

FOREIGN TRADE



Indian Minerals Yearbook 2016

(Part-I : General Reviews)



55th Edition

FOREIGN TRADE

(FINAL RELEASE)

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

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10 Foreign Trade

EXPORTS

Ores & Minerals

During the year 2015-16, the value of exports (including re-exports) of ores and minerals at ₹1,70,946 crore accounted for about 10% of the total value of all merchandise exported from India. The export value declined from ₹ 1,94,784 crore in 2013-14 to ₹ 1,78,019 crore in 2014-15 and then continued to decline from ₹ 1,78,019 crore in 2014-15 to ₹ 1,70,946 crore in 2015-16. The value of mineral exports showed a decrease of 3.97% in 2015-16 as compared to that in the previous year.

Diamond (total) continued to be the largest constituent item with a share of 83.50% in the total value of mineral exports in 2015-16. Next in order of share was granite with a contribution of 5.42% followed by alumina 1.51%, bauxite 1.14% and emerald (cut & uncut) 1.05 percent. 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 percent.

The value of exports showed a mixed trend for most of the minerals in 2015-16 as compared to that in the previous year. A significant increase was also noticed in some cases namely, chromite 99.33%, barytes 44%, bauxite 38.98%, sulphur (excluding sublimed precipitated & colloidal) 38.85%, talc/soapstone/steatite 25.65%, coal (excluding lignite) 25.04%, bentonite 20.37%, sandstone 19.23%, kaolin 17.40% and emerald (cut & uncut) 12.13 percent. On the other hand, the export value, however, had recorded a decline in case of iron ore 59.79%, natural gas 22.51%, feldspar (natural) 22.37%, alumina 21.47 %, titanium ores & concentrates

7.45% and granite 5.70 percent as compared to that in the previous year.

Ores and minerals were exported to 189 countries in 2015-16 as against 205 countries in 2014-15 (including country item “unspecified” in both the years). About ninety percent of the total value of exports of ores and minerals was confined to only ten countries. Out of these, exports to only four countries accounted for 75% of the total value of exports during the year. During 2015-16, Hong Kong occupied the top position in terms of value accounting for 31.17% of the total value of mineral exports, USA was in the second place and contributed 26.67 % followed by UAE 9.29%, Belgium 8.71%, China 5.05% , Israel 3.88% and Thailand 2.39 percent. The individual share of remaining countries was less than two percent.

Country-wise analysis of value of minerals exports shows that exports of minerals have increased significantly to Iraq 76.22%, Ukraine 67.58%, Vietnam 54.80%, Indonesia 54.24%, Singapore 54.16% and Maldives 52.82%. The increase in value of mineral exports to other countries was Jordan 52.11%, Saudi Arabia 35.09%, Egypt 34.89%, Algeria 25.78%, Bangladesh 20.03%, Ireland 17.06%, Bhutan 15.88% and Spain 12.74 percent as compared to previous year. However, value of export of ores & minerals declined by 51.35% for Libya , 50.07% for Korea, Rep. of, 39.10% for Iran, 38.83% for Japan, 22.71% for Turkey, 20.45% for Russia, 19.14% for Italy, 16.64% for Poland, 13.61% for Malaysia, 13.15% for Pakistan, 11.83% for Sri Lanka, 11.77% for South Africa, 9.54% for Belgium, 9.20% for UAE and 8.96% for Israel as compared to that of previous year (Tables - 1 to 3).

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Table – 1: Exports of Ores and Minerals (including re-exports), 2013-14 to 2015-16

(Value in ₹'000)

Mineral	Unit	2013-14		2014-15		2015-16 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
All Minerals		* 1947835200		* 1780194116		* 1709463270	
Abrasive (natural)	tonne	16023	242884	31901	516071	4477	59894
Alabaster	tonne	-	-	21	140	-	-
Alumina	tonne	1294651	25423465	1583590	32974205	1368526	25895763
Andalusite	tonne	5	244	4	127	-	-
Antimony ores & conc.	tonne	++	8	-	-	264	115561
Arsenic sulphide (natural)	tonne	-	-	-	-	15	98
Asbestos: Total	tonne	96	487	393	12026	524	23587
Asbestos (chrysotile)	tonne	22	221	248	11511	306	22919
Asbestos (others)	tonne	74	266	145	515	218	668
Ball clay	tonne	35694	158847	57557	194269	61536	148435
Barytes	tonne	1067755	8699416	651571	4525674	743407	6517077
Bauxite	tonne	3492546	6736456	6808588	14050662	8914624	19527405
Bentonite	tonne	1225568	3860451	1300083	3999734	1572469	4814345
Borax: Total	tonne	1623	125007	2655	164699	1724	124646
Natural borate	tonne	310	6076	102	1026	141	1513
Sodium borate	tonne	805	41232	2114	95148	1135	51517
Other Borates	tonne	508	77699	439	68525	448	71616
Building and monumental Stones NES	tonne	1686357	6268602	6127052	7786183	5133276	8489454
Calcite	tonne	23222	187542	30768	192309	25198	177978
Chalk	tonne	418	3860	490	2978	481	3816
Chromite: Total	tonne	195125	3468440	25361	659259	71839	1314084
Chrome ore others	tonne	159767	2841305	16364	328552	1867	26218
Chrome ore conc.	tonne	35281	624930	8997	330707	69972	1287852
Chrome ore lumps	tonne	77	2205	—	—	++	14
Clay (others)	tonne	19604	172389	25515	217300	23341	312553
Coal (excluding lignite)	'000 tonnes	2188	10843195	1237	7202914	1576	9006273
Coal lignite	'000 tonnes	1	55575	1	13882	++	2752
Coke	tonne	150636	1478657	98003	1090634	89847	1073159
Coal gas	tonne	9	891	32	7820	1	99
Cobalt ores & conc.	tonne	253	47733	++	4	++	45
Copper ores & conc.	tonne	38912	3349917	1	10	11432	712919
Diamond		* 1581348137		* 1481021701		* 1427340191	
Diamond (mostly cut)	ct	83850627	1580049655	74999043	1480557682	60737949	1426640488
Diamond (industrial)	ct	2121451	126895	4351127	168693	5651009	342213
Diamond powder	'000 ct	13532	1171587	18705	295326	9702	357490
Diatomite	tonne	58265	521672	87845	778088	30597	328270
Dolomite	tonne	32511	125328	44620	156629	85273	155665
Earth clay	tonne	7115	35053	8915	60466	9000	87141
Emerald (cut & uncut):Total		* 21570148		* 15945392		* 17879969	
Emerald (uncut)	tonne	2	242508	3	731854	2	1938487
Emerald (cut)	'000 ct	93300	21327640	142515	15213538	138459	15941482
Felspar (natural)	tonne	437144	2234475	589820	2876166	426172	2232789
Felspar (cut & uncut): Total		* 22694		* 26488		* 41184	
Felspar (uncut)	tonne	++	241	++	841	38	1277
Felspar (cut)	'000 ct	1102	22453	4031	25647	143300	39907
Fire clay	tonne	2100	16879	2503	16318	887	10774
Flint	tonne	2524	18156	484	3991	867	7660
Fluorspar	tonne	876	16549	561	20763	316	11581

(Contd.)

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Table - 1 (Contd.)

(Value in ₹'000)

Mineral	Unit	2013-14		2014-15		2015-16 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Garnet (abrasive)	tonne	480774	6060269	448559	5673827	480408	5950865
Garnet (cut and uncut): Total		*	39395	*	31070	*	25404
Garnet (uncut)	tonne	3	2722	++	2870	++	273
Garnet (cut)	'000 ct	1373	36673	1009	28200	1062	25131
Granite : Total	tonne	6802309	98685772	6563271	98322398	5674568	92720985
Granite (crude or roughly trimmed)	tonne	4622452	34705710	4508446	33917164	3398523	26999331
Granite (cut blocks/slabs)	tonne	587137	4843967	407990	3659898	659991	5966548
Granite (polished blocks/tiles)	tonne	223790	6455623	196656	5226205	153914	4358160
Granite (others)	tonne	1368930	52680472	1450179	55519131	1462140	55396946
Graphite (natural)	tonne	820	112370	2669	86578	286	17071
Gypsum	tonne	48924	109055	65645	158036	110882	291059
Iron ore: Total	'000 tonnes	16302	94811058	7297	31436684	5441	12639631
Iron ore conc: non agglomerated	'000 tonnes	163	323083	70	312791	++	8031
Iron ore fines	'000 tonnes	13261	71549670	5807	22120939	4635	8763002
Iron ore lumps	'000 tonnes	1162	7618830	662	2559524	112	185059
Iron ore pellets	'000 tonnes	1713	15316357	758	6434851	694	3675793
Iron ore pyrites	'000 tonnes	3	3118	++	8579	++	7746
Kaolin	tonne	276165	1053487	258330	941752	304702	1105589
Kieselguhr	tonne	196	2984	137	2494	90	1901
Kyanite	tonne	52	1174	39	505	144	2703
Lead ores & conc.	tonne	7	201	509	22298	++	216
Limestone	tonne	2779074	3432311	3812759	4671971	3236010	4694273
Magnesite : Total	tonne	6118	127502	6612	120898	6204	124464
Magnesia (fused)	tonne	389	15297	565	22180	708	28794
Magnesite (not calcined)	tonne	172	6437	123	5340	789	14603
Magnesite (calcined)	tonne	9	455	1	48	-	-
Magnesite dead-burnt magnesia	tonne	8	407	114	2923	37	1322
Magnesium oxide	tonne	2083	46279	1251	32690	1268	38214
Magnesite (other)	tonne	3457	58627	4558	57717	3402	41531
Manganese ore: Total	tonne	66030	189342	11026	65399	444	18946
Manganese ore (46% or more Mn)	tonne	20	1102	-	-	93	317
Manganese ore (Ferruginous, 10% or more but below 30%)	tonne	10	31	-	-	-	-
Manganese ore (others)	tonne	66000	188209	11026	65399	351	18629
Marble : Total	tonne	337937	5703435	325707	5990617	289853	5998401
Marble (dressed)	tonne	231149	2916976	209956	2809953	181895	2472917
Marble (others)	tonne	106788	2786459	115751	3180664	107958	3525484
Mica: Total	tonne	127882	3759755	141100	4263736	135805	4229711
Mica (unmanufactured): Total	tonne	127233	3058559	140450	3421154	135085	3444185
Mica (blocks)	tonne	2055	181694	2178	200401	1879	199919
Mica (splittings)	tonne	4269	192636	10730	340648	11611	295740
Mica (powder)	tonne	80946	1781538	90312	2023889	89716	2250836
Mica (condenser films)	tonne	97	22446	1	3494	-	-
Mica (waste & scrap)	tonne	39866	880245	37229	852722	31879	697690
Mica (worked): Total	tonne	649	701196	650	842582	720	785526
Mica (cond. films, plates, cuts NES)	tonne	1	9777	1	12193	8	26632
Mica (washers & discs)	tonne	65	118451	81	153514	15	45577
Mica (sheets & strips)	tonne	72	84532	58	75599	49	85073
Micanite & other built-up mica	tonne	5	6660	15	6072	++	1285
Mica worked (others)	tonne	506	481776	495	595204	648	626959
Molybdenum ores & conc.	tonne	351	324538	24	17801	45	2199
Niobium or tantalum ores & conc.	tonne	25	31537	24	24238	-	-
Natural gas	tonne	4922	282766	138168	4901801	126951	3798602
Nickel ores & conc.	tonne	32	541	41	1452	125	11511

(Contd.)

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Table - 1 (Concl'd.)

(Value in ₹'000)

Mineral	Unit	2013-14		2014-15		2015-16 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Ochre: Total	tonne	3550	72785	4034	92570	3633	75048
Ochre: earth colours	tonne	1618	26594	1761	24363	1760	23550
Ochre (persian red)	tonne	++	13	++	62	-	-
Ochre (red oxide)	tonne	1401	34079	1901	56730	1385	37452
Ochre:yellow ochre	tonne	531	12099	372	11415	488	14046
Precious & semi-precious stones							
(cut & uncut):Total		*	16965361	*	12993424	*	12590265
Precious & semi precious stones							
(uncut)	tonne	2335	2873111	1278	1772426	1318	1169575
Precious & semi precious stones (cut)	'000 ct	377994	14092250	1869867	11220998	3672035	11420690
Precious metal ores & concentrates	kg	36361	181906	10000	24	144051	3167
Quartz and quartzite: Total	tonne	308409	2233315	410497	2938736	388192	3025916
Quartz (natural)	tonne	238930	1394538	337231	2090204	301226	2023649
Quartzite (natural)	tonne	69479	838777	73266	848532	86966	1002267
Rock phosphate	tonne	948	7005	437	2916	14242	69096
Salt (other than common salt)	tonne	4956931	6562929	4776491	6390687	5926639	6701178
Sand (excl. metal bearing)	tonne	5444	369627	10751	342836	14476	491908
Sandstone	tonne	540874	7579286	627008	8523123	744657	10161784
Silica sand	tonne	4497	33142	1216	9802	709	6727
Sillimanite	tonne	28152	148779	17304	141262	15078	110846
Slate : Total	tonne	86090	1688206	100447	1867164	97591	1927308
Slate (worked)	tonne	16106	541699	23922	659827	20461	703194
Slate (others)	tonne	69984	1146507	76525	1207337	77130	1224114
Talc/Steatite/Soapstone : Total	tonne	149343	2028614	158405	2156562	187287	2709697
Steatite blocks	tonne	2585	22406	1056	19327	2621	33769
Steatite lumps	tonne	9351	104043	7926	96594	12736	222370
Steatite powder & others	tonne	137407	1902165	149423	2040641	171930	2453558
Sulphur (exc. sublimed precipitated & colloidal)	tonne	577695	3949918	397399	3714082	628164	5157083
Tin ores & conc.	tonne	8	1125	-	-	++	14
Titanium ores & conc.: Total	tonne	687923	10412481	779598	7179648	790489	6644934
Titanium ores & conc.(Ilmenite)	tonne	686264	8731824	775192	6956324	783656	6302006
Titanium ores & conc.(Rutile)	tonne	1619	1678038	4332	217945	6722	336088
Titanium ores & conc.(Others)	tonne	40	2619	74	5379	111	6840
Tungsten ores & conc.	tonne	323	64205	175	29666	1	391
Vanadium ores & conc.	tonne	2	7386	-	-	-	-
Vermiculite	tonne	737	8706	1044	9906	528	6402
Witherite	tonne	6	79	10	526	++	241
Wollastonite	tonne	19033	310240	17864	288087	16616	279263
Zinc ores & conc.	tonne	45660	1620063	41	744	558	11345
Zirconium ores & conc.	tonne	18036	648740	12230	488129	4859	241901
Other Minerals NES	tonne	855864	1180653	1768058	1773765	1362345	1200058

Source: DGCI & S, Kolkata

* : Quantity not given due to partial coverage, value figures however have full coverage.

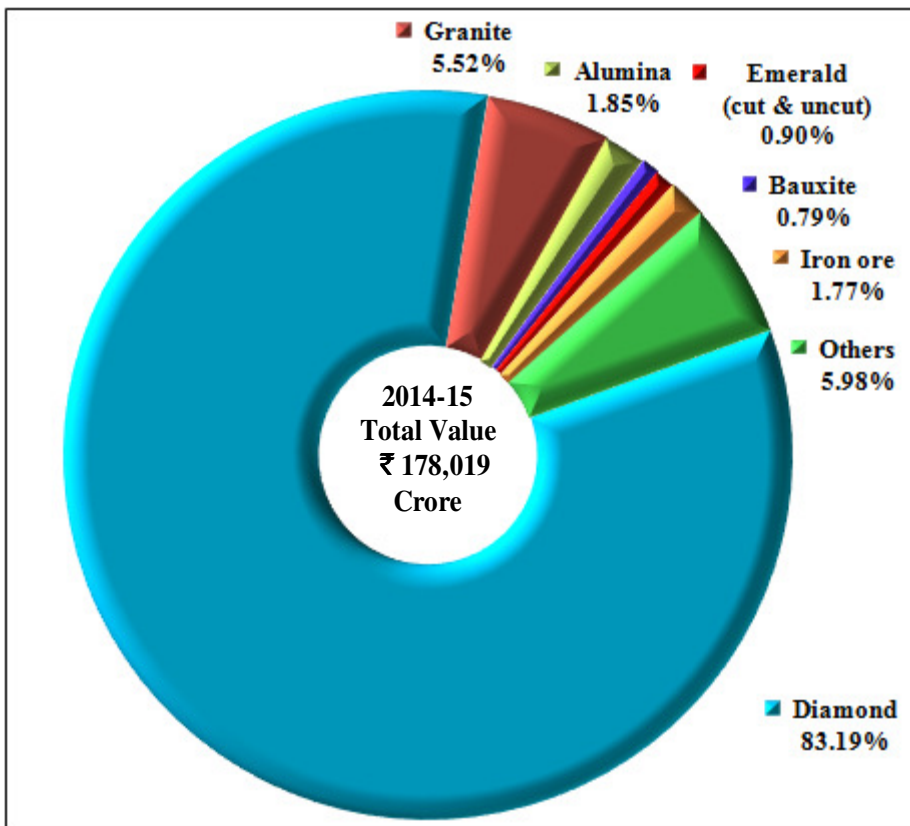
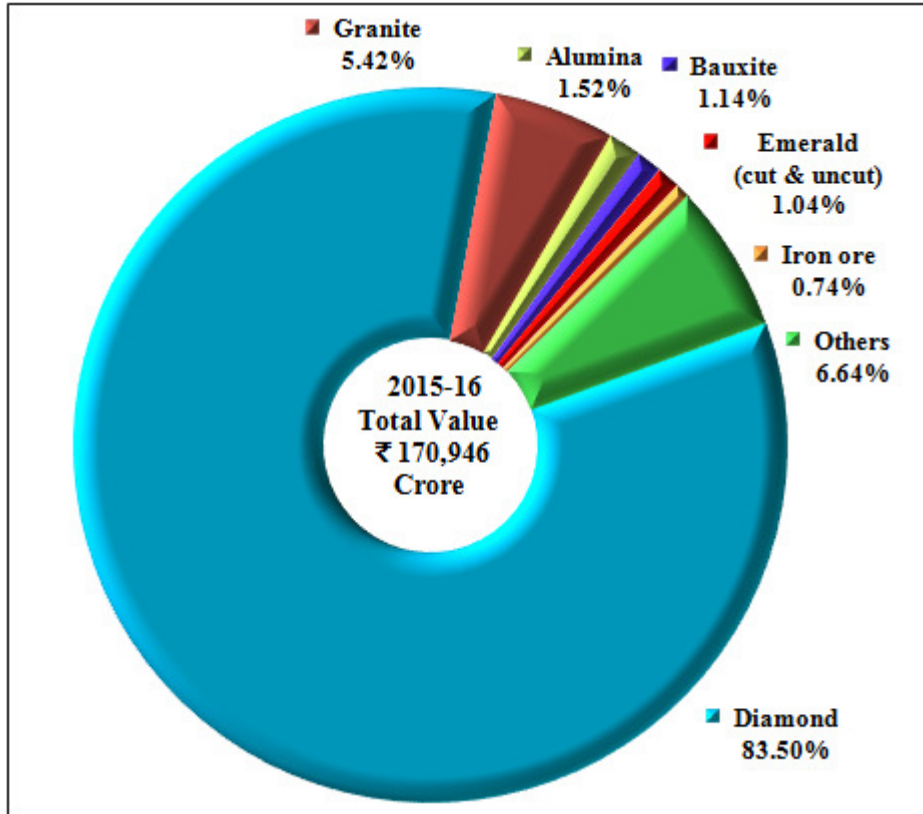
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**Table – 2 : Value of Exports of Ores & Minerals (including re-exports), 2013-14 to 2015-16
(By Principal Ores & Minerals)**

Ores & Minerals	2013-14		2014-15		2015-16 (P)		% increase (+) or decrease (-) in 2015-16 over 2014-15
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Minerals	1947835200	100	1780194116	100	1709463270	100	-3.97
Diamond	1581348136	81.18	1481021701	83.19	1427340191	83.50	-3.62
Granite	98685772	5.07	98322398	5.52	92720985	5.42	-5.70
Alumina	25423465	1.31	32974205	1.85	25895763	1.51	-21.47
Bauxite	6736457	0.35	14050662	0.79	19527405	1.14	38.98
Emerald (cut & uncut)	21570148	1.11	15945392	0.90	17879969	1.05	12.13
Iron ore	94811058	4.87	31436684	1.77	12639631	0.74	-59.79
Precious & semi-precious stones (cut & uncut):Total	16965362	0.87	12993424	0.73	12590265	0.74	-3.10
Sandstone	7579286	0.39	8523123	0.48	10161784	0.59	19.23
Coal (excluding lignite)	10843197	0.56	7202914	0.40	9006273	0.53	25.04
Building and monumental stones NES	6268602	0.32	7786183	0.44	8489454	0.50	9.03
Salt (other than common salt)	6562929	0.34	6390687	0.36	6701178	0.39	4.86
Titanium ores & conc.	10412481	0.53	7179648	0.40	6644934	0.39	-7.45
Barytes	8699416	0.45	4525674	0.25	6517077	0.38	44.00
Marble	5703435	0.29	5990617	0.34	5998401	0.35	0.13
Garnet (abrasive)	6060269	0.31	5673827	0.32	5950865	0.35	4.88
Sulphur (excluding sublimed precipitated & colloidal)	3949918	0.20	3714082	0.21	5157083	0.30	38.85
Bentonite	3860451	0.20	3999734	0.22	4814345	0.28	20.37
Limestone	3432311	0.18	4671971	0.26	4694273	0.27	0.48
Mica	3759755	0.19	4263736	0.24	4229711	0.25	-0.80
Natural gas	282766	0.01	4901801	0.28	3798602	0.22	-22.51
Quartz and quartzite	2233315	0.11	2938736	0.17	3025916	0.18	2.97
Talc/Steatite/Soapstone	2028614	0.10	2156562	0.12	2709697	0.16	25.65
Felspar (natural)	2234475	0.11	2876166	0.16	2232789	0.13	-22.37
Slate	1688207	0.09	1867164	0.10	1927308	0.11	3.22
Chromite	3468440	0.18	659259	0.04	1314084	0.08	99.33
Kaolin	1053487	0.05	941752	0.05	1105589	0.06	17.40
Coke	1478657	0.08	1090634	0.06	1073159	0.06	-1.60
Other minerals NES	10694791	0.55	6095380	0.34	5316539	0.31	-12.78

Source: DGCI&S, Kolkata.

Value of Mineral Exports, 2014-15 and 2015-16



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**Table – 3 : Value of Exports of Ores & Minerals (including re-exports), 2013-14 to 2015-16
(By Principal Countries)**

Country	2013-14		2014-15		2015-16 (P)		% increase (+) or decrease (-) in 2015-16 over 2014-15
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Countries	1947835200	100	1780194116	100	1709463270	100	-3.97
Hong Kong	578699949	29.71	578323115	32.49	532865307	31.17	-7.86
USA	395931155	20.33	421954969	23.70	455980790	26.67	8.06
UAE	292953569	15.04	174860739	9.82	158770019	9.29	-9.20
Belgium	162821785	8.36	164659511	9.25	148959205	8.71	-9.54
China	142767017	7.33	89687335	5.04	86281415	5.05	-3.80
Israel	80114321	4.11	72853787	4.09	66323391	3.88	-8.96
Thailand	46287302	2.38	41698902	2.34	40895276	2.39	-1.93
UK	16526322	0.85	19545862	1.10	21749745	1.27	11.28
Japan	40770747	2.09	32700899	1.84	20004518	1.17	-38.83
Singapore	15565794	0.80	12493638	0.70	19260031	1.13	54.16
Switzerland	17757686	0.91	13747660	0.77	13522509	0.79	-1.64
Australia	11560891	0.59	11549901	0.65	11851993	0.69	2.62
Bangladesh	12221756	0.63	9493435	0.53	11395342	0.67	20.03
Italy	9046204	0.46	10218857	0.57	8262732	0.48	-19.14
Germany	8577036	0.44	8965733	0.50	8249971	0.48	-7.98
Saudi Arabia	6210392	0.32	5338914	0.30	7212121	0.42	35.09
Nepal	4641619	0.24	6068465	0.34	6222196	0.36	2.53
Canada	6676418	0.34	5245864	0.29	5588036	0.33	6.52
France	4189269	0.22	5211765	0.29	5573664	0.33	6.94
Egypt	4247724	0.22	4128356	0.23	5568672	0.33	34.89
Korea, Rep. of	7968705	0.41	10971166	0.62	5477729	0.32	-50.07
Iran	5122945	0.26	8928364	0.50	5437373	0.32	-39.10
Vietnam	2545337	0.13	3194376	0.18	4944962	0.29	54.80
Turkey	4900696	0.25	6306565	0.35	4874266	0.29	-22.71
South Africa	5564098	0.29	4487334	0.25	3958967	0.23	-11.77
Indonesia	3209544	0.16	2545532	0.14	3926115	0.23	54.24
Chinese Taipei/Taiwan	4086200	0.21	3915202	0.22	3581254	0.21	-8.53
Netherlands	4529289	0.23	3227917	0.18	3317550	0.19	2.78
Malaysia	7123968	0.37	3627689	0.20	3133950	0.18	-13.61
Qatar	1464644	0.08	2436451	0.14	2660962	0.16	9.21
Poland	2422330	0.12	3044087	0.17	2537415	0.15	-16.64
Lebanon	1934762	0.10	1727193	0.10	1841166	0.11	6.60
Kuwait	1833165	0.09	1853373	0.10	1833768	0.11	-1.06
Spain	1367475	0.07	1478906	0.08	1667314	0.10	12.74
Sri Lanka	1118722	0.06	1822441	0.10	1606847	0.09	-11.83
Oman	4364982	0.22	1346532	0.08	1509538	0.09	12.11
Maldives	182366	0.01	913935	0.05	1396673	0.08	52.82
Bhutan	1251771	0.06	1188103	0.07	1376787	0.08	15.88
Algeria	783668	0.04	970189	0.05	1220262	0.07	25.78
New Zealand	1081995	0.06	1073905	0.06	1094923	0.06	1.96
Ireland	764533	0.04	926299	0.05	1084293	0.06	17.06
Iraq	677588	0.03	614825	0.03	1083456	0.06	76.22
Ukraine	329717	0.02	571165	0.03	957160	0.06	67.58
Russia	1508368	0.08	1202726	0.07	956755	0.06	-20.45
Jordan	478039	0.02	605968	0.03	921763	0.05	52.11
Libya	2887441	0.15	1742688	0.10	847898	0.05	-51.35
Pakistan	1062739	0.05	917873	0.05	797214	0.05	-13.15
Other countries	19703157	1.01	19805605	1.11	10879977	0.64	-45.07

Source: DGCI&S, Kolkata.

Metals & Alloys

The value of exports of metals & alloys at L 1,52,913 crore in the year 2015-16 registered a decrease of 8.60% as compared to that of L 1,67,295 crore in the previous year. The contribution of metals & alloys in the total value of India's exports was 8.91% during the year under review.

Iron & steel with a share of 44.30% continued to hold the top position in the value of metals exported from India in 2015-16. Gold (non-monetary & monetary) is at second place and accounted for 21.30% value. Aluminium and alloys including scrap contributed 11.20% and copper & alloys (including brass & bronze) occupied the fourth place with a contribution of 10.58%. The contributions of ferro alloys, zinc & alloys including scrap and nickel & alloys including scrap were 4.73%, 2.25% and 2.10% respectively. While, value of precious metals/metals clad with precious metal stood at 1.92 percent. The individual share of other remaining metals and alloys was less than one percent.

As compared to previous year, the value of exports for different important metals had shown a mixed trend in 2015-16. The export value of gold (non-monetary & monetary) has increased manifold (86.71%) and that of tin and alloys including scrap increased by 61.44%, precious metals/metals clad with precious metals by 16.98% and lead and alloys including scrap by 11.93 percent. The export values of other metals & alloys that have shown significant negative growth are pig & cast iron (including spiegeleisen) (59.90%), nickel and alloys including scrap (41.87%), antimony alloys and scrap (30.49%), ferro alloys (27.62%), tungsten alloys & scrap (23.98%), iron & steel (22.02%), copper & alloys (including brass & bronze) (21.39%) and other metals & alloys 28.49 percent.

India exported metals & alloys to 205 countries (including country item unspecified) in 2015-16 as against 202 countries in the preceding year. Bulk of the metals and alloys having share more than 1% to total value were exported to 22 countries. These countries together accounted for 79% of the total value of exports during 2015-16. UAE with a share of 27.92% occupied top position in 2015-16 followed by USA 9.08%, China 6.05%, Korea, Rep. of 4.55%, Malaysia 3.34%, Nepal 2.63%, Italy 2.45%, Germany 2.32%, Saudi Arabia and Singapore 2.04 percent each. The individual share of Belgium, UK, Iran, Bangladesh, Mexico, Netherlands, Chinese Taipei/Taiwan, Japan, Turkey, Thailand ranged between 1 and 2 percent and less than one percent in respect of the remaining countries.

The increase in value of exports of metals & alloys for Chile was more than double during the year 2015-16. Other countries that have recorded significant increase in value of exports of metals & alloys are Kuwait 71.40%, Oman 48%, UAE 31.97%, Malaysia 27.42%, Iraq 29.68%, Bangladesh 16.62%, Uganda 13.53% and Belgium 12.57 percent.

On the other hand, the value of exports of metals & alloys, however, showed a decline trend for Tanzania 63.58%, Colombia 53.32%, Iran 50.28%, Saudi Arabia 46.97%, Mexico 45.70%, Canada 40.58%, Russia 33.36%, Sri Lanka 33.51%, China 33.09%, Peru 28.32%, Thailand 27.96%, Singapore 23.78%, Italy 23.20%, USA 20.49%, Nigeria 20.38% and other countries 24.66 percent during the year under review (Tables - 4 to 6). Exports of selected mineral-based products during 2013-14 to 2015-16 are furnished in Table - 7.

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Table – 4 : Exports of Metals and Alloys, 2013-14 to 2015-16

(Value in ₹'000)

Metals/Alloys	Unit	2013-14		2014-15		2015-16 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
All Metals & Alloys		*	1531563802	*	1672956951	*	1529126095
Aluminium and alloys incl. scrap	tonne	707217	116253038	1034006	173771032	1153445	171195447
Antimony alloys and scrap	tonne	1864	1063470	2371	1209763	2034	840904
Bismuth & scrap	tonne	++	703	++	2331	2	2751
Boron	tonne	++	53	++	119	++	21
Cadmium (incl. waste & scrap)	tonne	68	4553	74	4545	115	9373
Cement (copper precipitated)	tonne	++	32	++	41	13	7520
Chromium & alloys	tonne	73	77559	94	72047	58	50866
Cobalt & alloys (including waste and scrap): Total	tonne	111	32028	109	124799	80	63277
Cobalt & alloys	tonne	19	12500	102	119533	70	54904
Cobalt & scrap	tonne	92	19528	7	5266	10	8373
Copper & alloy (including brass & bronze): Total	tonne	333082	171115615	462183	205730340	415782	161726798
Brass & bronze	tonne	36064	24295946	37033	28447662	31917	23316754
Brass & bronze (scrap)	tonne	1053	328988	1228	355853	1285	287807
Copper & alloys	tonne	291593	144944444	419833	175408914	379489	137136897
Copper (scrap)	tonne	4274	1477744	4037	1485483	3091	985340
Copper alloys & scrap	tonne	98	68493	52	32428	—	—
Ferro alloys : Total	tonne	1727542	105054411	2169453	99837096	1350224	72257859
Ferro-boron	tonne	4	1314	28	7412	53	10662
Ferro-chrome	tonne	563098	38158023	426245	27051294	449430	27954674
Ferro-charge-chrome	tonne	59	8177	10	2036	1	208
Ferro-cobalt	tonne	-	-	++	2	++	144
Ferro-columbium	tonne	9	20217	6	7001	10	6893
Ferro-manganese	tonne	156931	8986479	748617	12592464	170167	8255070
Ferro-molybdenum	tonne	268	245246	220	69420	140	53666
Ferro-nickel	tonne	++	6	-	-	++	73
Ferro-niobium	tonne	6	10889	11	20047	11	24104
Ferro-phosphorus	tonne	34	3518	38	7640	44	7561
Ferro-selenium	tonne	216	16323	2	116	++	288
Ferro-silicon	tonne	36901	3039446	57084	4749615	29912	2344428
Ferro-titanium	tonne	33	6265	245	68738	120	18249
Ferro-tungsten	tonne	70	263041	12	10141	16	18217
Ferro-vanadium	tonne	83	108974	176	213865	67	55755
Ferro-zirconium	tonne	3	819	1	590	5	2652
Ferro-silico-chrome	tonne	-	-	3	384	-	-
Ferro-silico-magnesium	tonne	13348	1554668	14933	1668030	8527	866310
Ferro-silico-manganese	tonne	930729	51710078	918847	53051405	671904	31326678
Ferro-alloys (others)	tonne	25750	920928	2975	316896	19817	1312227
Gold (non-monetary & monetary): Total	kg	70721	183513035	70796	174423808	135275	325665937
Gold-monetary	kg	-	-	-	-	-	-
Gold-non-monetary: Total	kg	70721	183513035	70796	174423808	135275	325665937
Gold, non-monetary, Other unwrought Forms	kg	70335	182596195	70790	174421703	135272	325660716
Gold, non-monetary: Other Semi-manufactured forms	kg	386	916840	6	2105	3	5221
Gold-clad metals/base metals NES	tonne	-	-	++	2	-	-
Iron & steel : Total	tonne	11959782	833731286	12077670	868623121	9122896	677365320
Iron & steel (finished steel incl. cr sheet)	tonne	5123998	322641749	5204779	327875855	4082395	245248954
Iron & steel (semi-finished steel incl. steel ingot)	tonne	4677636	203432087	4332549	197264636	2671561	119641900
Iron & steel (steel wire)	tonne	127627	18235819	141766	18752335	157443	18119133
Iron & steel (sponge iron)	tonne	166616	4138487	207683	4776601	192823	3215979
Iron & steel (scrap)	tonne	6960	540925	4789	532480	4917	306686
Iron & steel: alloy steel (granules)	tonne	456	40456	1257	73375	330	23543
Iron & steel: alloy steel (powder)	tonne	13	603	78	7509	224	12963
Iron & steel (other finished steel, NES)	tonne	1763329	275039552	2096172	307489015	1975668	286253755
Iron & steel material	tonne	83464	6977821	74318	5703233	29026	2506806
Iron & steel (stainless steel)	tonne	9683	2683787	14279	6148082	8509	2035601

(Contd.)

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Table - 4 (Concl'd.)

(Value in ₹'000)

Metals/Alloys	Unit	2013-14		2014-15		2015-16 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Lead and alloys incl. scrap: Total	tonne	80865	11994067	76289	10617034	89389	11883144
Lead & alloys	tonne	80739	11974740	76173	10599712	89379	11882683
Lead & scrap	tonne	126	19327	116	17322	10	461
Magnesium & scrap	tonne	280	65276	66	30471	169	36842
Manganese & alloys (incl. waste & scrap): Total	tonne	199	100365	134	111364	190	150383
Manganese & alloys:(wrought & unwrought)	tonne	156	91716	114	107093	180	148421
Manganese & alloys NES	tonne	43	8649	20	4271	10	1962
Mercury	tonne	83	270391	8	37675	63	46788
Molybdenum & scrap	tonne	77	161373	55	188842	12	152054
Nickel and alloys incl. scrap: Total	tonne	26459	26246009	46771	55174050	37512	32072432
Nickel & alloys	tonne	26119	26112280	46462	55040521	37197	31951708
Nickel scrap	tonne	340	133729	309	133529	315	120724
Other rare metals NES	tonne	2	17098	++	4203	++	633
Pig & cast iron (incl. spiegeleisen)	tonne	1113219	26350078	650353	15064847	328278	6041511
Platinum alloys & related metals: Total	kg	1357	985444	78	83710	36	21310
Platinum (powder, unwrought & others)	kg	522	935160	42	69061	20	8234
Other metals of platinum group	kg	835	50284	36	14649	16	13076
Platinum - clad base /precious metal	kg	152	524	11	625	10	86
Precious metals / metals clad with precious metals	tonne	531	18900402	581	25052694	1980	29307616
Selenium	tonne	143	440707	124	350157	85	97481
Silicon	tonne	84	17642	260	34175	36	9426
Silver	tonne	31	1127885	5	346251	24	481460
Silver clad base metals	kg	2	42	22375	264220	291	2514
Tantalum & scrap: Total	tonne	3	49216	5	93874	2	42584
Tantalum alloys unwrought	tonne	1	35412	4	71405	1	26982
Tantalum & scrap	tonne	2	13804	1	22469	1	15602
Tellurium	tonne	24	6979	++	93	++	113
Tin & alloys incl. scrap: Total	tonne	4102	5022785	2217	2372272	4199	3829840
Tin & alloys	tonne	3348	4920014	1658	2297858	3652	3754685
Tin & alloys : worked	tonne	751	100840	557	73257	547	74665
Tin (scrap)	tonne	3	1931	2	1157	++	490
Titanium & alloys (incl. waste & scrap)	tonne	118	163435	174	197302	171	195613
Tungsten alloys & scrap	kg	745397	2265367	475385	1574148	313688	1196642
Zinc and alloys incl. scrap: Total	tonne	194976	26530058	246395	37553145	257634	34345671
Zinc & alloys	tonne	194689	26473141	246265	37526431	257590	34339940
Zinc (scrap)	tonne	287	56917	130	26714	44	5731
Zirconium & scrap	tonne	3	2876	8	6755	236	25879

Source: DGCI&S, Kolkata.

* Quantity not given due to partial coverage, value figures, however, have full coverage.

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**Table – 5 : Value of Exports of Metals & Alloys, 2013-14 to 2015-16
(By Principal Metals & Alloys)**

Metal/Alloys	2013-14		2014-15		2015-16 (P)		% increase (+) or decrease (-) in 2015-16 over 2014-15
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Metals & Alloys	1531563802	100	1672956951	100	1529126095	100.03	-8.60
Iron & steel	833731287	54.44	868623121	51.92	677365320	44.30	-22.02
Gold (non-monetary & monetary):Total	183513035	11.98	174423808	10.43	325665937	21.30	86.71
Aluminium and alloys including scrap	116253038	7.59	173771032	10.39	171195447	11.20	-1.48
Copper & alloys (including brass & bronze)	171115616	11.17	205730340	12.30	161726798	10.58	-21.39
Zinc and alloys including scrap	26530057	1.73	37553145	2.24	34345671	2.25	-8.54
Nickel and alloys including scrap	26246009	1.71	55174050	3.30	32072432	2.10	-41.87
Ferro alloys	105054411	6.86	99837096	5.97	72257859	4.73	-27.62
Precious metals/metals clad with precious metals	18900402	1.23	25052694	1.50	29307616	1.92	16.98
Lead and alloys including scrap	11994066	0.78	10617034	0.63	11883144	0.78	11.93
Pig & cast iron (including spiegeleisen)	26350078	1.72	15064847	0.90	6041511	0.40	-59.90
Tin and alloys including scrap	5022784	0.33	2372272	0.14	3829840	0.25	61.44
Tungsten and alloys including scrap	2265367	0.15	1574148	0.09	1196642	0.08	-23.98
Antimony alloys and scrap	1063470	0.07	1209763	0.07	840904	0.05	-30.49
Other metals and alloys	3524182	0.23	1953601	0.12	1396974	0.09	-28.49

Source: DGCI&S, Kolkata.

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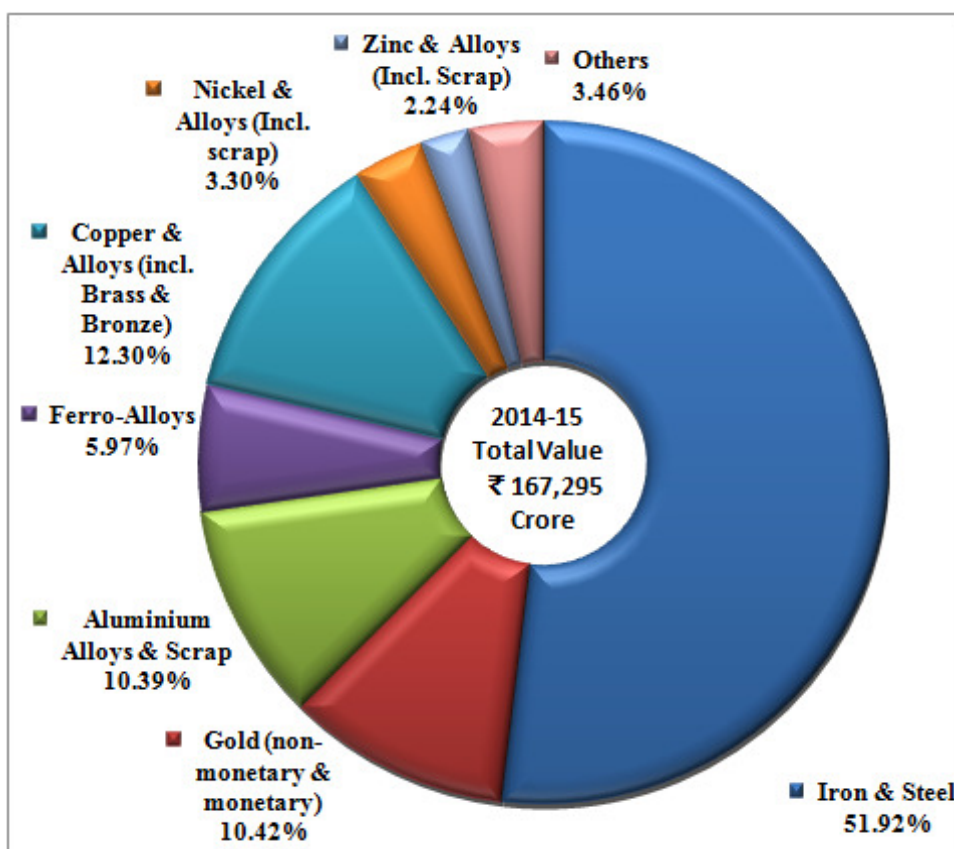
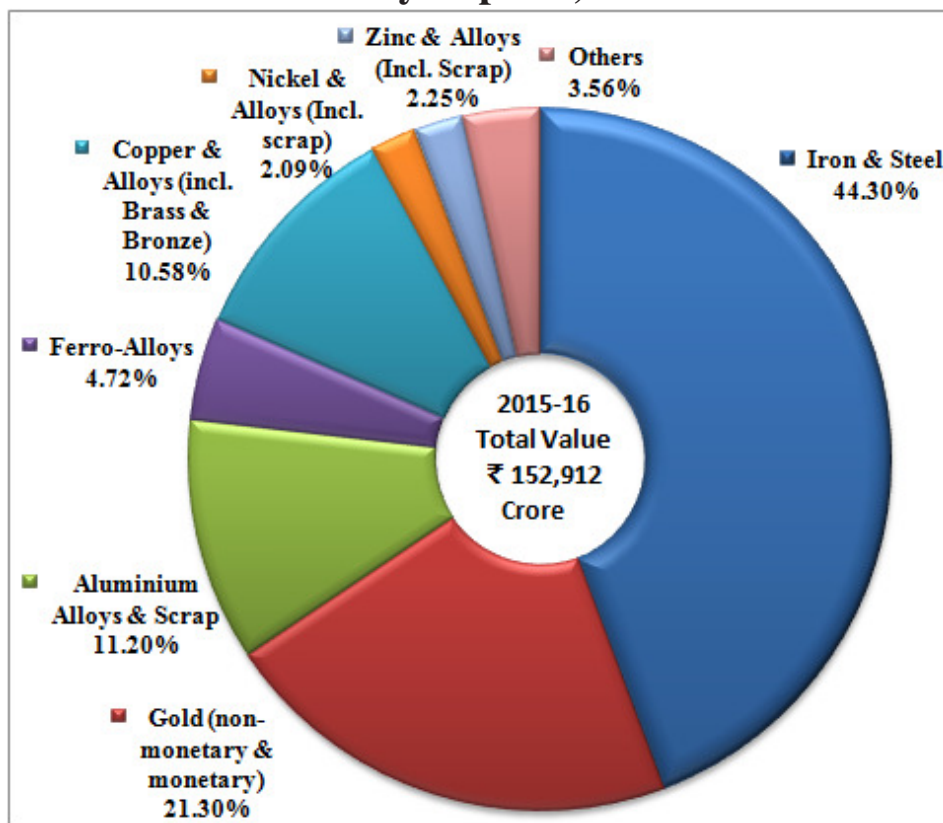
**Table – 6 : Value of Exports of Metals & Alloys, 2013-14 to 2015-16
(By Principal Countries)**

Country	2013-14		2014-15		2015-16 (P)		% increase (+) or decrease (-) in 2015-16 over 2014-15
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Countries	1531563802	100	1672956951	100	1529126095	100	-8.60
UAE	304006934	19.85	323527490	19.34	426956441	27.92	31.97
USA	136367053	8.90	174667448	10.44	138881805	9.08	-20.49
China	151062745	9.86	138358964	8.27	92582323	6.05	-33.09
Korea, Rep.of	59522786	3.89	66245834	3.96	69642395	4.55	5.13
Malaysia	21150747	1.38	40122017	2.40	51125302	3.34	27.42
Nepal	29878045	1.95	40705014	2.43	40282560	2.63	-1.04
Italy	43046586	2.81	48692894	2.91	37396228	2.45	-23.20
Germany	40374910	2.64	43292315	2.59	35427323	2.32	-18.17
Saudi Arabia	40382719	2.64	58848673	3.52	31204929	2.04	-46.97
Singapore	29717466	1.94	40860061	2.44	31142542	2.04	-23.78
Belgium	28164302	1.84	23966919	1.43	26980101	1.76	12.57
UK	36176067	2.36	30790637	1.84	26208725	1.71	-14.88
Iran	21291334	1.39	49731116	2.97	24723830	1.62	-50.28
Bangladesh	20351470	1.33	20904408	1.25	24378437	1.59	16.62
Mexico	30183073	1.97	42891102	2.56	23289101	1.52	-45.70
Netherlands	24200832	1.58	22440744	1.34	22781730	1.49	1.52
Chinese Taipei/Taiwan	26773600	1.75	22827081	1.36	22570469	1.48	-1.12
Japan	23029988	1.50	20577643	1.23	16903894	1.11	-17.85
Turkey	16477433	1.08	20944244	1.25	16678532	1.09	-20.37
Thailand	28758901	1.88	22669234	1.36	16331539	1.07	-27.96
Indonesia	17231889	1.13	18781199	1.12	16250625	1.06	-13.47
Spain	16066517	1.05	18393799	1.10	16231208	1.06	-11.76
Oman	9936982	0.65	8520467	0.51	12610017	0.82	48.00
Canada	16159348	1.06	20558190	1.23	12215894	0.80	-40.58
Iraq	8155994	0.53	9169586	0.55	11890848	0.78	29.68
Brazil	13817689	0.90	13508679	0.81	11257213	0.74	-16.67
Kenya	17552239	1.15	10121904	0.61	11154166	0.73	10.20
France	12112165	0.79	11255039	0.67	10412222	0.68	-7.49
Sri Lanka	15050935	0.98	15471096	0.92	10287219	0.67	-33.51
Peru	3672594	0.24	14102894	0.84	10108433	0.66	-28.32
Ethiopia	9808670	0.64	9838836	0.59	9894327	0.65	0.56
Vietnam	28599445	1.87	11875708	0.71	9560154	0.63	-19.50
Australia	10548409	0.69	10996841	0.66	9314760	0.61	-15.30
South Africa	11683639	0.76	10165144	0.61	9308435	0.61	-8.43
Nigeria	15790711	1.03	11666792	0.70	9289513	0.61	-20.38
Chile	5044950	0.33	2400914	0.14	9071672	0.59	277.84
Qatar	6257554	0.41	7929168	0.47	8581349	0.56	8.23
Poland	6943123	0.45	8057602	0.48	8364060	0.55	3.80
Kuwait	4653339	0.30	4715511	0.28	8082166	0.53	71.40
Egypt	7797876	0.51	8610811	0.51	7896544	0.52	-8.30
Sweden	7059053	0.46	7002841	0.42	6245695	0.41	-10.81
Russia	9539426	0.62	7613674	0.46	5073876	0.33	-33.36
Tanzania	6916711	0.45	12944418	0.77	4714057	0.31	-63.58
Colombia	7178268	0.47	10053475	0.60	4692555	0.31	-53.32
Uganda	3451854	0.23	3917966	0.23	4448113	0.29	13.53
Ghana	7338385	0.48	6188178	0.37	4237087	0.28	-31.53
Bahrain	3159845	0.21	2799987	0.17	3905593	0.26	39.49
Czech Republic	3682877	0.24	3942365	0.24	3593852	0.24	-8.84
Other countries	135436324	8.84	139290029	8.33	104946236	6.86	-24.66

Source: DGCI&S, Kolkata.

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Value of Metals & Alloy Exports, 2014-15 and 2015-16



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Table – 7 : Export of Selected Mineral-based Products, 2013-14 to 2015-16

(Value in ₹'000)

Mineral-based-products	Unit	2013-14		2014-15		2015-16 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
All Item		*	3739548082	*	2938422100	*	1818262765
Aluminium fluoride	tonne	3658	257125	2831	197961	1795	123987
Asbestos cement products	tonne	77129	1245602	161018	2428932	133004	2103472
Asbestos fibre products	tonne	31664	4306102	31471	4139396	31916	4091558
Bleaching powder	tonne	12469	469971	16976	667839	16562	568546
Boric acid	tonne	785	63000	1282	91951	1000	81558
Briquettes of coke , semi-coke of coal	tonne	1426	7774	2317	17065	56372	406605
Calcium carbide	tonne	269	14776	412	22973	371	20636
Caustic soda	tonne	76060	2256827	42199	1197330	82238	2383347
Cement : Total	tonne	5140758	15990899	6287580	18468589	6222434	16588894
Cement (others)	tonne	647008	2306374	689099	2407832	1062661	1480315
Cement (portland grey)	tonne	1987115	6824005	1553248	5151075	2276302	7271078
Cement (portland white)	tonne	80732	640733	71246	536679	34351	241477
Cement clinker	tonne	2425903	6219787	3973987	10373003	2849120	7596024
Cryolite and chiolite	tonne	93	8124	45	4029	38	2621
Graphite (artificial)	tonne	17415	1453521	16852	1620297	17874	1773017
Graphite bricks & shapes	tonne	100	1011	304	3833	219	2774
Graphite crucibles	tonne	85	4745	103	3855	60	2532
Hydrofluoric acid	tonne	1415	101553	2291	162607	2792	161046
Manganese oxide: Total	tonne	15763	692934	16449	642152	21850	805057
Manganese dioxide	tonne	1639	63567	3261	105080	2679	91317
Manganese oxides (other than Mn dioxide)	tonne	14124	629367	13188	537072	19171	713740
Petroleum products: Total [⌞]	'000 tonnes	67864	3682770000	63930	2885790000	60536	1767720000
Light distillates	'000 tonnes	23796	1406250000	23310	1150450000	24128	804160000
Naptha	'000 tonnes	8322	460590000	7008	316190000	7116	200560000
Other distillates	'000 tonnes	15474	945660000	16302	834260000	17012	603600000
Middle distillates	'000 tonnes	32259	1816170000	31100	1406710000	29731	825280000
Heavy ends	'000 tonnes	11809	460350000	9520	328630000	6677	138280000
Non-ferrous ash & residues	tonne	146739	369766	153841	460714	86905	395974
Other refractory manufactured	tonne	68398	4734289	110353	5237698	105845	4992007
Phosphatic fertilisers	tonne	1269	40951	2081	24053	15510	390524
Phosphoric acid	tonne	56711	1105268	4014	110979	14955	412100
Phosphorus (elemental)	tonne	434	371637	360	129957	486	178268
Potash fertilisers	tonne	19753	649845	39052	1122425	26715	986882
Potassium nitrate	tonne	1144	92206	1133	169325	1103	181930
Refractory bricks	tonne	213394	6212776	234488	7377431	191826	8079745
Silicon carbide crucibles	tonne	3240	595567	3478	674749	3415	610770
Slag dross, etc. from iron & steel (exc. granulated)	tonne	1452304	8925121	557644	2976616	271213	945574
Soda ash	tonne	84252	1250574	27720	516632	18664	393743
Sodium nitrate	tonne	102	4005	75	3355	57	2640
Sodium nitrite	tonne	7996	321503	9808	386363	10342	443708
Sulphur sublimed precipitated & colloidal:Total	tonne	14516	1782638	12770	1486491	12506	1116632
Sulphur (colloidal)	tonne	90	4711	39	1047	2890	17643
Sulphur precipitated	tonne	92	1872	155	3645	60	1464
Sulphur sublimed	tonne	14334	1776055	12576	1481799	9556	1097525
Titanium oxide & dioxide: Total	tonne	38206	3447972	37924	2286503	40820	2296618
Titanium dioxide	tonne	9054	1285335	5157	710758	4438	558233
Titanium oxides (other than dioxides)	tonne	29152	2162637	32767	1575745	36382	1738385

Source: DGCI&S, Kolkata.

* Quantity not given due to partial coverage, value figures however have full coverage.

[⌞] Ministry of Petroleum & Natural Gas Basic Statistics.

IMPORTS

Ores and Minerals

The value of imports of ores & minerals in 2015-16 accounted for 29.67% of the total value of all merchandise imported into India. During 2015-16, the total value of imports of ores and minerals at L 7,38,789 crore registered a decline of 31.07% as compared to L 10,71,733 crore in the year 2014-15.

Petroleum (crude) continued to be the largest constituent item with a share of 58.12% in the total value of minerals imported in 2015-16. Next in order of importance was diamond with a share of 14.97% followed by coal (excluding lignite) with the contribution of 11.66%, natural gas 5.93%, copper ores & concentrates 3.56% and emerald (cut & uncut) 1.18 percent. The combined share of these six minerals was 95.42% in 2015-16 as against 96.13% in the previous year.

The import value of some minerals has significantly increased like precious & semi-precious stones (cut & uncut) by 43.10%, emerald (cut & uncut) 38.38%, marble 14.90%, zirconium ores & concentrates 10.81%, alumina 7.91% and limestone 7.38 percent during the year 2015-16 as compared to that in the previous year. However, the value of imports in some cases declined by 51.52% in respect of iron ore followed by 49.77% for manganese ore, 43.29% for molybdenum ores and concentrates, 39.47% for petroleum (crude), 38.62% for precious metals ores & concentrates, 30.11% for bauxite, 26.96% for coke, 22.29% for natural gas during the year under review over the previous year.

During 2015-16, minerals were imported from 147 countries (figures are inclusive of country item “unspecified”). Approximately 97.26% of the total value of imports of ores & minerals was confined to 39 countries. Out of these countries, 19 countries accounted for about 87.45% of the total value of minerals imported in 2015-16. Saudi Arabia occupied the top position in 2015-16 in terms of imports value and accounted for 12.42% of the total mineral imports. Next in the order was Iraq with 9.48% share followed by Nigeria 8.63%, UAE 8.51%, Belgium 5.86%, Qatar 5.39%, Australia 5.32%, Indonesia 5.08%, Venezuela 5.01%, Iran 3.78%, Kuwait 3.17 percent. The individual share of Hong Kong, South Africa, Angola, Chile, Russia, Brazil, Mexico and Malaysia varied between 1 and 2 percent and contribution of USA was less than one percent.

Country-wise analysis of imports of ore and minerals in 2015-16 revealed that imports value from Chad increased manifold. The other countries which recorded significant increase in the value of imports of ores and minerals during the year were Russia 34.04%, Hong Kong 8.66% and Jordan 6.03 percent. However, imports value showed a decline of 84.04% for Netherlands, 81.77% for Colombia, 66.58% for Kuwait, 50.79% for Ecuador, 47.79% for Venezuela, 45.05% for Botswana, 44.60% for Brazil, 43% for Mexico, 42.41% for Malaysia, 35.11% for Angola, 35.02% for Qatar, 34.94% for Iran, 34.28% for Guinea, 33.88% for UAE, 33.48% for Egypt, 33.03% for Saudi Arabia and 31.85 percent for Chile (Tables - 8 to 10).

FOREIGN TRADE

Table – 8 : Imports of Ores and Minerals, 2013-14 to 2015-16

(Value in ₹'000)

Mineral	Unit	2013-14		2014-15		2015-16 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
All Minerals	tonne	*	12158267979	*	10717327996	*	7387889416
Abrasive (natural)	tonne	4312	56954	5775	80934	4943	63748
Alabaster	tonne	877	23975	912	24831	970	24062
Alumina	tonne	1169523	27542194	790305	21244790	998446	22924844
Andalusite	tonne	8738	187621	9350	201731	14072	306082
Antimony ores & conc.	tonne	3464	888707	4711	1004076	5330	924221
Arsenic sulphide (natural)	tonne	8	576	31	2041	5	297
Asbestos: Total	tonne	285870	13298986	396493	17168105	355686	14865511
Asbestos (chrysotile)	tonne	283719	13224308	396258	17159659	354725	14834080
Asbestos (others)	tonne	2151	74678	235	8446	961	31431
Ball clay	tonne	130804	915231	125384	957636	167856	1298485
Barytes	tonne	5687	144378	7484	146614	8433	189198
Bauxite	tonne	421612	3662474	1800689	8560886	1116010	5982901
Bentonite	tonne	6071	201663	11002	316055	15225	353710
Borax: Total	tonne	112775	3551233	146301	4474017	133551	4429452
Natural borate	tonne	44856	1057753	67430	1590619	53973	1413804
Sodium borate	tonne	63425	2204918	75332	2586805	75974	2739108
Other borates	tonne	4494	288562	3539	296593	3604	276540
Building and monumental stones NES	tonne	958905	1147451	759539	1438610	521202	1138893
Calcite	tonne	75863	427442	66450	369703	43812	219917
Chalk	tonne	17172	108515	26734	47715	6174	46310
Chromite: Total	tonne	261336	3099722	242685	2871479	187663	2266406
Chrome ore others	tonne	28606	393387	36135	517956	22981	346341
Chrome ore conc.	tonne	3564	88305	11331	196110	11195	206037
Chrome ore lumps	tonne	229166	2618030	195219	2157413	153487	1714028
Clay (others)	tonne	17016	256640	14347	231877	19485	266435
Coal (excl. lignite)	'000 tonnes	166861	923353960	212106	1045300819	204000	861073457
Coal:lignite	'000 tonnes	0	5629	0	11131	0	5518
Coal gas	tonne	0	306	0	1290	0	75
Cobalt ores & conc.	tonne	16	17358	272	366480	25	44193
Coke	tonne	4167206	67948149	3290324	43751479	3019502	31956111
Copper ores & conc.	tonne	2048240	332267404	1702247	285028249	1886199	262965392
Corundum (natural)	tonne	2	96	-	-	-	-
Diamond: Total		*	1349155094	*	1252140913	*	1105651211
Diamond (industrial)	ct	3135870	6755910	520983	298568	527650	495371
Diamond (mostly cut)	ct	146612350	1341171052	150487349	1250347957	151535456	1103784712
Diamond powder	'000 ct	168540	1228132	351378	1494388	287431	1371128
Diatomite	tonne	6006	186713	2122	87085	2023	87085
Dolomite	tonne	2511602	3736522	2014760	3146097	1931136	2998295
Earth clay	tonne	586	16862	4617	2979	12	850
Emerald (cut & uncut)		*	22328772	*	63062394	*	87263267
Emerald (uncut)	tonne	85	5117924	32	6432925	42	6643105
Emerald (cut)	'000 ct	8714	17210848	65144	56629469	85280	80620162
Felspar (natural)	tonne	42448	212990	66749	242645	25716	177877
Felspar (cut & uncut)		*	12453	*	9639	*	21268
Felspar (uncut)	tonne	2	12422	25	7288	1	14827
Felspar (cut)	'000 ct	0	31	77	2351	399	6441
Fire clay	tonne	146	4473	4	137	393	16839
Flint	tonne	-	-	141	2257	1279	17412
Fluorspar	tonne	117254	2412179	155673	2967071	163113	2908708
Garnet (abrasive)	tonne	626	10542	647	10297	883	11053

(Contd.)

FOREIGN TRADE

Table - 8 (Contd.)

(Value in ₹'000)

Mineral	Unit	2013-14		2014-15		2015-16 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Garnet (cut and uncut)		*	46894	*	68743	*	62629
Garnet (uncut)	tonne	58	45309	33	59753	7	59779
Garnet (cut)	'000 ct	2	1585	210	8990	26	2850
Granite : Total	tonne	71378	2402008	65595	2269307	70288	2474283
Granite (crude or roughly trimmed)	tonne	40563	1299814	44564	1297709	42677	1252862
Granite (cut blocks/slabs)	tonne	7849	200368	6290	210530	14746	371882
Granite (polished blocks/tiles)	tonne	4060	130545	5017	130523	2663	76454
Granite (others)	tonne	18906	771281	9724	630545	10202	773085
Graphite (natural)	tonne	22916	1235588	28552	1335288	26160	1213356
Gypsum & plaster	tonne	3231930	5252011	4421048	6747745	4068412	5713627
Iron ore: Total	'000 tonnes	369	3423552	12093	65947375	7099	31971445
Iron ore conc: non agglomerated	'000 tonnes	11	79147	4939	24964666	2565	11462874
Iron ore fines	'000 tonnes			4837	25280627	2543	10392710
Iron ore lumps	'000 tonnes	59	551355	1657	10498110	1709	8162529
Iron ore pellets	'000 tonnes	297	2748216	656	5151575	279	1907301
Iron ore pyrites	'000 tonnes	2	44834	4	52397	3	46031
Kaolin	tonne	80204	1420872	93322	1662634	118524	1996778
Kieselguhr	tonne	20	717	20	803	0	73
Kyanite	tonne	394	13711	508	17006	478	16913
Lead ores & conc.	tonne	33405	3880931	39441	3846804	5334	264662
Limestone	tonne	13214179	21580366	13943781	22138585	17187164	23772767
Magnesite : Total	tonne	66001	2216905	102077	3327761	118788	3256837
Magnesia (fused)	tonne	6429	263317	5993	245797	10348	430234
Magnesite (not calcined)	tonne	6630	55130	9286	48413	33166	146403
Magnesite (calcined)	tonne	7097	199334	12347	458054	4019	146576
Magnesite:dead-burnt magnesia	tonne	18182	619105	42316	1423690	46306	1589858
Magnesium oxide	tonne	12901	474313	18687	616177	15024	575690
Magnesite (other)	tonne	14762	605706	13448	535630	9925	368076
Manganese ore: Total	tonne	2179334	28306272	3172858	34669120	2216864	17413687
Manganese ore (46% or more Mn)	tonne	677467	10380640	892093	11730476	588896	5376549
Manganese ore (35% or more but below 46% Mn)	tonne	1396939	16778809	2090849	21380159	1385986	10479876
Manganese ore (30% or more but below 35% Mn)	tonne	20726	169297	170570	1426501	199508	1358838
Manganese ore (ferruginous, 10% or more but below 30%)	tonne	12284	97710	19345	129611	27362	120220
Manganese ore (others)	tonne	71918	879816	1	2373	15112	78204
Marble : Total	tonne	757948	22107203	778503	23839858	858061	27392156
Marble (dressed)	tonne	626229	14418612	640645	14860505	715794	17764555
Marble (others)	tonne	131719	7688591	137858	8979353	142267	9627601
Mica: Total	tonne	2049	563468	2240	703135	2471	895588
Mica (unmanufactured)	tonne	883	36515	967	38596	984	56496
Mica (blocks)	tonne	60	3378	3	520	73	3803
Mica (powder)	tonne	209	17024	298	23158	317	27701
Mica (splittings)	tonne	316	8953	597	13218	590	24046
Mica (waste & scrap)	tonne	298	7160	69	1700	4	946
Mica (worked)	tonne	1166	526953	1273	664539	1487	839092
Mica (cond. films, plates, cuts NES)	tonne	14	14620	3	3273	14	4457
Mica (washers & discs)	tonne	17	12756	17	11968	0	98
Mica (sheets & strips)	tonne	239	16770	369	34820	187	21668
Micanite & other built-up mica	tonne					0	1
Mica (bricks)	tonne			0	58		
Mica worked (others)	tonne	896	482807	884	614420	1286	812868

(Contd.)

FOREIGN TRADE

Table - 8 (Concl'd.)

(Value in ₹'000)

Mineral	Unit	2013-14		2014-15		2015-16 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Molybdenum ores & conc.	tonne	5572	5558080	8093	8646302	7511	4903722
Natural gas	tonne	13020689	516992878	13289155	563400559	14376924	437824475
Nickel ores & conc.	tonne	1343	1207103	4185	3842487	3295	2453862
Niobium or tantalum ores & conc.	tonne	61	163720	115	179733	191	246581
Ochre: Total	tonne	282	30443	176	25953	135	33920
Ochre: earth colours	tonne	32	2343	37	1823	48	3860
Ochre: yellow ochre	tonne	18	5732	18	5211	7	4877
Ochre: persian red	tonne	0	272	0	96	2	1840
Ochre: red oxide	tonne	232	22096	121	18823	78	23343
Petroleum (crude)	'000 tonnes	189176	8696574352	187913	7093793565	202314	4293999334
Precious & semi-precious stones (cut & uncut): Total		*	12574990	*	14675049	*	21000375
Precious & semi stones (uncut)	tonne	2722	8225057	1440	11430258	733	18329978
Precious & semi precious stones cut	'000 ct	6862	4349933	119716	3244791	49389	2670397
Precious metal ores & concentrates	kg	179	106977	101602	22252599	78654	13658294
Quartz & quartzite: Total	tonne	377	10924	215	10403	1224	43801
Quartz (natural)	tonne	337	8297	31	2010	1027	33657
Quartzite (natural)	tonne	40	2627	184	8393	197	10144
Rock phosphate	tonne	7160798	55177899	8273261	61888711	8037745	65290421
Salt (other than common salt)	tonne	35591	120999	41300	113604	55642	173742
Sand (excl. metal bearing)	tonne	15688	61432	58237	98437	165150	375079
Sandstone	tonne			0	18	26	3101
Silica sand	tonne	97526	938842	76529	556336	18788	226225
Sillimanite	tonne	110	14307	116	10754	214	9043
Slate	tonne	850	23951	472	16814	134	11295
Steatite : Total	tonne	2935	129217	3693	130505	4533	198579
Steatite lumps	tonne	69	1020	908	7135	55	779
Steatite powder & others	tonne	2866	128197	2785	123370	4478	197800
Sulphur (excl. sublimed precipitated & colloidal)	tonne	1289979	11002926	1626407	17445433	1432632	14172608
Tin ores & conc.	tonne	1	380			82	58039
Titanium ores & conc.: Total	tonne	91775	1933433	51991	971521	106422	1637171
Titanium ores and conc. (ilmenite)	tonne	79276	1091737	40894	408590	90991	916147
Titanium ores and conc.(rutile)	tonne	10078	682300	8736	447124	11649	557798
Titanium ores and conc.(others)	tonne	2421	159396	2361	115807	3782	163226
Tripoli earth	tonne	19	740			20	825
Tungsten ores & conc.	tonne	17	28235	191	61582	78	34081
Vanadium ores & conc.	tonne	61	8674	19	1378	64	6301
Vermiculite	tonne	176	8396	391	11486	439	15092
Witherite	tonne	344	7122	184	5261	0	20
Wollastonite	tonne	1305	30479	1948	32549	2818	53216
Zinc ores & conc.	tonne	33113	1562269	35696	1693837	385	18722
Zirconium ores & conc.	tonne	50945	3772861	47656	3331466	53208	3691652
Other minerals NES	tonne	52993	592588	74553	2285428	59203	805956

Source: DGCI&S, Kolkata.

* Quantity not given due to partial coverage, value figures however have full coverage.

FOREIGN TRADE

**Table – 9 : Value of Imports of Ores & Minerals, 2013-14 to 2015-16
(By Principal Ores/Minerals)**

Ores/Minerals	2013-14		2014-15		2015-16 (P)		% increase (+) or decrease (-) in 2015-16 over 2014-15
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Minerals	12158267979	100	10717327996	100	7387889416	100	-31.07
Petroleum (crude)	8696574352	71.53	7093793565	66.19	4293999334	58.12	-39.47
Diamond	1349155094	11.10	1252140913	11.68	1105651211	14.97	-11.70
Coal (excluding lignite)	923353960	7.59	1045300819	9.75	861073457	11.66	-17.62
Natural gas	516992878	4.25	563400559	5.26	437824475	5.93	-22.29
Copper ores & conc.	332267404	2.73	285028249	2.66	262965392	3.56	-7.74
Emerald (cut & uncut)	22328772	0.18	63062394	0.59	87263267	1.18	38.38
Rock phosphate	55177899	0.45	61888711	0.58	65290421	0.88	5.50
Iron ore	3423552	0.03	65947375	0.62	31971445	0.43	-51.52
Coke	67948149	0.56	43751479	0.41	31956111	0.43	-26.96
Marble	22107203	0.18	23839858	0.22	27392156	0.37	14.90
Limestone	21580366	0.18	22138585	0.21	23772767	0.32	7.38
Alumina	27542194	0.23	21244790	0.20	22924844	0.31	7.91
Precious & semi-precious stones (cut & uncut)	12574990	0.10	14675049	0.14	21000375	0.28	43.10
Manganese ore	28306272	0.23	34669120	0.32	17413687	0.24	-49.77
Asbestos	13298986	0.11	17168105	0.16	14865511	0.20	-13.41
Sulphur (excluding sublimed precipitated & colloidal)	11002926	0.09	17445433	0.16	14172608	0.19	-18.76
Precious metal ores & concentrates	106977	0.00	22252599	0.21	13658294	0.18	-38.62
Bauxite	3662474	0.03	8560886	0.08	5982901	0.08	-30.11
Gypsum	5252011	0.04	6747745	0.06	5713627	0.08	-15.33
Molybdenum ores & concentrates	5558080	0.05	8646302	0.08	4903722	0.07	-43.29
Borax	3551233	0.03	4474017	0.04	4429452	0.06	-1.00
Zirconium ores & concentrates	3772861	0.03	3331466	0.03	3691652	0.05	10.81
Other minerals	32729346	0.27	37819977	0.35	29972707	0.41	-20.75

Source: DGCI&S, Kolkata.

NES: Not elsewhere specified.

FOREIGN TRADE

**Table – 10 : Value of Imports of Ores & Minerals, 2013-14 to 2015-16
(By Principal Countries)**

Country	2013-14		2014-15		2015-16 (P)		% increase (+) or decrease (-) in 2015-16 over 2014-15
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Countries	12158267979	100	10717327996	99.99	7387889416	100	-31.07
Saudi Arabia	1887625576	15.53	1370535032	12.79	917829923	12.42	-33.03
Iraq	1106233380	9.10	863280130	8.05	700457091	9.48	-18.86
Nigeria	849683825	6.99	825407852	7.70	637927090	8.63	-22.71
UAE	1022473213	8.41	951364882	8.88	629011059	8.51	-33.88
Belgium	538013839	4.43	547991797	5.11	432768913	5.86	-21.03
Qatar	715308979	5.88	612836239	5.72	398208928	5.39	-35.02
Australia	445681987	3.67	438333023	4.09	393311990	5.32	-10.27
Indonesia	457213229	3.76	488117984	4.55	375549119	5.08	-23.06
Venezuela	843629200	6.94	708584334	6.61	369980764	5.01	-47.79
Iran	516279385	4.25	429716766	4.01	279566740	3.78	-34.94
Kuwait	913267789	7.51	701194508	6.54	234322605	3.17	-66.58
Hong Kong	220604633	1.81	190373820	1.78	206867821	2.80	8.66
South Africa	135856649	1.12	212310388	1.98	198385759	2.69	-6.56
Angola	363174935	2.99	276429976	2.58	179369997	2.43	-35.11
Chile	134207812	1.10	165200072	1.54	112588478	1.52	-31.85
Russia	68146030	0.56	79588423	0.74	106681143	1.44	34.04
Brazil	145507147	1.20	190806575	1.78	105711399	1.43	-44.60
Mexico	181728723	1.49	164708274	1.54	93883096	1.27	-43.00
Malaysia	112744077	0.93	156550524	1.46	90164218	1.22	-42.41
USA	76843837	0.63	72679363	0.68	71162041	0.96	-2.09
Israel	75164786	0.62	67941470	0.63	69375997	0.94	2.11
Egypt	131288961	1.08	91902190	0.86	61130168	0.83	-33.48
Canada	45519968	0.37	55681180	0.52	55430779	0.75	-0.45
Oman	90733571	0.75	51220590	0.48	43634276	0.59	-14.81
China	49811737	0.41	41604471	0.39	41743217	0.57	0.33
Brunei	45450939	0.37	50981294	0.48	35877836	0.49	-29.63
Botswana	23099814	0.19	61154272	0.57	33606492	0.45	-45.05
Cameroon	14457921	0.12	42953833	0.40	31629208	0.43	-26.36
Guinea	18510640	0.15	45573279	0.43	29951093	0.41	-34.28
Ecuador	12186471	0.10	57849928	0.54	28468225	0.39	-50.79
Jordan	21036868	0.17	24952337	0.23	26456148	0.36	6.03
Kazakhstan	37107459	0.31	36571597	0.34	20982643	0.28	-42.63
Turkey	14551430	0.12	46352596	0.43	19265378	0.26	-58.44
Algeria	19533060	0.16	27894840	0.26	15042370	0.20	-46.07
Netherlands	3360528	0.03	46565146	0.43	7413300	0.10	-84.08
Peru	18446137	0.15	21852209	0.20	21579274	0.29	-1.25
Chad	12	0.00	2992487	0.03	20082171	0.27	571.09
Colombia	293067113	2.41	108711922	1.01	19822803	0.27	-81.77
Other countries	510716319	4.20	388562393	3.63	272649864	3.69	-29.83

Source: DGCI&S, Kolkata.