

FOREIGN TRADE



Indian Minerals Yearbook 2019

(Part- I : GENERAL REVIEWS)

58th Edition

FOREIGN TRADE

(ADVANCE RELEASE)

**GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES**

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10 Foreign Trade

EXPORTS

Ores & Minerals

During the year 2018-19, the value of exports (including re-exports) of ores and minerals at ₹2,19,168 crore accounted for about 9.50% of the total value of all merchandise exported from India. The value of exports of ores & minerals which declined from ₹ 2,00,131 crore in 2016-17 to ₹ 1,99,469 crore in 2017-18 rose to ₹ 2,19,168 crore in 2018-19. The value of mineral exports showed an increase of 9.88% in 2018-19 as compared to that of previous year.

Diamond (total) continued to be the largest constituent item with a share of 80.22% in the total value of mineral exports in 2018-19. Next in the order of share were granite with the contribution of 4.65% followed by iron ore 4.23%, alumina 2.14% and emerald (cut & uncut) total 1.05%. The individual share of remaining minerals in the total value of exports of ores and minerals from India during the year under review was less than one per cent.

The value of exports showed a mixed trend for most of the minerals in 2018-19 as compared to that of the previous year. A significant increase was also noticed in some cases. The value of exports of copper ore & conc. increased more than four times and abrasive (natural) by about three times. The exports value of other minerals which have shown significant growth are kaolin 69.15%, salt (other than common salt) 55.56%, alumina 42.54%, coke 35.76%, other minerals 34%, quartz & quartzite 32.43%, emerald 29.68%, barytes 26.56%, felspar (natural) 22.24%, bentonite 21.17% and limestone 20.60%.

On the other hand, the exports value, recorded significant decline in the cases of natural gas 39.79%, garnet (abrasive) 23.98% and chromite 23.25% as compared to that in the previous year.

Ores and minerals were exported to various countries in 2018-19. About eighty eight percent of the total value of exports of ores and minerals was confined to only nine countries. During 2018-19, Hong Kong occupied the top position in terms of value accounting for 31.07% of the total value of mineral exports, USA was in the second place and contributed 28.13% followed by Belgium 7.75%, China 6.91%, UAE 6.18%, Israel 3.22%, Thailand 1.99%, Japan 1.83% and UK 1.15%. The individual share of remaining countries was less than one per cent.

Countrywise analysis of value of minerals exports revealed that exports of minerals have increased manifold in case of Iceland (16818.96%) and increased by more than six times in Brazil (503.68%), four times in Bahrain (309.97%) and two times in Netherlands (187.84%) & Botswana (151.07%). The other countries which recorded significant positive growth as compared to the previous year are Egypt 95.05%, Malaysia 86.77%, Sri Lanka 75.54%, Qatar 70.66%, Algeria 64.46%, Vietnam 47.76%, Indonesia 44.96%, Mexico 38.80%, Poland 31.59%, France 28.59%, Saudi Arabia 25.04%, Kuwait 24.90%, Republic of Korea 24.85%, South Africa 24.40% and Bangladesh 20.39%.

However, value of export of ores & minerals declined significantly in respect of Iran 42.66% and Bhutan 22.32% when compared to that of the previous year (Tables -1 to 3).

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Table-1 : Exports of Ores and Minerals (including re-exports), 2016-17 to 2018-19 (P)

(Value in ₹'000)

| Ores & Minerals | Unit | 2016-17 | | 2017-18 | | 2018-19(P) | |
|------------------------------------|------------|----------|-------------------|----------|-------------------|------------|-------------------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| All Minerals | | ** | 2001306860 | ** | 1994690164 | ** | 2191682101 |
| Abrasives (natural) | tonne | 4774 | 66650 | 49819 | 427971 | 80436 | 1380078 |
| Alabaster | tonne | 20 | 240 | 4 | 41 | 12 | 130 |
| Alumina | tonne | 1509463 | 30030427 | 1361385 | 32961497 | 1389106 | 46982494 |
| Andalusite | tonne | 150 | 2063 | 6 | 327 | 100 | 2660 |
| Antimony ores & conc. | tonne | 46 | 9645 | 4 | 290 | ++ | 7 |
| Arsenic sulphide (natural) | tonne | - | - | 25 | 280 | 25 | 212 |
| Asbestos: Total | tonne | 101 | 963 | 132 | 943 | 1112 | 33913 |
| Asbestos (chrysotile) | tonne | 26 | 395 | 1 | 95 | 1090 | 33647 |
| Asbestos (others) | tonne | 76 | 568 | 131 | 848 | 22 | 267 |
| Ball clay | tonne | 92688 | 233666 | 157738 | 357087 | 213999 | 497941 |
| Barytes | tonne | 1067312 | 7669142 | 1652975 | 9308877 | 2114609 | 11781176 |
| Bauxite | tonne | 2790675 | 5105333 | 1529308 | 2705041 | 1509737 | 3045300 |
| Bentonite | tonne | 1538136 | 4798148 | 1599606 | 4825165 | 1693048 | 5846668 |
| Borax: Total | tonne | 2480 | 164055 | 3136 | 261796 | 2360 | 238104 |
| Natural borate | tonne | 65 | 1329 | 16 | 560 | 105 | 1887 |
| Sodium borate | tonne | 1969 | 93325 | 2084 | 98828 | 1243 | 61645 |
| Other borates | tonne | 446 | 69400 | 1036 | 162403 | 1012 | 174572 |
| Building and monumental stones NES | tonne | 8211195 | 12089832 | 8073677 | 10402294 | 9137318 | 10806108 |
| Calcite | tonne | 26981 | 202616 | 38639 | 289091 | 39248 | 303446 |
| Chalk | tonne | 661 | 4549 | 682 | 4296 | 1201 | 7736 |
| Chromite: Total | tonne | 230531 | 3657701 | 81835 | 1743015 | 39273 | 1337693 |
| Chrome ore (others) | tonne | 81502 | 1091305 | 48466 | 953757 | 2788 | 116528 |
| Chrome ore conc. | tonne | 149029 | 2566395 | 33367 | 789176 | 34985 | 1167942 |
| Chrome ore lumps | tonne | - | - | 2 | 82 | 1500 | 53223 |
| Clay (others) | tonne | 40345 | 459493 | 37616 | 367335 | 44194 | 428744 |
| Coal (excl. lignite) | '000 t | 1773 | 9669603 | 1504 | 8783040 | 1306 | 9500068 |
| Coal lignite | '000 t | 2 | 251599 | 2 | 263660 | 2 | 254653 |
| Coke | tonne | 77641 | 992814 | 90400 | 1624504 | 101863 | 2205465 |
| Coal gas | tonne | ++ | 95 | 37 | 1122 | ++ | 100 |
| Cobalt ores & conc. | tonne | ++ | 20 | ++ | 4 | 1 | 4496 |
| Copper ores & conc. | tonne | 22711 | 1054323 | 61005 | 3805458 | 181642 | 16627621 |
| Diamond: Total | | ** | 1627066251 | ** | 1620221010 | ** | 1758167200 |
| Diamond (mostly cut) | carat | ** | 1625672978 | ** | 1619309698 | ** | 1757329009 |
| Diamond (industrial) | carat | 6769897 | 1099542 | 9739890 | 613848 | 7730667 | 545528 |
| Diamond (powder) | '000 carat | 8195 | 293732 | 11125 | 297465 | 10556 | 292662 |
| Diatomite | tonne | 38427 | 362899 | 52236 | 456665 | 27893 | 273001 |
| Dolomite | tonne | 61021 | 234403 | 73428 | 377099 | 78011 | 308054 |
| Earth clay | tonne | 5792 | 61644 | 5829 | 63590 | 3651 | 38826 |
| Emerald (cut & uncut): Total | | ** | 20340188 | ** | 17756467 | ** | 23026249 |
| Emerald (uncut) | tonne | 2 | 2301688 | 16 | 602531 | 3 | 495684 |
| Emerald (cut) | '000 carat | 131358 | 18038501 | 43007 | 17153937 | 31790 | 22530565 |

(Contd.)

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Table-1 (Contd)

(Value in ₹ '000)

| Ores & Minerals | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|------------------------------------|-------------|----------|-----------|----------|----------|-------------|-----------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Felspar (natural) | tonne | 481457 | 2495593 | 544667 | 2708372 | 655915 | 3310607 |
| Felspar (cut & uncut): Total | | ** | 239665 | ** | 303031 | ** | 338515 |
| Felspar (uncut) | tonne | 2 | 1972 | 47 | 18646 | 216 | 42111 |
| Felspar (cut) | '000 carat | 402810 | 237693 | 71701 | 284385 | 29959 | 296404 |
| Fire clay | tonne | 4325 | 14880 | 4116 | 30575 | 4665 | 40928 |
| Flint | tonne | 652 | 6619 | 824 | 7684 | 790 | 10393 |
| Fluorite/Fluorspar | tonne | 609 | 21579 | 470 | 15315 | 534 | 23413 |
| Garnet (abrasive) | tonne | 387277 | 4691844 | 157223 | 2346626 | 104343 | 1783920 |
| Garnet (cut and uncut): Total | | ** | 241715 | ** | 416710 | ** | 494842 |
| Garnet (uncut) | tonne | 11 | 11934 | 143 | 34842 | 116 | 21808 |
| Garnet (cut) | '000 carat | 4442 | 229781 | 28087 | 381868 | 14428 | 473034 |
| Granite : Total | tonne | 6094325 | 93368593 | 6524819 | 92485120 | 6811734 | 102014067 |
| Granite (crude or roughly trimmed) | tonne | 3572210 | 26647328 | 4037405 | 29073804 | 4040006 | 30037432 |
| Granite (cut blocks/slabs) | tonne | 752235 | 6443591 | 738999 | 7776705 | 794157 | 9079570 |
| Granite (polished blocks/tiles) | tonne | 164052 | 4077172 | 186622 | 4445118 | 213466 | 4844864 |
| Granite (others) | tonne | 1605828 | 56200501 | 1561793 | 51189493 | 1764105 | 58052201 |
| Graphite (natural) | tonne | 404 | 30317 | 910 | 77567 | 405 | 22958 |
| Gypsum | tonne | 194493 | 523395 | 161246 | 593843 | 175274 | 684495 |
| Iron ore: Total | '000 tonnes | 30731 | 102929256 | 24203 | 94901382 | 16150 | 92626091 |
| Iron ore conc:Non-agglomerated | '000 tonnes | 1106 | 2846475 | 276 | 924664 | 49 | 167775 |
| Iron ore: fines | '000 tonnes | 18541 | 47421384 | 13100 | 32582235 | 5905 | 16112897 |
| Iron ore: lumps | '000 tonnes | 2268 | 6792561 | 1516 | 4402466 | 831 | 3138921 |
| Iron ore pellets | '000 tonnes | 8815 | 45847775 | 9311 | 56966622 | 9364 | 73177865 |
| Iron ore pyrites | '000 tonnes | 1 | 21061 | 1 | 25395 | 1 | 28634 |
| Kaolin | tonne | 232867 | 1136296 | 214469 | 1010907 | 446363 | 1709971 |
| Kieselguhr | tonne | 39 | 931 | 124 | 2577 | 62 | 1341 |
| Kyanite | tonne | 153 | 3052 | 166 | 3404 | 284 | 4873 |
| Lead ores & conc. | tonne | 1 | 33 | ++ | 52 | 37 | 2007 |
| Limestone | tonne | 4330820 | 4990064 | 2812257 | 4102279 | 3883757 | 4947501 |
| Magnesite : Total | tonne | 8064 | 135153 | 9576 | 188593 | 6273 | 204287 |
| Magnesia (fused) | tonne | 620 | 23857 | 369 | 16739 | 31 | 1798 |
| Magnesite (not calcined) | tonne | 597 | 13782 | 149 | 4274 | 357 | 7843 |
| Magnesite (calcined) | tonne | - | - | 185 | 5824 | 62 | 1671 |
| Magnesite:dead-burnt magnesia | tonne | 69 | 2152 | 63 | 1129 | 508 | 13946 |
| Magnesium oxide | tonne | 1150 | 34911 | 1875 | 78646 | 3197 | 139427 |
| Magnesite (other) | tonne | 5628 | 60451 | 6936 | 81982 | 2118 | 39602 |

(Contd)

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Table-1 (Contd)

(Value in ₹ '000)

| Ores & Minerals | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|---|------------|----------|----------|----------|----------|-------------|----------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Manganese ore : Total | tonne | 245 | 12377 | 44167 | 508784 | 55845 | 138120 |
| Manganese ore (35% or more but below 46% Mn) | tonne | 7 | 35 | 24800 | 331750 | - | - |
| Manganese ore (46% or more Mn) | tonne | ++ | 13 | ++ | 29 | 2 | 55 |
| Manganese ore (Ferruginous 10% or more but below 35%) | tonne | - | - | - | - | ++ | 2 |
| Manganese ore (others) | tonne | 237 | 12329 | 19367 | 177005 | 55843 | 138063 |
| Marble : Total | tonne | 326967 | 7048202 | 355892 | 7669792 | 385247 | 8757384 |
| Marble (dressed) | tonne | 200307 | 2706455 | 223031 | 2892851 | 236745 | 3240385 |
| Marble (others) | tonne | 126670 | 4341749 | 132333 | 4772082 | 148502 | 5516999 |
| Mica: Total | tonne | 135172 | 4555657 | 155111 | 6193284 | 152514 | 6200097 |
| Mica (unmanufactured): Total | tonne | 134423 | 3744499 | 153435 | 5252814 | 151448 | 4981244 |
| Mica (blocks) | tonne | 1777 | 176314 | 1492 | 256156 | 2159 | 365067 |
| Mica (splittings) | tonne | 11328 | 357883 | 15403 | 476490 | 20798 | 513856 |
| Mica (powder) | tonne | 86910 | 2394728 | 95505 | 3555628 | 98000 | 3258395 |
| Mica (condenser films) | tonne | ++ | 289 | ++ | 2103 | ++ | 776 |
| Mica (waste & scrap) | tonne | 34411 | 815282 | 41588 | 963957 | 30490 | 843150 |
| Mica (worked): Total | tonne | 740 | 811156 | 1118 | 938954 | 1066 | 1218853 |
| Mica (cond. films, plates, cuts NES) | tonne | 5 | 6730 | 43 | 18563 | 10 | 26300 |
| Mica (washers & discs) | tonne | 6 | 14182 | 6 | 20415 | 7 | 25492 |
| Mica (sheets & strips) | tonne | 44 | 76565 | 43 | 106740 | 10 | 80197 |
| Micanite & other built-up mica | tonne | 2 | 2651 | 6 | 4658 | 12 | 6050 |
| Mica worked (others) | tonne | 690 | 711034 | 1026 | 788577 | 1027 | 1080814 |
| Molybdenum ores & conc. | tonne | 22 | 1006 | 7 | 1923 | 6 | 81 |
| Niobium or tantalum ores & conc. | tonne | 2 | 7278 | ++ | 213 | ++ | 790 |
| Natural gas | tonne | 37072 | 1521058 | 179552 | 6315314 | 73574 | 3802681 |
| Nickel ores & conc. | tonne | - | - | ++ | 19 | 50 | 1618 |
| Ochre: Total | tonne | 3359 | 78715 | 4519 | 69096 | 3496 | 65048 |
| Ochre: (earth colours) | tonne | 1621 | 21899 | 3163 | 25266 | 2559 | 30468 |
| Ochre (persian red) | tonne | 23 | 2958 | 25 | 1071 | - | - |
| Ochre (red oxide) | tonne | 1338 | 39178 | 970 | 30597 | 696 | 25187 |
| Ochre: (yellow ochre) | tonne | 378 | 14679 | 361 | 12162 | 240 | 9393 |
| Precious & semi-precious stones (cut & uncut): Total | | ** | 11080272 | ** | 12656409 | ** | 14493864 |
| Precious & semi-precious stones (uncut) | tonne | 1055 | 1114955 | 1772 | 1074507 | 3178 | 1261708 |
| Precious & semi-precious stones (cut) | '000 carat | 2480726 | 9965318 | 2107933 | 11581902 | 1823862 | 13232156 |

(Contd.)

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Table-1 (Concl'd)

(Value in ₹ '000)

| Ores & Minerals | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|---|-------|----------|---------|----------|----------|-------------|----------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Precious metal ores & concentrates | kg | 5743 | 72 | 116000 | 792 | 50001 | 484 |
| Quartz and quartzite: Total | tonne | 488796 | 3579275 | 556435 | 4305601 | 793395 | 5702080 |
| Quartz (natural) | tonne | 387880 | 2410657 | 431031 | 2898997 | 672767 | 4035109 |
| Quartzite (natural) | tonne | 100920 | 1168613 | 119330 | 1387635 | 120629 | 1666972 |
| Rock phosphate | tonne | 5915 | 8615 | 395 | 599 | 1652 | 46795 |
| Salt (other than common salt) | tonne | 7897940 | 7450781 | 9969604 | 9402718 | 12755391 | 14627309 |
| Sand (excl. metal bearing) | tonne | 17284 | 369426 | 32444 | 419869 | 3394 | 24454 |
| Sandstone | tonne | 710393 | 9071316 | 933455 | 12329002 | 1032374 | 13570943 |
| Silica sand | tonne | 1097 | 8667 | 2748 | 22159 | 3152 | 27794 |
| Sillimanite | tonne | 14064 | 114679 | 16193 | 171833 | 9986 | 111874 |
| Slate : Total | tonne | 122089 | 2343205 | 86297 | 1954270 | 80536 | 2180256 |
| Slate (worked) | tonne | 19161 | 919805 | 9108 | 663051 | 942251 | 44346 |
| Slate (others) | tonne | 102936 | 1423404 | 77189 | 1291178 | 1238006 | 244576 |
| Talc/steatite/soapstone : Total | tonne | 251546 | 3456145 | 244760 | 3580879 | 259522 | 3764812 |
| Steatite blocks | tonne | 11061 | 83953 | 1904 | 30179 | 9510 | 14187 |
| Steatite lumps | tonne | 38986 | 573101 | 49156 | 700999 | 951474 | 154470 |
| Steatite powder & others | tonne | 201499 | 2799089 | 192790 | 2845078 | 2803829 | 587170 |
| Sulphur (excl. sublimed precipitated & colloidal) | tonne | 616473 | 3469351 | 573856 | 4254427 | 479651 | 4332476 |
| Tin ores & conc. | tonne | - | - | ++ | 3 | ++ | 54 |
| Titanium ores & conc.: Total | tonne | 532201 | 5716718 | 355475 | 6010132 | 359974 | 6566846 |
| Titanium ores & conc. (ilmenite) | tonne | 529822 | 5586178 | 353384 | 5889530 | 358027 | 6438829 |
| Titanium ores & conc. (rutile) | tonne | 2048 | 108327 | 2038 | 118116 | 1847 | 120257 |
| Titanium ores & conc. (others) | tonne | 334 | 22214 | 52 | 2488 | 100 | 7759 |
| Tungsten ores & conc. | tonne | 7 | 6064 | 30 | 29880 | 34 | 43180 |
| Vanadium ores & conc. | tonne | ++ | 25 | - | - | 10 | 2320 |
| Vermiculite | tonne | 757 | 8313 | 453 | 5093 | 583 | 7250 |
| Witherite | tonne | ++ | 217 | 8 | 319 | ++ | 87 |
| Wollastonite | tonne | 16699 | 293525 | 12479 | 224918 | 13786 | 279115 |
| Zinc ores & conc. | tonne | 53912 | 3990176 | 1206 | 31460 | 2079 | 71170 |
| Zirconium ores & conc. | tonne | 1693 | 95182 | 308 | 31131 | 89 | 4470 |
| Other minerals NES | tonne | 757362 | 1663192 | 1670511 | 2298247 | 3817139 | 5538148 |

Source: DGCI & S, Kolkata

*** Quantity not additive*

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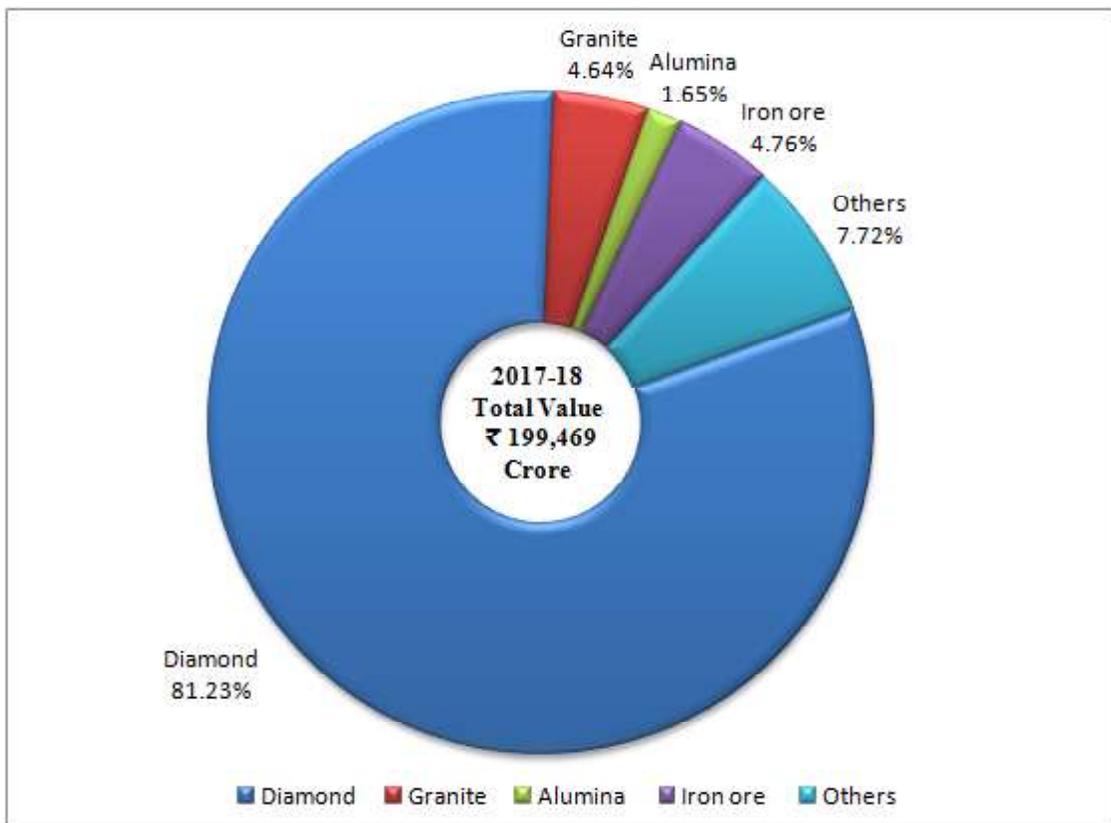
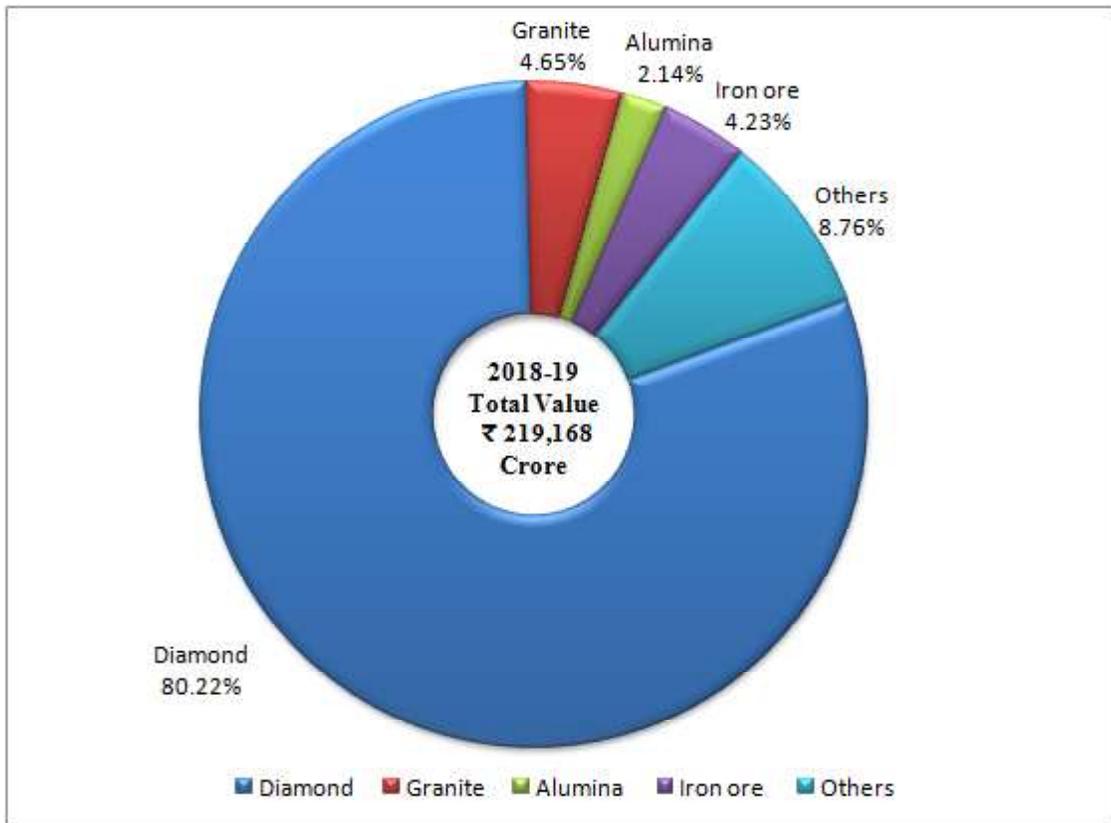
**Table – 2: Value of Exports of Ores & Minerals (including re-exports), 2016-17 to 2018-19
(By Principal Ores & Minerals)**

| Ores & Minerals | 2016-17 | | 2017-18 | | 2018-19 (P) | | % increase (+) or decrease (-) in 2018-19 over 2017-18 |
|---|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|--|
| | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | |
| All Minerals | 2001306860 | 100.00 | 1994690164 | 100.00 | 2191682101 | 100.00 | 9.88 |
| Diamond | 1627066251 | 81.30 | 1620221010 | 81.23 | 1758167200 | 80.22 | 8.51 |
| Iron ore | 102929256 | 5.14 | 94901382 | 4.76 | 92626091 | 4.23 | -2.40 |
| Granite | 93368593 | 4.67 | 92485120 | 4.64 | 102014067 | 4.65 | 10.30 |
| Alumina | 30030427 | 1.50 | 32961497 | 1.65 | 46982494 | 2.14 | 42.54 |
| Emerald (cut & uncut) | 20340188 | 1.02 | 17756467 | 0.89 | 23026249 | 1.05 | 29.68 |
| Precious & semi-precious stones (cut & uncut):Total | 11080272 | 0.55 | 12656409 | 0.63 | 14493864 | 0.66 | 14.52 |
| Sandstone | 9071316 | 0.45 | 12329002 | 0.62 | 13570943 | 0.62 | 10.07 |
| Building and monumental stones NES | 12089832 | 0.60 | 10402294 | 0.52 | 10806108 | 0.49 | 3.88 |
| Barytes | 7669142 | 0.38 | 9308877 | 0.47 | 11781176 | 0.54 | 26.56 |
| Salt (other than common salt) | 7450781 | 0.37 | 9402718 | 0.47 | 14627309 | 0.67 | 55.56 |
| Coal (excl. lignite) | 9669603 | 0.48 | 8783040 | 0.44 | 9500068 | 0.43 | 8.16 |
| Marble | 7048202 | 0.35 | 7669792 | 0.38 | 8757384 | 0.40 | 14.18 |
| Mica | 4555657 | 0.23 | 6193284 | 0.31 | 6200097 | 0.28 | 0.11 |
| Titanium ores & conc. | 5716718 | 0.29 | 6010132 | 0.30 | 6566846 | 0.30 | 9.26 |
| Bentonite | 4798148 | 0.24 | 4825165 | 0.24 | 5846668 | 0.27 | 21.17 |
| Quartz and quartzite | 3579275 | 0.18 | 4305601 | 0.22 | 5702080 | 0.26 | 32.43 |
| Sulphur (excl. sublimed precipitated & colloidal) | 3469351 | 0.17 | 4254427 | 0.21 | 4332476 | 0.20 | 1.83 |
| Limestone | 4990064 | 0.25 | 4102279 | 0.21 | 4947501 | 0.23 | 20.60 |
| Copper ores & conc. | 1054323 | 0.05 | 3805458 | 0.19 | 16627621 | 0.76 | 336.94 |
| Talc/Soapstone/Steatite | 3456145 | 0.17 | 3580879 | 0.18 | 3764812 | 0.17 | 5.14 |
| Natural gas | 1521058 | 0.08 | 6315314 | 0.32 | 3802681 | 0.17 | -39.79 |
| Bauxite | 5105333 | 0.26 | 2705041 | 0.14 | 3045300 | 0.14 | 12.58 |
| Felspar (natural) | 2495593 | 0.12 | 2708372 | 0.14 | 3310607 | 0.15 | 22.24 |
| Garnet (abrasive) | 4691844 | 0.23 | 2346626 | 0.12 | 1783920 | 0.08 | -23.98 |
| Slate | 2343205 | 0.12 | 1954270 | 0.10 | 2180256 | 0.10 | 11.56 |
| Chromite | 3657701 | 0.18 | 1743015 | 0.09 | 1337693 | 0.06 | -23.25 |
| Kaolin | 1136296 | 0.06 | 1010907 | 0.05 | 1709971 | 0.08 | 69.15 |
| Abrasive (Natural) | 66650 | 0.00 | 427971 | 0.02 | 1380078 | 0.06 | 222.47 |
| Coke | 992814 | 0.05 | 1624504 | 0.08 | 2205465 | 0.10 | 35.76 |
| Other minerals | 9862821 | 0.49 | 7899311 | 0.40 | 10585077 | 0.48 | 34.00 |

Source: DGCI&S, Kolkata

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Value of Mineral Exports, 2017-18 and 2018-19



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**Table - 3 : Value of Exports of Ores & Minerals (including re-exports), 2016-17 to 2018-19
(By Principal Countries)**

| Ores & Minerals | 2016-17 | | 2017-18 | | 2018-19(P) | | % increase (+) or decrease (-) in 2018-19 over 2017-18 |
|-----------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|--|
| | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | |
| All Countries | 2001306860 | 100 | 1994690164 | 100 | 2191682101 | 100 | 9.88 |
| Hong Kong | 631645343 | 31.56 | 657554919 | 32.97 | 680993518 | 31.07 | 3.56 |
| USA | 525322014 | 26.25 | 517265039 | 25.93 | 616559576 | 28.13 | 19.20 |
| Belgium | 163430656 | 8.17 | 152632305 | 7.65 | 169764411 | 7.75 | 11.22 |
| UAE | 166195696 | 8.30 | 149319193 | 7.49 | 135516445 | 6.18 | -9.24 |
| China | 161686098 | 8.08 | 140971699 | 7.07 | 151497876 | 6.91 | 7.47 |
| Israel | 67722146 | 3.38 | 66862352 | 3.35 | 70675336 | 3.22 | 5.70 |
| Thailand | 40263975 | 2.01 | 42888640 | 2.15 | 43675030 | 1.99 | 1.83 |
| Japan | 23875088 | 1.19 | 34242765 | 1.72 | 40002025 | 1.83 | 16.82 |
| UK | 20958265 | 1.05 | 21569592 | 1.08 | 25176931 | 1.15 | 16.72 |
| Singapore | 21249244 | 1.06 | 19440387 | 0.97 | 19159083 | 0.87 | -1.45 |
| Korea, Rep. of | 10422949 | 0.52 | 13645739 | 0.68 | 17037011 | 0.78 | 24.85 |
| Switzerland | 12796338 | 0.64 | 13579251 | 0.68 | 14786962 | 0.67 | 8.89 |
| Bangladesh | 15319359 | 0.77 | 12459852 | 0.62 | 14999855 | 0.68 | 20.39 |
| Australia | 11543517 | 0.58 | 11595909 | 0.58 | 11993013 | 0.55 | 3.42 |
| Germany | 8331138 | 0.42 | 9634573 | 0.48 | 9275459 | 0.42 | -3.73 |
| Nepal | 7690608 | 0.38 | 12987860 | 0.65 | 13384220 | 0.61 | 3.05 |
| Vietnam | 5530643 | 0.28 | 8828929 | 0.44 | 13045407 | 0.60 | 47.76 |
| Italy | 9298959 | 0.46 | 8222908 | 0.41 | 9133025 | 0.42 | 11.07 |
| Saudi Arabia | 8341647 | 0.42 | 7266707 | 0.36 | 9086589 | 0.41 | 25.04 |
| Turkey | 5568076 | 0.28 | 6928820 | 0.35 | 6420713 | 0.29 | -7.33 |
| France | 5269005 | 0.26 | 6574261 | 0.33 | 8453953 | 0.39 | 28.59 |
| Egypt | 6262069 | 0.31 | 6350646 | 0.32 | 12386738 | 0.57 | 95.05 |
| Canada | 6237472 | 0.31 | 6243582 | 0.31 | 6006388 | 0.27 | -3.80 |
| Iran | 5486021 | 0.27 | 5193946 | 0.26 | 2978257 | 0.14 | -42.66 |
| Chinese Taipei/Taiwan | 3199831 | 0.16 | 4798779 | 0.24 | 5338102 | 0.24 | 11.24 |
| Malaysia | 5685475 | 0.28 | 4648700 | 0.23 | 8682521 | 0.40 | 86.77 |
| Oman | 4651981 | 0.23 | 3949710 | 0.20 | 3983979 | 0.18 | 0.87 |
| South Africa | 4066173 | 0.20 | 3696899 | 0.19 | 4598989 | 0.21 | 24.40 |
| Indonesia | 3644878 | 0.18 | 3577777 | 0.18 | 5186370 | 0.24 | 44.96 |
| Botswana | 1655004 | 0.08 | 3419571 | 0.17 | 8585684 | 0.39 | 151.07 |
| Poland | 2849769 | 0.14 | 2812682 | 0.14 | 3701165 | 0.17 | 31.59 |
| Qatar | 1348841 | 0.07 | 2804575 | 0.14 | 4786193 | 0.22 | 70.66 |
| Bhutan | 1216187 | 0.06 | 2436662 | 0.12 | 1892788 | 0.09 | -22.32 |
| Spain | 2128514 | 0.11 | 2151171 | 0.11 | 2105150 | 0.10 | -2.14 |
| Netherlands | 3046598 | 0.15 | 2085771 | 0.10 | 6003587 | 0.27 | 187.84 |
| Kuwait | 2496200 | 0.12 | 1692932 | 0.08 | 2114538 | 0.10 | 24.90 |
| Lebanon | 1753175 | 0.09 | 1813321 | 0.09 | 1806779 | 0.08 | -0.36 |
| Sri Lanka | 973408 | 0.05 | 1011525 | 0.05 | 1775669 | 0.08 | 75.54 |
| Iceland | 3109 | 0.00 | 10130 | 0.00 | 1713891 | 0.08 | 16818.96 |
| Brazil | 1128637 | 0.06 | 260228 | 0.01 | 1570934 | 0.07 | 503.68 |
| Libya | 777712 | 0.04 | 291560 | 0.01 | 1346449 | 0.06 | 361.81 |
| Ireland | 1096797 | 0.05 | 1137555 | 0.06 | 1143450 | 0.05 | 0.52 |
| Algeria | 1490779 | 0.07 | 936472 | 0.05 | 1540116 | 0.07 | 64.46 |
| Mexico | 646492 | 0.03 | 875506 | 0.04 | 1215191 | 0.06 | 38.80 |
| Bahrain Is | 562099 | 0.03 | 327879 | 0.02 | 1344195 | 0.06 | 309.97 |
| Other countries | 16438879 | 0.82 | 17690889 | 0.89 | 19238539 | 0.88 | 8.75 |

Source: DGCI&S, Kolkata

Metals & Alloys

The value of exports of metals & alloys at ₹ 1,74,287 crore in the year 2018-19 registered a decrease of 8.43% as compared to that of ₹ 1,90,334 crore in the previous year. The contribution of metals & alloys in the total value of India's exports was only 7.55% during the year under review.

Iron & steel with a share of 58.68% continued to hold the top position in the value of metals/alloys exported from India in 2018-19. Aluminium and alloys including scrap is in the second place and accounted for 22.88% value. Ferro alloys and copper & alloys (including brass & bronze) occupied the third & fourth place with a contribution of 8.58% & 4.02%, respectively. The contributions of zinc & alloys including scrap and lead & alloys including scrap were 2.40% and 1.62% respectively. The individual share of other remaining metals and alloys was less than one per cent.

As compared to previous year, the value of exports for different important metals had shown a mixed trend in 2018-19. The export value of platinum alloys and related metals increased by 74.15%, nickel and alloys incl. scrap 70.22%, aluminium and alloys incl. scrap 29.52%, antimony alloys and scrap 28.04% and silver 24.18%. However, the export values of gold (non-monetary & monetary) (98.51%), precious metals /metals clad with precious metals (74.38%), copper & alloys (incl. brass & bronze) (68.22%), zinc & alloys incl. scrap (32.07%) and pig & cast iron (incl. speigeliessen) (19.79%) showed significant negative growth during 2018-19 as compared to that of the previous year.

India exported metals & alloys to various countries in 2018-19. Bulk of the metals and alloys having share more than 1% to total value were exported to 26 countries. These countries together accounted for 80.30% of the total value of exports during 2018-19. USA with a share of 11.73% occupied top position in 2018-19 followed by UAE (5.63%), Nepal (5.62%), Republic of Korea (5.49%), Italy (5.38%), Malaysia (5.01%), Belgium (3.14%), China (2.92%), Turkey (2.81%), Germany (2.74%), Bangladesh (2.64%), Spain (2.51%), Vietnam (2.46%), UK (2.33%), Chinese Taipei/Taiwan (2.30%), Netherlands (2.20%), Thailand (2.07%), Mexico (2.04%) and Japan (2.02%). The individual share of Indonesia, Saudi Arabia, Canada, Brazil, Singapore, Qatar and Sri Lanka ranged between 1 and 2 per cent and less than one per cent in respect of the remaining countries.

The countries that have recorded significant increase in value of exports of metals & alloys during the year 2018-19 are Chile 240.06%, Egypt 51.86%, Mexico 49.87%, Tanzania 47.98%, Turkey 44.01%, Nepal 38.02%, Netherlands 36.06%, Brazil 33.75%, Kuwait 32.91%, Russia 25.51%, Canada 24.10%, Thailand 23.78%, France 21.55%, Germany 21.47% and UK 20.99%.

On the other hand, decline in the value of exports of metals & alloys was observed among China 65.05%, Iran 61.67%, UAE 56.16%, Indonesia 37.71%, Oman 33.68%, Colombia 27.42%, Philippines 23.11% and Singapore 22.75% during the year under review (Tables - 4 to 6).

Exports of selected mineral-based products during 2016-17 to 2018-19 are furnished in Table - 7.

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Table-4 : Exports of Metals and Alloys, 2016-17 to 2018-19 (P)

| | | (Value in ₹'000) | | | | | |
|----------------------------------|-------|------------------|-------------------|----------|-------------------|------------|-------------------|
| Metals & Alloys | Unit | 2016-17 | | 2017-18 | | 2018-19(P) | |
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| All Metals & Alloys | | ** | 1821860408 | ** | 1903344692 | ** | 1742867962 |
| Aluminium and alloys incl. scrap | tonne | 1546993 | 216150541 | 2011780 | 307876721 | 2337860 | 398756254 |
| Antimony alloys and scrap | tonne | 1667 | 750061 | 1896 | 970687 | 2282 | 1242874 |
| Bismuth & scrap | tonne | ++ | 68 | 4 | 4558 | ++ | 923 |
| Boron | tonne | 1 | 14 | ++ | 26 | ++ | 1971 |
| Cadmium (incl. waste & scrap) | tonne | 238 | 19876 | 201 | 20077 | 145 | 20128 |
| Cement (copper precipitated) | tonne | - | - | 161 | 7083 | 42 | 1916 |
| Chromium & alloys | tonne | 80 | 63279 | 54 | 36325 | 47 | 60583 |
| Cobalt & alloys | | | | | | | |
| (incl waste and scrap): Total | tonne | 38 | 56720 | 223 | 222960 | 96 | 425188 |
| Cobalt & alloys | tonne | 26 | 52460 | 117 | 165542 | 83 | 411873 |
| Cobalt & scrap | tonne | 12 | 4260 | 106 | 57418 | 14 | 13315 |
| Copper & alloys | | | | | | | |
| (incl. brass & bronze): Total | tonne | 450310 | 175766072 | 511485 | 220350121 | 134608 | 70029622 |
| Brass & bronze | tonne | 40015 | 31407200 | 34238 | 27442014 | 28654 | 20698053 |
| Brass & bronze (scrap) | tonne | 1793 | 403423 | 2047 | 517817 | 1598 | 481299 |
| Copper & alloys | tonne | 405338 | 143055146 | 471928 | 191305364 | 99279 | 46846435 |
| Copper (scrap) | tonne | 3164 | 900303 | 3273 | 1084926 | 5077 | 2003835 |
| Ferro alloys: Total | tonne | 1541794 | 101280504 | 1955751 | 143284847 | 1942134 | 149622740 |
| Ferroboration | tonne | 91 | 14608 | 102 | 14677 | 47 | 9921 |
| Ferrocrome | tonne | 706754 | 52675078 | 791862 | 60038253 | 860183 | 66563284 |
| Ferro-charge-chrome | tonne | 1 | 362 | 1 | 136 | ++ | 64 |
| Ferrocobalt | tonne | ++ | 146 | ++ | 243 | ++ | 398 |
| Ferrocolumbium | tonne | 3 | 6261 | 5 | 9965 | 1 | 1089 |
| Ferromanganese | tonne | 127367 | 7317744 | 307107 | 24302483 | 271433 | 22752482 |
| Ferromolybdenum | tonne | 162 | 121111 | 505 | 440840 | 330 | 444660 |
| Ferronickel | tonne | ++ | 107 | ++ | 2 | ++ | 55 |
| Ferroniobium | tonne | 13 | 19544 | 3 | 4679 | 46 | 99697 |
| Ferrophosphorus | tonne | 43 | 4968 | 162 | 16559 | 149 | 17076 |
| Feroselenium | tonne | ++ | 861 | ++ | 1333 | ++ | 917 |
| Ferrosilicon | tonne | 18383 | 1354991 | 20650 | 1815141 | 25752 | 2580250 |
| Ferrotantalum | tonne | ++ | 47 | - | - | - | - |
| Ferrotitanium | tonne | 299 | 46062 | 564 | 110740 | 1199 | 284737 |
| Ferrotungsten | tonne | 11 | 12638 | 7 | 5845 | 2 | 6443 |
| Ferrovanadium | tonne | 460 | 493144 | 214 | 410525 | 474 | 1832964 |
| Ferrozirconium | tonne | 58 | 11240 | ++ | 24 | 3 | 1546 |
| Ferro-silico-chrome | tonne | 8 | 858 | - | - | ++ | 31 |
| Ferro-silico-magnesium | tonne | 9249 | 856923 | 10078 | 951909 | 8610 | 951637 |
| Ferro-silico-manganese | tonne | 672039 | 37948702 | 818012 | 5460848 | 766932 | 53296562 |
| Ferro alloys (Others) | tonne | 6853 | 395108 | 6479 | 553043 | 6973 | 778927 |

(Contd)

FOREIGN TRADE

Table-4 (Contd)

(Value in ₹ '000)

| Metals & Alloys | Unit | 2016-17 | | 2017-18 | | 2018-19(P) | |
|--|-------|----------|-----------|----------|-----------|------------|------------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Gold (non-monetary & monetary): Total | kg | 133030 | 361795423 | 36927 | 96685965 | 507 | 1441337 |
| Gold (Monetary) | kg | - | - | - | - | ++ | 9 |
| Gold (non-monetary): Total | kg | 133030 | 361795423 | 36927 | 96685965 | 507 | 1441328 |
| Gold (non-monetary, other unwrought forms) | kg | 132978 | 361645931 | 36927 | 96685958 | 505 | 1436329 |
| Gold (non-monetary, powder) | kg | - | - | - | - | ++ | 35 |
| Gold (non-monetary: Other) Semi-manufactured forms | kg | 52 | 149491 | ++ | 6 | 2 | 4964 |
| Gold-clad metals/base metals NES | tonne | ++ | 136 | ++ | 148 | ++ | 1084 |
| Iron & steel : Total | tonne | ** | 861511741 | ** | 997377251 | ** | 1022758509 |
| Iron & steel (finished steel incl. CR sheet) | tonne | 5724813 | 309416388 | 5940761 | 340298284 | 4523368 | 326116006 |
| Iron & steel (semi-finished steel incl. steel ingot) | tonne | 7274672 | 254345754 | 8115641 | 317011255 | 5979824 | 293653659 |
| Iron & steel (steel wire) | tonne | 137394 | 17102048 | 174735 | 21901011 | 152597 | 25449317 |
| Iron & steel (sponge iron) | tonne | 394254 | 6467174 | 588622 | 11054668 | 686152 | 15725353 |
| Iron & steel (scrap) | tonne | 11329 | 782087 | 6813 | 567051 | 8490 | 648537 |
| Iron & steel: alloy steel (granules) | tonne | 113 | 13224 | 183 | 18118 | 312 | 21811 |
| Iron & steel: alloy steel (powder) | tonne | 6 | 3447 | 19 | 3711 | 128 | 36775 |
| Iron & steel (other finished steel, NES) | tonne | ** | 268043864 | ** | 296503963 | ** | 351532808 |
| Iron & steel material | tonne | 78151 | 3528485 | 149171 | 7180898 | 88157 | 5217266 |
| Iron & steel (stainless steel) | tonne | 8845 | 1809270 | 9691 | 2838292 | 12146 | 4356976 |
| Lead and alloys incl. scrap: Total | tonne | 108064 | 15868139 | 159544 | 25572183 | 176846 | 28199782 |
| Lead & alloys | tonne | 108064 | 15867393 | 159531 | 25570820 | 176783 | 28192397 |
| Lead & scrap | tonne | 1 | 745 | 13 | 1363 | 62 | 7385 |
| Magnesium & scrap | tonne | 115 | 14080 | 163 | 28376 | 996 | 116662 |
| Manganese & alloys (incl. waste & scrap): Total | tonne | 280 | 178615 | 305 | 207272 | 456 | 312178 |
| Manganese & alloys: (wrought & unwrought) | tonne | 228 | 169431 | 269 | 199909 | 414 | 300771 |
| Manganese & alloys NES | tonne | 9 | 2049 | 6 | 1742 | ++ | 82 |
| Manganese waste & scrap | tonne | 43 | 7136 | 30 | 5620 | 41 | 11325 |

(Contd)

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Table-4 (Concl'd)

(Value in ₹ '000)

| Metals & Alloys | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|--|-------|----------|----------|----------|----------|-------------|----------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Mercury | tonne | 50 | 113379 | 16 | 52540 | 36 | 237150 |
| Molybdenum & scrap | tonne | 13 | 143816 | 294 | 180112 | 517 | 281068 |
| Nickel and alloys (incl. scrap): Total | tonne | 8712 | 6115823 | 2806 | 2730933 | 3764 | 4648661 |
| Nickel & alloys | tonne | 8305 | 5973203 | 2270 | 2481828 | 2480 | 3935406 |
| Nickel scrap | tonne | 407 | 142620 | 536 | 249105 | 1284 | 713255 |
| Other rare metals, NES | tonne | 1 | 3136 | 3 | 806 | ++ | 616 |
| Pig & cast iron (incl. Spiegeleisen) | tonne | 489386 | 9618050 | 557635 | 12533399 | 346760 | 10053240 |
| Platinum alloys & related metals: Total | kg | 335 | 404010 | 741 | 1261759 | 937 | 2197414 |
| Platinum (powder, unwrought & others) | kg | 57 | 14237 | 568 | 988409 | 395 | 739050 |
| Other metals of platinum group | kg | 278 | 389773 | 173 | 273350 | 542 | 1458364 |
| Platinum-clad base/precious metals | kg | 2 | 413 | 12 | 682 | ++ | 254 |
| Precious metals / metals clad with precious metals | tonne | 3314 | 27814115 | 1187 | 28490393 | 3355 | 7297957 |
| Selenium | tonne | 204 | 257267 | 174 | 374190 | 28 | 58603 |
| Silicon | tonne | 43 | 7114 | 77 | 35078 | 204 | 29968 |
| Silver | tonne | 33 | 756462 | 29 | 659078 | 35 | 818438 |
| Silver clad base metals | kg | 4048 | 11141 | 1307 | 3869 | 1354 | 4637 |
| Tantalum & scrap: Total | tonne | 4 | 62506 | 3 | 58834 | 7 | 83897 |
| Tantalum alloys unwrought | tonne | 1 | 31849 | 2 | 44468 | 6 | 81960 |
| Tantalum & scrap | tonne | 3 | 30657 | 2 | 14366 | ++ | 1937 |
| Tellurium | tonne | 1 | 59 | -- | -- | ++ | 419 |
| Tin & alloys (incl. scrap): Total | tonne | 1280 | 723629 | 996 | 762618 | 859 | 718270 |
| Tin & alloys | tonne | 526 | 591971 | 569 | 712543 | 539 | 688879 |
| Tin & alloys : worked | tonne | 753 | 130774 | 424 | 47468 | 318 | 28781 |
| Tin (scrap) | tonne | 1 | 884 | 4 | 2607 | 2 | 610 |
| Titanium & alloys (incl. waste & scrap) | tonne | 115 | 201476 | 273 | 371053 | 319 | 272937 |
| Tungsten alloys & scrap | kg | 372617 | 1198573 | 592940 | 1471426 | 466667 | 1254346 |
| Zinc and alloys (incl. scrap): Total | tonne | 228027 | 40967510 | 286978 | 61679965 | 195900 | 41899908 |
| Zinc & alloys | tonne | 227980 | 40960482 | 286763 | 61654613 | 195780 | 41882289 |
| Zinc (scrap) | tonne | 48 | 7028 | 216 | 25352 | 119 | 17620 |
| Zirconium & scrap | tonne | 12 | 6661 | 8 | 33359 | 4 | 18427 |

Source: DGCI & S, Kolkata

*** : Quantity not additive*

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Table-5 : Value of Exports of Metals and Alloys, 2016-17 to 2018-19 (P)
(By Principal Metals & Alloys)

| Metals & Alloys | 2016-17 | | 2017-18 | | 2018-19(P) | | % increase (+) or decrease (-) in 2018-19 over 2017-18 |
|--|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|--|
| | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | |
| All Metals & Alloys | 1821860408 | 100.00 | 1903344692 | 100.00 | 1742867962 | 100.00 | -8.43 |
| Iron & steel | 861511741 | 47.29 | 997377251 | 52.40 | 1022758509 | 58.68 | 2.54 |
| Gold (non-monetary & monetary):Total | 361795423 | 19.86 | 96685965 | 5.08 | 1441337 | 0.08 | -98.51 |
| Aluminium and alloys (incl. scrap) | 216150541 | 11.86 | 307876721 | 16.18 | 398756254 | 22.88 | 29.52 |
| Copper & alloys (incl. brass & bronze) | 175766072 | 9.65 | 220350121 | 11.58 | 70029622 | 4.02 | -68.22 |
| Ferro alloys | 101280504 | 5.56 | 143284847 | 7.53 | 149622740 | 8.58 | 4.42 |
| Zinc and alloys (incl. scrap) | 40967510 | 2.25 | 61679965 | 3.24 | 41899908 | 2.40 | -32.07 |
| Precious metals / metals clad with precious metals | 27814115 | 1.53 | 28490393 | 1.50 | 7297957 | 0.42 | -74.38 |
| Lead and alloys (incl. scrap) | 15868139 | 0.87 | 25572183 | 1.34 | 28199782 | 1.62 | 10.28 |
| Pig & cast iron (incl. Spiegeleisen) | 9618050 | 0.53 | 12533399 | 0.66 | 10053240 | 0.58 | -19.79 |
| Nickel and alloys (incl. scrap) | 6115823 | 0.34 | 2730933 | 0.14 | 4648661 | 0.27 | 70.22 |
| Tungsten and alloys (incl. scrap) | 1198573 | 0.07 | 1471426 | 0.08 | 1254346 | 0.07 | -14.75 |
| Platinum Alloys & Related Metals | 404010 | 0.02 | 1261759 | 0.07 | 2197414 | 0.13 | 74.15 |
| Antimony alloys and scrap | 750061 | 0.04 | 970687 | 0.05 | 1242874 | 0.07 | 28.04 |
| Silver | 756462 | 0.04 | 659078 | 0.03 | 818438 | 0.05 | 24.18 |
| Tin and alloys (incl. scrap) | 723629 | 0.04 | 762618 | 0.04 | 718270 | 0.04 | -5.82 |
| Other metals and alloys | 1139755 | 0.06 | 1637345 | 0.09 | 1928609 | 0.11 | 17.79 |

Source: DGCI & S, Kolkata

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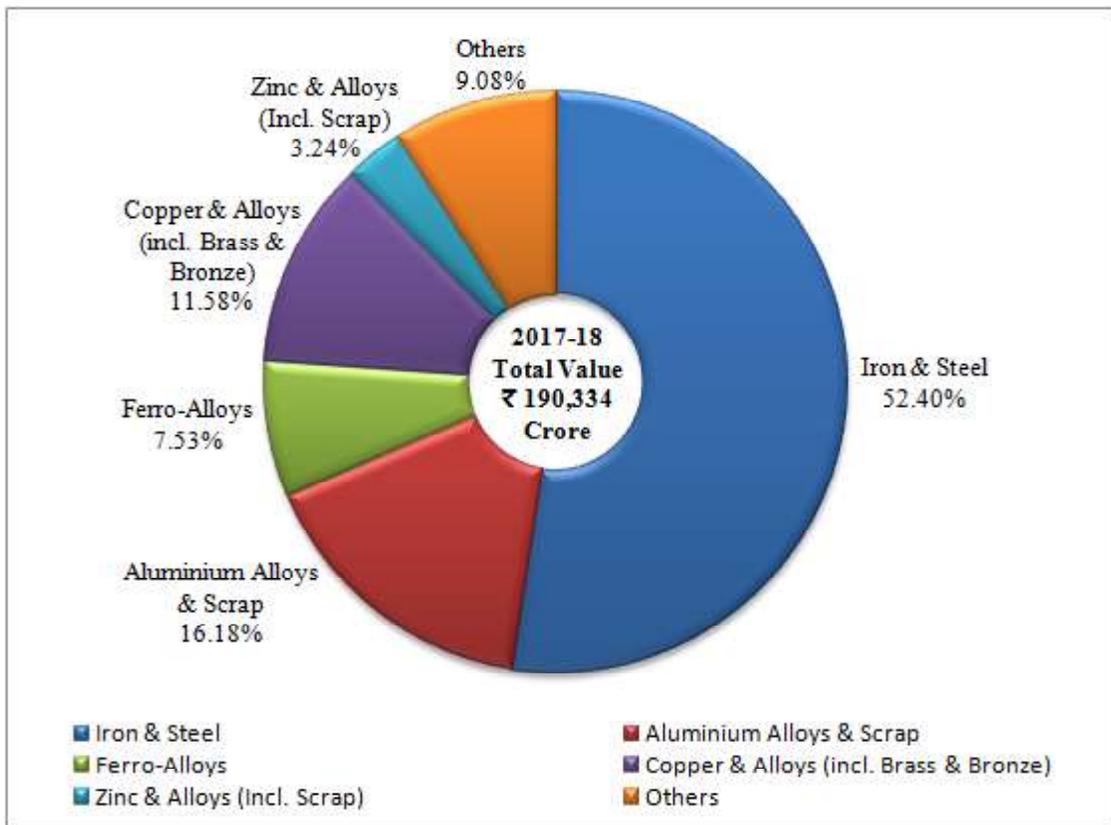
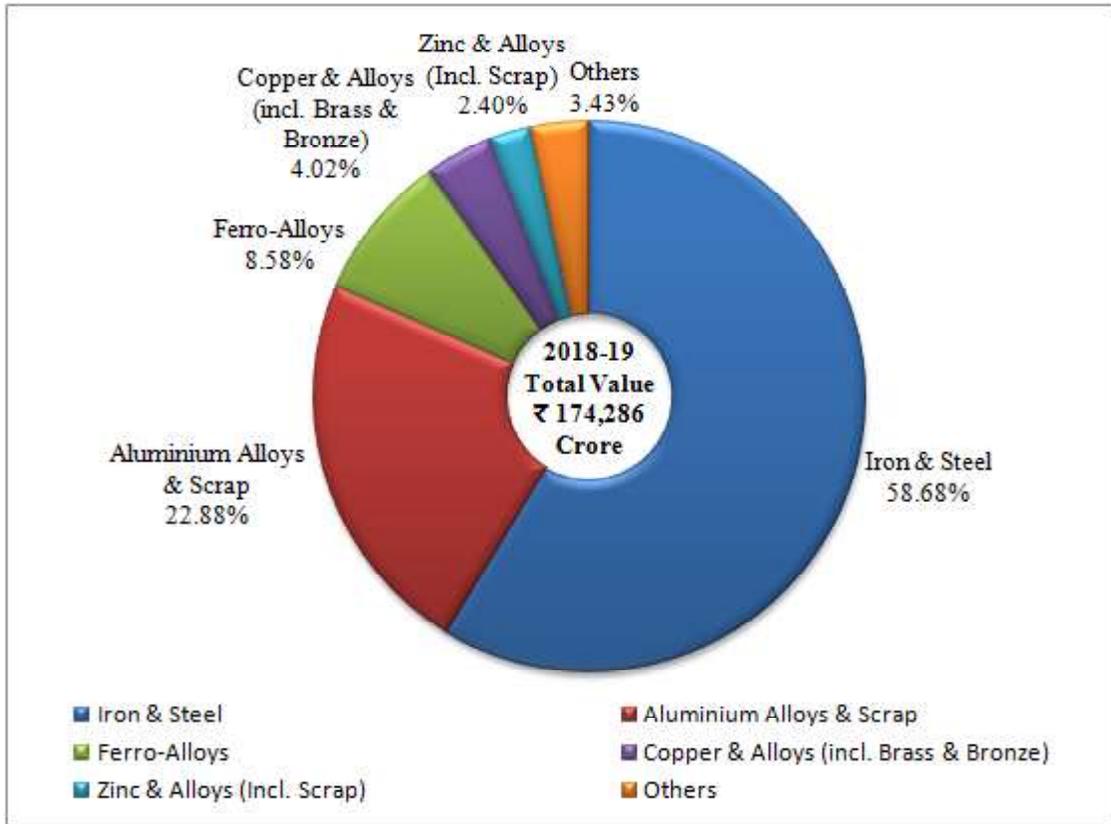
Table-6 : Value of Exports of Metals and Alloys, 2016-17 to 2018-19 (P)
(By Principal Countries)

| Country | 2016-17 | | 2017-18 | | 2018-19 (P) | | % increase (+) or decrease (-) in 2018-19 over 2017-18 |
|--------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|--|
| | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | |
| All Countries | 1821860408 | 100.00 | 1903344692 | 100.00 | 1742867962 | 100.00 | -8.43 |
| UAE | 480869052 | 26.39 | 223951741 | 11.77 | 98180493 | 5.63 | -56.16 |
| USA | 147942546 | 8.12 | 190984655 | 10.03 | 204501008 | 11.73 | 7.08 |
| China | 82473937 | 4.53 | 145525447 | 7.65 | 50858251 | 2.92 | -65.05 |
| Korea, Rep. of | 91604213 | 5.03 | 104020875 | 5.47 | 95671259 | 5.49 | -8.03 |
| Malaysia | 70174207 | 3.85 | 99138736 | 5.21 | 87285934 | 5.01 | -11.96 |
| Italy | 74225482 | 4.07 | 91455962 | 4.81 | 93754975 | 5.38 | 2.51 |
| Nepal | 53562606 | 2.94 | 71023752 | 3.73 | 98029669 | 5.62 | 38.02 |
| Belgium | 58929287 | 3.23 | 61867635 | 3.25 | 54687315 | 3.14 | -11.61 |
| Indonesia | 32533544 | 1.79 | 45880594 | 2.41 | 28580346 | 1.64 | -37.71 |
| Spain | 31898254 | 1.75 | 43196756 | 2.27 | 43789126 | 2.51 | 1.37 |
| Vietnam | 40623510 | 2.23 | 42761139 | 2.25 | 42944578 | 2.46 | 0.43 |
| Bangladesh | 38960409 | 2.14 | 41498403 | 2.18 | 45970835 | 2.64 | 10.78 |
| Chinese Taipei/Taiwan | 49503917 | 2.72 | 41104736 | 2.16 | 40101090 | 2.30 | -2.44 |
| Germany | 34963857 | 1.92 | 39288081 | 2.06 | 47721837 | 2.74 | 21.47 |
| Turkey | 18638795 | 1.02 | 34023787 | 1.79 | 48998670 | 2.81 | 44.01 |
| UK | 30228272 | 1.66 | 33565891 | 1.76 | 40610536 | 2.33 | 20.99 |
| Saudi Arabia | 37078243 | 2.04 | 32299655 | 1.70 | 28495683 | 1.63 | -11.78 |
| Japan | 22367420 | 1.23 | 30593742 | 1.61 | 35124224 | 2.02 | 14.81 |
| Thailand | 24165708 | 1.33 | 29213234 | 1.53 | 36161139 | 2.07 | 23.78 |
| Netherlands | 26106419 | 1.43 | 28139901 | 1.48 | 38288313 | 2.20 | 36.06 |
| Singapore | 29802676 | 1.64 | 26450966 | 1.39 | 20434577 | 1.17 | -22.75 |
| Sri Lanka | 14743058 | 0.81 | 24231470 | 1.27 | 19607781 | 1.13 | -19.08 |
| Mexico | 24016980 | 1.32 | 23671810 | 1.24 | 35475993 | 2.04 | 49.87 |
| Qatar | 6407495 | 0.35 | 22994549 | 1.21 | 19983081 | 1.15 | -13.10 |
| Oman | 16854836 | 0.93 | 21357580 | 1.12 | 14163966 | 0.81 | -33.68 |
| Canada | 11493344 | 0.63 | 18843083 | 0.99 | 23383604 | 1.34 | 24.10 |
| Brazil | 10846417 | 0.60 | 15582721 | 0.82 | 20841844 | 1.20 | 33.75 |
| Philippines | 6029797 | 0.33 | 15456072 | 0.81 | 11883459 | 0.68 | -23.11 |
| Poland | 8986590 | 0.49 | 15411503 | 0.81 | 16085139 | 0.92 | 4.37 |
| Iran | 15217198 | 0.84 | 14612104 | 0.77 | 5601349 | 0.32 | -61.67 |
| Colombia | 4881350 | 0.27 | 12244012 | 0.64 | 8886552 | 0.51 | -27.42 |
| Australia | 10243640 | 0.56 | 12043623 | 0.63 | 13932807 | 0.80 | 15.69 |
| France | 11491336 | 0.63 | 11802426 | 0.62 | 14346035 | 0.82 | 21.55 |
| Nigeria | 5657938 | 0.31 | 11203375 | 0.59 | 13252633 | 0.76 | 18.29 |
| Kenya | 10621783 | 0.58 | 9406902 | 0.49 | 9620505 | 0.55 | 2.27 |
| South Africa | 10418424 | 0.57 | 8993365 | 0.47 | 10621778 | 0.61 | 18.11 |
| Ethiopia | 10725870 | 0.59 | 8753627 | 0.46 | 8734437 | 0.50 | -0.22 |
| Kuwait | 14639005 | 0.80 | 8068413 | 0.42 | 10723914 | 0.62 | 32.91 |
| Chile | 3138113 | 0.17 | 2774329 | 0.15 | 9434439 | 0.54 | 240.06 |
| Russia | 5699775 | 0.31 | 6416970 | 0.34 | 8054203 | 0.46 | 25.51 |
| Egypt | 5756020 | 0.32 | 7687060 | 0.40 | 11673599 | 0.67 | 51.86 |
| Tanzania, United Rep. of | 3218742 | 0.18 | 5145115 | 0.27 | 7613509 | 0.44 | 47.98 |
| Bahrain | 3085571 | 0.17 | 7526612 | 0.40 | 6406224 | 0.37 | -14.89 |
| Greece | 4216462 | 0.23 | 6685874 | 0.35 | 7394766 | 0.42 | 10.60 |
| Afghanistan | 1097533 | 0.06 | 6630501 | 0.35 | 7062739 | 0.41 | 6.52 |
| Other countries | 125720771 | 6.90 | 149815911 | 7.87 | 147893746 | 8.49 | -1.28 |

Source: DGCI & S, Kolkata

FOREIGN TRADE

Value of Metals & Alloy Exports, 2017-18 and 2018-19



FOREIGN TRADE

Table- 7 : Exports of Selected Mineral-Based Products, 2016-17 to 2018-19

| | | (Value in ₹ '000) | | | | | |
|--|-------------|-------------------|-------------------|----------|-------------------|-------------|-------------------|
| Mineral-based Product | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| All Items | | ** | 2005224015 | ** | 2320733817 | ** | 2746887459 |
| Aluminium fluoride | tonne | 321 | 26454 | 206 | 20352 | 442 | 36259 |
| Asbestos cement products | tonne | 69123 | 1166022 | 62379 | 976622 | 67352 | 970413 |
| Asbestos fibre products | tonne | 33976 | 4523799 | 35812 | 4636847 | 41677 | 5252141 |
| Bleaching powder | tonne | 13773 | 271671 | 16349 | 340458 | 21327 | 592188 |
| Boric acid | tonne | 1873 | 116916 | 1377 | 100729 | 1321 | 107106 |
| Briquettes of coke, semi-coke of coal | tonne | 12342 | 98293 | 18029 | 115737 | 80 | 606 |
| Calcium carbide | tonne | 493 | 28383 | 439 | 25029 | 325 | 20384 |
| Caustic soda | tonne | 84386 | 2762237 | 159645 | 6683530 | 172165 | 7166279 |
| Cement : Total | tonne | 6850804 | 20017688 | 6664210 | 23048577 | 5824303 | 20293766 |
| Cement (others) | tonne | 265943 | 959028 | 272284 | 941739 | 209898 | 763214 |
| Cement (portland grey) | tonne | 2563121 | 8623372 | 2276162 | 7380587 | 2014673 | 6837613 |
| Cement (portland white) | tonne | 33179 | 253062 | 23639 | 200857 | 29181 | 215183 |
| Cement clinker | tonne | 3988561 | 10182227 | 4092125 | 14525393 | 3570550 | 12477756 |
| Cryolite and chiolite | tonne | 95 | 6291 | 70 | 5439 | 71 | 9002 |
| Graphite (artificial) | tonne | 18177 | 1600568 | 23693 | 2135615 | 31594 | 3745543 |
| Graphite bricks & shapes | tonne | 88 | 4712 | 292 | 7745 | 597 | 5707 |
| Graphite crucibles | tonne | 10 | 1479 | 113 | 5496 | 56 | 6888 |
| Hydrofluoric acid | tonne | 2643 | 162161 | 3170 | 231832 | 2198 | 211815 |
| Manganese oxide: Total | tonne | 15658 | 572815 | 20771 | 1016498 | 18035 | 928690 |
| Manganese dioxide | tonne | 2388 | 77853 | 2545 | 123550 | 2529 | 118447 |
| Manganese oxides (other than manganese dioxide) | tonne | 13270 | 494962 | 18226 | 892948 | 15506 | 810243 |
| Petroleum products: Total | '000 tonnes | 65513 | 1948930000 | 66833 | 2253880000 | 61096 | 2676970000 |
| Non-ferrous ash & residues | tonne | 94912 | 295871 | 116204 | 514769 | 168330 | 618621 |
| Other refractory manufactures | tonne | 77869 | 6236195 | 60169 | 6038706 | 56851 | 5484465 |
| Phosphoric acid | tonne | 229 | 58408 | 572 | 35081 | 360 | 30931 |

(Contd)

FOREIGN TRADE

Table-7 (Concl'd)

(Value in ₹'000)

| Mineral-based Product | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|--|-------|----------|---------|----------|----------|-------------|----------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Phosphorus (elemental) | tonne | 455 | 175775 | 455 | 171596 | 610 | 224682 |
| Potash fertiliser | tonne | 24388 | 737107 | 41325 | 1105979 | 41327 | 1223814 |
| Potassium nitrate | tonne | 1014 | 213900 | 920 | 165184 | 805 | 154987 |
| Refractory bricks | tonne | 184566 | 9170781 | 200295 | 10443350 | 253457 | 13895203 |
| Silicon carbide crucibles | tonne | 5076 | 639444 | 3549 | 595149 | 3128 | 671354 |
| Slag (dross, etc. from iron & steel exc. granulated) | tonne | 384822 | 1390366 | 279098 | 1032991 | 148859 | 507380 |
| Soda ash | tonne | 72527 | 1197987 | 110087 | 1937729 | 62457 | 1520233 |
| Sodium nitrate | tonne | 86 | 5900 | 7 | 548 | 8 | 1220 |
| Sodium nitrite | tonne | 10723 | 473537 | 12442 | 552135 | 15181 | 759379 |
| Sulphur (sublimed precipitated & colloidal): Total | tonne | 17019 | 1861383 | 17697 | 1896114 | 18080 | 2128393 |
| Sulphur (colloidal) | tonne | 43 | 1178 | 8 | 520 | 3 | 210 |
| Sulphur precipitated | tonne | 135 | 4694 | 52 | 663 | 1 | 92 |
| Sulphur sublimed | tonne | 16841 | 1855511 | 17637 | 1894931 | 18077 | 2128091 |
| Titanium oxide & dioxide: Total | tonne | 34040 | 2346322 | 38676 | 2945095 | 37089 | 3255387 |
| Titanium oxides | tonne | 25886 | 1328289 | 29115 | 1407437 | 29744 | 1981107 |
| Titanium dioxide | tonne | 8154 | 1018033 | 9560 | 1537658 | 7345 | 1274279 |
| Phosphatic Fertilisers | tonne | 24180 | 131549 | 8762 | 68885 | 6947 | 94622 |

Source: 1) DGCI & S, Kolkata

2) Indian Petroleum & Natural Gas Statistics published by Ministry of Petroleum & Natural Gas

** : Quantity not additive

IMPORTS

Ores and Minerals

The value of imports of ores & minerals in 2018-19 accounted for 36.14% of the total value of all merchandise imported into India. During 2018-19, the total value of imports of ores and minerals at ₹ 12,99,186 crore registered a rise of 26.31% as compared to ₹ 10,28,529 crore in the year 2017-18.

Petroleum (crude) continued to be the largest constituent item with a share of 61.44% in the total value of minerals imported in 2018-19. Next in order of importance was diamond with a share of 13.70% followed by coal (excluding lignite) with a share of 13.16% and natural gas with 5.69%. The combined share of these four minerals was 93.98% in 2018-19 as against 91.80% in the previous year.

The value of imports of some ores & minerals has significantly increased as in the case of magnesite 111.08%, fluorspar 83.93%, bauxite 72.95%, alumina 70.21%, molybdenum ores & conc. 66.97%, sulphur (excl. sublimed precipitated & colloidal) 43.19%, petroleum (crude) 41.74%, natural gas 41.10%, iron ore 39.82%, coke 31.91%, zirconium ore & conc. 30.34%, limestone 26.36%, rock phosphate 24.03%, borax 23.82% and coal (lignite) 23.43% during the year 2018-19 as compared to that in the previous year. However, the value of imports in some cases declined as in emerald (cut & uncut) where it showed a decline of 53.05%, copper ores & conc. also reported a decline of 56.36% during the year under review over the previous year.

During 2018-19, ores and minerals were imported from various countries. Approximately 97.17% of the total value of imports of ores & minerals was confined to 40 countries. Out of

these countries, 19 countries accounted for about 87.71% of the total value of minerals imported in 2018-19. Iraq occupied the top position in 2018-19 in terms of imports value and accounted for 12% of the total mineral imports. Next in the order was Saudi Arabia with 11.58% share followed by UAE 8.84%, Iran 6.51%, USA 6.33%, Australia 5.95%, Nigeria 5.73%, Indonesia 4.21%, Venezuela 3.90%, Qatar 3.58%, Belgium 3.57%, Kuwait 2.93%, Mexico 2.30%, Hong Kong 2.21%, Angola 2.15%, South Africa 2.04%, Malaysia 1.43%, Russia 1.40% and Brazil 1.05%. The individual share of remaining countries was less than one percent.

Countrywise analysis of value of imports of ores and minerals in 2018-19 revealed that imports value from Switzerland increased manifold (1153.62%); USA & Singapore reported increase of more than four times (336.66% & 320.86% respectively); Chad & Colombia by three times (266.19% & 242.12% respectively); and Turkey & UK by two times (192.34% & 100.89% respectively). The other countries which recorded significant increase in the value of imports of ores and minerals during the year were Sudan (93.60%), Malaysia (88.37%), Belgium (75.59%), Mexico (65.46%), UAE (56.99%), Vietnam (51.35%), Saudi Arabia (51.58%), Algeria (47.88%), Brunei (46.63%), Iran (45.13%), China (37.76%), Iraq (37.93%), Venezuela (34.38%), Qatar (32.99%), Nigeria (24.19%), Indonesia (21.62%) and Egypt (20.50%). However, imports value showed a decline in respect of the category of Other countries (57.69%), Chile (47.63%), Russia (47.76%), Oman (38.80%), Botswana (35.50%), Canada (25.39%) and Kazakhstan (21.03%) (Tables - 8 to 10).

FOREIGN TRADE

Table - 8 : Imports of Ores & Minerals, 2016-17 to 2018-19 (P)

(Value in ₹ '000)

| Ores & Minerals | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|-----------------------------------|-------------|----------|-------------------|----------|--------------------|-------------|--------------------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| All Minerals | | ** | 8094451067 | ** | 10285285803 | ** | 12991864212 |
| Abrasives (natural) | tonne | 4716 | 54480 | 5386 | 68022 | 4942 | 74317 |
| Alabaster | tonne | 1055 | 28667 | 1145 | 28996 | 1378 | 39474 |
| Alumina | tonne | 1403570 | 33417504 | 2224194 | 60483412 | 2856522 | 102946451 |
| Andalusite | tonne | 10909 | 222533 | 14375 | 318253 | 14263 | 355231 |
| Antimony ores and conc. | tonne | 4756 | 752104 | 5257 | 1093067 | 7496 | 1609648 |
| Arsenic sulphide (natural) | tonne | 12 | 811 | 20 | 1155 | 7 | 557 |
| Asbestos: Total | tonne | 310593 | 11279370 | 357182 | 11603678 | 364105 | 12253120 |
| Asbestos (chrysotile) | tonne | 310593 | 11279370 | 357182 | 11603543 | 363902 | 12246919 |
| Asbestos (others) | tonne | - | - | ++ | 135 | 203 | 6202 |
| Ball clay | tonne | 173358 | 1368664 | 197848 | 1514694 | 175253 | 1579468 |
| Barytes | tonne | 8817 | 202527 | 10982 | 237166 | 11497 | 266738 |
| Bauxite | tonne | 1894926 | 7785093 | 1461494 | 7727097 | 2254595 | 13364138 |
| Bentonite | tonne | 28615 | 477966 | 48963 | 657248 | 57232 | 868080 |
| Borax: Total | tonne | 129409 | 4359797 | 160135 | 4753977 | 181628 | 5886239 |
| Natural borate | tonne | 51976 | 1400793 | 73386 | 1713685 | 85217 | 2206203 |
| Sodium borate | tonne | 67231 | 2417841 | 76415 | 2486188 | 86687 | 3101908 |
| Other borates | tonne | 10203 | 541164 | 10334 | 554103 | 9723 | 578128 |
| Building & monumental stones, NES | tonne | 147856 | 506698 | 103829 | 418409 | 201755 | 850407 |
| Calcite | tonne | 54563 | 264364 | 74153 | 353344 | 71712 | 346402 |
| Chalk | tonne | 8211 | 48114 | 6989 | 36764 | 255 | 6142 |
| Chromite: Total | tonne | 154226 | 2105121 | 160505 | 2981861 | 162663 | 3154446 |
| Chrome ore others | tonne | 40062 | 520622 | 37252 | 607802 | 31291 | 630138 |
| Chrome ore conc. | tonne | 11066 | 167943 | 6803 | 173381 | 2970 | 104952 |
| Chrome ore lumps | tonne | 103098 | 1416556 | 116449 | 2200678 | 128402 | 2419355 |
| Clay (others) | tonne | 18997 | 261132 | 24338 | 302247 | 17482 | 319967 |
| Coal (excl. lignite) | '000 tonnes | 191015 | 1003162925 | 208254 | 1384845575 | 235355 | 1709323907 |
| Coal:lignite | '000 tonnes | ++ | 652 | ++ | 1335 | 1 | 8171 |
| Coal gas | tonne | - | - | 2 | 29 | - | - |
| Cobalt ores & conc. | tonne | - | - | - | - | 1 | 4476 |
| Coke | tonne | 4368062 | 54356105 | 4589015 | 91542188 | 4933340 | 120756971 |
| Copper ores & conc. | tonne | 1143216 | 182986972 | 1488164 | 278344776 | 823938 | 121462018 |
| Corundum (natural) | tonne | ++ | 18 | 1 | 29 | - | - |
| Diamond: Total | | ** | 1296740694 | ** | 1902035828 | ** | 1779709899 |
| Diamond (industrial) | carat | 954463 | 798243 | 1147013 | 910896 | 5120796 | 3864007 |
| Diamond (mostly cut) | carat | ** | 1294426045 | ** | 1899129686 | ** | 1773772347 |
| Diamond (powder) | '000 carat | 387541 | 1516406 | 703178 | 1995245 | 763772 | 2073544 |

(Contd)

FOREIGN TRADE

Table-8 (Contd)

(Value in ₹ '000)

| Ores & Minerals | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|------------------------------------|-------------|----------|-----------|----------|----------|-------------|----------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Diatomite | tonne | 3143 | 113037 | 2426 | 88318 | 3648 | 139463 |
| Dolomite | tonne | 2010665 | 2999703 | 5360753 | 5636086. | 5869536 | 6743267 |
| Earth Clay | tonne | 598 | 3525 | 43 | 1845 | 19 | 4255 |
| Emerald (cut & uncut) | | ** | 113428797 | ** | 77934747 | ** | 36592286 |
| Emerald (uncut) | tonne | 8 | 18249169 | 62 | 39699940 | 46 | 14833394 |
| Emerald (cut) | '000 carat | 96287 | 95179627 | 50612 | 38234807 | 51012 | 21758892 |
| Felspar (natural) | tonne | 35582 | 161647 | 16753 | 147950 | 9490 | 100612 |
| Felspar (cut & uncut) | | ** | 46896 | ** | 48136 | ** | 96750 |
| Felspar (uncut) | tonne | 3 | 43536 | 22 | 19955 | 2 | 75191 |
| Felspar (cut) | carat | 585320 | 3361 | 4377651 | 28181 | 3611200 | 21559 |
| Fire clay | tonne | 1828 | 60726 | 1765 | 110852 | 1294 | 88523 |
| Flint | tonne | 1712 | 24263 | 4431 | 56232 | 6887 | 76018 |
| Fluorite/Fluorspar | tonne | 190444 | 2992256 | 221817 | 3958978 | 265445 | 7281830 |
| Garnet (abrasive) | tonne | 2286 | 22192 | 2256 | 21243 | 422 | 6410 |
| Garnet (cut and uncut) | | ** | 222296 | ** | 335898 | ** | 169836 |
| Garnet (uncut) | tonne | 4 | 204825 | 12 | 277803 | 27 | 124213 |
| Garnet (cut) | '000 carat | 1571 | 17471 | 3702 | 58095 | 6144 | 45623 |
| Granite : Total | tonne | 51422 | 1683156 | 60339 | 1760529 | 61962 | 1940630 |
| Granite (crude or roughly trimmed) | tonne | 29740 | 773770 | 39142 | 983349 | 41225 | 1085461 |
| Granite (cut blocks/slabs) | tonne | 12717 | 303107 | 14389 | 342116 | 14444 | 353099 |
| Granite (polished blocks/tiles) | tonne | 2275 | 87217 | 1149 | 45197 | 758 | 36139 |
| Granite (others) | tonne | 6689 | 519064 | 5659 | 389867 | 5536 | 465930 |
| Graphite (natural) | tonne | 37044 | 1391090 | 39864 | 1487947 | 47053 | 2328880 |
| Gypsum | tonne | 4423809 | 6051111 | 5740956 | 8254197 | 6186250 | 9473422 |
| Iron ore: Total | '000 tonnes | 4607 | 21615220 | 8707 | 42293970 | 12808 | 59136712 |
| Iron ore conc: non agglomerated | '000 tonnes | 2352 | 10404621 | 2210 | 12707090 | 533 | 3533499 |
| Iron ore fines | '000 tonnes | 867 | 3825369 | 3798 | 11958940 | 8436 | 28976777 |
| Iron ore lumps | '000 tonnes | 993 | 4824936 | 2123 | 12138902 | 3196 | 19735798 |
| Iron ore pellets | '000 tonnes | 391 | 2520826 | 571 | 5434369 | 640 | 6832112 |
| Iron ore pyrites | '000 tonnes | 3 | 39468 | 5 | 54669 | 4 | 58526 |
| Kaolin | tonne | 142929 | 2393952 | 192539 | 2787447 | 229734 | 3581703 |
| Kieselguhr | tonne | 1 | 140 | 1 | 99 | 42 | 3995 |
| Kyanite | tonne | 748 | 16619 | 620 | 17807 | 997 | 27590 |
| Lead ores & conc. | tonne | 6217 | 318696 | 2220 | 149370 | 1499 | 85467 |
| Limestone | tonne | 18300357 | 24384184 | 20827698 | 29016416 | 24397170 | 36665169 |

(Contd.)

FOREIGN TRADE

Table-8 (Contd)

(Value in ₹ '000)

| Ores & Minerals | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|---|-------|----------|-----------|----------|-----------|-------------|-----------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Magnesite : Total | tonne | 142600 | 3089942 | 229628 | 5268655 | 464367 | 11120844 |
| Magnesia (fused) | tonne | 7962 | 335632 | 16320 | 1049128 | 21130 | 1630685 |
| Magnesite (not calcined) | tonne | 53833 | 158425 | 63048 | 219645 | 115540 | 390976 |
| Magnesite (calcined) | tonne | 11062 | 259909 | 35059 | 930629 | 36157 | 1542203 |
| Magnesite:dead-burnt magnesia | tonne | 40332 | 1218747 | 65155 | 1458690 | 144069 | 4911911 |
| Magnesium oxide | tonne | 15549 | 583659 | 22263 | 805410 | 48881 | 1436254 |
| Magnesite (other) | tonne | 13862 | 533571 | 27783 | 805153 | 98589 | 1208817 |
| Manganese Ore: Total | tonne | 1943815 | 24028136 | 3627741 | 50633963 | 2784473 | 48484512 |
| Manganese ore (46% or more Mn) | tonne | 349679 | 4713326 | 327431 | 5971223 | 219962 | 5275365 |
| Manganese ore (35% or more but below 46% Mn) | tonne | 1058081 | 12582177 | 2095807 | 30130889 | 1641885 | 29972598 |
| Manganese ore (30% or more but below 35% Mn) | tonne | 90339 | 794570 | 494927 | 4658513 | 395736 | 4809679 |
| Manganese ore (ferruginous, 10 % or more but below 30%) | tonne | 30069 | 232960 | 50684 | 420397 | 98443 | 881293 |
| Manganese ore (others) | tonne | 415647 | 5705103 | 658891 | 9452940 | 428446 | 7545577 |
| Marble : Total | tonne | 882266 | 26142984 | 1164246 | 22696788 | 997198 | 20190592 |
| Marble (dressed) | tonne | 724931 | 15714713 | 1033530 | 16371890 | 916568 | 14896708 |
| Marble (others) | tonne | 157335 | 10428271 | 130717 | 6324898 | 80630 | 5293884 |
| Mica: Total | tonne | 3260 | 944981 | 4313 | 1079664 | 3692 | 1172725 |
| Mica (Unmanufactured) | tonne | 1911 | 86178 | 1891 | 108125 | 1955 | 133079 |
| Mica (blocks) | tonne | 193 | 6295 | 123 | 6106 | 117 | 6825 |
| Mica (powder) | tonne | 469 | 40779 | 553 | 51104 | 872 | 70520 |
| Mica (splittings) | tonne | 879 | 30512 | 681 | 35875 | 504 | 35978 |
| Mica (waste & scrap) | tonne | 370 | 8591 | 534 | 15040 | 463 | 19756 |
| Mica (Worked) | tonne | 1349 | 858803 | 2422 | 971539 | 1737 | 1039646 |
| Mica (cond. films, plates, cuts NES) | tonne | 2 | 3962 | 459 | 33910 | 12 | 15522 |
| Mica (washers & discs) | tonne | ++ | 240 | 1 | 515 | ++ | 343 |
| Mica (sheets & strips) | tonne | 92 | 15209 | 176 | 26926 | 269 | 44739 |
| Micanite & other built-up mica | tonne | - | - | - | - | - | - |
| Mica (bricks) | tonne | - | - | - | - | - | - |
| Mica worked (others) | tonne | 1255 | 839392 | 1786 | 910189 | 1455 | 979043 |
| Molybdenum ores & conc. | tonne | 7138 | 5442499 | 9169 | 8149458 | 11028 | 13606784 |
| Natural gas | tonne | 17783327 | 402490252 | 20176813 | 523664503 | 21544662 | 738878610 |
| Nickel ores & conc. | tonne | 1062 | 818095 | — | — | ++ | 169 |
| Niobium or tantalum | tonne | 168 | 284036 | 185 | 228699 | 155 | 264454 |
| Ochre: Total | tonne | 123 | 19061 | 56 | 14580 | 40 | 11794 |
| Ochre (earth colours) | tonne | 80 | 4724 | 7 | 3131 | 7 | 2856 |
| Ochre (yellow ochre) | tonne | 26 | 9860 | 5 | 2700 | 2 | 1581 |

(Contd)

FOREIGN TRADE

Table-8 (Concl'd)

(Value in ₹ '000)

| Ores & Minerals | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|---|-------------|----------|------------|----------|------------|-------------|------------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Ochre (persian red) | tonne | 2 | 1573 | 1 | 448 | ++ | 50 |
| Ochre (red oxide) | tonne | 14 | 2904 | 44 | 8301 | 30 | 7308 |
| Petroleum (crude) | '000 tonnes | 214887 | 4742189327 | 218107 | 5630977107 | 226453 | 7981583187 |
| Precious & semi-precious stones (cut & uncut): Total | | ** | 24660619 | ** | 46165232 | ** | 48292004 |
| Precious & semi-precious stones (uncut) | tonne | 1626 | 21217502 | 1749 | 39214946 | 2499 | 24610114 |
| Precious & semi-precious stones (cut) | '000 carat | 52806 | 3443117 | 288011 | 6950286 | 726885 | 23681890 |
| Precious metal ores & concentrates | kg | 83322 | 19423078 | 15298 | 3363976 | 201 | 42118 |
| Quartz & quartzite: Total | tonne | 382 | 12001 | 976 | 22057 | 1663 | 54630 |
| Quartz (natural) | tonne | 236 | 6124 | 612 | 8192 | 223 | 6568 |
| Quartzite (natural) | tonne | 146 | 5877 | 364 | 13865 | 1440 | 48062 |
| Rock phosphate | tonne | 7511446 | 49513135 | 7702634 | 45457007 | 7519156 | 56379205 |
| Salt (other than common salt) | tonne | 52900 | 173685 | 67555 | 291752 | 78712 | 472880 |
| Sand (excl. metal bearing) | tonne | 31667 | 140870 | 361957 | 530106 | 390327 | 843983 |
| Sandstone | tonne | ++ | 21 | 203 | 4162 | 48 | 973 |
| Silica Sand | tonne | 102432 | 516412 | 130185 | 475197 | 60898 | 400143 |
| Sillimanite | tonne | 24 | 3029 | 18 | 1027 | 98 | 2403 |
| Slate | tonne | 18 | 5323 | 139 | 9623 | 225 | 6869 |
| Talc/Steatite/Soapstone: Total | tonne | 3592 | 204909 | 4548 | 249142 | 7028 | 324573 |
| Steatite (blocks) | tonne | - | - | 1 | 13 | 201 | 2618 |
| Steatite lumps | tonne | 107 | 887 | 190 | 1596 | 1254 | 7027 |
| Steatite powder & others | tonne | 3485 | 204022 | 4357 | 247533 | 5574 | 314928 |
| Sulphur (excl. sublimed precipitated & colloidal) | tonne | 1345520 | 8751425 | 1206433 | 10628788 | 1346777 | 15219696 |
| Tin ores & conc. | tonne | 69 | 37335 | 57 | 56980 | 6 | 1259 |
| Titanium ores & conc.: Total | tonne | 39443 | 867777 | 163690 | 3297464 | 97307 | 3013233 |
| Titanium ores & conc. (ilmenite) | tonne | 25121 | 252948 | 135224 | 1923741 | 70275 | 1250833 |
| Titanium ores & conc. (rutile) | tonne | 9322 | 427600 | 21049 | 1132192 | 20825 | 1500944 |
| Titanium ores & conc. (others) | tonne | 5001 | 187229 | 7417 | 241531 | 6207 | 261456 |
| Tripoli earth | tonne | 19 | 817 | ++ | 8 | 8 | 238 |
| Tungsten ores & conc. | tonne | 283 | 29631 | 350 | 23609 | 461 | 64519 |
| Vanadium ores & others | tonne | 269 | 15868 | 491 | 89745 | 2658 | 451826 |
| Vermiculite | tonne | 552 | 14413 | 321 | 7415 | 610 | 16154 |
| Witherite | tonne | - | - | - | - | ++ | 95 |
| Wollastonite | tonne | 3483 | 73052 | 11461 | 156398 | 26484 | 331612 |
| Zinc ores & conc. | tonne | 1771 | 86640 | - | - | 1422 | 38776 |
| Zirconium ores & conc. | tonne | 73931 | 4569039 | 83780 | 6202747 | 76078 | 8084379 |
| Other minerals, NES | tonne | 299442 | 1590851 | 536328 | 2082737 | 683347 | 2821851 |

Source: DGCI&S, Kolkata

** Quantity not additive

FOREIGN TRADE

**Table -9 : Value of Imports of Ores & Minerals, 2016-17 to 2018-19 (P)
(By Principal Ores/Minerals)**

| Ores & Minerals | 2016-17 | | 2017-18 | | 2018-19 (P) | | % increase (+) or decrease (-) in 2018-19 over 2017-18 |
|---|-------------------|------------------------|--------------------|------------------------|--------------------|------------------------|--|
| | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | |
| All Minerals | 8094451067 | 100.00 | 10285285803 | 100.00 | 12991864212 | 100.00 | 26.32 |
| Petroleum (crude) | 4742189327 | 58.59 | 5630977107 | 54.75 | 7981583187 | 61.44 | 41.74 |
| Diamond | 1296740694 | 16.02 | 1902035828 | 18.49 | 1779709899 | 13.70 | -6.43 |
| Coal (excluding lignite) | 1003162925 | 12.39 | 1384845575 | 13.46 | 1709323907 | 13.16 | 23.43 |
| Natural gas | 402490252 | 4.97 | 523664503 | 5.09 | 738878610 | 5.69 | 41.10 |
| Copper ores & conc. | 182986972 | 2.26 | 278344776 | 2.71 | 121462018 | 0.93 | -56.36 |
| Coke | 54356105 | 0.67 | 91542188 | 0.89 | 120756971 | 0.93 | 31.91 |
| Emerald (cut & uncut) | 113428797 | 1.40 | 77934747 | 0.76 | 36592286 | 0.28 | -53.05 |
| Alumina | 33417504 | 0.41 | 60483412 | 0.59 | 102946451 | 0.79 | 70.21 |
| Manganese ore | 24028136 | 0.30 | 50633963 | 0.49 | 48484512 | 0.37 | -4.25 |
| Precious & semi-precious stones (cut & uncut):Total | 24660619 | 0.30 | 46165232 | 0.45 | 48292004 | 0.37 | 4.61 |
| Rock phosphate | 49513135 | 0.61 | 45457007 | 0.44 | 56379205 | 0.43 | 24.03 |
| Iron ore | 21615220 | 0.27 | 42293970 | 0.41 | 59136712 | 0.46 | 39.82 |
| Limestone | 24384184 | 0.30 | 29016416 | 0.28 | 36665169 | 0.28 | 26.36 |
| Marble | 26142984 | 0.32 | 22696788 | 0.22 | 20190592 | 0.16 | -11.04 |
| Asbestos | 11279370 | 0.14 | 11603678 | 0.11 | 12253120 | 0.09 | 5.60 |
| Sulphur (excluding sublimed precipitated & colloidal) | 8751425 | 0.11 | 10628788 | 0.10 | 15219696 | 0.12 | 43.19 |
| Bauxite | 7785093 | 0.10 | 7727097 | 0.08 | 13364138 | 0.10 | 72.95 |
| Gypsum | 6051111 | 0.07 | 8254197 | 0.08 | 9473422 | 0.07 | 14.77 |
| Molybdenum ores & conc. | 5442499 | 0.07 | 8149458 | 0.08 | 13606784 | 0.10 | 66.97 |
| Zirconium ores & conc. | 4569039 | 0.06 | 6202747 | 0.06 | 8084379 | 0.06 | 30.34 |
| Magnesite | 3089942 | 0.04 | 5268655 | 0.05 | 11120844 | 0.09 | 111.08 |
| Dolomite | 2999703 | 0.04 | 5636086 | 0.05 | 6743267 | 0.05 | 19.64 |
| Fluorspar | 2992256 | 0.04 | 3958978 | 0.04 | 7281830 | 0.06 | 83.93 |
| Borax | 4359797 | 0.05 | 4753977 | 0.05 | 5886239 | 0.05 | 23.82 |
| Other minerals | 38013974 | 0.47 | 27010632 | 0.26 | 28428973 | 0.22 | 5.25 |

Source: DGCI&S, Kolkata

FOREIGN TRADE

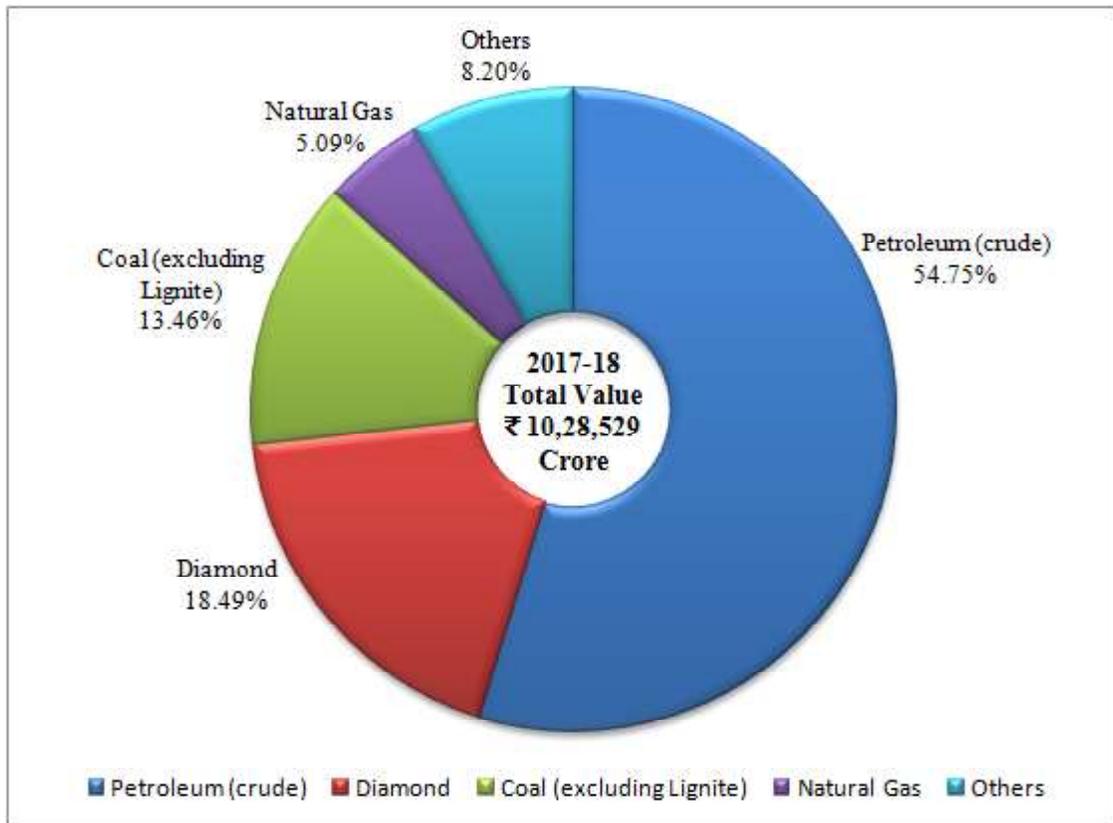
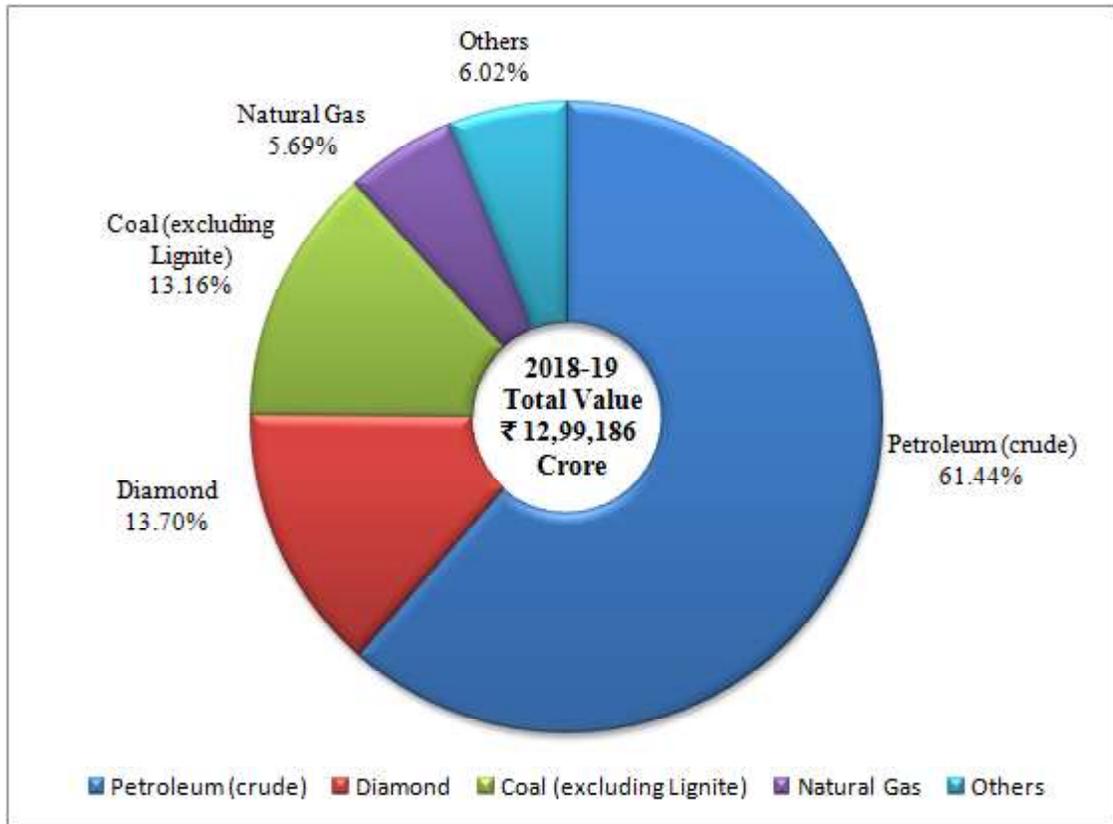
**Table- 10 : Value of Imports of Ores & Minerals, 2016-17 to 2018-19 (P)
(By Principal Countries)**

| Country | 2016-17 | | 2017-18 | | 2018-19 (P) | | % increase (+) or decrease (-) in 2018-19 over 2017-18 |
|----------------------|-------------------|------------------------------|--------------------|------------------------------|--------------------|------------------------------|--|
| | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | |
| All Countries | 8094451067 | 100 | 10285285803 | 100 | 12991864212 | 100 | 26.32 |
| Iraq | 779032785 | 9.62 | 1129911533 | 10.99 | 1558441338 | 12.00 | 37.93 |
| Saudi Arabia | 951489440 | 11.75 | 992088648 | 9.65 | 1503843214 | 11.58 | 51.58 |
| UAE | 788405665 | 9.74 | 731980903 | 7.12 | 1149114932 | 8.84 | 56.99 |
| Australia | 539958188 | 6.67 | 692505492 | 6.73 | 772386316 | 5.95 | 11.54 |
| Nigeria | 500589811 | 6.18 | 599849451 | 5.83 | 744982826 | 5.73 | 24.19 |
| Iran | 601091550 | 7.43 | 582948443 | 5.67 | 846013371 | 6.51 | 45.13 |
| Indonesia | 380914748 | 4.71 | 449386580 | 4.37 | 546544895 | 4.21 | 21.62 |
| Venezuela | 369226719 | 4.56 | 377510453 | 3.67 | 507311112 | 3.90 | 34.38 |
| Qatar | 341719994 | 4.22 | 350050953 | 3.40 | 465533601 | 3.58 | 32.99 |
| Russia | 203056252 | 2.51 | 348708258 | 3.39 | 182165011 | 1.40 | -47.76 |
| Kuwait | 197779295 | 2.44 | 340921925 | 3.31 | 380661265 | 2.93 | 11.66 |
| Angola | 173825033 | 2.15 | 278148618 | 2.70 | 279398905 | 2.15 | 0.45 |
| South Africa | 206426347 | 2.55 | 275523388 | 2.68 | 264851177 | 2.04 | -3.87 |
| Hong Kong | 257993200 | 3.19 | 273809176 | 2.66 | 286504030 | 2.21 | 4.64 |
| Belgium | 343382954 | 4.24 | 264008666 | 2.57 | 463567546 | 3.57 | 75.59 |
| USA | 75946110 | 0.94 | 188288593 | 1.83 | 822173565 | 6.33 | 336.66 |
| Mexico | 127465888 | 1.57 | 180728161 | 1.76 | 299027481 | 2.30 | 65.46 |
| Oman | 27491815 | 0.34 | 180166787 | 1.75 | 110253275 | 0.85 | -38.80 |
| Brazil | 112929573 | 1.40 | 145501459 | 1.41 | 136281786 | 1.05 | -6.34 |
| Canada | 67003367 | 0.83 | 136647930 | 1.33 | 101946332 | 0.78 | -25.39 |
| Chile | 67655852 | 0.84 | 116665347 | 1.13 | 61098271 | 0.47 | -47.63 |
| Botswana | 87586948 | 1.08 | 105556669 | 1.03 | 68085363 | 0.52 | -35.50 |
| Malaysia | 136649686 | 1.69 | 98870939 | 0.96 | 186249654 | 1.43 | 88.38 |
| Israel | 75388234 | 0.93 | 66053226 | 0.64 | 62716248 | 0.48 | -5.05 |
| Egypt | 60733411 | 0.75 | 64237774 | 0.62 | 77403890 | 0.60 | 20.50 |
| Algeria | 34636630 | 0.43 | 62896825 | 0.61 | 93014543 | 0.72 | 47.88 |
| China | 43123926 | 0.53 | 60642477 | 0.59 | 83538503 | 0.64 | 37.76 |
| Mozambique | 21263049 | 0.26 | 51675009 | 0.50 | 61661952 | 0.47 | 19.33 |
| Equtl. Guinea | 53437826 | 0.66 | 48501736 | 0.47 | 43959177 | 0.34 | -9.37 |
| Kazakhstan | 24718251 | 0.31 | 46874500 | 0.46 | 37017910 | 0.28 | -21.03 |
| Singapore | 19179236 | 0.24 | 18012362 | 0.18 | 75807154 | 0.58 | 320.86 |
| Colombia | 18422813 | 0.23 | 11747444 | 0.11 | 40190754 | 0.31 | 242.12 |
| Turkey | 34346126 | 0.42 | 28575680 | 0.28 | 83538065 | 0.64 | 192.34 |
| Brunei | 42067915 | 0.52 | 27983827 | 0.27 | 41031826 | 0.32 | 46.63 |
| Gabon | 4269670 | 0.05 | 23944181 | 0.23 | 27626634 | 0.21 | 15.38 |
| Sudan | 4446070 | 0.05 | 19789373 | 0.19 | 38311626 | 0.29 | 93.60 |
| Chad | 9196348 | 0.11 | 9073266 | 0.09 | 33225480 | 0.26 | 266.19 |
| UK | 7651041 | 0.09 | 15880489 | 0.15 | 31902536 | 0.25 | 100.89 |
| Vietnam | 8736369 | 0.11 | 18958209 | 0.18 | 28692344 | 0.22 | 51.35 |
| Switzerland | 6096229 | 0.08 | 2262107 | 0.02 | 28358256 | 0.22 | 1153.62 |
| Other countries | 289116703 | 3.57 | 868398949 | 8.44 | 367432047 | 2.83 | -57.69 |

Source: DGCI&S, Kolkata

FOREIGN TRADE

Value of Mineral Imports, 2017-18 and 2018-19



Metals & Alloys

The value of imports of metals & alloys at ₹ 4,77,483 crore showed an increase of 16.03% in 2018-19 as compared to ₹ 4,11,826 crore in the previous year. The share of metals & alloys in the total value of all merchandise imported to India was about 13.29 per cent in 2018-19.

Gold non-monetary & monetary (total) with a share of 48.04% continued to occupy the top position in the total value of imports of metals and alloys in 2018-19. Iron & steel is placed in the second position and accounted for share of 24.02%, aluminium & alloys including scrap occupied the third place with a share of 7.99% and copper & alloys including brass & bronze occupied the fourth place with a share of 7.72%. Next in the order were silver with 5.48% followed by ferro alloys, zinc & alloys including scrap, lead & zinc including scrap and nickel & alloys including scrap with 1.58%, 1.18%, 1.15% and 1.08% respectively. The individual share of remaining metals was less than one per cent of the total value of metals & alloys.

The value of imports of the metals & alloys that showed significant growth included cadmium (including waste & scrap) which rose by more than two times (117.72%), titanium alloys (including waste & scrap) by 57.41%, Other metals & alloys 51.95%, molybdenum & scrap 41.90%, cobalt & alloys (including waste & scrap) 39.15%, magnesium & scrap 34.30%, iron & steel 32.11%, aluminium & alloys incl. scrap 30.91%, copper & alloys (including brass & bronze) 26.91%, silver 26.36%, nickel & alloys incl. scrap 26.73% and silicon 22.20% in 2018-19 as compared to that in the previous year. On the other hand, during 2018-19, the value of imports of metals and alloys that showed a declining trend was mainly in the case of platinum alloys & related metals where the decline was by 19.27% as compared to the previous year.

India imported metals & alloys from various countries in 2018-19. Bulk of the metals and alloys having share of more than 1% of the total value were imported from 22 countries which

accounted for 86.76% of the total value of metals & alloys imported in 2018-19. Switzerland occupied the top position with a share of 22.83% of the total value of metal imports in 2018-19 followed by China in second place with a share of 7.68%. The countries next in order were UAE which occupied the third place with a share of 7.17% and USA was at the the fourth place with a share of 6.03%. The other countries with share more than 2% include Republic of Korea (5.86%), UK (4.51%), Ghana (4.46%), Japan (3.48%), Peru (3.23%), Hong Kong (2.89%), South Africa (2.68%) and Malaysia (2.41%). The contribution with share less than 2% but more than 1% include Singapore (1.76%), Australia (1.59%), Germany (1.57%), Vietnam (1.48%), Thailand (1.46%), Bolivia (1.25%), Indonesia (1.21%), Burkina Faso (1.18%), Tanzania (1.06%) and Netherlands (1.00%). The remaining countries are those with a share less than one per cent.

During the year under review, imports in terms of value from Cote D'Ivoire increased by manifold (2028.40%) and for many other countries imports value rose up more than 100%, for instance, Chile (202.25%), Singapore (161.39%), UK (113.19%) and Ukraine (107.76%). The other countries which recorded significant positive growth in imports include Belgium (96.87%), Netherlands (88.97%), Uzbekistan (81.55%), Kazakhstan (77.92%), Thailand (65.45%), Burkina Faso (62.64%), Japan (42.69%), Italy (41.92%), Kuwait (41.88%), Sweden (40.09%), Brazil (39.48%), Bolivia (39.43%), Nepal (38.25%), Sri Lanka (36.36%), Ghana (35.83%), USA (34.09%), Peru (34.02%), Bhutan (32.26%), Colombia (29.62%), Togo (29.45%), Tanzania (29.23%), Mexico (28.55%), Malaysia (24%), Republic of Korea (23.30%) and Taiwan (20.41%) as compared to previous year. On the other hand, the value of imports of metals & alloys showed a declining trend in the case of many countries, prominent among them were Zambia (48.33%) and Guinea (21.78%) (Tables - 11 to 13). Imports of selected mineral-based products during 2016-17 to 2018-19 are furnished in Table-14.

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Table- 11 : Imports of Metals and Alloys, 2016-17 to 2018-19 (P)

(Value in ₹ '000)

| Metals & Alloys | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|--|-------|----------|-------------------|----------|-------------------|-------------|-------------------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| All Metals & alloys | | ** | 3377884210 | ** | 4118255871 | ** | 4778433032 |
| Aluminium & alloys incl. scrap | tonne | 1750587 | 233259458 | 1957744 | 291546613 | 2317668 | 381662640 |
| Antimony alloys & scrap | tonne | 864 | 396709 | 1343 | 737085 | 1177 | 673155 |
| Bismuth & scrap | tonne | 207 | 159310 | 271 | 205697 | 260 | 192644 |
| Boron | tonne | 1 | 9075 | 1 | 7700 | ++ | 3315 |
| Cadmium & scrap | tonne | 4738 | 446608 | 6521 | 800457 | 8898 | 1742740 |
| Chromium alloys & scrap | tonne | 983 | 534573 | 1087 | 622047 | 1268 | 1031626 |
| Cobalt alloys & scrap: Total | tonne | 900 | 1972142 | 874 | 3423423 | 834 | 4763696 |
| Cobalt & alloys | tonne | 900 | 1972142 | 874 | 3423423 | 831 | 4760386 |
| Cobalt & scrap | tonne | — | — | — | — | 3 | 3310 |
| Copper & alloys (incl. brass & bronze): Total | tonne | 656053 | 227236238 | 710254 | 290730497 | 839517 | 368963430 |
| Brass & bronze | tonne | 26102 | 10969805 | 31110 | 14320499 | 29961 | 16093222 |
| Brass & bronze (scrap) | tonne | 125085 | 29831626 | 128594 | 34908094 | 132415 | 41057176 |
| Copper & alloys | tonne | 458732 | 171225796 | 504714 | 224760485 | 597928 | 287265270 |
| Copper (scrap) | tonne | 46134 | 15209011 | 45836 | 16741419 | 79213 | 24547763 |
| Copper alloys & scrap | tonne | — | — | — | — | — | — |
| Copper (cement copper precipitated) | tonne | ++ | 30 | — | — | ++ | 5 |
| Ferro alloys : Total | tonne | 468247 | 51012882 | 544266 | 66167630 | 508009 | 75734229 |
| Ferroborene | tonne | 1349 | 181830 | 1223 | 165544 | 1025 | 181136 |
| Ferrochrome | tonne | 73432 | 8004752 | 38792 | 5772152 | 30817 | 5594084 |
| Ferro alloys: charge-chrome | tonne | 11151 | 549561 | 15468 | 997215 | 22081 | 1446124 |
| Ferromanganese | tonne | 109605 | 6197333 | 123910 | 9085575 | 123110 | 9695114 |
| Ferromolybdenum | tonne | 1026 | 741935 | 1754 | 1607055 | 2372 | 3109991 |
| Feronickel | tonne | 62769 | 17396666 | 155319 | 24901797 | 88321 | 24319793 |
| Ferroniobium | tonne | 1783 | 3737116 | 2816 | 5165316 | 3176 | 6022085 |
| Ferrophosphorous | tonne | 3098 | 62679 | 3899 | 92568 | 3589 | 102217 |
| Ferrosilicon | tonne | 195086 | 12618930 | 190553 | 15700333 | 221510 | 20909220 |
| Ferrotitanium | tonne | 2722 | 579422 | 1963 | 509722 | 1378 | 408958 |
| Ferrotungsten | tonne | 3 | 5266 | 3 | 4746 | 27 | 65196 |
| Ferrovanadium | tonne | 312 | 372113 | 717 | 1489371 | 714 | 2881355 |
| Ferrozirconium | tonne | 339 | 45224 | 461 | 57211 | 297 | 39969 |
| Ferro-silico-chrome | tonne | 25 | 2967 | — | — | 29 | 5221 |
| Ferro-silico-magnesium | tonne | 345 | 32589 | 1177 | 110154 | 2271 | 243874 |
| Ferro-silico-manganese | tonne | 1623 | 86025 | 2913 | 179335 | 3135 | 204719 |
| Ferro alloys (others) | tonne | 3578 | 398474 | 3299 | 329538 | 4157 | 505175 |

(Contd)

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(Table-11 Contd)

| | | (Value in ₹ '000) | | | | | |
|---|-------|-------------------|------------|----------|------------|-------------|------------|
| Metals & Alloys | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Gold (non-monetary & monetary):Total | kg | 778444 | 1839601332 | 955336 | 2170720688 | 982697 | 2295364963 |
| Gold (monetary) | kg | - | - | - | - | - | - |
| Gold (non-monetary): Total | kg | 791462 | 1848964613 | 957521 | 2176047548 | 985459 | 2302769170 |
| Gold (non-monetary) | kg | 778444 | 1839601332 | 955336 | 2170720688 | 982697 | 2295364963 |
| Gold (non-monetary, powder) | kg | ++ | 103 | 1 | 2262 | 6 | 17098 |
| Gold (non-Monetary): other semi-manufactured forms | kg | 13018 | 9363177 | 2184 | 5324599 | 2756 | 7387109 |
| Gold (non-monetary, other unwrought forms) | kg | 765426 | 1830238051 | 953151 | 2165393827 | 979935 | 2287960756 |
| Gold (clad metal/base metals, NES) | tonne | ++ | 4605 | ++ | 340 | — | — |
| Iron & steel : Total | tonne | ** | 725054169 | ** | 868869800 | ** | 1147881239 |
| Iron & steel (finished steel incl. CR sheet) | tonne | 3765501 | 257185558 | 4164483 | 298309409 | 4246628 | 377203641 |
| Iron & steel (semi-finished steel incl. steel ingots) | tonne | 3686646 | 126547219 | 3781927 | 153318563 | 4130620 | 205456000 |
| Iron & steel (steel wire) | tonne | 246958 | 17576290 | 230482 | 19567609 | 267802 | 25937468 |
| Iron & Steel (sponge iron) | tonne | 38137 | 560415 | 79328 | 1329360 | 49064 | 1000243 |
| Iron & Steel (scrap) | tonne | 5719954 | 137854664 | 5427661 | 165879000 | 6883783 | 256694753 |
| Iron & steel: alloy steel (granules) | tonne | 18641 | 797026 | 21116 | 987972 | 23478 | 1268099 |
| Iron & steel: alloy steel (powder) | tonne | 1682 | 347980 | 3026 | 464229 | 4663 | 840713 |
| Iron & steel (other finished steel, NES) | tonne | ** | 155314159 | ** | 192386612 | ** | 226803143 |
| Iron & steel material | tonne | 534533 | 20233080 | 583091 | 25375958 | 639656 | 37058226 |
| Iron & steel (stainless steel) | tonne | 75357 | 8637778 | 79480 | 11251087 | 97280 | 15618954 |
| Lead and alloys & scrap: Total | tonne | 304919 | 40065600 | 351641 | 52503761 | 360247 | 54754913 |
| Lead & alloys | tonne | 238266 | 32861863 | 253349 | 40639654 | 252583 | 40998157 |
| Lead (scrap) | tonne | 66653 | 7203736 | 98293 | 11864107 | 107664 | 13756756 |
| Magnesium & scrap | tonne | 25031 | 3938053 | 25002 | 3828672 | 27889 | 5141750 |
| Manganese & alloys (incl. waste & scrap): Total | tonne | 37436 | 4778617 | 55820 | 6878791 | 45868 | 7676645 |
| Manganese & alloys: (wrought & unwrought) | tonne | 37288 | 4756710 | 55767 | 6871294 | 45839 | 7674482 |
| Manganese & alloys, NES | tonne | 106 | 19852 | 53 | 7498 | 1 | 993 |
| Manganese waste & scrap | tonne | 42 | 2055.21 | — | — | 28.24 | 1169.327 |

(Contd)

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(Table-11 Concl'd)

(Value in ₹ '000)

| Metals & Alloys | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|--|-------|----------|-----------|----------|-----------|-------------|-----------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Mercury | tonne | 273 | 426736 | 147 | 324534 | 157 | 704063 |
| Molybdenum & scrap | tonne | 399 | 1104070 | 393 | 1197142 | 493 | 1698724 |
| Nickel and alloys | tonne | 49541 | 37077245 | 62256 | 40778026 | 47229 | 51678358 |
| incl. scrap: Total | | | | | | | |
| Nickel & alloys | tonne | 46880 | 35988092 | 58519 | 39217138 | 45133 | 50672255 |
| Nickel (scrap) | tonne | 2661 | 1089153 | 3737 | 1560888 | 2095 | 1006103 |
| Other rare metals, NES | tonne | 275 | 487053 | 413 | 966031 | 300 | 1469541 |
| Pig & cast iron incl. spiegeleisen | tonne | 77266 | 4824788 | 64222 | 4325787 | 73260 | 5175321 |
| Platinum alloys & related metals | kg | 7056 | 12581543 | 12090 | 22710829 | 8876 | 18334591 |
| Platinum (powder, unwrought & others) | kg | 3859 | 8411508 | 6803 | 13342862 | 4859 | 9548458 |
| Other metals of platinum group | kg | 3197 | 4170035 | 5287 | 9367967 | 4017 | 8786133 |
| Platinum-clad base /precious metal | kg | 19 | 15916 | 25 | 5375 | 5 | 14391 |
| Precious metals / metals clad with precious metals | tonne | 1 | 206058 | 1 | 517719 | 214 | 900854 |
| Selenium | tonne | 538 | 527924 | 254 | 585921 | 375 | 936736 |
| Silicon | tonne | 49805 | 5506071 | 83115 | 7080883 | 64287 | 8653014 |
| Silver | tonne | 3363 | 123293264 | 5879 | 207248885 | 7474 | 261886338 |
| Silver-clad base metal | kg | 138 | 2964 | 216 | 2740 | 7503 | 112776 |
| Tantalum & scrap: Total | tonne | 3 | 50893 | 5 | 104057 | 4 | 139944 |
| Tantalum alloys unwrought | tonne | 3 | 50859 | 5 | 104002 | 4 | 139366 |
| Tantalum & scrap | tonne | ++ | 34 | ++ | 55 | ++ | 578 |
| Tellurium | tonne | 4 | 13212 | 3 | 13734 | 5 | 31337 |
| Tin & alloys (incl. scrap): Total | tonne | 9180 | 11714966 | 12202 | 15775528 | 11262 | 15780750 |
| Tin & alloys | tonne | 9035 | 11625658 | 11987 | 15647701 | 10907 | 15550619 |
| Tin (scrap) | tonne | ++ | 150 | ++ | 179 | 1 | 390 |
| Tin & alloys : worked | tonne | 145 | 89159 | 214 | 127648 | 354 | 229740 |
| Titanium & alloys (incl. waste & scrap) | tonne | 2937 | 2914908 | 4395 | 4466985 | 7657 | 7031699 |
| Tungsten and alloys incl. scrap | kg | 400848 | 1558901 | 465223 | 1718857 | 399205 | 1726276 |
| Zinc and alloys (incl. scrap) | tonne | 310820 | 47056546 | 272775 | 53324303 | 278089 | 56463016 |
| Zinc & alloys | tonne | 241075 | 38274762 | 191602 | 40230229 | 184255 | 40200060 |
| Zinc (scrap) | tonne | 69745 | 8781783 | 81173 | 13094074 | 93834 | 16262956 |
| Zirconium & scrap | tonne | 26 | 51751 | 20 | 65331 | 61 | 108309 |

Source: DGCI & S, Kolkata

** Quantity not additive

FOREIGN TRADE

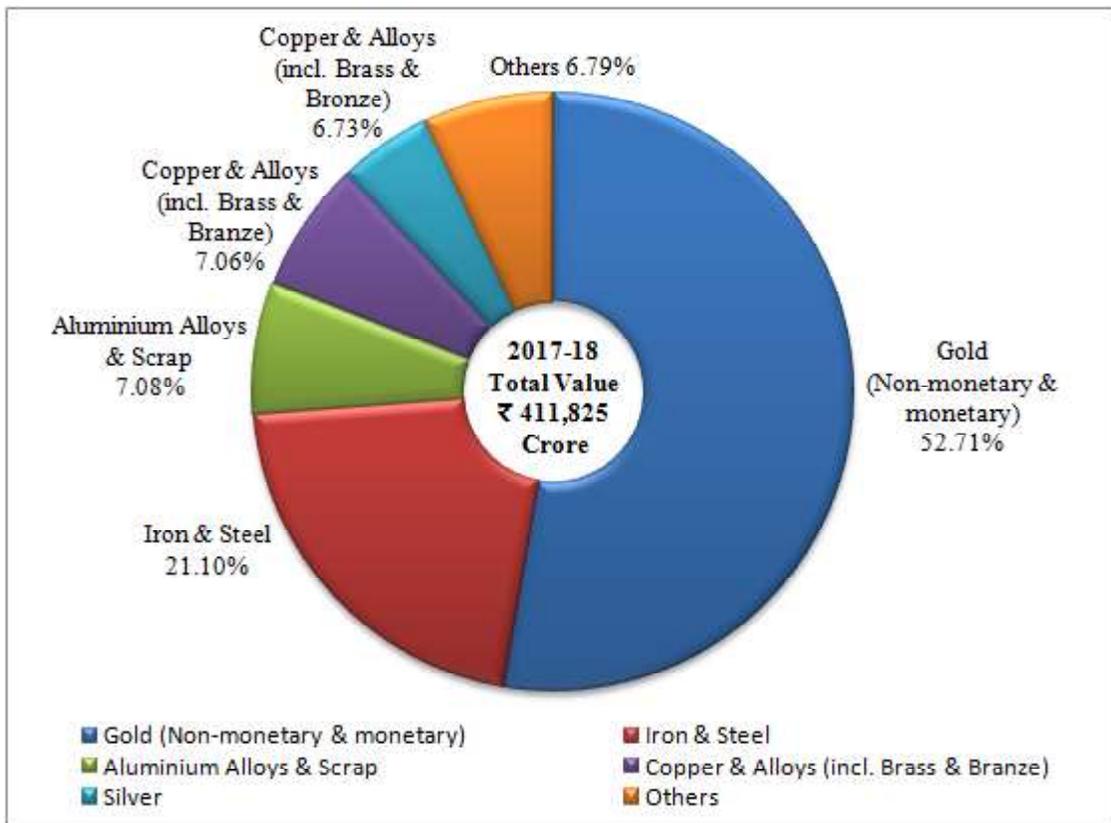
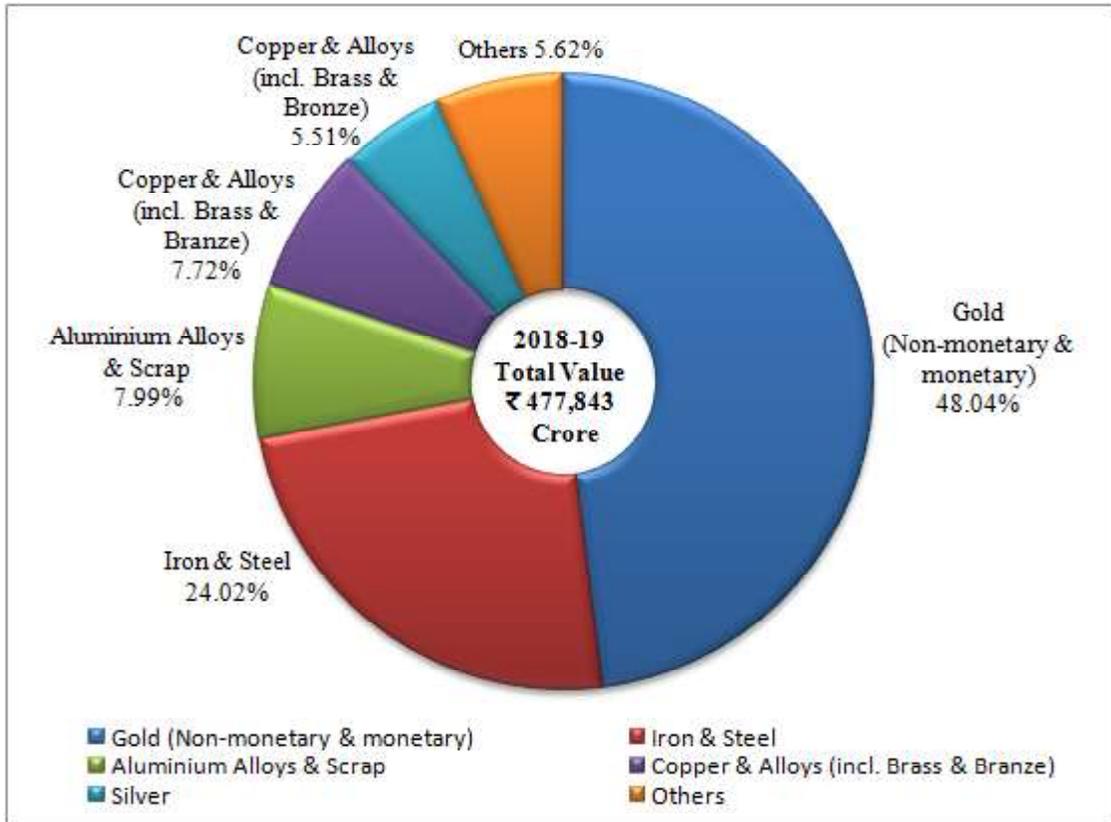
**Table- 12 : Value of Imports of Metals and Alloys, 2016-17 to 2018-19
(By Principal Metals & Alloys)**

| Metals & Alloys | 2016-17 | | 2017-18 | | 2018-19 (P) | | % increase (+) or decrease (-) in 2018-19 over 2017-18 |
|--|---------------|------------------------|---------------|------------------------|---------------|------------------------|--|
| | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | |
| All Metals & Alloys | 3377884210 | 100 | 4118255871 | 100 | 4778433032 | 100 | 16.0305 |
| Gold (non-monetary & monetary):Total | 1839601332 | 54.46 | 2170720688 | 52.71 | 2295364963 | 48.04 | 5.74 |
| Iron & steel | 725054169 | 21.46 | 868869800 | 21.10 | 1147881239 | 24.02 | 32.11 |
| Aluminium and alloys incl. scrap | 233259458 | 6.91 | 291546613 | 7.08 | 381662640 | 7.99 | 30.91 |
| Copper & alloys (incl. brass & bronze) | 227236238 | 6.73 | 290730497 | 7.06 | 368963430 | 7.72 | 26.91 |
| Silver | 123293264 | 3.65 | 207248885 | 5.03 | 261886338 | 5.48 | 26.36 |
| Ferro alloys | 51012882 | 1.51 | 66167630 | 1.61 | 75734229 | 1.58 | 14.46 |
| Zinc and alloys incl. scrap | 47056546 | 1.39 | 53324303 | 1.29 | 56463016 | 1.18 | 5.89 |
| Lead and alloys incl. scrap | 40065600 | 1.19 | 52503761 | 1.27 | 54754913 | 1.15 | 4.29 |
| Nickel and alloys incl. scrap | 37077245 | 1.10 | 40778026 | 0.99 | 51678358 | 1.08 | 26.73 |
| Platinum alloys & related metals | 12581543 | 0.37 | 22710829 | 0.55 | 18334591 | 0.38 | -19.27 |
| Tin and alloys incl. scrap | 11714966 | 0.35 | 15775528 | 0.38 | 15780750 | 0.33 | 0.03 |
| Silicon | 5506071 | 0.16 | 7080883 | 0.17 | 8653014 | 0.18 | 22.20 |
| Pig & cast iron (incl. spiegeleisen) | 4824788 | 0.14 | 4325787 | 0.11 | 5175321 | 0.11 | 19.64 |
| Manganese & alloys (incl. waste & scrap) | 4778617 | 0.14 | 6878791 | 0.17 | 7676645 | 0.16 | 11.60 |
| Magnesium & scrap | 3938053 | 0.12 | 3828672 | 0.09 | 5141750 | 0.11 | 34.30 |
| Titanium & alloys (incl. waste & scrap) | 2914908 | 0.09 | 4466985 | 0.11 | 7031699 | 0.15 | 57.41 |
| Cobalt & alloys (incl. waste and scrap) | 1972142 | 0.06 | 3423423 | 0.08 | 4763696 | 0.10 | 39.15 |
| Tungsten and alloys incl. scrap | 1558901 | 0.05 | 1718857 | 0.04 | 1726276 | 0.04 | 0.43 |
| Cadmium (Incl. waste & scrap) | 446608 | 0.01 | 800457 | 0.02 | 1742740 | 0.04 | 117.72 |
| Molybdenum & Scrap | 1104070 | 0.03 | 1197142 | 0.03 | 1698724 | 0.04 | 41.90 |
| Other metals & alloys | 2886810 | 0.09 | 4158312 | 0.10 | 6318698 | 0.13 | 51.95 |

Source: DGCI&S, Kolkata.

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Value of Metals & Alloy Imports, 2017-18 and 2018-19



FOREIGN TRADE

**Table-13 : Value of Imports of Metals and Alloys, 2016-17 to 2018-19
(By Principal Countries)**

| Country | 2016-17 | | 2017-18 | | 2018-19 (P) | | % increase (+) or decrease (-) in 2018-19 over 2017-18 |
|-----------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|--|
| | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | |
| All Countries | 3377884210 | 100 | 4118255871 | 100 | 4778433032 | 100 | 16.03 |
| Switzerland | 1041952418 | 30.85 | 1114508186 | 27.06 | 1090727134 | 22.83 | -2.13 |
| UAE | 306072572 | 9.06 | 336952006 | 8.18 | 342508390 | 7.17 | 1.65 |
| China | 275970880 | 8.17 | 307808170 | 7.47 | 366989177 | 7.68 | 19.23 |
| Korea, Rep. of | 174512992 | 5.17 | 226904244 | 5.51 | 279781283 | 5.86 | 23.30 |
| USA | 163599377 | 4.84 | 214799810 | 5.22 | 288016627 | 6.03 | 34.09 |
| South Africa | 141320669 | 4.18 | 113302141 | 2.75 | 128046778 | 2.68 | 13.01 |
| Ghana | 119917978 | 3.55 | 156949049 | 3.81 | 213179651 | 4.46 | 35.83 |
| Japan | 98460299 | 2.91 | 116373178 | 2.83 | 166052256 | 3.48 | 42.69 |
| Malaysia | 73701487 | 2.18 | 93012040 | 2.26 | 115338848 | 2.41 | 24.00 |
| UK | 63452418 | 1.88 | 101111507 | 2.46 | 215555186 | 4.51 | 113.19 |
| Germany | 59478972 | 1.76 | 64011816 | 1.55 | 74836629 | 1.57 | 16.91 |
| Hong Kong | 57804392 | 1.71 | 142925738 | 3.47 | 138065293 | 2.89 | -3.40 |
| Australia | 47377869 | 1.40 | 79241938 | 1.92 | 75820396 | 1.59 | -4.32 |
| Zambia | 44825047 | 1.33 | 57817173 | 1.40 | 29876802 | 0.63 | -48.33 |
| Dominican Rep. | 43804644 | 1.30 | 40828915 | 0.99 | 39177621 | 0.82 | -4.04 |
| Russia | 42126962 | 1.25 | 48331622 | 1.17 | 40707029 | 0.85 | -15.78 |
| Peru | 40288501 | 1.19 | 115155145 | 2.80 | 154326612 | 3.23 | 34.02 |
| Indonesia | 40099060 | 1.19 | 57134086 | 1.39 | 57631635 | 1.21 | 0.87 |
| Thailand | 36752846 | 1.09 | 42039242 | 1.02 | 69552077 | 1.46 | 65.45 |
| Canada | 32835426 | 0.97 | 14638840 | 0.36 | 16741185 | 0.35 | 14.36 |
| Vietnam | 27061474 | 0.80 | 61310779 | 1.49 | 70683743 | 1.48 | 15.29 |
| Singapore | 26591488 | 0.79 | 32257202 | 0.78 | 84318118 | 1.76 | 161.39 |
| Saudi Arabia | 26216744 | 0.78 | 32911112 | 0.80 | 34973755 | 0.73 | 6.27 |
| Tanzania | 21989326 | 0.65 | 39058739 | 0.95 | 50476249 | 1.06 | 29.23 |
| Italy | 21646560 | 0.64 | 22542003 | 0.55 | 31991085 | 0.67 | 41.92 |
| Brazil | 20686815 | 0.61 | 33801962 | 0.82 | 47147056 | 0.99 | 39.48 |
| Chinese Taipei/Taiwan | 17948279 | 0.53 | 23317705 | 0.57 | 28076439 | 0.59 | 20.41 |
| Netherlands | 17364686 | 0.51 | 25217673 | 0.61 | 47653367 | 1.00 | 88.97 |
| Colombia | 16105347 | 0.48 | 21286568 | 0.52 | 27590656 | 0.58 | 29.62 |
| Belgium | 14386302 | 0.43 | 14929181 | 0.36 | 29391731 | 0.62 | 96.87 |
| Burkina Faso | 13765881 | 0.41 | 34642357 | 0.84 | 56342242 | 1.18 | 62.64 |
| Oman | 13353271 | 0.40 | 6902970 | 0.17 | 6139486 | 0.13 | -11.06 |
| Turkey | 12356601 | 0.37 | 10359063 | 0.25 | 10886249 | 0.23 | 5.09 |

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Table-13 (Concl'd)

| Country | 2016-17 | | 2017-18 | | 2018-19 (P) | | % increase (+) or decrease (-) in 2018-19 over 2017-18 |
|-----------------|---------------|------------------------|---------------|------------------------|---------------|------------------------|--|
| | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | Value (₹'000) | % share in total value | |
| Austria | 11487681 | 0.34 | 5094437 | 0.12 | 5201448 | 0.11 | 2.10 |
| Bolivia | 11466681 | 0.34 | 42793251 | 1.04 | 59668343 | 1.25 | 39.43 |
| Bahrain | 10486437 | 0.31 | 12176455 | 0.30 | 11597367 | 0.24 | -4.76 |
| Mexico | 10209401 | 0.30 | 4498556 | 0.11 | 5782994 | 0.12 | 28.55 |
| Sweden | 9355856 | 0.28 | 11523937 | 0.28 | 16144245 | 0.34 | 40.09 |
| Guinea | 9117077 | 0.27 | 27077060 | 0.66 | 21179473 | 0.44 | -21.78 |
| France | 21027926 | 0.62 | 21343603 | 0.52 | 20372206 | 0.43 | -4.55 |
| Spain | 9042930 | 0.27 | 10025657 | 0.24 | 9735261 | 0.20 | -2.90 |
| Qatar | 8128025 | 0.24 | 11864084 | 0.29 | 13979084 | 0.29 | 17.83 |
| Poland | 7761889 | 0.23 | 5264822 | 0.13 | 5293410 | 0.11 | 0.54 |
| Cote D' Ivoire | 5037341 | 0.13 | 7584872 | 0.22 | 7935603 | 0.19 | 2028.40 |
| Norway | 6880150 | 0.20 | 9046915 | 0.22 | 8793979 | 0.18 | -2.80 |
| Ukraine | 3364410 | 0.10 | 3576903 | 0.09 | 7431309 | 0.16 | 107.76 |
| Bhutan | 5846399 | 0.17 | 8368637 | 0.20 | 11068697 | 0.23 | 32.26 |
| Philippines | 5106569 | 0.15 | 10094067 | 0.25 | 8515426 | 0.18 | -15.64 |
| Kuwait | 4628172 | 0.14 | 7455573 | 0.18 | 10578161 | 0.22 | 41.88 |
| Uzbekistan | 273705 | 0.01 | 4710413 | 0.11 | 8551710 | 0.18 | 81.55 |
| Israel | 2577050 | 0.08 | 4596312 | 0.11 | 5294546 | 0.11 | 15.19 |
| Bangladesh | 3958654 | 0.12 | 5596217 | 0.14 | 4879424 | 0.10 | -12.81 |
| Chile | 2074425 | 0.06 | 2433623 | 0.06 | 7355642 | 0.15 | 202.25 |
| Nepal | 4136650 | 0.12 | 3915314 | 0.10 | 5412949 | 0.11 | 38.25 |
| Kazakhstan | 2909031 | 0.09 | 2997107 | 0.07 | 5332347 | 0.11 | 77.92 |
| Sri Lanka | 2618854 | 0.08 | 3896362 | 0.09 | 5312999 | 0.11 | 36.36 |
| Finland | 4475897 | 0.13 | 4367784 | 0.11 | 5102747 | 0.11 | 16.83 |
| Togo | 2291098 | 0.07 | 3911578 | 0.09 | 5063456 | 0.11 | 29.45 |
| Other countries | 64767123 | 1.92 | 88881289 | 2.16 | 74442921 | 1.56 | -16.24 |

Source: DGCI & S, Kolkata.

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Table- 14 : Imports of Selected Mineral-Based Products, 2016-17 to 2018-19

(Value in ₹ '000)

| Mineral-based Product | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|---|-------------|-----------|------------------|-----------|-------------------|-------------|-------------------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| All Items | | ** | 951538480 | ** | 1157374420 | ** | 1458643230 |
| Aluminium fluoride | tonne | 46564 | 2643713 | 49758 | 2907545 | 62374 | 5607484 |
| Asbestos cement products | tonne | 28417 | 526153 | 29031 | 535897 | 29358 | 592294 |
| Asbestos fibre products | tonne | 5227 | 2711356 | 4477 | 2994153 | 4425 | 3605942 |
| Bleaching powder | tonne | — | — | 1 | 362 | 29 | 4574 |
| Boric acid | tonne | 20531 | 897346 | 7413 | 304861 | 6535 | 284859 |
| Briquettes of coke, semi-coke of coal | tonne | 296 | 5915 | 1 | 237 | 1 | 1440 |
| Calcium carbide | tonne | 55692 | 2365222 | 55651 | 2394099 | 45321 | 2155385 |
| Caustic soda | tonne | 425735 | 11237081 | 421298 | 15338168 | 208267 | 7992697 |
| Cement : Total | tonne | 2037599 | 8531909 | 2618049 | 10412284 | 2261590 | 9834409 |
| Cement (others) | tonne | 149285 | 1251499 | 305907 | 2024154 | 226890 | 1812970 |
| Cement (portland grey) | tonne | 1552088 | 6057381 | 1390672 | 5529313 | 1195645 | 4882590 |
| Cement (portland white) | tonne | 11413 | 97395 | 72149 | 321795 | 62643 | 500255 |
| Cement clinker | tonne | 324813 | 1125635 | 849321 | 2537022 | 776413 | 2638595 |
| Cryolite and chiolite | tonne | 29794 | 447618 | 8293 | 240861 | 1898 | 117503 |
| Graphite (artificial) | tonne | 43767 | 4137126 | 67222 | 6250256 | 68288 | 6739304 |
| Graphite bricks & shapes | tonne | 44 | 17164 | 811 | 86383 | 9 | 10434 |
| Graphite crucibles | tonne | 70 | 2004 | 25 | 4023 | 79 | 10195 |
| Hydrofluoric acid | tonne | 313 | 26498 | 248 | 30825 | 391 | 42198 |
| Manganese oxide: Total | tonne | 19502 | 1081331 | 14663 | 1073811 | 23977 | 1445933 |
| Manganese dioxide | tonne | 9572 | 760079 | 7761 | 771226 | 9164 | 892943 |
| Manganese oxides (other than manganese dioxide) | tonne | 9931 | 321253 | 6902 | 302585 | 14813 | 552990 |
| Petroleum products: Total | '000 tonnes | 36287 | 715660000 | 35461 | 883740000 | 33348 | 1136650000 |
| Non-ferrous ash & residues | tonne | 51437 | 3510049 | 74355 | 3673001 | 63485 | 3951391 |
| Other refractory manufactures | tonne | 22502 | 2930471 | 164609 | 3449268 | 19065 | 4846565 |
| Phosphoric acid | tonne | 2490985 | 98873275 | 2961668 | 111954690 | 2773556 | 147391854 |
| Phosphorus (elemental) | tonne | 28356 | 5285023 | 30640 | 5407470 | 40080 | 7954161 |

(Contd)

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Table-14 (Concl'd)

(Value in ₹ '000)

| Mineral-based Product | Unit | 2016-17 | | 2017-18 | | 2018-19 (P) | |
|--|-------|----------|----------|----------|----------|-------------|----------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Potash fertiliser | tonne | 4185125 | 69662646 | 5114248 | 78745036 | 4576732 | 86989503 |
| Potassium nitrate | tonne | 345 | 30158 | 108 | 9520 | 92 | 11722 |
| Refractory bricks | tonne | 137080 | 7267766 | 187359 | 12163026 | 191664 | 12911024 |
| Silicon carbide crucibles | tonne | 160 | 10430 | 125 | 21681 | 48 | 8627 |
| Slag (dross, etc. from iron & steel exc. granulated) | tonne | 113818 | 496506 | 171471 | 1026483 | 136421 | 1131820 |
| Soda ash | tonne | 695308 | 10249030 | 772622 | 11175651 | 840591 | 14490003 |
| Sodium nitrate | tonne | 925 | 24558 | 211 | 7604 | 350 | 17377 |
| Sodium nitrite | tonne | 15492 | 483374 | 21163 | 829329 | 18572 | 812045 |
| Sulphur (sublimed precipitated & colloidal): Total | tonne | 250 | 38254 | 467 | 56993 | 161 | 25154 |
| Sulphur (colloidal) | tonne | 66 | 9533 | 83 | 11122 | 61 | 10959 |
| Sulphur precipitated | tonne | 142 | 23568 | 47 | 6791 | 27 | 3908 |
| Sulphur sublimed | tonne | 42 | 5154 | 337 | 39080 | 73 | 10287 |
| Titanium oxide & dioxide: Total | tonne | 14181 | 2380146 | 13786 | 2520426 | 14649 | 2907346 |
| Titanium oxides | tonne | 280 | 85863 | 84 | 43348 | 104 | 38711 |
| Titanium dioxide | tonne | 13901 | 2294283 | 13701 | 2477078 | 14546 | 2868635 |
| Phosphatic Fertilisers | tonne | 106 | 6356 | 123 | 20477 | 2559 | 99988 |

Source: 1) DGCI & S, Kolkata

2) Indian Petroleum & Natural Gas Statistics published by Ministry of Petroleum & Natural Gas