53.51%     | 69.04%        |
| Sandstone                               | 1,744      | 3.5             | 564        | 7.1             | -67.67%    | 105.74%       |
| Dolomite                                | 970        | 15.9            | 405        | 4.9             | -58.25%    | -69.16%       |
| ilmenite ore                            | 72         | 3.2             | 104.1      | 4.7             | 44.58%     | 44.07%        |
| Gypsum                                  | 236        | 5.0             | 177        | 3.8             | -25.03%    | -24.90%       |
| Rock salt                               | 266        | 1.9             | 263        | 3.5             | -0.98%     | 82.17%        |
| Nickel ore                              | 4          | 1.9             | 3          | 2.5             | -15.36%    | 33.51%        |
| Pyrophyllite                            | 80         | 0.5             | 160        | 1.1             | 100.00%    | 109.57%       |
| Witherite                               | 50         | 0.7             | 50         | 0.8             | 0.00%      | 5.94%         |
| Slate                                   | 49         | 1               | 48         | 0.8             | -1.37%     | 11.36%        |
| Serpentine                              | 211        | 2.5             | 55         | 0.7             | -73.76%    | -71.81%       |
| Epsomite                                | 77         | 0.8             | 63         | 0.6             | -18.23%    | -14.27%       |
| Silver ore                              | 6          | 0.5             | 8          | 0.6             | 35.14%     | 32.42%        |
| Chalk                                   | 21         | 0.3             | 38         | 0.6             | 81.69%     | 71.79%        |
| Attapulgit                              | -          | -               | 28         | 0.5             | -          | -             |
| Cobalt ore                              | 0          | 0.2             | 0          | 0.4             | 34.85%     | 75.62%        |
| Phosphate                               |            |                 |            |                 |            |               |
| - Ground                                | -          | -               | -          | -               | -          | -             |
| - Unground                              | 1          | 0.8             | 0          | 0.0             | -97.13%    | -98.56%       |
| Anhydrite                               | -          | -               | -          | -               | -          | -             |
| Calcite                                 | 47         | 0.0             | -          | -               | -          | -             |
| Columbite                               | 216        | 70.7            | -          | -               | -          | -             |
| Ecaussine                               | -          | -               | -          | -               | -          | -             |
| Potash                                  | -          | -               | -          | -               | -          | -             |
| Thorium ore                             | -          | -               | -          | -               | -          | -             |
| Tungsten (other)                        | -          | -               | -          | -               | -          | -             |
| <b>Total</b>                            |            | <b>43,970.4</b> |            | <b>61,130.3</b> |            | <b>39.03%</b> |

0\* denoting the amount of less than 0.1 metric tonnes

0.0\*\* denoting the amount of less than 0.05 million baht