

# Statistical release

## P2041

# Mining: Production and sales (preliminary)

**September 2009**

**This is the first statistical release presenting mining production indices with 2005 as the base year**

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## SUMMARY OF FINDINGS: MINING PRODUCTION AND MINERAL SALES

**Table A – Selected key figures regarding total mining production for September 2009**

| Actual estimate                            | Base : 2005=100 |  |  |  |
|--|-----------------|--|--|--|
|  | September 2009  | % change between September 2008 and September 2009 | % change between July to September 2008 and July to September 2009 | % change between January to September 2008 and January to September 2009 |
| Physical volume of mining production index | 86,0            | -15,9  | -7,5   | -7,7   |

| Seasonally adjusted estimate               | Base : 2005=100 |  |   |
|--|-----------------|--|---|
|  | September 2009  | % change between August and September 2009 | % change between April to June and July to September 2009 |
| Physical volume of mining production index | 80,3            | -6,2                                       | -1,8  |

**Table B – Quarterly contribution of the mineral groups and minerals to the total seasonally adjusted mining production**

| Mineral groups and minerals | Base : 2005=100 |                    |                        |   |   |   |
|-----------------------------|-----------------|--------------------|------------------------|---|---|---|
|                             | Weights 2005    | April to June 2009 | July to September 2009 | % change between April to June and July to September 2009 | Difference between April to June and July to September 2009 | Contribution (% points) to the % change in the total mining production 1/ |
| Gold                        | 17,2            | 66,8               | 65,2                   | -2,4  | -1,6  | -0,3  |
| Iron ore                    | 5,3             | 129,7              | 145,3                  | 12,0  | 15,6  | 1,0   |
| Chromium ore                | 1,3             | 89,7               | 88,6                   | -1,2  | -1,1  | 0,0   |
| Copper                      | 1,8             | 95,9               | 90,4                   | -5,7  | -5,5  | -0,1  |
| Manganese ore               | 1,5             | 89,3               | 95,2                   | 6,6   | 5,9   | 0,1   |
| PGMs                        | 27,0            | 94,9               | 80,0                   | -15,7   | -14,9   | -4,6  |
| Nickel                      | 2,8             | 93,1               | 83,3                   | -10,5   | -9,8  | -0,3  |
| Other metallic minerals     | 2,8             | 83,7               | 83,8                   | 0,1   | 0,1   | 0,0   |
| Diamonds                    | 7,6             | 33,3               | 44,3                   | 33,0  | 11,0  | 1,0   |
| Coal                        | 24,9            | 101,6              | 106,5                  | 4,8   | 4,9   | 1,4   |
| Building materials          | 2,1             | 107,9              | 105,6                  | -2,1  | -2,3  | -0,1  |
| Other non-metallic minerals | 5,7             | 64,3               | 67,7                   | 5,3   | 3,4   | 0,2   |
| <b>Total</b>                | <b>100,0</b>    | <b>86,9</b>        | <b>85,3</b>            | <b>-1,8</b>   | <b>-1,6</b>   | <b>-1,8</b>   |

1/ The contribution (percentage points) of a mineral or mineral group to the total seasonally adjusted mining production is calculated by multiplying the difference in the index for the mineral or mineral group by the weight of the mineral or mineral group and then dividing by the previous period's total index. Figures have been rounded off.

### Key findings regarding mining production for September 2009

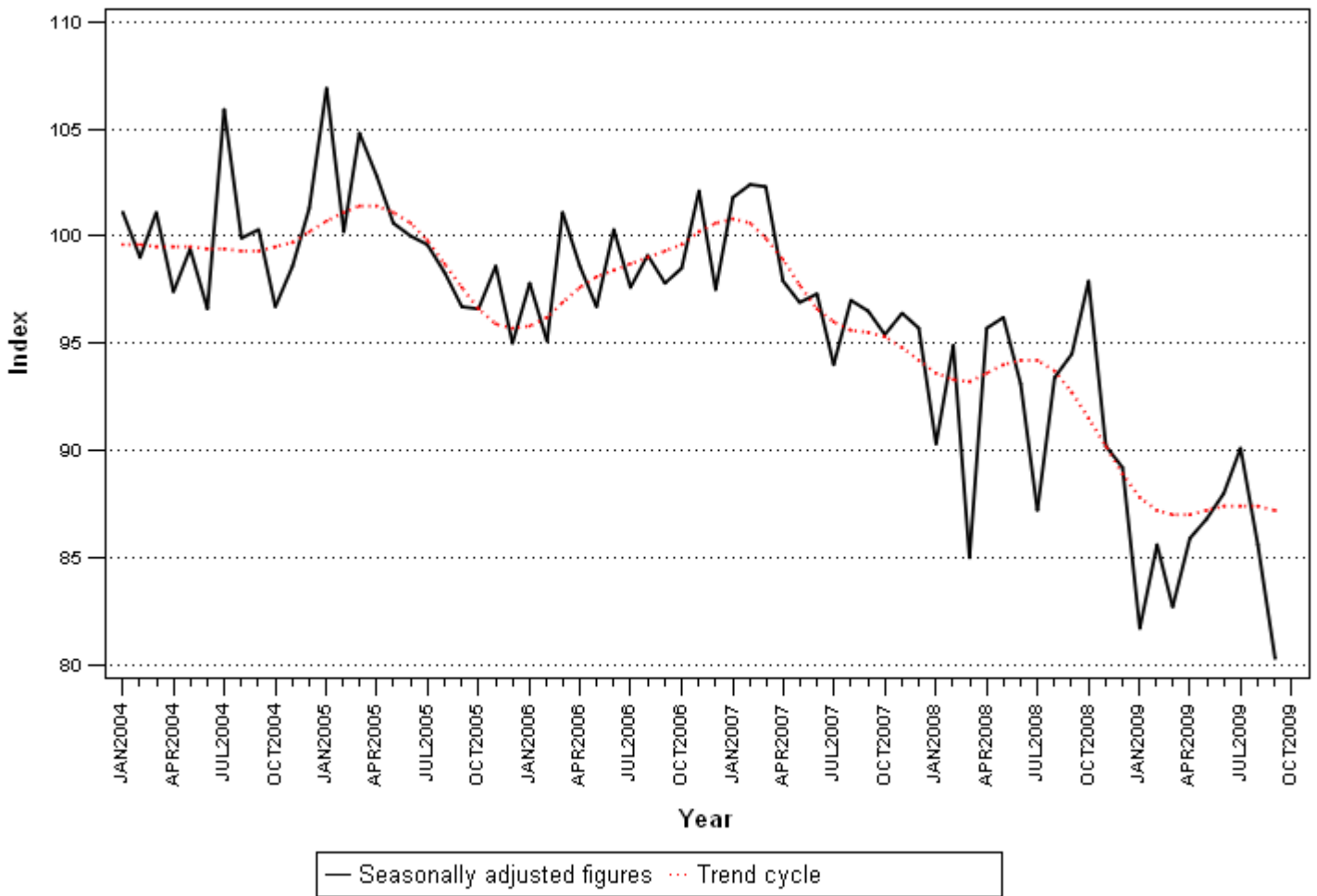
#### Seasonally adjusted mining production decreases

The total mining production for the third quarter of 2009, after seasonal adjustment, decreased by 1,8% compared with the previous quarter. Platinum group metal (PGM) production was the main contributor (-4,6 percentage points) to the 1,8% decrease (see Table B). PGM production was mainly affected by strike actions and mine accidents during the months of August and September 2009.

The actual estimated total mining production for the third quarter of 2009 decreased by 7,5% compared with the third quarter of 2008. Mining production for September 2009 decreased by 15,9% compared with September 2008 (see Table A).

Figure 1 shows the seasonally adjusted figures and trend series for the index of total mining production between January 2004 and September 2009.

**Figure 1 – Monthly indices of physical volume of total mining production (Base: 2005=100)**



**Table C – Selected key figures regarding the total value of mineral sales for August 2009**

| Actual estimate              | August 2009 | % change between August 2008 and August 2009 | % change between June to August 2008 and June to August 2009 | % change between January to August 2008 and January to August 2009 |
|------------------------------|-------------|--|--|--|
|                              | R million   |  |  |  |
| Total value of mineral sales | 19 406,7    | -28,3  | -30,7  | -24,0  |

| Seasonally adjusted estimate | August 2009 | % change between July and August 2009 | % change between March to May and June to August 2009 |
|------------------------------|-------------|---------------------------------------|---|
|                              | R million   |                                       |   |
| Total value of mineral sales | 19 518,2    | 4,2                                   | -4,4  |

**Table D – Contribution of the mineral groups and minerals to the seasonally adjusted quarterly growth in the total value of mineral sales (R million)**

| Mineral groups and minerals | % contribution to total mineral sales during March to May 2009 | March to May 2009 | June to August 2009 | % change between March to May and June to August 2009 | Contribution to the % change in the total value of mineral sales 1/ | Difference between March to May and June to August 2009 |
|-----------------------------|--|-------------------|---------------------|---|---|---|
|                             |  | R million         | R million           |   | % points  | R million   |
| Gold                        | 21,4   | 12 675,5          | 11 605,8            | -8,4  | -1,8  | -1 069,7  |
| Iron ore                    | 12,5   | 7 418,5           | 7 420,1             | 0,0   | 0,0   | 1,6   |
| Chromium ore                | 1,3  | 784,2             | 816,9               | 4,2   | 0,1   | 32,7  |
| Copper                      | 1,6  | 931,3             | 860,2               | -7,6  | -0,1  | -71,1   |
| Manganese ore               | 1,6  | 948,1             | 986,9               | 4,1   | 0,1   | 38,8  |
| PGMs                        | 24,9   | 14 713,4          | 12 830,3            | -12,8   | -3,2  | -1 883,1  |
| Nickel                      | 1,5  | 870,6             | 1 435,6             | 64,9  | 1,0   | 565,0   |
| Other metallic minerals     | 1,4  | 808,8             | 1 247,7             | 54,3  | 0,8   | 438,9   |
| Coal                        | 23,6   | 13 972,1          | 13 863,5            | -0,8  | -0,2  | -108,6  |
| Building materials          | 2,9  | 1 696,6           | 1 680,6             | -0,9  | 0,0   | -16,0   |
| Other non-metallic minerals | 7,4  | 4 366,6           | 3 837,4             | -12,1   | -0,9  | -529,2  |
| <b>Total</b>                | <b>100,0</b>   | <b>59 185,7</b>   | <b>56 585,0</b>     | <b>-4,4</b>   | <b>-4,4</b>   | <b>-2 600,7</b>   |

1/ The contribution (percentage points) to the percentage change in sales is calculated by multiplying the percentage change of each mineral with the percentage contribution to total mineral sales during March to May 2008, divided by 100. Figures have been rounded off.

**Key findings regarding mineral sales for August 2009**

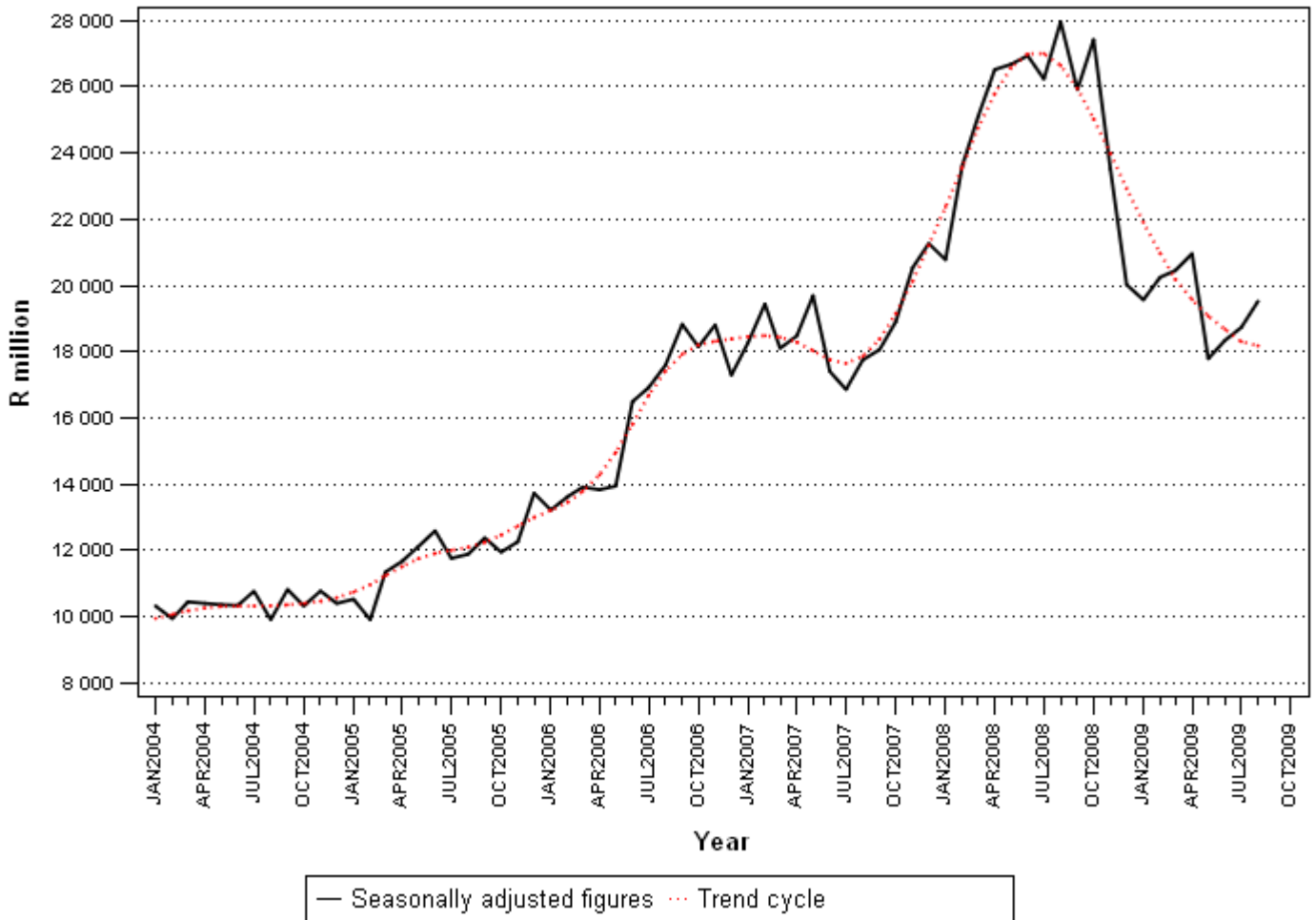
**Seasonally adjusted mineral sales decrease**

The total seasonally adjusted value of mineral sales at current prices for the three months ended August 2009 reflected a decrease of 4,4% compared with the previous three months. This decrease of 4,4% (-R2 600,7 million) was mainly due to a decrease of 12,8% (contributing -3,2 percentage points or -R1 883,1 million) in the sale value of PGMs and a decrease of 8,4% (contributing -1,8 percentage points or -R1 069,7 million) in the value of gold sales (see Table D).

The actual estimated total value of mineral sales at current prices for the three months ended August 2009 decreased by 30,7% compared with the three months ended August 2008. The major contributors to this decrease of 30,7%, year-on-year, were PGMs (contributing -16,2 percentage points or -R13 641,9 million), coal (contributing -6,6 percentage points or -R5 570,4 million) and manganese ore (contributing -6,3 percentage points or -R5 332,0 million). The mineral that made a substantial positive contribution to the change was iron ore (3,0 percentage points or R2 540,0 million (see Table 13).

Figure 2 shows the seasonally adjusted figures and trend series of the total value of mineral sales between January 2004 and August 2009.

**Figure 2 – Total value of mineral sales**



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**Article – Construction of a new index of physical volume of mining production by adjusting the base period from 2000=100 to 2005=100 and changing the weights**

**Introduction**

Statistics South Africa (Stats SA) publishes monthly information regarding the mining industry on the basis of mining production figures and mineral sales furnished by the Department of Mineral Resources (DMR). This statistical release contains detailed information regarding indices of the physical volume of mining production and the total value of mineral sales according to mineral groups and minerals on a monthly basis. In accordance with international best practice and consideration of quality improvement, the indices are rebased and new weights are introduced every five years. The results of the mining production indices published today contain changes related to rebasing and reweighting.

**Reweighting**

New weights for the mineral groups and minerals were calculated based on the value of mineral sales for the year 2005 as supplied by the DMR. Refer to Table E for a comparison between the old weights (base 1995=100 and 2000=100) and the new weights (base 2005=100) for the respective mineral groups and minerals and respective periods.

**Rebasing: Adjusting the base period for the total mining production index from 2000=100 to 2005=100.**

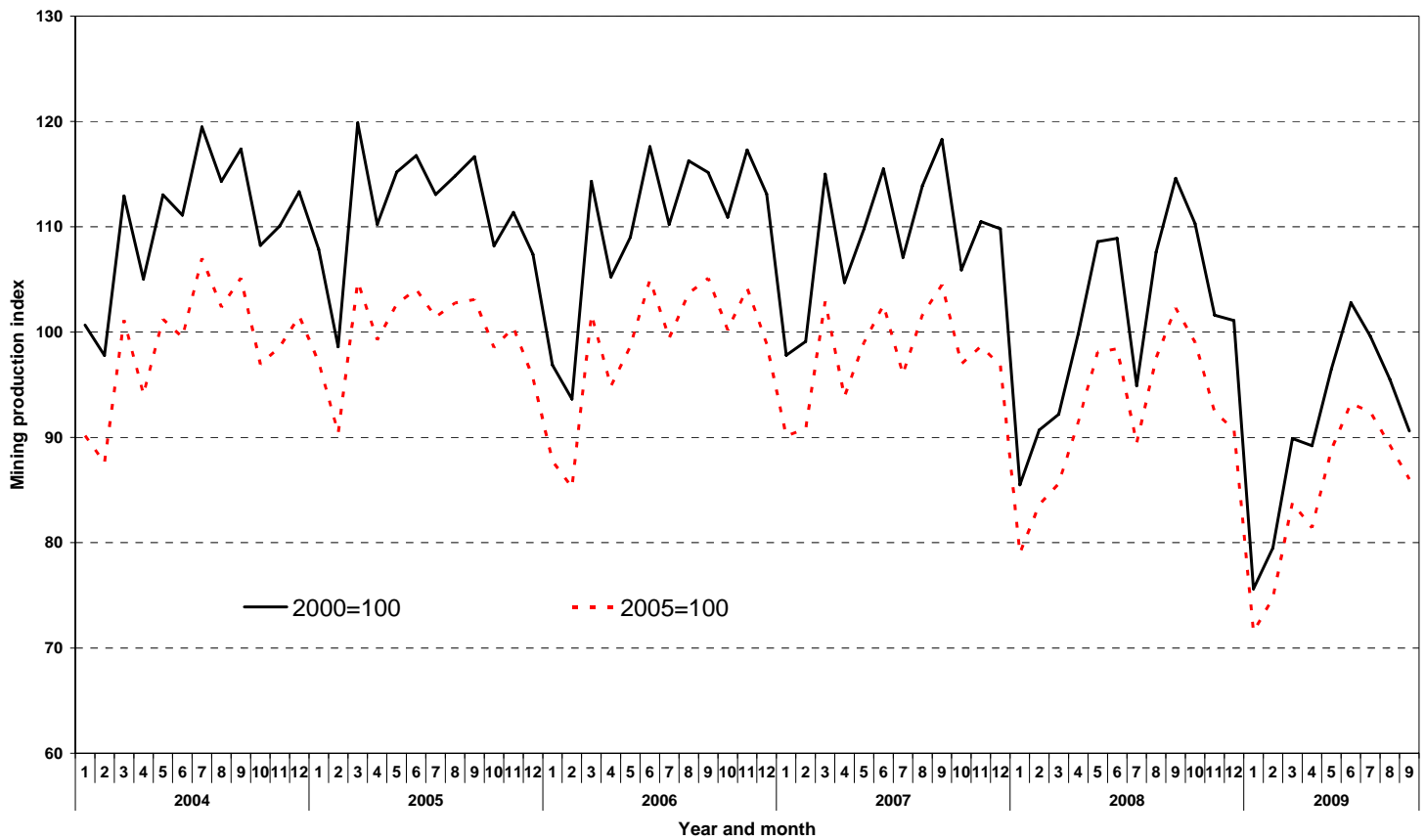
The base period is the reference point of an index and is usually set at 100. The new index of mining production is now referenced to 2005=100 from 2000=100 previously. From January 2005 the total mining production index is the weighted average of its components, where the new weights are applied to the individual mineral groups and minerals set to 2005=100. To convert the base year from reference year 2000 to 2005 for the period up to December 2004, the previous total mining index (2000=100) was divided by the previous average for 2005 and multiplied by 100. As expected, the results of the rebasing exercise alone did not have any significant effect on the mining production trends.

The result of the implementation of the new weights to the mining production index is illustrated in Figures A and B.

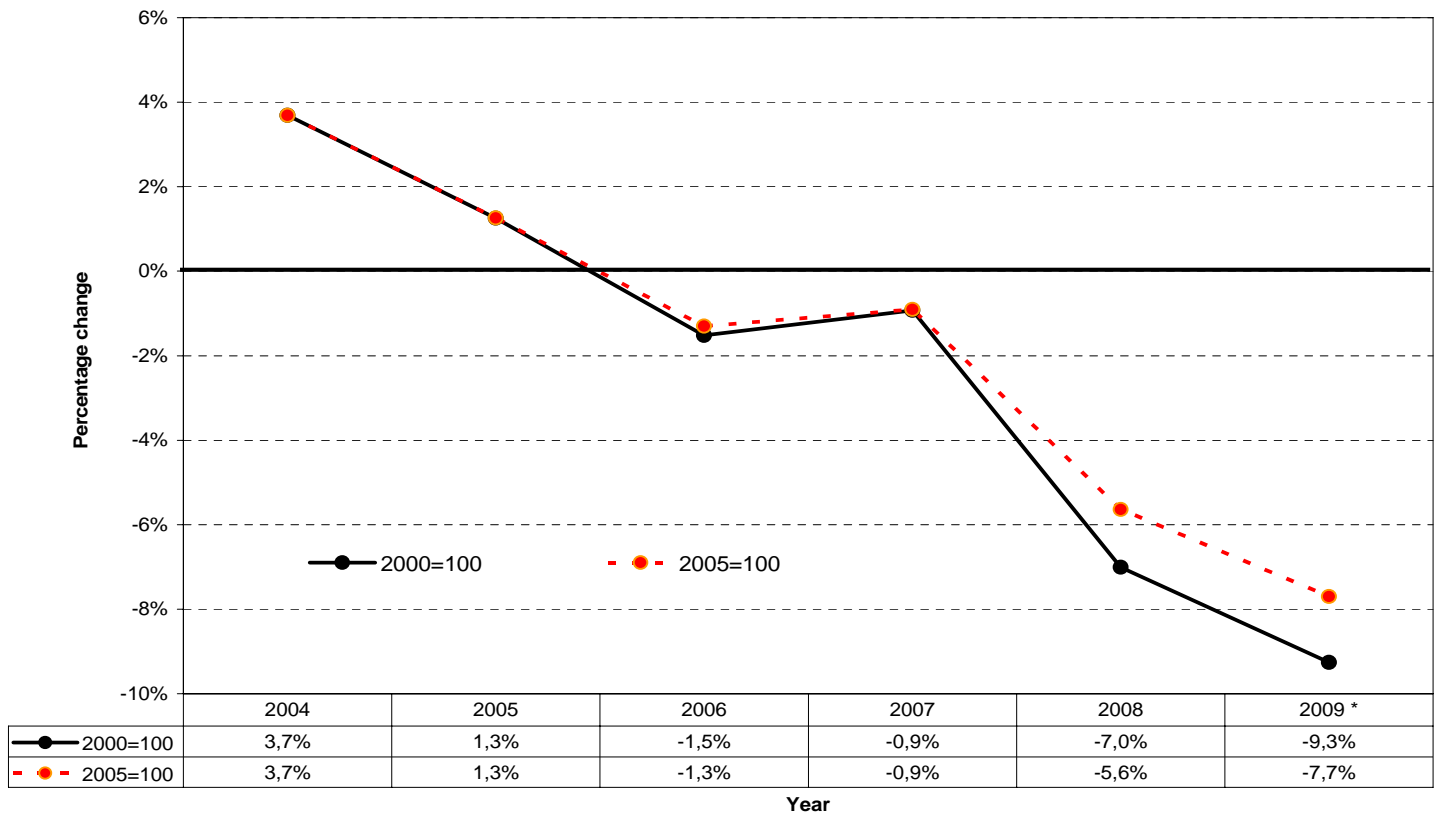
**Table E – Weights for the mineral groups and minerals**

| Mineral groups and minerals  | Weights according to the value of mineral sales for the year 1995 | Weights according to the value of mineral sales for the year 2000 | Weights according to the value of mineral sales for the year 2005 |
|------------------------------|---|---|---|
|                              | 1995-1999   | 2000-2004   | 2005-2009   |
| Gold                         | 42,5  | 25,7  | 17,2  |
| Iron ore                     | 3,0   | 3,1   | 5,3   |
| Chromium ore                 | 1,1   | 1,1   | 1,3   |
| Copper                       | 3,1   | 1,6   | 1,8   |
| Manganese ore                | 1,3   | 1,3   | 1,5   |
| Platinum group metals (PGMs) | 11,9  | 27,6  | 27,0  |
| Nickel                       | 1,5   | 2,0   | 2,8   |
| Other metallic minerals      | 2,4   | 2,9   | 2,8   |
| Diamonds                     | 4,4   | 8,3   | 7,6   |
| Coal                         | 23,2  | 20,0  | 24,9  |
| Building materials           | 3,5   | 2,6   | 2,1   |
| Other non-metallic minerals  | 2,1   | 3,8   | 5,7   |
| <b>Total mining</b>          | <b>100</b>  | <b>100</b>  | <b>100</b>  |

**Figure A – Comparison of the total mining production index based on 2000=100 and 2005=100**



**Figure B – Comparison between the total mining production indices' annual growth rates based on 2000=100 and 2005=100**



\* Until September 2009



### Detailed results: Tables

**Table 1 – Total index of the physical volume of mining production: 2003 – 2009**

| Month     | Base : 2005=100 |       |       |       |       |        |         |
|-----------|-----------------|-------|-------|-------|-------|--------|---------|
|           | 2003            | 2004  | 2005  | 2006  | 2007  | 2008 * | 2009 1/ |
| January   | 76,2            | 90,2  | 97,1  | 87,7  | 90,1  | 79,0   | 71,5    |
| February  | 91,0            | 87,6  | 90,4  | 85,2  | 90,8  | 83,6   | 74,8    |
| March     | 91,1            | 101,1 | 104,8 | 101,7 | 102,9 | 85,6   | 83,8    |
| April     | 90,4            | 94,1  | 99,2  | 94,8  | 93,9  | 91,4   | 81,4    |
| May       | 95,9            | 101,2 | 102,7 | 98,7  | 99,0  | 98,1   | 88,8    |
| June      | 97,2            | 99,5  | 104,0 | 104,9 | 102,6 | 98,4   | 93,2    |
| July      | 99,2            | 107,0 | 101,4 | 99,4  | 96,0  | 89,4   | 92,4    |
| August    | 97,7            | 102,4 | 102,8 | 103,7 | 101,6 | 97,5   | 89,3    |
| September | 102,6           | 105,1 | 103,1 | 105,1 | 104,5 | 102,3  | 86,0    |
| October   | 102,6           | 96,9  | 98,5  | 100,2 | 97,0  | 99,0   |         |
| November  | 97,3            | 98,6  | 100,4 | 104,2 | 98,6  | 92,4   |         |
| December  | 101,6           | 101,5 | 95,7  | 98,9  | 96,8  | 90,8   |         |
| Year      | 95,2            | 98,8  | 100,0 | 98,7  | 97,8  | 92,3   |         |

1/ Preliminary.

\* Revised.

**Table 2 – Annual percentage change in the index of the physical volume of mining production: 2003 – 2009**

| Month     | Percentage change 2/ |      |      |      |      |       |       |
|-----------|----------------------|------|------|------|------|-------|-------|
|           | 2003                 | 2004 | 2005 | 2006 | 2007 | 2008  | 2009  |
| January   | -4,4                 | 18,3 | 7,7  | -9,7 | 2,7  | -12,4 | -9,5  |
| February  | 8,0                  | -3,8 | 3,2  | -5,7 | 6,5  | -7,9  | -10,5 |
| March     | 2,7                  | 11,0 | 3,6  | -3,0 | 1,2  | -16,8 | -2,1  |
| April     | -1,0                 | 4,0  | 5,5  | -4,4 | -1,0 | -2,6  | -10,9 |
| May       | 4,1                  | 5,5  | 1,4  | -3,9 | 0,3  | -0,9  | -9,5  |
| June      | 4,3                  | 2,3  | 4,6  | 0,9  | -2,2 | -4,1  | -5,3  |
| July      | 11,8                 | 7,9  | -5,2 | -2,0 | -3,4 | -6,8  | 3,3   |
| August    | 1,8                  | 4,7  | 0,4  | 0,9  | -2,0 | -4,0  | -8,4  |
| September | 5,9                  | 2,5  | -1,9 | 2,0  | -0,6 | -2,1  | -15,9 |
| October   | 7,4                  | -5,5 | 1,7  | 1,7  | -3,2 | 2,1   |       |
| November  | 1,1                  | 1,3  | 1,9  | 3,7  | -5,3 | -6,3  |       |
| December  | 6,0                  | -0,2 | -5,8 | 3,4  | -2,1 | -6,2  |       |
| Year      | 4,0                  | 3,7  | 1,3  | -1,3 | -0,9 | -5,6  |       |

2/ The annual percentage change is the change in the index of the physical volume of mining production of the relevant year compared with the previous year expressed as a percentage.

**Table 3 – Total seasonally adjusted index of the physical volume of total mining production: 2003 – 2009**

| Month     | Base : 2005=100 |       |       |       |       |      |      |
|-----------|-----------------|-------|-------|-------|-------|------|------|
|           | 2003            | 2004  | 2005  | 2006  | 2007  | 2008 | 2009 |
| January   | 87,6            | 101,1 | 106,9 | 97,8  | 101,8 | 90,3 | 81,7 |
| February  | 100,2           | 99,0  | 100,2 | 95,1  | 102,4 | 94,9 | 85,6 |
| March     | 94,0            | 101,1 | 104,8 | 101,1 | 102,3 | 85,0 | 82,7 |
| April     | 95,6            | 97,4  | 102,8 | 98,6  | 97,9  | 95,7 | 85,9 |
| May       | 96,1            | 99,4  | 100,6 | 96,7  | 96,9  | 96,2 | 86,8 |
| June      | 93,5            | 96,6  | 100,0 | 100,3 | 97,3  | 93,1 | 88,0 |
| July      | 98,2            | 105,9 | 99,6  | 97,6  | 94,0  | 87,2 | 90,1 |
| August    | 95,5            | 99,9  | 98,3  | 99,1  | 97,0  | 93,4 | 85,6 |
| September | 99,1            | 100,3 | 96,7  | 97,8  | 96,5  | 94,5 | 80,3 |
| October   | 101,0           | 96,7  | 96,6  | 98,5  | 95,4  | 97,9 |      |
| November  | 96,7            | 98,6  | 98,6  | 102,1 | 96,4  | 90,2 |      |
| December  | 99,4            | 101,3 | 95,0  | 97,5  | 95,7  | 89,2 |      |

**Table 4 – Indices of the physical volume of mining production according to mineral groups and minerals**

| Mineral groups and minerals        | Base : 2005=100 |                    |                |                |                   | % change between September 2008 and September 2009 |
|------------------------------------|-----------------|--------------------|----------------|----------------|-------------------|--|
|                                    | Weights 2005    | Average for 2008 * | September 2008 | August 2009 1/ | September 2009 1/ |  |
| <b>Gold</b>                        | 17,2            | 72,2               | 78,4           | 67,9           | 71,1              | -9,3   |
| <b>Iron ore</b>                    | 5,3             | 123,9              | 135,7          | 144,6          | 141,4             | 4,2  |
| <b>Chromium ore</b>                | 1,3             | 129,3              | 143,1          | 92,4           | 103,6             | -27,6  |
| <b>Copper</b>                      | 1,8             | 93,6               | 84,0           | 82,2           | 82,7              | -1,5   |
| <b>Manganese ore</b>               | 1,5             | 147,6              | 165,6          | 79,0           | 114,8             | -30,7  |
| <b>PGMs</b>                        | 27,0            | 90,7               | 113,8          | 86,9           | 69,5              | -38,9  |
| <b>Nickel</b>                      | 2,8             | 74,7               | 94,4           | 93,9           | 75,2              | -20,3  |
| <b>Other metallic minerals</b>     | 2,8             | 90,8               | 89,6           | 83,5           | 85,4              | -4,7   |
| <b>Diamonds</b>                    | 7,6             | 81,7               | 88,6           | 46,2           | 63,1              | -28,8  |
| <b>Coal</b>                        | 24,9            | 103,1              | 105,7          | 111,4          | 110,4             | 4,4  |
| <b>Building materials</b>          | 2,1             | 116,5              | 117,4          | 109,1          | 111,4             | -5,1   |
| <b>Other non-metallic minerals</b> | 5,7             | 74,5               | 76,2           | 71,6           | 67,3              | -11,7  |
| <b>Total</b>                       | <b>100,0</b>    | <b>92,3</b>        | <b>102,3</b>   | <b>89,3</b>    | <b>86,0</b>       | <b>-15,9</b>                                       |

1/ Preliminary.

\* Revised.

**Table 5 – Indices of the seasonally adjusted physical volume of mining production according to mineral groups and minerals**

| Mineral groups and minerals        | Base : 2005=100 |                |             |                | % change between August and September 2009 |
|------------------------------------|-----------------|----------------|-------------|----------------|--|
|                                    | Weights 2005    | September 2008 | August 2009 | September 2009 |  |
| <b>Gold</b>                        | 17,2            | 71,5           | 64,8        | 64,8           | 0,0  |
| <b>Iron ore</b>                    | 5,3             | 133,2          | 142,1       | 138,5          | -2,5                                       |
| <b>Chromium ore</b>                | 1,3             | 131,0          | 85,0        | 94,3           | 10,9                                       |
| <b>Copper</b>                      | 1,8             | 87,7           | 84,4        | 86,9           | 3,0  |
| <b>Manganese ore</b>               | 1,5             | 158,7          | 74,7        | 109,1          | 46,1                                       |
| <b>PGMs</b>                        | 27,0            | 98,3           | 84,9        | 59,7           | -29,7                                      |
| <b>Nickel</b>                      | 2,8             | 95,9           | 86,2        | 76,5           | -11,3                                      |
| <b>Other metallic minerals</b>     | 2,8             | 88,0           | 80,4        | 84,0           | 4,5  |
| <b>Diamonds</b>                    | 7,6             | 71,6           | 42,2        | 50,4           | 19,4                                       |
| <b>Coal</b>                        | 24,9            | 103,7          | 105,8       | 108,4          | 2,5  |
| <b>Building materials</b>          | 2,1             | 111,8          | 101,7       | 106,8          | 5,0  |
| <b>Other non-metallic minerals</b> | 5,7             | 73,1           | 68,9        | 64,9           | -5,8                                       |
| <b>Total</b>                       | <b>100,0</b>    | <b>94,5</b>    | <b>85,6</b> | <b>80,3</b>    | <b>-6,2</b>                                |

**Table 6 – Annual percentage change in the quarterly physical volume of mining production according to mineral groups and minerals: 2008 vs 2009**

| Mineral groups and minerals | Base : 2005=100 |                        |                        |  |  |   |
|-----------------------------|-----------------|------------------------|------------------------|--|--|---|
|                             | Weights 2005    | July to September 2008 | July to September 2009 | % change between July to September 2008 and July to September 2009 | Difference between July to September 2008 and July to September 2009 | Contribution (% points) to the % change in the total mining production 1/ |
| Gold                        | 17,2            | 73,1                   | 68,0                   | -7,0   | -5,1   | -0,9  |
| Iron ore                    | 5,3             | 135,3                  | 146,3                  | 8,1  | 11,0   | 0,6   |
| Chromium ore                | 1,3             | 143,7                  | 96,4                   | -32,9  | -47,3  | -0,6  |
| Copper                      | 1,8             | 87,5                   | 89,0                   | 1,7  | 1,5  | 0,0   |
| Manganese ore               | 1,5             | 164,4                  | 99,3                   | -39,6  | -65,1  | -1,0  |
| PGMs                        | 27,0            | 92,3                   | 84,2                   | -8,8   | -8,1   | -2,3  |
| Nickel                      | 2,8             | 81,3                   | 85,5                   | 5,2  | 4,2  | 0,1   |
| Other metallic minerals     | 2,8             | 95,1                   | 86,7                   | -8,8   | -8,4   | -0,2  |
| Diamonds                    | 7,6             | 89,7                   | 49,6                   | -44,7  | -40,1  | -3,2  |
| Coal                        | 24,9            | 108,5                  | 111,4                  | 2,7  | 2,9  | 0,7   |
| Building materials          | 2,1             | 123,0                  | 113,1                  | -8,0   | -9,9   | -0,2  |
| Other non-metallic minerals | 5,7             | 78,0                   | 70,1                   | -10,1  | -7,9   | -0,5  |
| <b>Total</b>                | <b>100,0</b>    | <b>96,4</b>            | <b>89,2</b>            | <b>-7,5</b>  | <b>-7,2</b>  | <b>-7,5</b>   |

1/ The contribution (percentage points) of a mineral or mineral group to the total mining production is calculated by multiplying the difference in the index for the mineral or mineral group by the weight of the mineral or mineral group and then dividing by the previous period's total index. Figures have been rounded off.

**Table 7 – Annual percentage change in the cumulative physical volume of mining production according to mineral groups and minerals: 2008 vs 2009**

| Mineral groups and minerals | Base : 2005=100 |                           |                           |  |  |   |
|-----------------------------|-----------------|---------------------------|---------------------------|--|--|---|
|                             | Weights 2005    | January to September 2008 | January to September 2009 | % change between January to September 2008 and January to September 2009 | Difference between January to September 2008 and January to September 2009 | Contribution (% points) to the % change in the total mining production 2/ |
| Gold                        | 17,2            | 72,6                      | 67,0                      | -7,7   | -5,6   | -1,1  |
| Iron ore                    | 5,3             | 120,6                     | 135,3                     | 12,2   | 14,7   | 0,8   |
| Chromium ore                | 1,3             | 137,0                     | 82,4                      | -39,9  | -54,6  | -0,8  |
| Copper                      | 1,8             | 94,1                      | 96,4                      | 2,4  | 2,3  | 0,0   |
| Manganese ore               | 1,5             | 151,6                     | 90,3                      | -40,4  | -61,3  | -1,0  |
| PGMs                        | 27,0            | 85,7                      | 84,5                      | -1,4   | -1,2   | -0,4  |
| Nickel                      | 2,8             | 74,9                      | 80,5                      | 7,5  | 5,6  | 0,2   |
| Other metallic minerals     | 2,8             | 91,5                      | 85,0                      | -7,1   | -6,5   | -0,2  |
| Diamonds                    | 7,6             | 86,3                      | 36,5                      | -57,7  | -49,8  | -4,1  |
| Coal                        | 24,9            | 103,8                     | 102,3                     | -1,4   | -1,5   | -0,4  |
| Building materials          | 2,1             | 118,1                     | 108,0                     | -8,6   | -10,1  | -0,2  |
| Other non-metallic minerals | 5,7             | 75,9                      | 66,2                      | -12,8  | -9,7   | -0,6  |
| <b>Total</b>                | <b>100,0</b>    | <b>91,7</b>               | <b>84,6</b>               | <b>-7,7</b>  | <b>-7,1</b>  | <b>-7,7</b>   |

2/ The annual contribution (percentage points) of a mineral or mineral group to the total mining production is calculated by multiplying the difference in the index for the mineral or mineral group by the weight of the mineral or mineral group and then dividing by the previous period's total index. Figures have been rounded off.

**Table 8 – Total value of mineral sales (R million): 2003 – 2009**

| Month       | 2003             | 2004             | 2005             | 2006             | 2007             | 2008 *           | 2009 1/  |
|-------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| January     | 9 868,8          | 9 820,5          | 9 587,4          | 11 755,1         | 15 692,9         | 17 442,2         | 16 540,7 |
| February    | 10 236,5         | 9 576,1          | 9 383,8          | 12 680,8         | 17 928,6         | 21 737,4         | 19 184,0 |
| March       | 9 829,3          | 10 396,0         | 11 477,1         | 14 179,9         | 18 555,2         | 25 894,1         | 21 366,8 |
| April       | 9 294,1          | 9 789,3          | 11 034,0         | 13 042,6         | 17 447,8         | 25 520,6         | 20 031,3 |
| May         | 9 104,1          | 10 373,3         | 12 239,8         | 14 046,8         | 19 841,6         | 26 737,6         | 17 750,9 |
| June        | 9 745,9          | 10 856,0         | 13 360,1         | 17 809,8         | 19 033,2         | 29 881,0         | 19 638,1 |
| July        | 10 403,7         | 10 844,2         | 12 001,8         | 17 614,8         | 17 449,4         | 27 164,7         | 19 262,5 |
| August      | 9 612,0          | 9 841,7          | 11 687,6         | 17 339,2         | 17 890,4         | 27 064,3         | 19 406,7 |
| September   | 10 008,1         | 11 693,2         | 13 524,1         | 20 586,6         | 19 619,7         | 27 830,7         |          |
| October     | 9 989,4          | 10 466,3         | 12 074,8         | 18 031,0         | 18 713,7         | 27 190,9         |          |
| November    | 9 535,8          | 10 815,6         | 12 453,2         | 18 918,2         | 20 674,4         | 23 991,8         |          |
| December    | 9 899,2          | 10 585,6         | 13 994,2         | 17 584,7         | 21 590,8         | 20 263,5         |          |
| <b>Year</b> | <b>117 526,9</b> | <b>125 057,8</b> | <b>142 817,9</b> | <b>193 589,5</b> | <b>224 437,7</b> | <b>300 718,8</b> |          |

1/ Preliminary.

\* Revised.

**Table 9 – Annual percentage change in the total value of mineral sales: 2003 – 2009**

| Month       | Percentage change 2/ |            |             |             |             |             |       |
|-------------|----------------------|------------|-------------|-------------|-------------|-------------|-------|
|             | 2003                 | 2004       | 2005        | 2006        | 2007        | 2008        | 2009  |
| January     | -13,3                | -0,5       | -2,4        | 22,6        | 33,5        | 11,1        | -5,2  |
| February    | -3,7                 | -6,5       | -2,0        | 35,1        | 41,4        | 21,2        | -11,7 |
| March       | -15,6                | 5,8        | 10,4        | 23,5        | 30,9        | 39,6        | -17,5 |
| April       | -17,0                | 5,3        | 12,7        | 18,2        | 33,8        | 46,3        | -21,5 |
| May         | -25,0                | 13,9       | 18,0        | 14,8        | 41,3        | 34,8        | -33,6 |
| June        | -16,3                | 11,4       | 23,1        | 33,3        | 6,9         | 57,0        | -34,3 |
| July        | -3,5                 | 4,2        | 10,7        | 46,8        | -0,9        | 55,7        | -29,1 |
| August      | -17,4                | 2,4        | 18,8        | 48,4        | 3,2         | 51,3        | -28,3 |
| September   | -17,4                | 16,8       | 15,7        | 52,2        | -4,7        | 41,9        |       |
| October     | -20,2                | 4,8        | 15,4        | 49,3        | 3,8         | 45,3        |       |
| November    | -13,8                | 13,4       | 15,1        | 51,9        | 9,3         | 16,0        |       |
| December    | -8,0                 | 6,9        | 32,2        | 25,7        | 22,8        | -6,1        |       |
| <b>Year</b> | <b>-14,5</b>         | <b>6,4</b> | <b>14,2</b> | <b>35,5</b> | <b>15,9</b> | <b>34,0</b> |       |

2/ The annual percentage change is the change in the value of mineral sales of the relevant year compared with the previous year expressed as a percentage.

**Table 10 – Seasonally adjusted total value of mineral sales (R million): 2003 – 2009**

| Month     | 2003     | 2004     | 2005     | 2006     | 2007     | 2008     | 2009     |
|-----------|----------|----------|----------|----------|----------|----------|----------|
| January   | 10 037,3 | 10 313,8 | 10 523,0 | 13 218,4 | 18 275,0 | 20 774,1 | 19 563,0 |
| February  | 10 492,0 | 9 939,9  | 9 905,8  | 13 618,8 | 19 436,5 | 23 613,8 | 20 244,3 |
| March     | 9 911,5  | 10 444,1 | 11 342,3 | 13 909,7 | 18 100,3 | 25 081,4 | 20 445,8 |
| April     | 9 850,4  | 10 397,8 | 11 669,3 | 13 830,2 | 18 474,4 | 26 512,9 | 20 955,4 |
| May       | 9 085,2  | 10 357,7 | 12 114,4 | 13 939,9 | 19 688,0 | 26 671,1 | 17 784,5 |
| June      | 9 313,5  | 10 336,0 | 12 585,7 | 16 489,1 | 17 400,8 | 26 933,2 | 18 340,6 |
| July      | 10 435,4 | 10 764,6 | 11 758,3 | 16 914,9 | 16 855,9 | 26 230,3 | 18 726,2 |
| August    | 9 725,9  | 9 906,3  | 11 881,0 | 17 590,5 | 17 748,8 | 27 954,7 | 19 518,2 |
| September | 9 458,7  | 10 816,4 | 12 374,4 | 18 824,0 | 18 056,9 | 25 910,8 |          |
| October   | 9 842,2  | 10 319,2 | 11 944,9 | 18 146,8 | 18 897,7 | 27 422,5 |          |
| November  | 9 619,7  | 10 772,1 | 12 258,8 | 18 805,2 | 20 526,7 | 23 509,1 |          |
| December  | 9 705,4  | 10 396,2 | 13 724,1 | 17 290,2 | 21 262,1 | 20 019,0 |          |

**Table 11 – Total value of mineral sales according to mineral groups and minerals (R million)**

| Mineral groups and minerals        | Value of sales for 2008 * | Value of sales for August 2008 | 1/<br>Value of sales for July 2009 | 1/<br>Value of sales for August 2009 | % change between August 2008 and August 2009 |
|------------------------------------|---------------------------|--------------------------------|------------------------------------|--------------------------------------|--|
|                                    | R million                 | R million                      | R million                          | R million                            |  |
| <b>Gold</b>                        | 45 992,1                  | 3 097,7                        | 4 028,5                            | 3 877,4                              | 25,2   |
| <b>Iron ore</b>                    | 22 241,7                  | 1 355,6                        | 2 329,9                            | 2 561,0                              | 88,9   |
| <b>Chromium ore</b>                | 5 408,5                   | 566,1                          | 289,9                              | 297,3                                | -47,5  |
| <b>Copper</b>                      | 5 627,9                   | 455,1                          | 366,5                              | 252,8                                | -44,5  |
| <b>Manganese ore</b>               | 17 343,6                  | 2 695,0                        | 334,7                              | 271,8                                | -89,9  |
| <b>PGMs</b>                        | 91 352,4                  | 8 672,8                        | 4 407,2                            | 4 772,0                              | -45,0  |
| <b>Nickel</b>                      | 5 255,8                   | 397,6                          | 391,9                              | 514,2                                | 29,3   |
| <b>Other metallic minerals</b>     | 5 875,5                   | 538,5                          | 592,5                              | 310,3                                | -42,4  |
| <b>Coal</b>                        | 72 894,4                  | 7 375,6                        | 4 886,1                            | 4 862,4                              | -34,1  |
| <b>Building materials</b>          | 6 912,1                   | 597,9                          | 608,0                              | 585,6                                | -2,1   |
| <b>Other non-metallic minerals</b> | 21 814,6                  | 1 312,3                        | 1 027,3                            | 1 101,9                              | -16,0  |
| <b>Total</b>                       | <b>300 718,8</b>          | <b>27 064,3</b>                | <b>19 262,5</b>                    | <b>19 406,7</b>                      | <b>-28,3</b>                                 |

1/ Preliminary.

\* Revised.

**Table 12 – Total seasonally adjusted value of mineral sales according to mineral groups and minerals (R million)**

| Mineral groups and minerals        | Value of sales for August 2008 | Value of sales for July 2009 | Value of sales for August 2009 | % change between July and August 2009 |
|------------------------------------|--------------------------------|------------------------------|--------------------------------|---------------------------------------|
|                                    | R million                      | R million                    | R million                      |                                       |
| <b>Gold</b>                        | 3 187,0                        | 3 824,9                      | 3 982,4                        | 4,1                                   |
| <b>Iron ore</b>                    | 1 413,2                        | 2 437,9                      | 2 708,8                        | 11,1                                  |
| <b>Chromium ore</b>                | 521,3                          | 261,2                        | 271,8                          | 4,1                                   |
| <b>Copper</b>                      | 421,1                          | 300,8                        | 236,1                          | -21,5                                 |
| <b>Manganese ore</b>               | 4 143,5                        | 271,8                        | 451,1                          | 66,0                                  |
| <b>PGMs</b>                        | 7 954,6                        | 4 139,9                      | 4 358,1                        | 5,3                                   |
| <b>Nickel</b>                      | 429,6                          | 432,1                        | 556,9                          | 28,9                                  |
| <b>Other metallic minerals</b>     | 570,7                          | 602,0                        | 317,8                          | -47,2                                 |
| <b>Coal</b>                        | 7 033,1                        | 4 655,4                      | 4 623,0                        | -0,7                                  |
| <b>Building materials</b>          | 555,7                          | 564,1                        | 548,5                          | -2,8                                  |
| <b>Other non-metallic minerals</b> | 1 724,9                        | 1 236,1                      | 1 463,7                        | 18,4                                  |
| <b>Total</b>                       | <b>27 954,7</b>                | <b>18 726,2</b>              | <b>19 518,2</b>                | <b>4,2</b>                            |

**Table 13 – Annual percentage change in the quarterly value of mineral sales according to mineral groups and minerals (R million): 2008 vs 2009**

| Mineral groups and minerals | % contribution to total mineral sales during June to August 2008 | Value of sales for June to August 2008 | Value of sales for June to August 2009 | % change between June to August 2008 and June to August 2009 | Contribution to the % change in the total value of mineral sales 1/ | Difference in sales of mining divisions between June to August 2008 and June to August 2009 |
|-----------------------------|--|--|--|--|---|---|
|                             |  | R million                              | R million                              |  | % points  | R million   |
| Gold                        | 13,3   | 11 212,7                               | 11 886,9                               | 6,0  | 0,8   | 674,2   |
| Iron ore                    | 5,3  | 4 438,8                                | 6 978,8                                | 57,2   | 3,0   | 2 540,0   |
| Chromium ore                | 2,1  | 1 725,4                                | 921,4                                  | -46,6  | -1,0  | -804,0  |
| Copper                      | 2,0  | 1 681,6                                | 982,5                                  | -41,6  | -0,8  | -699,1  |
| Manganese ore               | 7,5  | 6 345,7                                | 1 013,7                                | -84,0  | -6,3  | -5 332,0  |
| PGMs                        | 33,2   | 27 938,2                               | 14 296,3                               | -48,8  | -16,2   | -13 641,9   |
| Nickel                      | 1,6  | 1 353,8                                | 1 452,1                                | 7,3  | 0,1   | 98,3  |
| Other metallic minerals     | 1,8  | 1 523,3                                | 1 290,8                                | -15,3  | -0,3  | -232,5  |
| Coal                        | 23,8   | 19 976,5                               | 14 406,1                               | -27,9  | -6,6  | -5 570,4  |
| Building materials          | 2,1  | 1 800,9                                | 1 770,7                                | -1,7   | 0,0   | -30,2   |
| Other non-metallic minerals | 7,3  | 6 113,0                                | 3 308,0                                | -45,9  | -3,4  | -2 805,0  |
| <b>Total</b>                | <b>100,0</b>   | <b>84 110,0</b>                        | <b>58 307,3</b>                        | <b>-30,7</b>   | <b>-30,7</b>  | <b>-25 802,7</b>  |

1/ The contribution (percentage points) to the percentage change in sales is calculated by multiplying the percentage change of each mineral with the percentage contribution to total mineral sales during June to August 2008, divided by 100. Figures have been rounded off.

**Table 14 – Annual percentage change in the cumulative value of mineral sales according to mineral groups and minerals (R million): 2008 vs 2009**

| Mineral groups and minerals | % contribution to total mineral sales during January to August 2008 | Value of sales for January to August 2008 | Value of sales for January to August 2009 | % change between January to August 2008 and January to August 2009 | Contribution to the % change in the total value of mineral sales 2/ | Difference in sales of mining divisions between January to August 2008 and January to August 2009 |
|-----------------------------|---|---|---|--|---|---|
|                             |   | R million                                 | R million                                 |  | % points  | R million   |
| Gold                        | 14,4  | 29 015,6                                  | 31 636,6                                  | 9,0  | 1,3   | 2 621,0   |
| Iron ore                    | 6,2   | 12 463,3                                  | 19 697,3                                  | 58,0   | 3,6   | 7 234,0   |
| Chromium ore                | 1,9   | 3 758,4                                   | 2 084,1                                   | -44,5  | -0,8  | -1 674,3  |
| Copper                      | 2,1   | 4 188,4                                   | 2 384,5                                   | -43,1  | -0,9  | -1 803,9  |
| Manganese ore               | 6,0   | 12 156,7                                  | 3 276,4                                   | -73,0  | -4,4  | -8 880,3  |
| PGMs                        | 33,5  | 67 407,2                                  | 36 546,5                                  | -45,8  | -15,3   | -30 860,7   |
| Nickel                      | 2,1   | 4 207,6                                   | 2 835,5                                   | -32,6  | -0,7  | -1 372,1  |
| Other metallic minerals     | 1,9   | 3 795,8                                   | 2 578,3                                   | -32,1  | -0,6  | -1 217,5  |
| Coal                        | 22,5  | 45 296,1                                  | 37 596,3                                  | -17,0  | -3,8  | -7 699,8  |
| Building materials          | 2,3   | 4 567,7                                   | 4 523,7                                   | -1,0   | 0,0   | -44,0   |
| Other non-metallic minerals | 7,2   | 14 585,1                                  | 10 021,6                                  | -31,3  | -2,3  | -4 563,5  |
| <b>Total</b>                | <b>100,0</b>  | <b>201 441,9</b>                          | <b>153 181,0</b>                          | <b>-24,0</b>   | <b>-24,0</b>  | <b>-48 260,9</b>  |

2/ The contribution (percentage points) to the percentage change in sales is calculated by multiplying the percentage change of each mineral with the percentage contribution to total mineral sales during January 2008 to August 2008, divided by 100. Figures have been rounded off.

## Explanatory notes

|                              |           |  |
|------------------------------|-----------|--|
| <b>Introduction</b>          | <b>1</b>  | <p>Statistics South Africa (Stats SA) publishes monthly information regarding the mining industry on the basis of mining production figures and mineral sales furnished by the Department of Mineral Resources (DMR). This statistical release contains detailed information regarding indices of the physical volume of mining production and the total value of mineral sales according to mining mineral groups and minerals on a monthly basis.</p>  |
|                              | <b>2</b>  | <p>In accordance with international practice, the indices have to be re-based every five years to a new base year. The base year of the index of the physical volume of mining production is currently 2005=100. Both actual and seasonally adjusted figures are presented.</p>  |
|                              | <b>3</b>  | <p>Due to mining production figures being available earlier than mineral sales figures, mining production indices are published one month earlier than mineral sales.</p>  |
|                              | <b>4</b>  | <p>The value of mineral sales is calculated, in general, on a free-on-rail/free-on-board basis.</p>  |
|                              | <b>5</b>  | <p>In order to improve timeliness, some information for the current month may have been estimated due to late response. These estimates will be revised in future statistical release(s) as soon as more up-to-date information is available.</p>  |
| <b>Purpose of the survey</b> | <b>6</b>  | <p>The monthly mining production and sales survey is conducted by the Department of Mineral Resources (DMR), covering all mining establishments operating in the South African economy. The results of this survey are used to calculate physical volume of mining production indices in order to estimate the gross domestic product (GDP) and its components, which in turn are used to develop and monitor government policy.</p>   |
| <b>Scope of the survey</b>   | <b>7</b>  | <p>This survey covers mining establishments conducting activities regarding</p> <ul style="list-style-type: none"> <li>• The extracting, dressing and beneficiating of minerals occurring naturally, for example solids such as coal and ores.</li> </ul>  |
| <b>Classification</b>        | <b>8</b>  | <p>The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities (SIC)</i>, Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities (ISIC)</i> with suitable adaptations for local conditions. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment. Statistics in this publication are presented according to mineral groups and minerals..</p> |
| <b>Statistical unit</b>      | <b>9</b>  | <p>The basic statistical unit for the collection of information is the mining establishment. An establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (see paragraph 8).</p>   |
| <b>Weighting</b>             | <b>10</b> | <p>The weights, which are used to aggregate minerals to mineral groups and mineral groups to total mining, are based on the value of production derived from detailed information for 2005 supplied by the Department of Mineral Resources (DMR).</p>  |

|                                 |           |   |
|---------------------------------|-----------|---|
| <b>Seasonal adjustment</b>      | <b>11</b> | <p>Seasonally adjusted estimates of all items are generated each month, using the X-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which may be present in any particular month.</p> <p>Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.</p> |
| <b>Reliability of estimates</b> | <b>12</b> | <p>Figures for the latest calendar year are preliminary.</p>  |
| <b>Historical data</b>          | <b>13</b> | <p>More comprehensive detail on the method of calculation and historical data in respect of the production indices according to mining mineral groups for the period January 1998 to September 2009 is available in this statistical release P2041, entitled <i>Mining: Production and sales (Preliminary)</i>, published on 12 November 2009 and is available on the Stats SA website: <a href="http://www.statssa.gov.za">www.statssa.gov.za</a></p>  |
| <b>Related publications</b>     | <b>14</b> | <p>Users may also wish to refer to the following publications which are available from Stats SA -</p> <ul style="list-style-type: none"> <li>• <i>Bulletin of Statistics.</i></li> <li>• <i>SA Statistics.</i></li> </ul>   |
| <b>Rounding-off of figures</b>  | <b>15</b> | <p>The figures in the tables have, where necessary, been rounded off to the nearest digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.</p>  |



## Glossary

|  |  |
|--|--|
| <b>Free-on-rail</b>                                  | Free-on-rail relates to goods sold on the local market where no railage or road transport costs are involved.  |
| <b>Free-on-board</b>                                 | Free-on-board relates to goods destined for the export market. Railage, road transport and docking charges are involved but no charges are made for the transport by sea.  |
| <b>Index of physical volume of mining production</b> | The index of physical volume of mining production or a production index is a statistical measure of the change in the volume of production. The production index of a mineral group is the ratio between the volume of production of a mineral group in a given period and the volume of production of the same mineral group in the base period. The current base period is 2005. The production in the base period is set at 100.                                    |
| <b>Industry</b>                                      | An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the <i>System of National Accounts (SNA)</i> in the same way as in the <i>Standard Industrial Classification (SIC) of all Economic Activities</i> , Fifth Edition of January 1993.  |
| <b>PGMs - Platinum group metals</b>                  | Platinum group metals include platinum; iridium; osmiridium; palladium; rhodium; ruthenium and osmium.   |
| <b>Sales</b>   | Sales are the total value of sales and transfers-out of goods mined by the mining establishments and the amounts received for installation, erection or assembly or other services rendered.   |
| <b>Weight</b>  | The weight of a mineral group is the ratio of the sales of a mineral group to the total sales of the mining industry. The weight of a mineral group reflects the importance of the mineral group in the total mining industry. The weights change over time due to quality changes and changes in relative prices. New weights need to be calculated from time to time. The current weights that are being used is based on the total value of mineral sales for 2005. |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009**

**Table 1 – Indices of the physical volume of total mining production: Base 2005=100**

|                           |                | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave |              |
|---------------------------|----------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 100,0 | 1998    | 88,8     | 90,9  | 93,0  | 89,4  | 89,8  | 97,4  | 91,2   | 93,2      | 93,3    | 97,9     | 95,6     | 92,4     | <b>92,7</b>  |
|                           |                | 1999    | 82,9     | 88,7  | 93,9  | 86,2  | 93,6  | 92,9  | 91,8   | 88,1      | 93,5    | 93,3     | 95,8     | 90,4     | <b>90,9</b>  |
|                           |                | 2000    | 84,0     | 88,9  | 89,6  | 85,1  | 85,7  | 95,6  | 86,7   | 91,4      | 93,9    | 89,6     | 94,5     | 89,7     | <b>89,6</b>  |
|                           |                | 2001    | 85,1     | 86,7  | 91,6  | 88,5  | 92,8  | 97,1  | 83,8   | 103,2     | 88,1    | 94,1     | 91,9     | 87,1     | <b>90,8</b>  |
|                           |                | 2002    | 79,7     | 84,3  | 88,8  | 91,3  | 92,2  | 93,2  | 88,7   | 96,0      | 96,9    | 95,5     | 96,3     | 95,9     | <b>91,6</b>  |
|                           |                | 2003    | 76,2     | 91,0  | 91,1  | 90,4  | 95,9  | 97,2  | 99,2   | 97,7      | 102,6   | 102,6    | 97,3     | 101,6    | <b>95,3</b>  |
|                           |                | 2004    | 90,2     | 87,6  | 101,1 | 94,1  | 101,2 | 99,5  | 107,0  | 102,4     | 105,1   | 96,9     | 98,6     | 101,5    | <b>98,8</b>  |
|                           |                | 2005    | 97,1     | 90,4  | 104,8 | 99,2  | 102,7 | 104,0 | 101,4  | 102,8     | 103,1   | 98,5     | 100,4    | 95,7     | <b>100,0</b> |
|                           |                | 2006    | 87,7     | 85,2  | 101,7 | 94,8  | 98,7  | 104,9 | 99,4   | 103,7     | 105,1   | 100,2    | 104,2    | 98,9     | <b>98,7</b>  |
|                           |                | 2007    | 90,1     | 90,8  | 102,9 | 93,9  | 99,0  | 102,6 | 96,0   | 101,6     | 104,5   | 97,0     | 98,6     | 96,8     | <b>97,8</b>  |
|                           |                | 2008    | 79,0     | 83,6  | 85,6  | 91,4  | 98,1  | 98,4  | 89,4   | 97,5      | 102,3   | 99,0     | 92,4     | 90,8     | <b>92,3</b>  |
| 2009                      | 71,5           | 74,8    | 83,8     | 81,4  | 88,8  | 93,2  | 92,4  | 89,3  | 86,0   |           |         |          |          |          |              |
| Seasonal adjusted indices | Weight = 100,0 | 1998    | 97,1     | 95,7  | 94,9  | 96,3  | 92,9  | 97,4  | 93,2   | 93,4      | 94,0    | 98,8     | 95,4     | 95,5     |              |
|                           |                | 1999    | 92,7     | 94,3  | 95,9  | 91,4  | 97,8  | 92,3  | 95,8   | 89,2      | 94,0    | 94,0     | 95,8     | 93,4     |              |
|                           |                | 2000    | 94,6     | 96,1  | 93,4  | 91,9  | 90,1  | 95,9  | 92,0   | 93,7      | 95,9    | 91,2     | 95,7     | 93,4     |              |
|                           |                | 2001    | 97,1     | 95,0  | 95,5  | 95,0  | 95,4  | 95,2  | 87,7   | 96,9      | 88,8    | 92,2     | 91,2     | 88,3     |              |
|                           |                | 2002    | 91,8     | 94,0  | 91,3  | 95,4  | 94,2  | 92,5  | 92,1   | 95,7      | 95,8    | 94,8     | 96,4     | 95,4     |              |
|                           |                | 2003    | 87,6     | 100,2 | 94,0  | 95,6  | 96,1  | 93,5  | 98,2   | 95,5      | 99,1    | 101,0    | 96,7     | 99,4     |              |
|                           |                | 2004    | 101,1    | 99,0  | 101,1 | 97,4  | 99,4  | 96,6  | 105,9  | 99,9      | 100,3   | 96,7     | 98,6     | 101,3    |              |
|                           |                | 2005    | 106,9    | 100,2 | 104,8 | 102,8 | 100,6 | 100,0 | 99,6   | 98,3      | 96,7    | 96,6     | 98,6     | 95,0     |              |
|                           |                | 2006    | 97,8     | 95,1  | 101,1 | 98,6  | 96,7  | 100,3 | 97,6   | 99,1      | 97,8    | 98,5     | 102,1    | 97,5     |              |
|                           |                | 2007    | 101,8    | 102,4 | 102,3 | 97,9  | 96,9  | 97,3  | 94,0   | 97,0      | 96,5    | 95,4     | 96,4     | 95,7     |              |
|                           |                | 2008    | 90,3     | 94,9  | 85,0  | 95,7  | 96,2  | 93,1  | 87,2   | 93,4      | 94,5    | 97,9     | 90,2     | 89,2     |              |
| 2009                      | 81,7           | 85,6    | 82,7     | 85,9  | 86,8  | 88,0  | 90,1  | 85,6  | 80,3   |           |         |          |          |          |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 2 – Indices of the physical volume of gold production: Base 2005=100**

|                           |               | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave    |              |
|---------------------------|---------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|-------------|--------------|
| Actual indices            | Weight = 17,2 | 1998    | 156,2    | 157,6 | 157,1 | 148,6 | 148,0 | 164,4 | 154,5  | 161,5     | 163,2   | 155,6    | 161,5    | 167,9       | <b>158,0</b> |
|                           |               | 1999    | 139,8    | 151,5 | 168,5 | 152,1 | 151,0 | 158,6 | 146,9  | 146,9     | 162,1   | 151,0    | 153,9    | 156,2       | <b>153,2</b> |
|                           |               | 2000    | 134,6    | 157,4 | 155,0 | 142,8 | 136,3 | 153,3 | 138,7  | 151,0     | 152,7   | 143,9    | 146,3    | 143,9       | <b>146,3</b> |
|                           |               | 2001    | 125,2    | 134,0 | 140,4 | 130,5 | 129,3 | 141,0 | 136,3  | 128,7     | 138,1   | 132,2    | 132,8    | 139,8       | <b>134,0</b> |
|                           |               | 2002    | 127,5    | 131,1 | 136,9 | 135,2 | 132,8 | 138,7 | 131,1  | 140,4     | 144,5   | 134,0    | 132,8    | 138,7       | <b>135,3</b> |
|                           |               | 2003    | 122,3    | 125,2 | 130,5 | 125,2 | 124,6 | 125,8 | 128,1  | 129,3     | 132,2   | 127,0    | 127,0    | 124,6       | <b>126,8</b> |
|                           |               | 2004    | 107,7    | 116,4 | 119,9 | 111,2 | 115,3 | 119,9 | 117,0  | 119,9     | 118,2   | 110,0    | 113,5    | 108,2       | <b>114,8</b> |
|                           |               | 2005    | 99,7     | 101,3 | 106,3 | 90,0  | 100,3 | 104,8 | 97,1   | 94,4      | 104,1   | 98,5     | 100,1    | 103,6       | <b>100,0</b> |
|                           |               | 2006    | 85,5     | 92,8  | 96,9  | 92,8  | 87,2  | 95,6  | 89,9   | 94,9      | 98,6    | 91,2     | 91,8     | 86,0        | <b>91,9</b>  |
|                           |               | 2007    | 81,3     | 91,4  | 86,1  | 81,4  | 85,9  | 89,9  | 85,2   | 90,8      | 92,5    | 85,6     | 80,5     | 82,8        | <b>86,1</b>  |
|                           |               | 2008    | 67,1     | 65,2  | 76,4  | 71,8  | 74,9  | 79,1  | 71,5   | 69,4      | 78,4    | 72,2     | 70,9     | <b>72,2</b> |              |
|                           |               | 2009    | 61,4     | 67,0  | 71,0  | 62,1  | 67,5  | 69,7  | 65,0   | 67,9      | 71,1    |          |          |             |              |
| Seasonal adjusted indices | Weight = 17,2 | 1998    | 171,4    | 160,0 | 153,8 | 155,6 | 152,8 | 160,5 | 159,1  | 156,8     | 154,9   | 154,8    | 156,2    | 161,1       |              |
|                           |               | 1999    | 154,2    | 154,7 | 164,8 | 158,5 | 156,4 | 153,5 | 151,6  | 142,2     | 153,3   | 150,5    | 149,6    | 149,7       |              |
|                           |               | 2000    | 148,7    | 161,6 | 151,5 | 147,9 | 141,4 | 147,9 | 142,9  | 146,0     | 144,2   | 143,5    | 143,2    | 138,2       |              |
|                           |               | 2001    | 138,2    | 138,0 | 137,5 | 134,9 | 133,9 | 135,9 | 139,7  | 124,3     | 130,4   | 131,7    | 130,4    | 134,9       |              |
|                           |               | 2002    | 140,3    | 135,4 | 134,4 | 140,0 | 136,9 | 133,9 | 133,4  | 135,5     | 136,5   | 133,3    | 130,4    | 134,5       |              |
|                           |               | 2003    | 134,4    | 129,5 | 128,6 | 130,1 | 127,9 | 121,7 | 129,6  | 124,5     | 124,6   | 126,2    | 124,3    | 121,6       |              |
|                           |               | 2004    | 118,2    | 120,7 | 118,7 | 116,0 | 117,8 | 116,1 | 118,0  | 115,2     | 110,9   | 109,0    | 111,0    | 106,3       |              |
|                           |               | 2005    | 110,1    | 105,2 | 105,5 | 94,4  | 102,0 | 101,1 | 98,0   | 90,4      | 97,0    | 97,3     | 98,0     | 102,5       |              |
|                           |               | 2006    | 95,0     | 96,5  | 96,2  | 98,0  | 88,3  | 91,8  | 90,9   | 90,7      | 91,2    | 89,7     | 90,1     | 85,4        |              |
|                           |               | 2007    | 91,2     | 95,1  | 85,4  | 86,3  | 86,6  | 85,9  | 86,4   | 86,6      | 84,8    | 84,1     | 79,5     | 82,5        |              |
|                           |               | 2008    | 75,6     | 67,9  | 75,7  | 76,4  | 75,3  | 75,4  | 72,6   | 66,2      | 71,5    | 70,2     | 69,4     |             |              |
|                           |               | 2009    | 69,4     | 69,8  | 70,5  | 66,2  | 67,7  | 66,4  | 66,0   | 64,8      | 64,8    |          |          |             |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 3 – Indices of the physical volume of iron ore production: Base 2005=100**

|                           |              | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave |              |
|---------------------------|--------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 5,3 | 1998    | 84,3     | 73,6  | 86,0  | 87,1  | 84,4  | 94,9  | 76,6   | 78,3      | 78,6    | 91,5     | 97,6     | 74,2     | <b>83,9</b>  |
|                           |              | 1999    | 83,1     | 72,5  | 68,5  | 64,4  | 83,1  | 69,8  | 73,6   | 77,3      | 68,8    | 82,4     | 83,7     | 68,1     | <b>74,6</b>  |
|                           |              | 2000    | 82,4     | 78,0  | 80,0  | 85,1  | 85,8  | 87,8  | 84,7   | 74,6      | 75,9    | 93,6     | 98,0     | 90,8     | <b>84,7</b>  |
|                           |              | 2001    | 90,8     | 82,0  | 84,7  | 83,1  | 92,9  | 100,0 | 89,8   | 93,6      | 79,3    | 76,9     | 93,2     | 89,2     | <b>88,0</b>  |
|                           |              | 2002    | 98,3     | 102,4 | 93,2  | 86,4  | 87,1  | 99,7  | 92,2   | 94,2      | 79,7    | 95,9     | 91,2     | 90,2     | <b>92,5</b>  |
|                           |              | 2003    | 90,8     | 88,8  | 96,9  | 100,7 | 102,7 | 101,7 | 89,2   | 96,6      | 100,3   | 105,4    | 94,2     | 98,0     | <b>97,1</b>  |
|                           |              | 2004    | 91,9     | 90,2  | 103,4 | 94,6  | 109,2 | 111,5 | 99,0   | 90,2      | 94,9    | 102,0    | 99,7     | 107,1    | <b>99,5</b>  |
|                           |              | 2005    | 101,4    | 96,1  | 96,1  | 110,5 | 103,6 | 104,5 | 100,0  | 101,5     | 96,3    | 107,1    | 83,8     | 98,9     | <b>100,0</b> |
|                           |              | 2006    | 96,7     | 88,3  | 108,6 | 107,9 | 106,5 | 106,0 | 103,4  | 105,3     | 109,8   | 101,9    | 113,1    | 108,0    | <b>104,6</b> |
|                           |              | 2007    | 104,9    | 99,2  | 114,0 | 104,1 | 101,7 | 116,7 | 98,3   | 102,0     | 106,9   | 113,8    | 99,7     | 115,8    | <b>106,4</b> |
|                           |              | 2008    | 100,5    | 101,6 | 112,3 | 111,3 | 110,2 | 144,1 | 132,5  | 137,6     | 135,7   | 138,2    | 119,7    | 142,8    | <b>123,9</b> |
|                           |              | 2009    | 126,4    | 131,7 | 124,0 | 117,5 | 145,3 | 134,4 | 152,8  | 144,6     | 141,4   |          |          |          |              |
| Seasonal adjusted indices | Weight = 5,3 | 1998    | 82,9     | 77,1  | 86,1  | 88,9  | 81,9  | 88,8  | 79,3   | 78,9      | 82,1    | 89,1     | 90,8     | 78,5     |              |
|                           |              | 1999    | 80,9     | 77,0  | 69,4  | 66,1  | 80,9  | 65,3  | 75,5   | 77,3      | 74,3    | 78,3     | 77,6     | 71,4     |              |
|                           |              | 2000    | 79,8     | 83,0  | 82,0  | 88,3  | 83,4  | 82,1  | 86,0   | 73,8      | 83,6    | 88,1     | 92,0     | 94,5     |              |
|                           |              | 2001    | 88,8     | 87,5  | 86,3  | 86,3  | 89,7  | 93,1  | 90,6   | 92,6      | 87,9    | 72,4     | 89,6     | 91,2     |              |
|                           |              | 2002    | 97,3     | 109,1 | 94,0  | 89,9  | 83,4  | 92,7  | 92,6   | 93,2      | 87,3    | 90,8     | 90,5     | 90,9     |              |
|                           |              | 2003    | 91,2     | 95,3  | 96,0  | 103,6 | 97,9  | 94,7  | 89,8   | 96,2      | 107,8   | 100,1    | 96,0     | 97,7     |              |
|                           |              | 2004    | 93,3     | 97,3  | 100,9 | 96,4  | 104,4 | 104,2 | 100,1  | 90,2      | 99,2    | 96,5     | 103,8    | 105,9    |              |
|                           |              | 2005    | 104,2    | 104,4 | 92,9  | 111,9 | 100,1 | 97,5  | 101,4  | 101,8     | 98,2    | 101,3    | 88,6     | 96,7     |              |
|                           |              | 2006    | 100,5    | 96,0  | 105,1 | 109,4 | 104,4 | 98,4  | 105,0  | 105,1     | 110,0   | 96,1     | 121,2    | 104,6    |              |
|                           |              | 2007    | 109,8    | 108,0 | 110,6 | 105,9 | 100,8 | 107,7 | 99,6   | 100,9     | 105,7   | 107,4    | 107,9    | 111,7    |              |
|                           |              | 2008    | 105,9    | 110,3 | 109,4 | 113,7 | 110,2 | 132,4 | 134,4  | 135,3     | 133,2   | 130,2    | 130,1    | 137,6    |              |
|                           |              | 2009    | 133,9    | 142,8 | 120,9 | 120,6 | 145,8 | 122,6 | 155,2  | 142,1     | 138,5   |          |          |          |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 4 – Indices of the physical volume of chromium ore production: Base 2005=100**

|                           |              | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave |              |
|---------------------------|--------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 1,3 | 1998    | 76,7     | 77,1  | 83,9  | 76,7  | 91,3  | 94,8  | 94,8   | 90,2      | 95,5    | 93,8     | 84,9     | 76,0     | <b>86,3</b>  |
|                           |              | 1999    | 80,3     | 82,4  | 89,5  | 89,1  | 98,4  | 82,0  | 101,9  | 103,3     | 96,6    | 94,8     | 93,4     | 78,8     | <b>90,9</b>  |
|                           |              | 2000    | 76,7     | 83,5  | 94,8  | 81,3  | 93,0  | 96,6  | 90,9   | 90,2      | 92,7    | 95,2     | 93,0     | 78,1     | <b>88,8</b>  |
|                           |              | 2001    | 75,3     | 72,8  | 70,0  | 70,0  | 71,4  | 82,7  | 77,8   | 72,4      | 68,5    | 79,9     | 73,9     | 65,3     | <b>73,3</b>  |
|                           |              | 2002    | 69,6     | 69,3  | 74,6  | 81,0  | 85,6  | 88,4  | 94,1   | 88,1      | 99,8    | 95,2     | 93,4     | 89,8     | <b>85,7</b>  |
|                           |              | 2003    | 87,7     | 94,8  | 92,3  | 96,2  | 99,1  | 100,5 | 103,7  | 108,7     | 103,7   | 106,5    | 104,1    | 86,7     | <b>98,7</b>  |
|                           |              | 2004    | 90,9     | 91,6  | 81,0  | 96,2  | 108,0 | 111,9 | 113,6  | 107,6     | 103,7   | 108,0    | 111,2    | 103,7    | <b>102,3</b> |
|                           |              | 2005    | 105,8    | 112,1 | 100,1 | 109,2 | 109,1 | 76,8  | 116,2  | 99,8      | 99,9    | 99,9     | 102,8    | 70,8     | <b>100,0</b> |
|                           |              | 2006    | 78,1     | 86,3  | 85,9  | 81,8  | 93,7  | 95,1  | 102,7  | 109,6     | 107,0   | 117,8    | 120,6    | 109,6    | <b>99,0</b>  |
|                           |              | 2007    | 116,2    | 120,0 | 132,3 | 121,4 | 134,3 | 139,0 | 135,1  | 136,7     | 131,8   | 130,8    | 132,3    | 117,8    | <b>129,0</b> |
|                           |              | 2008    | 121,2    | 134,7 | 127,6 | 143,8 | 138,9 | 135,8 | 144,6  | 143,3     | 143,1   | 143,6    | 126,4    | 49,0     | <b>129,3</b> |
| 2009                      | 35,7         | 46,6    | 95,7     | 82,1  | 103,9 | 88,3  | 93,2  | 92,4  | 103,6  |           |         |          |          |          |              |
| Seasonal adjusted indices | Weight = 1,3 | 1998    | 88,2     | 81,7  | 86,3  | 81,9  | 89,2  | 90,0  | 89,8   | 85,7      | 90,1    | 88,3     | 80,1     | 83,8     |              |
|                           |              | 1999    | 90,9     | 88,4  | 93,0  | 95,4  | 95,3  | 76,9  | 96,0   | 99,0      | 91,6    | 88,7     | 88,8     | 87,4     |              |
|                           |              | 2000    | 85,5     | 90,1  | 99,6  | 86,0  | 90,4  | 90,7  | 84,8   | 86,6      | 88,5    | 88,9     | 89,2     | 86,7     |              |
|                           |              | 2001    | 83,1     | 78,6  | 73,8  | 73,2  | 69,3  | 77,8  | 72,3   | 69,9      | 66,1    | 74,9     | 71,3     | 71,9     |              |
|                           |              | 2002    | 76,1     | 73,9  | 79,4  | 83,7  | 83,3  | 83,8  | 87,6   | 84,9      | 97,1    | 89,7     | 90,2     | 98,5     |              |
|                           |              | 2003    | 95,3     | 100,0 | 98,4  | 99,1  | 96,2  | 95,9  | 96,6   | 104,7     | 101,5   | 101,1    | 100,8    | 94,7     |              |
|                           |              | 2004    | 98,4     | 95,5  | 86,0  | 99,2  | 104,8 | 107,4 | 106,3  | 102,8     | 101,5   | 103,0    | 107,8    | 114,0    |              |
|                           |              | 2005    | 114,9    | 116,1 | 105,9 | 113,1 | 105,7 | 73,9  | 108,9  | 94,3      | 96,9    | 94,4     | 99,8     | 78,5     |              |
|                           |              | 2006    | 85,8     | 89,6  | 90,9  | 84,5  | 90,8  | 91,6  | 96,1   | 102,6     | 101,8   | 112,7    | 117,3    | 123,1    |              |
|                           |              | 2007    | 129,7    | 125,8 | 140,2 | 124,7 | 130,1 | 133,9 | 125,8  | 126,8     | 122,7   | 125,1    | 129,4    | 133,9    |              |
|                           |              | 2008    | 137,5    | 143,2 | 135,3 | 146,7 | 134,6 | 130,7 | 134,3  | 132,2     | 131,0   | 137,4    | 124,0    | 56,1     |              |
| 2009                      | 40,8         | 50,0    | 101,5    | 83,6  | 100,7 | 84,8  | 86,4  | 85,0  | 94,3   |           |         |          |          |          |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 5 – Indices of the physical volume of copper production: Base 2005=100**

|                           |              | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave |              |
|---------------------------|--------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 1,8 | 1998    | 149,8    | 179,8 | 182,7 | 178,4 | 136,1 | 120,5 | 132,5  | 159,6     | 166,9   | 173,1    | 150,7    | 160,1    | <b>157,5</b> |
|                           |              | 1999    | 94,4     | 121,5 | 118,4 | 91,8  | 211,7 | 92,3  | 164,3  | 102,7     | 161,7   | 162,7    | 157,0    | 175,2    | <b>137,8</b> |
|                           |              | 2000    | 113,2    | 105,3 | 132,5 | 140,3 | 106,4 | 102,7 | 128,8  | 134,6     | 152,3   | 148,1    | 184,6    | 116,3    | <b>130,4</b> |
|                           |              | 2001    | 151,8    | 141,9 | 148,6 | 162,2 | 153,3 | 91,3  | 70,4   | 134,0     | 166,4   | 167,9    | 117,9    | 117,9    | <b>135,3</b> |
|                           |              | 2002    | 117,3    | 124,1 | 125,7 | 123,6 | 136,1 | 114,2 | 135,1  | 129,3     | 111,6   | 116,3    | 120,5    | 127,2    | <b>123,4</b> |
|                           |              | 2003    | 134,6    | 89,7  | 119,4 | 110,0 | 129,3 | 118,9 | 102,7  | 110,0     | 111,6   | 122,0    | 120,5    | 113,2    | <b>115,2</b> |
|                           |              | 2004    | 109,0    | 106,4 | 95,4  | 88,7  | 97,0  | 104,8 | 95,4   | 88,7      | 92,3    | 94,4     | 88,1     | 98,6     | <b>96,6</b>  |
|                           |              | 2005    | 101,5    | 94,9  | 102,6 | 100,2 | 107,2 | 96,6  | 111,4  | 117,6     | 47,7    | 102,7    | 121,2    | 96,3     | <b>100,0</b> |
|                           |              | 2006    | 83,3     | 70,8  | 82,2  | 91,3  | 115,2 | 134,4 | 116,7  | 115,6     | 116,3   | 112,9    | 109,3    | 118,2    | <b>105,5</b> |
|                           |              | 2007    | 108,3    | 100,6 | 103,3 | 116,0 | 112,8 | 112,3 | 113,6  | 119,1     | 113,8   | 116,0    | 115,0    | 120,1    | <b>112,6</b> |
|                           |              | 2008    | 81,0     | 79,5  | 109,9 | 105,6 | 100,3 | 108,2 | 89,7   | 88,7      | 84,0    | 72,1     | 104,1    | 99,8     | <b>93,6</b>  |
| 2009                      | 97,8         | 94,3    | 109,7    | 95,1  | 96,2  | 107,8 | 102,2 | 82,2  | 82,7   |           |         |          |          |          |              |
| Seasonal adjusted indices | Weight =1,8  | 1998    | 169,3    | 178,3 | 173,2 | 168,7 | 150,2 | 145,9 | 137,6  | 150,8     | 157,9   | 156,0    | 139,3    | 154,7    |              |
|                           |              | 1999    | 107,7    | 124,2 | 114,1 | 86,0  | 229,5 | 116,5 | 168,8  | 98,1      | 150,3   | 145,1    | 145,1    | 166,4    |              |
|                           |              | 2000    | 127,7    | 112,3 | 131,3 | 131,9 | 110,5 | 129,4 | 129,6  | 130,9     | 142,3   | 131,8    | 172,5    | 110,8    |              |
|                           |              | 2001    | 165,0    | 155,3 | 149,6 | 156,3 | 154,1 | 109,3 | 69,7   | 132,3     | 157,8   | 152,3    | 112,1    | 114,0    |              |
|                           |              | 2002    | 122,2    | 136,7 | 127,2 | 122,7 | 132,0 | 128,0 | 133,4  | 129,3     | 108,7   | 106,8    | 117,3    | 124,9    |              |
|                           |              | 2003    | 136,4    | 98,2  | 121,7 | 112,8 | 122,7 | 124,1 | 100,8  | 110,4     | 111,1   | 114,4    | 119,8    | 110,9    |              |
|                           |              | 2004    | 109,3    | 116,9 | 98,5  | 92,2  | 90,8  | 104,9 | 92,8   | 88,8      | 92,7    | 89,4     | 88,4     | 94,9     |              |
|                           |              | 2005    | 103,1    | 106,5 | 107,1 | 104,2 | 100,8 | 93,0  | 107,6  | 117,4     | 48,2    | 99,2     | 121,4    | 92,1     |              |
|                           |              | 2006    | 85,3     | 80,6  | 84,9  | 93,4  | 109,7 | 128,0 | 112,6  | 116,2     | 118,3   | 108,9    | 108,6    | 112,7    |              |
|                           |              | 2007    | 112,6    | 116,4 | 105,3 | 117,1 | 108,2 | 105,2 | 109,4  | 120,5     | 117,4   | 112,9    | 113,5    | 114,3    |              |
|                           |              | 2008    | 84,5     | 92,7  | 109,8 | 105,5 | 97,0  | 100,5 | 86,9   | 90,7      | 87,7    | 70,2     | 101,8    | 94,7     |              |
| 2009                      | 102,2        | 110,1   | 108,8    | 94,5  | 93,7  | 99,4  | 99,9  | 84,4  | 86,9   |           |         |          |          |          |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 6 – Indices of the physical volume of manganese ore production: Base 2005=100**

|                           |              | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave     |              |
|---------------------------|--------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|--------------|--------------|
| Actual indices            | Weight = 1,5 | 1998    | 62,9     | 68,2  | 66,0  | 62,8  | 62,5  | 61,6  | 62,2   | 65,7      | 64,1    | 63,5     | 68,8     | 61,9         | <b>64,2</b>  |
|                           |              | 1999    | 61,3     | 56,5  | 66,0  | 59,7  | 68,5  | 60,6  | 67,6   | 74,5      | 72,3    | 70,4     | 76,1     | 70,4         | <b>67,0</b>  |
|                           |              | 2000    | 69,2     | 76,1  | 84,9  | 80,5  | 82,1  | 86,8  | 79,9   | 74,5      | 73,3    | 87,2     | 86,5     | 66,0         | <b>78,9</b>  |
|                           |              | 2001    | 71,1     | 79,6  | 72,6  | 70,1  | 69,8  | 78,9  | 73,9   | 64,4      | 68,8    | 66,6     | 67,3     | 65,7         | <b>70,7</b>  |
|                           |              | 2002    | 57,2     | 72,0  | 68,5  | 61,6  | 60,0  | 79,3  | 76,4   | 83,7      | 76,7    | 81,8     | 80,5     | 77,1         | <b>72,9</b>  |
|                           |              | 2003    | 65,7     | 71,4  | 70,1  | 75,2  | 70,4  | 83,1  | 74,8   | 72,6      | 68,2    | 71,4     | 77,7     | 84,0         | <b>73,7</b>  |
|                           |              | 2004    | 76,4     | 89,4  | 79,3  | 89,4  | 90,6  | 99,5  | 86,5   | 97,6      | 89,1    | 92,2     | 95,4     | 106,4        | <b>91,0</b>  |
|                           |              | 2005    | 104,8    | 114,3 | 96,3  | 98,4  | 107,2 | 108,6 | 97,5   | 88,7      | 88,3    | 75,3     | 111,7    | 108,9        | <b>100,0</b> |
|                           |              | 2006    | 103,1    | 104,2 | 103,1 | 119,3 | 116,6 | 116,7 | 111,9  | 102,8     | 121,2   | 119,5    | 121,4    | 116,7        | <b>113,0</b> |
|                           |              | 2007    | 110,5    | 116,6 | 144,8 | 126,0 | 126,1 | 159,7 | 115,9  | 137,7     | 120,9   | 129,4    | 133,6    | 139,1        | <b>130,0</b> |
|                           | 2008         | 121,9   | 139,2    | 139,5 | 144,9 | 155,3 | 170,7 | 159,2 | 168,3  | 165,6     | 143,3   | 133,4    | 129,9    | <b>147,6</b> |              |
|                           | 2009         | 73,4    | 75,1     | 87,0  | 70,1  | 80,9  | 128,3 | 104,1 | 79,0   | 114,8     |         |          |          |              |              |
| Seasonal adjusted indices | Weight = 1,5 | 1998    | 65,9     | 65,6  | 66,2  | 65,1  | 63,2  | 58,2  | 62,1   | 65,1      | 65,1    | 62,9     | 66,9     | 63,6         |              |
|                           |              | 1999    | 65,3     | 54,5  | 65,5  | 62,3  | 69,1  | 57,4  | 67,1   | 74,5      | 73,1    | 69,9     | 72,9     | 72,1         |              |
|                           |              | 2000    | 74,9     | 74,0  | 84,3  | 84,0  | 82,7  | 81,1  | 79,0   | 75,2      | 74,1    | 86,9     | 82,6     | 66,9         |              |
|                           |              | 2001    | 78,2     | 77,6  | 72,4  | 72,4  | 70,3  | 72,6  | 73,0   | 65,4      | 70,5    | 66,9     | 64,6     | 65,6         |              |
|                           |              | 2002    | 62,9     | 69,7  | 69,6  | 62,9  | 60,3  | 71,8  | 75,5   | 85,4      | 79,7    | 82,7     | 78,6     | 75,6         |              |
|                           |              | 2003    | 71,4     | 68,7  | 72,3  | 76,0  | 70,2  | 75,3  | 74,5   | 74,1      | 71,3    | 72,4     | 76,7     | 81,6         |              |
|                           |              | 2004    | 81,8     | 86,4  | 82,9  | 89,7  | 89,5  | 89,9  | 86,9   | 98,9      | 93,3    | 93,8     | 94,9     | 102,9        |              |
|                           |              | 2005    | 111,2    | 111,9 | 101,5 | 98,4  | 105,1 | 98,3  | 98,8   | 88,6      | 91,3    | 76,4     | 111,3    | 105,5        |              |
|                           |              | 2006    | 109,9    | 104,4 | 109,1 | 120,2 | 114,8 | 105,0 | 112,6  | 101,3     | 122,6   | 120,5    | 120,7    | 113,3        |              |
|                           |              | 2007    | 119,6    | 119,9 | 153,2 | 128,2 | 125,2 | 143,5 | 115,2  | 133,5     | 118,2   | 129,6    | 132,6    | 136,1        |              |
|                           | 2008         | 134,9   | 147,4    | 147,4 | 148,6 | 156,7 | 152,0 | 156,1 | 161,1  | 158,7     | 143,1   | 132,1    | 127,9    |              |              |
|                           | 2009         | 82,5    | 80,7     | 91,9  | 72,0  | 82,3  | 113,5 | 101,8 | 74,7   | 109,1     |         |          |          |              |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 7 – Indices of the physical volume of PGM production: Base 2005=100**

|                           |               | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave |              |
|---------------------------|---------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 27,0 | 1998    | 57,5     | 61,3  | 68,6  | 64,5  | 66,1  | 77,8  | 57,7   | 57,9      | 60,7    | 71,8     | 67,5     | 77,3     | <b>65,7</b>  |
|                           |               | 1999    | 60,9     | 62,3  | 71,0  | 58,8  | 75,4  | 75,6  | 74,0   | 69,4      | 68,3    | 77,0     | 75,9     | 86,0     | <b>71,2</b>  |
|                           |               | 2000    | 56,6     | 68,8  | 69,6  | 63,9  | 64,7  | 79,4  | 61,8   | 67,7      | 76,2    | 60,4     | 68,6     | 78,1     | <b>68,0</b>  |
|                           |               | 2001    | 65,6     | 64,7  | 74,0  | 72,4  | 76,7  | 83,2  | 57,4   | 88,4      | 71,3    | 82,7     | 80,5     | 86,0     | <b>75,2</b>  |
|                           |               | 2002    | 60,9     | 64,5  | 76,2  | 78,1  | 82,2  | 78,9  | 65,3   | 85,7      | 87,3    | 83,2     | 86,2     | 97,7     | <b>78,8</b>  |
|                           |               | 2003    | 46,8     | 84,3  | 80,3  | 78,9  | 82,7  | 95,5  | 89,2   | 91,4      | 100,4   | 99,0     | 87,9     | 111,8    | <b>87,3</b>  |
|                           |               | 2004    | 85,7     | 72,9  | 98,2  | 96,3  | 104,2 | 92,8  | 109,6  | 97,1      | 97,1    | 82,4     | 87,9     | 105,0    | <b>94,1</b>  |
|                           |               | 2005    | 96,3     | 71,9  | 118,7 | 98,0  | 106,0 | 110,4 | 102,8  | 108,3     | 109,7   | 90,0     | 87,3     | 100,7    | <b>100,0</b> |
|                           |               | 2006    | 84,8     | 65,9  | 113,2 | 93,7  | 99,1  | 110,0 | 101,8  | 109,2     | 110,7   | 96,0     | 114,6    | 121,8    | <b>101,7</b> |
|                           |               | 2007    | 85,2     | 77,1  | 107,6 | 94,7  | 101,8 | 113,2 | 97,1   | 98,8      | 117,2   | 88,4     | 103,3    | 115,2    | <b>100,0</b> |
|                           |               | 2008    | 70,2     | 72,4  | 70,0  | 83,3  | 97,8  | 101,0 | 65,3   | 97,9      | 113,8   | 109,6    | 95,7     | 111,0    | <b>90,7</b>  |
| 2009                      | 65,0          | 72,8    | 78,4     | 88,1  | 95,3  | 108,2 | 96,3  | 86,9  | 69,5   |           |         |          |          |          |              |
| Seasonal adjusted indices | Weight = 27,0 | 1998    | 60,5     | 65,1  | 66,1  | 68,7  | 64,8  | 72,7  | 60,0   | 59,1      | 62,2    | 70,1     | 66,0     | 68,6     |              |
|                           |               | 1999    | 67,3     | 66,8  | 69,2  | 62,4  | 74,0  | 69,9  | 77,6   | 70,9      | 69,4    | 73,7     | 73,7     | 75,1     |              |
|                           |               | 2000    | 64,4     | 75,5  | 68,8  | 67,8  | 63,6  | 73,2  | 64,7   | 68,5      | 76,3    | 57,3     | 66,7     | 67,6     |              |
|                           |               | 2001    | 76,3     | 73,1  | 73,7  | 76,0  | 75,5  | 77,0  | 59,8   | 87,7      | 69,6    | 79,1     | 79,1     | 74,3     |              |
|                           |               | 2002    | 70,8     | 76,0  | 76,2  | 81,1  | 80,3  | 73,5  | 67,0   | 83,2      | 83,2    | 80,9     | 85,9     | 84,8     |              |
|                           |               | 2003    | 54,2     | 104,2 | 80,0  | 80,8  | 80,2  | 89,7  | 90,5   | 87,1      | 93,7    | 98,8     | 88,2     | 97,4     |              |
|                           |               | 2004    | 98,7     | 94,1  | 97,0  | 98,6  | 100,5 | 86,7  | 109,7  | 91,9      | 88,9    | 84,2     | 88,3     | 91,3     |              |
|                           |               | 2005    | 111,8    | 95,2  | 116,3 | 101,0 | 102,3 | 102,4 | 102,4  | 102,2     | 98,2    | 94,7     | 86,8     | 87,2     |              |
|                           |               | 2006    | 99,9     | 88,0  | 110,4 | 97,8  | 96,3  | 100,3 | 101,1  | 103,9     | 97,5    | 102,5    | 112,5    | 104,9    |              |
|                           |               | 2007    | 102,3    | 102,7 | 104,9 | 99,9  | 99,6  | 102,0 | 96,3   | 94,7      | 102,0   | 95,5     | 99,8     | 98,6     |              |
|                           |               | 2008    | 86,0     | 95,9  | 68,4  | 88,9  | 96,5  | 89,8  | 64,6   | 95,0      | 98,3    | 118,5    | 91,6     | 94,5     |              |
| 2009                      | 80,5          | 95,9    | 76,9     | 94,6  | 94,3  | 95,8  | 95,3  | 84,9  | 59,7   |           |         |          |          |          |              |



**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 8 – Indices of the physical volume of nickel production: Base 2005=100**

|                           |              | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave |              |
|---------------------------|--------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 2,8 | 1998    | 74,3     | 77,2  | 82,0  | 77,7  | 78,4  | 97,4  | 84,7   | 101,2     | 89,1    | 117,1    | 73,9     | 85,0     | <b>86,5</b>  |
|                           |              | 1999    | 74,3     | 79,5  | 99,2  | 82,2  | 91,9  | 107,8 | 74,3   | 91,6      | 94,3    | 64,3     | 91,6     | 73,9     | <b>85,4</b>  |
|                           |              | 2000    | 89,5     | 75,7  | 77,7  | 76,0  | 91,6  | 99,2  | 82,9   | 78,8      | 90,5    | 96,1     | 91,9     | 87,1     | <b>86,4</b>  |
|                           |              | 2001    | 70,8     | 72,9  | 88,5  | 88,5  | 99,5  | 87,4  | 88,5   | 82,9      | 88,1    | 80,5     | 88,1     | 96,4     | <b>86,0</b>  |
|                           |              | 2002    | 77,4     | 75,7  | 80,9  | 82,6  | 86,4  | 102,3 | 99,5   | 104,7     | 98,8    | 95,7     | 91,6     | 95,7     | <b>90,9</b>  |
|                           |              | 2003    | 79,5     | 90,9  | 88,5  | 79,1  | 108,1 | 107,1 | 109,5  | 104,7     | 92,3    | 90,9     | 106,8    | 98,8     | <b>96,3</b>  |
|                           |              | 2004    | 90,9     | 92,9  | 81,2  | 98,1  | 96,1  | 98,8  | 88,8   | 101,6     | 91,9    | 85,7     | 85,7     | 116,8    | <b>94,0</b>  |
|                           |              | 2005    | 110,6    | 96,3  | 107,4 | 88,4  | 115,7 | 97,4  | 95,8   | 113,3     | 94,6    | 90,9     | 99,0     | 90,7     | <b>100,0</b> |
|                           |              | 2006    | 78,5     | 90,8  | 103,4 | 99,0  | 91,6  | 121,7 | 96,8   | 95,1      | 99,5    | 100,7    | 101,5    | 103,4    | <b>98,5</b>  |
|                           |              | 2007    | 83,6     | 83,9  | 91,0  | 91,9  | 86,4  | 92,2  | 90,1   | 77,8      | 87,1    | 89,5     | 99,5     | 88,7     | <b>88,5</b>  |
|                           |              | 2008    | 69,8     | 67,9  | 77,3  | 66,1  | 80,1  | 68,7  | 68,9   | 80,7      | 94,4    | 68,3     | 71,2     | 83,3     | <b>74,7</b>  |
| 2009                      | 49,5         | 60,8    | 77,3     | 101,4 | 97,9  | 81,2  | 87,3  | 93,9  | 75,2   |           |         |          |          |          |              |
| Seasonal adjusted indices | Weight = 2,8 | 1998    | 80,2     | 84,5  | 83,1  | 83,1  | 76,6  | 87,2  | 83,2   | 95,4      | 85,6    | 118,0    | 71,8     | 86,8     |              |
|                           |              | 1999    | 82,9     | 88,0  | 100,9 | 87,3  | 89,0  | 95,7  | 73,6   | 86,5      | 90,0    | 64,6     | 88,1     | 74,8     |              |
|                           |              | 2000    | 102,7    | 84,7  | 79,4  | 80,3  | 87,3  | 88,4  | 81,5   | 74,8      | 86,8    | 97,2     | 88,1     | 87,0     |              |
|                           |              | 2001    | 82,0     | 81,1  | 91,6  | 92,9  | 94,0  | 78,3  | 86,3   | 78,7      | 85,7    | 82,4     | 84,9     | 94,4     |              |
|                           |              | 2002    | 89,3     | 83,6  | 84,0  | 86,4  | 80,4  | 93,8  | 96,5   | 98,9      | 97,9    | 99,8     | 88,1     | 92,2     |              |
|                           |              | 2003    | 90,8     | 98,9  | 91,3  | 82,3  | 101,2 | 100,3 | 106,8  | 98,0      | 92,7    | 95,4     | 102,7    | 94,0     |              |
|                           |              | 2004    | 103,5    | 99,9  | 82,5  | 102,0 | 90,6  | 94,4  | 87,4   | 94,7      | 93,2    | 89,7     | 81,2     | 111,2    |              |
|                           |              | 2005    | 125,6    | 103,0 | 107,5 | 91,7  | 110,2 | 94,4  | 95,8   | 105,3     | 95,8    | 93,9     | 92,8     | 85,5     |              |
|                           |              | 2006    | 89,6     | 98,8  | 102,4 | 102,8 | 86,8  | 120,6 | 97,7   | 88,0      | 100,9   | 102,4    | 94,1     | 96,8     |              |
|                           |              | 2007    | 96,1     | 93,3  | 89,7  | 95,2  | 81,7  | 92,7  | 91,0   | 71,7      | 87,9    | 89,6     | 92,4     | 82,2     |              |
|                           |              | 2008    | 80,7     | 77,2  | 76,5  | 68,3  | 75,4  | 69,8  | 69,1   | 74,2      | 95,9    | 67,6     | 65,9     | 77,1     |              |
| 2009                      | 57,3         | 69,8    | 77,0     | 104,2 | 92,5  | 82,5  | 87,2  | 86,2  | 76,5   |           |         |          |          |          |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 9 – Indices of the physical volume of 'other metallic minerals' production: Base 2005=100**

|                           |              | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave |              |
|---------------------------|--------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 2,8 | 1998    | 115,1    | 102,8 | 102,1 | 113,0 | 116,0 | 119,9 | 133,7  | 127,2     | 124,7   | 129,4    | 141,5    | 81,5     | <b>117,3</b> |
|                           |              | 1999    | 104,8    | 100,1 | 93,6  | 78,9  | 98,8  | 104,0 | 100,5  | 97,5      | 110,4   | 100,5    | 101,4    | 104,0    | <b>99,5</b>  |
|                           |              | 2000    | 104,8    | 104,4 | 112,2 | 107,8 | 114,3 | 113,4 | 105,7  | 107,4     | 105,7   | 111,7    | 96,6     | 102,7    | <b>107,2</b> |
|                           |              | 2001    | 96,2     | 98,3  | 102,7 | 103,1 | 109,6 | 104,0 | 105,2  | 110,9     | 100,1   | 105,2    | 110,0    | 118,6    | <b>105,3</b> |
|                           |              | 2002    | 110,9    | 109,1 | 115,6 | 110,0 | 116,5 | 110,0 | 103,1  | 97,5      | 99,2    | 100,9    | 107,0    | 109,1    | <b>107,4</b> |
|                           |              | 2003    | 99,2     | 88,9  | 86,3  | 100,5 | 94,0  | 90,2  | 99,2   | 97,9      | 99,2    | 83,7     | 77,6     | 71,2     | <b>90,7</b>  |
|                           |              | 2004    | 88,9     | 80,2  | 82,0  | 81,5  | 91,0  | 88,9  | 88,9   | 91,0      | 93,6    | 95,8     | 97,1     | 99,2     | <b>89,8</b>  |
|                           |              | 2005    | 93,3     | 91,9  | 102,6 | 103,5 | 108,4 | 95,1  | 93,0   | 109,8     | 108,0   | 102,4    | 100,5    | 91,5     | <b>100,0</b> |
|                           |              | 2006    | 101,4    | 97,2  | 102,0 | 97,5  | 96,4  | 98,5  | 101,8  | 102,7     | 94,0    | 97,2     | 89,2     | 92,1     | <b>97,5</b>  |
|                           |              | 2007    | 85,3     | 75,0  | 95,4  | 83,8  | 88,6  | 85,5  | 91,0   | 89,4      | 94,1    | 105,7    | 93,0     | 89,2     | <b>89,7</b>  |
|                           |              | 2008    | 87,3     | 80,1  | 95,8  | 79,6  | 96,9  | 98,6  | 95,2   | 100,4     | 89,6    | 89,2     | 89,6     | 86,8     | <b>90,8</b>  |
| 2009                      | 85,9         | 77,4    | 93,4     | 79,2  | 82,6  | 86,7  | 91,1  | 83,5  | 85,4   |           |         |          |          |          |              |
| Seasonal adjusted indices | Weight = 2,8 | 1998    | 114,4    | 108,2 | 104,5 | 113,9 | 112,5 | 116,9 | 127,5  | 124,8     | 125,0   | 128,3    | 143,9    | 84,2     |              |
|                           |              | 1999    | 105,0    | 104,6 | 95,8  | 80,0  | 95,5  | 101,0 | 97,2   | 95,5      | 111,4   | 99,9     | 102,7    | 105,0    |              |
|                           |              | 2000    | 106,2    | 109,0 | 114,5 | 109,2 | 110,3 | 110,3 | 103,1  | 104,9     | 107,4   | 112,0    | 97,8     | 101,4    |              |
|                           |              | 2001    | 98,3     | 102,8 | 103,9 | 104,3 | 105,2 | 101,8 | 103,7  | 108,2     | 101,4   | 106,1    | 111,5    | 115,2    |              |
|                           |              | 2002    | 114,0    | 114,5 | 116,5 | 111,1 | 111,4 | 109,2 | 101,7  | 94,4      | 100,1   | 102,3    | 108,5    | 105,5    |              |
|                           |              | 2003    | 102,0    | 93,6  | 86,7  | 101,6 | 90,2  | 90,5  | 97,6   | 94,3      | 99,4    | 84,3     | 78,6     | 69,0     |              |
|                           |              | 2004    | 91,6     | 85,3  | 82,1  | 82,6  | 88,0  | 90,2  | 86,7   | 87,2      | 92,7    | 95,7     | 98,4     | 97,1     |              |
|                           |              | 2005    | 96,5     | 98,6  | 101,8 | 105,7 | 105,5 | 96,3  | 90,4   | 104,8     | 106,1   | 101,4    | 101,6    | 90,6     |              |
|                           |              | 2006    | 105,2    | 105,7 | 99,5  | 100,4 | 94,5  | 99,4  | 98,5   | 98,0      | 92,0    | 95,8     | 89,9     | 92,1     |              |
|                           |              | 2007    | 88,6     | 82,5  | 91,7  | 87,2  | 87,5  | 85,2  | 87,6   | 85,4      | 92,3    | 104,0    | 93,3     | 89,7     |              |
|                           |              | 2008    | 90,6     | 89,1  | 91,0  | 83,5  | 96,4  | 97,5  | 91,0   | 96,3      | 88,0    | 87,6     | 89,9     | 87,4     |              |
| 2009                      | 89,0         | 86,5    | 88,3     | 83,6  | 82,3  | 85,2  | 86,9  | 80,4  | 84,0   |           |         |          |          |          |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 10 – Indices of the physical volume of diamond production: Base 2005=100**

|                           |              | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave |              |
|---------------------------|--------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 7,6 | 1998    | 60,6     | 72,8  | 59,2  | 63,3  | 62,8  | 63,1  | 64,2   | 83,1      | 87,6    | 75,6     | 77,6     | 71,4     | <b>70,1</b>  |
|                           |              | 1999    | 54,7     | 73,1  | 66,7  | 68,9  | 67,5  | 62,5  | 66,1   | 65,3      | 55,8    | 63,9     | 81,2     | 50,5     | <b>64,7</b>  |
|                           |              | 2000    | 92,6     | 70,9  | 57,5  | 65,0  | 59,7  | 64,5  | 66,4   | 64,7      | 71,1    | 78,1     | 79,8     | 65,6     | <b>69,7</b>  |
|                           |              | 2001    | 82,0     | 78,4  | 79,2  | 81,5  | 87,1  | 88,7  | 72,5   | 96,3      | 65,8    | 70,0     | 61,7     | 38,8     | <b>75,2</b>  |
|                           |              | 2002    | 43,5     | 70,6  | 74,5  | 64,7  | 65,6  | 79,2  | 79,2   | 70,6      | 74,2    | 77,8     | 75,6     | 67,2     | <b>70,2</b>  |
|                           |              | 2003    | 60,3     | 83,7  | 77,0  | 78,4  | 82,6  | 75,9  | 93,2   | 84,0      | 84,5    | 83,1     | 95,1     | 84,0     | <b>81,8</b>  |
|                           |              | 2004    | 87,9     | 82,9  | 107,7 | 78,4  | 80,9  | 94,3  | 94,3   | 93,2      | 120,8   | 105,5    | 99,3     | 92,9     | <b>94,8</b>  |
|                           |              | 2005    | 92,6     | 102,9 | 89,0  | 109,3 | 93,5  | 100,7 | 102,4  | 92,6      | 95,5    | 99,3     | 143,5    | 78,7     | <b>100,0</b> |
|                           |              | 2006    | 88,1     | 111,3 | 82,2  | 105,9 | 89,3  | 107,4 | 76,7   | 107,2     | 115,2   | 97,6     | 91,6     | 81,2     | <b>96,1</b>  |
|                           |              | 2007    | 67,5     | 106,7 | 111,5 | 110,7 | 78,3  | 97,9  | 82,6   | 122,3     | 111,9   | 101,7    | 89,9     | 79,2     | <b>96,7</b>  |
|                           |              | 2008    | 70,4     | 75,2  | 84,0  | 97,5  | 94,3  | 86,3  | 89,4   | 91,0      | 88,6    | 85,7     | 77,2     | 41,3     | <b>81,7</b>  |
| 2009                      | 23,6         | 24,3    | 30,9     | 27,5  | 31,8  | 42,0  | 39,5  | 46,2  | 63,1   |           |         |          |          |          |              |
| Seasonal adjusted indices | Weight = 7,6 | 1998    | 69,5     | 70,5  | 60,6  | 62,6  | 64,0  | 62,1  | 64,4   | 80,2      | 88,9    | 73,9     | 69,3     | 76,3     |              |
|                           |              | 1999    | 61,6     | 69,9  | 69,7  | 68,3  | 68,5  | 61,2  | 66,0   | 63,2      | 57,0    | 61,4     | 73,3     | 54,9     |              |
|                           |              | 2000    | 103,7    | 67,3  | 60,5  | 64,9  | 60,0  | 62,5  | 65,2   | 63,1      | 73,0    | 74,9     | 73,1     | 72,3     |              |
|                           |              | 2001    | 90,8     | 74,1  | 83,4  | 82,2  | 87,7  | 85,3  | 70,0   | 95,3      | 65,9    | 67,0     | 58,0     | 43,0     |              |
|                           |              | 2002    | 47,8     | 67,4  | 78,1  | 65,5  | 66,2  | 75,7  | 75,3   | 70,7      | 72,6    | 74,8     | 72,3     | 75,1     |              |
|                           |              | 2003    | 65,7     | 79,6  | 81,4  | 79,1  | 84,8  | 72,1  | 88,7   | 84,0      | 79,5    | 79,9     | 92,7     | 94,1     |              |
|                           |              | 2004    | 97,7     | 78,5  | 114,0 | 77,5  | 84,8  | 90,1  | 90,7   | 91,9      | 110,0   | 101,2    | 97,1     | 104,7    |              |
|                           |              | 2005    | 105,4    | 98,1  | 94,5  | 105,8 | 99,9  | 96,6  | 100,6  | 89,7      | 83,6    | 93,4     | 140,7    | 90,2     |              |
|                           |              | 2006    | 103,9    | 108,5 | 87,5  | 101,0 | 96,2  | 102,7 | 76,9   | 101,7     | 97,8    | 89,4     | 89,8     | 95,3     |              |
|                           |              | 2007    | 82,5     | 106,4 | 119,6 | 105,3 | 84,2  | 92,6  | 84,0   | 113,7     | 92,2    | 91,1     | 88,3     | 95,0     |              |
|                           |              | 2008    | 90,0     | 76,4  | 89,9  | 93,2  | 101,2 | 81,0  | 91,3   | 83,5      | 71,6    | 76,3     | 75,9     | 49,9     |              |
| 2009                      | 30,9         | 25,0    | 32,8     | 26,4  | 34,1  | 39,3  | 40,4  | 42,2  | 50,4   |           |         |          |          |          |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 11 – Indices of the physical volume of coal production: Base 2005=100**

|                           |               | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave |              |
|---------------------------|---------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 24,9 | 1998    | 90,5     | 89,3  | 91,8  | 87,5  | 91,6  | 95,6  | 95,3   | 91,6      | 89,4    | 100,4    | 94,1     | 83,5     | <b>91,7</b>  |
|                           |               | 1999    | 86,8     | 92,3  | 90,5  | 87,9  | 91,6  | 93,8  | 95,3   | 88,3      | 94,1    | 95,6     | 97,5     | 80,2     | <b>91,1</b>  |
|                           |               | 2000    | 85,3     | 87,5  | 90,8  | 85,7  | 90,8  | 97,1  | 98,2   | 97,5      | 94,1    | 96,0     | 96,7     | 83,8     | <b>92,0</b>  |
|                           |               | 2001    | 90,8     | 89,7  | 93,8  | 87,9  | 94,9  | 97,1  | 94,9   | 94,9      | 89,4    | 95,6     | 91,9     | 72,8     | <b>91,1</b>  |
|                           |               | 2002    | 87,9     | 85,0  | 83,8  | 86,4  | 92,7  | 89,7  | 98,2   | 94,1      | 94,1    | 99,3     | 98,6     | 78,7     | <b>90,7</b>  |
|                           |               | 2003    | 89,0     | 85,3  | 90,5  | 92,3  | 104,8 | 92,3  | 103,3  | 99,7      | 104,1   | 110,3    | 100,4    | 89,7     | <b>96,8</b>  |
|                           |               | 2004    | 96,4     | 94,9  | 102,6 | 91,2  | 104,1 | 104,1 | 105,5  | 104,1     | 102,6   | 105,5    | 103,0    | 91,6     | <b>100,5</b> |
|                           |               | 2005    | 91,8     | 89,8  | 93,7  | 99,9  | 104,7 | 101,0 | 104,7  | 106,5     | 105,4   | 106,7    | 103,8    | 92,1     | <b>100,0</b> |
|                           |               | 2006    | 89,7     | 89,3  | 98,9  | 90,3  | 105,8 | 103,0 | 107,8  | 103,3     | 100,5   | 112,9    | 108,7    | 88,7     | <b>99,9</b>  |
|                           |               | 2007    | 103,6    | 96,5  | 102,9 | 91,1  | 109,8 | 100,4 | 103,7  | 106,5     | 99,5    | 103,7    | 105,0    | 90,5     | <b>101,1</b> |
|                           |               | 2008    | 89,0     | 103,6 | 96,7  | 105,2 | 111,2 | 103,1 | 111,9  | 107,9     | 105,7   | 106,6    | 102,4    | 93,9     | <b>103,1</b> |
| 2009                      | 89,0          | 87,9    | 103,8    | 95,9  | 104,7 | 105,0 | 112,4 | 111,4 | 110,4  |           |         |          |          |          |              |
| Seasonal adjusted indices | Weight = 24,9 | 1998    | 94,3     | 92,3  | 93,0  | 92,8  | 90,9  | 91,5  | 90,6   | 88,9      | 85,9    | 96,3     | 92,5     | 92,0     |              |
|                           |               | 1999    | 90,5     | 95,4  | 91,6  | 92,9  | 91,0  | 89,8  | 90,2   | 85,6      | 91,4    | 91,1     | 94,9     | 89,4     |              |
|                           |               | 2000    | 89,0     | 90,7  | 92,2  | 90,2  | 89,9  | 93,5  | 92,9   | 94,3      | 91,9    | 90,6     | 93,6     | 94,4     |              |
|                           |               | 2001    | 94,7     | 93,7  | 95,5  | 92,2  | 93,5  | 94,0  | 89,7   | 91,6      | 87,3    | 89,6     | 88,5     | 82,2     |              |
|                           |               | 2002    | 91,8     | 89,8  | 85,7  | 90,7  | 90,6  | 87,3  | 92,9   | 90,8      | 91,7    | 92,5     | 94,8     | 88,5     |              |
|                           |               | 2003    | 93,4     | 91,3  | 92,6  | 97,1  | 101,5 | 90,1  | 97,6   | 96,1      | 101,2   | 102,3    | 96,4     | 100,0    |              |
|                           |               | 2004    | 102,0    | 102,5 | 105,0 | 96,4  | 99,7  | 101,9 | 99,8   | 100,1     | 99,7    | 97,8     | 98,8     | 101,2    |              |
|                           |               | 2005    | 98,6     | 97,5  | 95,2  | 106,4 | 99,4  | 99,2  | 98,8   | 102,0     | 102,7   | 99,2     | 99,6     | 100,7    |              |
|                           |               | 2006    | 97,7     | 97,5  | 99,6  | 96,5  | 99,8  | 101,3 | 101,7  | 98,5      | 98,2    | 105,5    | 104,3    | 96,3     |              |
|                           |               | 2007    | 114,1    | 105,8 | 102,7 | 97,5  | 103,2 | 99,0  | 97,3   | 101,2     | 97,5    | 97,3     | 100,8    | 98,1     |              |
|                           |               | 2008    | 98,8     | 114,0 | 95,8  | 112,3 | 104,5 | 101,9 | 104,8  | 102,5     | 103,7   | 100,0    | 98,4     | 101,9    |              |
| 2009                      | 99,1          | 96,7    | 102,4    | 102,4 | 98,4  | 104,0 | 105,2 | 105,8 | 108,4  |           |         |          |          |          |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (continued)**

**Table 12 – Indices of the physical volume of building materials production: Base 2005=100**

|                           |              | January | February | March | April | May   | June  | July  | August | September | October | November | December | Year ave |              |
|---------------------------|--------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 2,1 | 1998    | 53,7     | 68,3  | 74,8  | 85,9  | 87,9  | 95,7  | 91,0   | 81,8      | 82,5    | 90,3     | 87,3     | 62,2     | <b>80,1</b>  |
|                           |              | 1999    | 67,0     | 73,4  | 81,2  | 83,2  | 84,2  | 90,3  | 86,2   | 80,5      | 87,9    | 83,9     | 85,6     | 69,3     | <b>81,1</b>  |
|                           |              | 2000    | 67,0     | 65,6  | 76,8  | 74,7  | 86,6  | 90,6  | 80,5   | 104,5     | 80,8    | 89,3     | 128,2    | 69,0     | <b>84,5</b>  |
|                           |              | 2001    | 69,0     | 80,8  | 77,5  | 80,8  | 81,2  | 91,0  | 80,8   | 117,0     | 85,6    | 92,0     | 78,8     | 66,6     | <b>83,4</b>  |
|                           |              | 2002    | 76,4     | 77,1  | 75,4  | 77,8  | 89,3  | 82,5  | 90,0   | 84,6      | 91,3    | 89,3     | 90,0     | 68,0     | <b>82,6</b>  |
|                           |              | 2003    | 64,9     | 68,7  | 75,4  | 72,4  | 76,1  | 77,1  | 82,9   | 81,2      | 91,7    | 89,3     | 84,2     | 72,0     | <b>78,0</b>  |
|                           |              | 2004    | 76,1     | 81,2  | 102,1 | 91,7  | 97,1  | 96,7  | 103,2  | 102,5     | 105,2   | 99,8     | 107,9    | 80,2     | <b>95,3</b>  |
|                           |              | 2005    | 82,2     | 94,4  | 97,9  | 99,5  | 101,4 | 111,5 | 105,1  | 108,9     | 107,9   | 104,0    | 112,5    | 74,7     | <b>100,0</b> |
|                           |              | 2006    | 76,3     | 97,9  | 113,9 | 100,4 | 121,7 | 115,5 | 117,4  | 117,6     | 126,0   | 123,8    | 122,3    | 86,5     | <b>109,9</b> |
|                           |              | 2007    | 93,8     | 114,4 | 128,1 | 110,9 | 135,3 | 120,1 | 130,0  | 133,0     | 118,7   | 125,1    | 132,5    | 86,8     | <b>119,1</b> |
|                           |              | 2008    | 93,2     | 123,2 | 109,1 | 128,0 | 122,4 | 117,7 | 127,3  | 124,2     | 117,5   | 131,4    | 117,6    | 86,2     | <b>116,5</b> |
| 2009                      | 83,9         | 104,2   | 115,0    | 104,5 | 113,3 | 111,6 | 118,7 | 109,1 | 111,4  |           |         |          |          |          |              |
| Seasonal adjusted indices | Weight = 2,1 | 1998    | 63,0     | 69,2  | 74,3  | 83,2  | 83,7  | 85,6  | 88,8   | 79,9      | 80,7    | 87,9     | 83,6     | 74,9     |              |
|                           |              | 1999    | 79,0     | 75,6  | 81,8  | 81,2  | 80,2  | 81,1  | 84,2   | 77,7      | 85,3    | 79,6     | 80,9     | 83,4     |              |
|                           |              | 2000    | 79,7     | 68,5  | 78,4  | 74,4  | 82,7  | 82,6  | 78,2   | 99,9      | 76,8    | 83,0     | 120,0    | 82,8     |              |
|                           |              | 2001    | 82,3     | 86,1  | 79,6  | 82,3  | 77,5  | 84,6  | 77,6   | 111,0     | 79,9    | 85,0     | 72,9     | 80,0     |              |
|                           |              | 2002    | 91,2     | 82,8  | 77,6  | 80,0  | 86,0  | 78,2  | 85,7   | 79,4      | 83,9    | 82,6     | 83,0     | 82,1     |              |
|                           |              | 2003    | 78,0     | 73,9  | 76,8  | 74,7  | 73,2  | 74,2  | 78,1   | 76,2      | 83,5    | 83,0     | 77,4     | 88,6     |              |
|                           |              | 2004    | 92,3     | 87,3  | 101,9 | 94,7  | 92,8  | 94,0  | 96,4   | 96,1      | 95,8    | 93,5     | 98,9     | 101,0    |              |
|                           |              | 2005    | 101,1    | 100,9 | 95,4  | 103,3 | 95,9  | 108,8 | 97,6   | 101,6     | 99,2    | 97,9     | 103,2    | 96,3     |              |
|                           |              | 2006    | 95,3     | 103,3 | 109,1 | 104,5 | 114,4 | 112,5 | 108,7  | 109,1     | 117,7   | 116,3    | 112,2    | 113,8    |              |
|                           |              | 2007    | 119,0    | 119,0 | 121,0 | 116,0 | 126,1 | 116,8 | 119,7  | 123,5     | 112,1   | 117,1    | 122,1    | 115,3    |              |
|                           |              | 2008    | 119,4    | 127,2 | 102,3 | 134,3 | 113,6 | 114,5 | 116,5  | 115,6     | 111,8   | 122,4    | 108,7    | 115,1    |              |
| 2009                      | 107,8        | 107,2   | 107,3    | 110,0 | 105,0 | 108,8 | 108,2 | 101,7 | 106,8  |           |         |          |          |          |              |

**Annexure A – Historical indices according to mineral groups and minerals: 1998 – 2009 (concluded)**

**Table 13 – Indices of the physical volume of 'other non-metallic minerals' production: Base 2005=100**

|                           |              | January | February | March | April | May   | June | July  | August | September | October | November | December | Year ave |              |
|---------------------------|--------------|---------|----------|-------|-------|-------|------|-------|--------|-----------|---------|----------|----------|----------|--------------|
| Actual indices            | Weight = 5,7 | 1998    | 106,9    | 105,2 | 108,4 | 104,5 | 95,8 | 98,2  | 97,4   | 100,5     | 93,0    | 95,4     | 94,2     | 87,9     | <b>98,9</b>  |
|                           |              | 1999    | 97,4     | 91,9  | 97,4  | 91,1  | 96,6 | 91,9  | 93,8   | 84,0      | 92,2    | 98,6     | 89,5     | 88,3     | <b>92,7</b>  |
|                           |              | 2000    | 94,2     | 81,6  | 82,4  | 75,7  | 96,2 | 106,8 | 98,6   | 114,3     | 97,4    | 99,7     | 111,2    | 108,4    | <b>97,2</b>  |
|                           |              | 2001    | 100,9    | 107,2 | 88,7  | 92,2  | 91,5 | 88,3  | 82,0   | 94,6      | 80,0    | 91,9     | 96,2     | 87,1     | <b>91,7</b>  |
|                           |              | 2002    | 93,8     | 93,0  | 61,9  | 96,2  | 91,1 | 90,3  | 88,7   | 96,2      | 92,2    | 85,9     | 93,4     | 87,1     | <b>89,2</b>  |
|                           |              | 2003    | 89,1     | 88,3  | 80,8  | 76,9  | 69,0 | 65,4  | 69,4   | 69,4      | 72,5    | 81,2     | 72,9     | 72,9     | <b>75,7</b>  |
|                           |              | 2004    | 80,8     | 80,0  | 59,9  | 72,9  | 65,0 | 60,3  | 130,1  | 127,3     | 134,0   | 117,9    | 116,7    | 123,4    | <b>97,4</b>  |
|                           |              | 2005    | 113,9    | 107,4 | 118,1 | 107,1 | 83,7 | 101,2 | 93,6   | 89,2      | 97,4    | 98,9     | 92,4     | 97,1     | <b>100,0</b> |
|                           |              | 2006    | 92,5     | 84,5  | 96,9  | 91,7  | 92,3 | 94,2  | 90,1   | 94,0      | 92,9    | 72,6     | 72,5     | 81,3     | <b>88,0</b>  |
|                           |              | 2007    | 84,7     | 85,1  | 91,4  | 85,2  | 81,0 | 73,2  | 77,7   | 80,7      | 84,5    | 86,7     | 81,5     | 73,4     | <b>82,1</b>  |
|                           |              | 2008    | 77,3     | 68,1  | 74,3  | 75,2  | 80,7 | 73,7  | 80,7   | 77,0      | 76,2    | 72,4     | 72,1     | 66,4     | <b>74,5</b>  |
|                           |              | 2009    | 68,4     | 59,7  | 68,6  | 64,7  | 62,7 | 61,7  | 71,4   | 71,6      | 67,6    |          |          |          |              |
| Seasonal adjusted indices | Weight = 5,7 | 1998    | 107,0    | 105,9 | 108,8 | 106,1 | 94,0 | 100,9 | 98,0   | 94,1      | 95,6    | 93,5     | 91,6     | 92,0     |              |
|                           |              | 1999    | 95,9     | 92,3  | 99,0  | 92,4  | 95,9 | 94,5  | 95,3   | 78,5      | 95,0    | 97,4     | 86,4     | 90,5     |              |
|                           |              | 2000    | 91,8     | 81,1  | 85,0  | 76,9  | 96,7 | 110,5 | 101,3  | 107,4     | 99,6    | 98,2     | 106,7    | 109,4    |              |
|                           |              | 2001    | 97,2     | 105,8 | 93,0  | 94,3  | 93,6 | 92,2  | 85,0   | 88,6      | 80,2    | 90,9     | 92,0     | 86,6     |              |
|                           |              | 2002    | 90,4     | 91,1  | 65,0  | 99,1  | 94,8 | 94,9  | 92,3   | 90,8      | 90,3    | 84,5     | 89,7     | 85,9     |              |
|                           |              | 2003    | 86,0     | 87,2  | 84,1  | 79,6  | 72,8 | 68,7  | 72,1   | 65,9      | 69,2    | 79,7     | 71,1     | 71,8     |              |
|                           |              | 2004    | 78,7     | 80,1  | 60,7  | 75,6  | 68,9 | 63,2  | 134,5  | 122,6     | 125,7   | 114,0    | 115,8    | 122,1    |              |
|                           |              | 2005    | 111,6    | 110,1 | 117,7 | 110,9 | 87,7 | 105,7 | 95,7   | 86,0      | 90,6    | 95,5     | 93,0     | 97,0     |              |
|                           |              | 2006    | 91,7     | 88,6  | 94,9  | 94,1  | 95,2 | 98,3  | 90,8   | 91,2      | 87,1    | 69,6     | 73,1     | 82,2     |              |
|                           |              | 2007    | 84,6     | 91,3  | 89,0  | 86,6  | 82,1 | 76,2  | 77,0   | 78,0      | 80,1    | 83,4     | 82,3     | 75,3     |              |
|                           |              | 2008    | 77,6     | 73,8  | 71,9  | 75,7  | 81,2 | 77,2  | 78,8   | 74,4      | 73,1    | 69,6     | 72,8     | 68,8     |              |
|                           |              | 2009    | 68,5     | 64,7  | 66,4  | 65,0  | 62,8 | 65,1  | 69,4   | 68,9      | 64,9    |          |          |          |              |

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