

FOREIGN TRADE



Indian Minerals Yearbook 2017

(Part- I : GENERAL REVIEWS)

56th 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 2016-17, the value of exports (including re-exports) of ores and minerals at ₹2,00,131 crore accounted for about 11% of the total value of all merchandise exported from India. The export value which declined from ₹ 1,78,019 crore in 2014-15 to ₹ 1,70,946 crore in 2015-16 rose to ₹ 2,00,131 crore in 2016-17. The value of mineral exports showed an increase of 17.07% in 2016-17 as compared to that in the previous year.

Diamond (total) continued to be the largest constituent item with a share of 81.30% in the total value of mineral exports in 2016-17. Next in order of share were iron ore with the contribution of 5.1% followed by granite 4.7%, alumina 1.5% and emerald (cut & uncut) 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 percent.

The value of exports showed a mixed trend for most of the minerals in 2016-17 as compared to that in the previous year. A significant increase was also noticed in some cases. The exports of zinc ore & conc. increased manifold as compared to the previous year while that of iron ore increased by eight times and Chromite by three times. The exports of other minerals which have shown significant growth are copper ore & conc. 47.89%, other minerals NES 38.59%, steatite 27.55%, other minerals 26.06%, slate 21.58%, quartz & quartzite 18.29%, barytes 17.68%, marble 17.50%, alumina 15.97%, diamond 13.99% and emerald (cut & uncut) 13.76%. On the other hand the export value, however, had recorded a decline in case of bauxite 73.86%, natural gas 59.96%, sulphur 32.73%, granite (abrasive) 21.16%, titanium ores & conc. 13.97%, precious and semi

precious stone (cut & uncut) 11.99%, sandstone 10.73% and coke 7.49% as compared to that in the previous year.

Ores and minerals were exported to 206 countries in 2016-17 as against 189 countries in 2015-16. About ninety one percent of the total value of exports of ores and minerals was confined to only ten countries. Out of these, exports to only five countries accounted for 82% of the total value of exports during the year. During 2016-17, Hong Kong occupied the top position in terms of value accounting for 31.56% of the total value of mineral exports, USA was in the second place and contributed 26.25% followed by UAE 8.30%, Belgium 8.17%, China 8.08%, Israel 3.38% and Thailand 2.01%, Japan 1.19%, Singapore 1.06% and UK 1.05 percent. The individual share of remaining countries was less than one percent.

Country-wise analysis of value of minerals exports revealed that exports of minerals have increased manifold to Botswana (3648.0%). It increased by more than four times in Brazil (347.21%) and more than three times in Oman (208.17%). The other countries which have recorded significant positive growth are Korea, Rep of. 90.28%, China 87.39%, Malaysia 81.42%, Kuwait 36.12%, Bangladesh 34.44%, Spain 27.66%, Nepal 23.60%, Algeria 22.17%, Japan 19.35%, Hong Kong 18.54%, Maldives 16.76%, Saudi Arabia 15.66%, USA 15.21% and Turkey 14.23% as compared to previous year.

However, value of export of ores & minerals declined in respect of Qatar 49.31%, Sri Lanka 39.42%, Bhutan 11.66%, Chinese Taipei/Taiwan 10.65%, Netherlands 8.17%, Iraq 7.25%, Indonesia 7.16%, France 5.47% and Switzerland 5.37% as compared with the previous year (Tables - 1 to 3).

FOREIGN TRADE

Table-1: Exports of Ores and Minerals (including re-exports), 2014-15 to 2016-17

(Value in ₹ '000)

Ores & Minerals	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
All Minerals		**	1780194116	**	1709463248	**	2001306842
Abrasives (natural)	tonne	31901	516071	4477	59894	4773	66649
Alabaster	tonne	21	140	-	-	20	240
Alumina	tonne	1583590	32974205	1368526	25895759	1509464	30030430
Andalusite	tonne	4	127	-	-	150	2063
Antimony ores & conc.	tonne	-	-	264	115561	46	9646
Arsenic sulphide (natural)	tonne	-	-	15	98	-	-
Asbestos: Total	tonne	393	12026	524	23587	102	963
Asbestos (chrysotile)	tonne	248	11511	306	22919	26	395
Asbestos (others)	tonne	145	515	218	668	76	568
Ball clay	tonne	57557	194269	61536	148435	92688	233666
Barytes	tonne	651571	4525674	743407	6517075	1067313	7669141
Bauxite	tonne	6808588	14050662	8914624	19527404	2790675	5105333
Bentonite	tonne	1300083	3999734	1572469	4814343	1538134	4798150
Borax: Total	tonne	2655	164699	1724	124645	2480	164054
Natural borate	tonne	102	1026	141	1513	65	1329
Sodium borate	tonne	2114	95148	1135	51516	1969	93325
Other borates	tonne	439	68525	448	71616	446	69400
Building and monumental stones NES	tonne	6127052	7786183	5133276	8489458	8211193	12089834
Calcite	tonne	30768	192309	25198	177976	26981	202616
Chalk	tonne	490	2978	481	3818	659	4550
Chromite: Total	tonne	25361	659259	71839	1314085	230531	3657700
Chrome ore others	tonne	16364	328552	1867	26219	81502	1091305
Chrome ore conc.	tonne	8997	330707	69972	1287852	149029	2566395
Chrome ore lumps	tonne	-	-	++	14	-	-
Clay (others)	tonne	25515	217300	23341	312553	40343	459495
Coal (excl. lignite)	'000 t	1237	7202914	1576	9006274	1772	9669603
Coal lignite	'000 t	1	13882	++	2753	2	251598
Coke	tonne	98003	1090634	89847	1073159	77642	992815
Coal gas water gas, etc. (except gaseous hydrocarbons)	tonne	32	7820	1	99	++	95
Cobalt ores & conc.	tonne	++	4	++	44	++	20
Copper ores & conc.	tonne	1	10	11432	712919	22711	1054322
Diamond		**	1481021701	**	1427340191	**	1627066250
Diamond (mostly cut)#	carat	**	1480557682	**	1426640484	**	1625672978
Diamond (industrial)	carat	4351127	168693	5651009	342214	6769897	1099542
Diamond (powder)	'000 carat	18705	295326	9702	357493	8197	293730
Diatomite	tonne	87845	778088	30597	328268	38427	362900
Dolomite	tonne	44620	156629	85273	155664	61023	234402
Earth clay	tonne	8915	60466	9000	87142	5792	61644
Emerald (cut & uncut): Total		**	15945392	**	17879971	**	20340187
Emerald (uncut)	tonne	3	731854	2	1938487	2	2301688

(Contd.)

FOREIGN TRADE

Table-1 (Contd.)

(Value in ₹ '000)

Ores & Minerals	Unit	2014-15		2015-16 (R)		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Emerald (cut)	'000 carat	142515	15213538	138459	15941484	131357	18038499
Feldspar (natural)	tonne	589820	2876166	426172	2232791	481457	2495595
Feldspar (cut & uncut): Total		**	26488	**	41189	**	239664
Feldspar (uncut)	tonne	++	841	38	1278	1	1972
Feldspar (cut)	'000 carat	4031	25647	143300	39911	402811	237692
Fire clay	tonne	2503	16318	887	10775	4324	14883
Flint	tonne	484	3991	867	7660	652	6619
Fluorite/Fluorspar	tonne	561	20763	316	11578	608	21579
Garnet (abrasive)	tonne	448559	5673827	480408	5950862	387276	4691843
Garnet (cut and uncut): Total		**	31070	**	25405	**	241716
Garnet (uncut)	tonne	++	2870	++	274	10	11935
Garnet (cut)	'000 carat	1009	28200	1062	25131	4442	229781
Granite : Total	tonne	6563271	98322398	5674568	92720986	6094341	93368588
Granite (crude or roughly trimmed)	tonne	4508446	33917164	3398523	26999328	3572213	26647327
Granite (cut blocks/slabs)	tonne	407990	3659898	659991	5966547	752239	6443590
Granite (polished blocks/tiles)	tonne	196656	5226205	153914	4358163	164056	4077170
Granite (others)	tonne	1450179	55519131	1462140	55396948	1605833	56200501
Graphite (natural)	tonne	2669	86578	286	17070	402	30315
Gypsum	tonne	65645	158036	110882	291061	194493	523392
Iron ore: Total	'000 tonnes	7297	31436684	5441	12639633	30728	102929254
Iron ore conc:Non-agglomerated	'000 tonnes	70	312791	++	8032	1107	2846476
Iron ore: fines	'000 tonnes	5807	22120939	4635	8763003	18540	47421383
Iron ore: lumps	'000 tonnes	662	2559524	112	185059	2266	6792560
Iron ore pellets	'000 tonnes	758	6434851	694	3675792	8815	45847775
Iron ore pyrites	'000 tonnes	++	8579	++	7747	++	21060
Kaolin	tonne	258330	941752	304702	1105587	232867	1136299
Kieselguhr	tonne	137	2494	90	1900	39	931
Kyanite	tonne	39	505	144	2703	153	3052
Lead ores & conc.	tonne	509	22298	++	215	1	33
Limestone	tonne	3812759	4671971	3236010	4694274	4330822	4990065
Magnesite : Total	tonne	6612	120898	6204	124464	8065	135150
Magnesia (fused)	tonne	565	22180	708	28794	620	23858
Magnesite (not calcined)	tonne	123	5340	789	14604	597	13781
Magnesite (calcined)	tonne	1	48	-	-	-	-
Magnesite:dead-burnt magnesia	tonne	114	2923	37	1322	70	2152
Magnesium oxide	tonne	1251	32690	1268	38212	1150	34910
Magnesite (other)	tonne	4558	57717	3402	41532	5628	60449

(Contd.)

FOREIGN TRADE

Table-1 (Contd.)

(Value in ₹ '000)

Ores & Minerals	Unit	2014-15		2015-16 (R)		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Manganese ore : Total	tonne	11026	65399	444	18945	244	12377
Manganese ore (35% or more but below 46% Mn)	tonne	-	-	-	-	7	35
Manganese ore (46% or more Mn)	tonne	-	-	93	317	++	13
Manganese ore (others)	tonne	11026	65399	351	18628	237	12329
Marble : Total	tonne	325707	5990617	289853	5998393	326977	7048204
Marble (dressed)	tonne	209956	2809953	181895	2472912	200307	2706455
Marble (others)	tonne	115751	3180664	107958	3525481	126670	4341749
Mica: Total	tonne	141100	4263736	135805	4229719	135163	4555655
Mica (unmanufactured): Total	tonne	140450	3421154	135085	3444188	134423	3744499
Mica (blocks)	tonne	2178	200401	1879	199920	1776	176318
Mica (splittings)	tonne	10730	340648	11611	295741	11327	357882
Mica (powder)	tonne	90312	2023889	89716	2250836	86910	2394726
Mica (condenser films)	tonne	1	3494	-	-	++	289
Mica (waste & scrap)	tonne	37229	852722	31879	697691	34410	815284
Mica (worked): Total	tonne	650	842582	720	785531	740	811156
Mica (cond. films, plates, cuts NES)	tonne	1	12193	8	26632	4	6728
Mica (washers & discs)	tonne	81	153514	15	45579	6	14182
Mica (sheets & strips)	tonne	58	75599	49	85074	43	76565
Micanite & other built-up mica	tonne	15	6072	++	1285	1	2651
Mica worked (others)	tonne	495	595204	648	626961	686	711030
Molybdenum ores & conc.	tonne	24	17801	45	2199	22	1005
Niobium or tantalum ores & conc.	tonne	24	24238	-	-	2	7277
Natural gas	tonne	138168	4901801	126951	3798603	37072	1521058
Nickel ores & conc.	tonne	41	1452	125	11510	-	-
Ochre: Total	tonne	4034	92570	3633	75045	3360	78711
Ochre: (earth colours)	tonne	1761	24363	1760	23549	1621	21898
Ochre (persian red)	tonne	++	62	-	-	23	2958
Ochre (red oxide)	tonne	1901	56730	1385	37451	1337	39176
Ochre: (yellow ochre)	tonne	372	11415	488	14045	379	14679
Precious & semi-precious stones (cut & uncut): Total		**	12993424	**	12590259	**	11080271
Precious & semi precious stones (uncut)	tonne	1278	1772426	1318	1169574	1052	1114955
Precious & semi precious stones (cut)	'000 carat	1869867	11220998	3672035	11420685	2480729	9965316

(Contd.)

FOREIGN TRADE

Table-1 (Concl.)

(Value in ₹ '000)

Ores & Minerals	Unit	2014-15		2015-16 (R)		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Precious metal ores & concentrates	kg	10000	24	144051	3166	5743	71
Quartz and quartzite: Total	tonne	410497	2938736	388192	3025919	488800	3579270
Quartz (natural)	tonne	337231	2090204	301226	2023651	387880	2410657
Quartzite (natural)	tonne	73266	848532	86966	1002268	100920	1168613
Rock phosphate	tonne	437	2916	14242	69097	5915	8615
Salt (other than common salt)	tonne	4776491	6390687	5926639	6701176	7897937	7450785
Sand (excl. metal bearing)	tonne	10751	342836	14476	491906	17284	369425
Sandstone	tonne	627008	8523123	744657	10161784	710400	9071313
Silica sand	tonne	1216	9802	709	6725	1096	8669
Sillimanite	tonne	17304	141262	15078	110847	14064	114678
Slate : Total	tonne	100447	1867164	97591	1927313	122097	2343209
Slate (worked)	tonne	23922	659827	20461	703193	19161	919805
Slate (others)	tonne	76525	1207337	77130	1224120	102936	1423404
Talc/steatite/soapstone : Total	tonne	158405	2156562	187287	2709689	251546	3456143
Steatite blocks	tonne	1056	19327	2621	33768	11061	83953
Steatite lumps	tonne	7926	96594	12736	222368	38986	573101
Steatite powder & others	tonne	149423	2040641	171930	2453553	201499	2799089
Sulphur (exc. sublimed precipitated & colloidal)	tonne	397399	3714082	628164	5157081	616472	3469350
Tin ores & conc.	tonne	-	-	++	14	-	-
Titanium ores & conc.: Total	tonne	779598	7179648	790489	6644935	532204	5716719
Titanium ores & conc. (ilmenite)	tonne	775192	6956324	783656	6302008	529822	5586178
Titanium ores & conc. (rutile)	tonne	4332	217945	6722	336087	2048	108327
Titanium ores & conc. (others)	tonne	74	5379	111	6840	334	22214
Tungsten ores & conc.	tonne	175	29666	1	390	8	6064
Vanadium ores & conc.	tonne	-	-	-	-	++	25
Vermiculite	tonne	1044	9906	528	6402	756	8312
Witherite	tonne	10	526	++	241	++	216
Wollastonite	tonne	17864	288087	16616	279263	16700	293524
Zinc ores & conc.	tonne	41	744	558	11346	53912	3990176
Zirconium ores & conc.	tonne	12230	488129	4859	241900	1693	95182
Other minerals NES	tonne	1768058	1773765	1362345	1200053	757361	1663194

Source: DGCI & S, Kolkata

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

: The quantity published in earlier issues for the years of 2013-14, 2014-15 and 2015-16 may be treated as ** since it is found that the unit level quantities were non-additive.

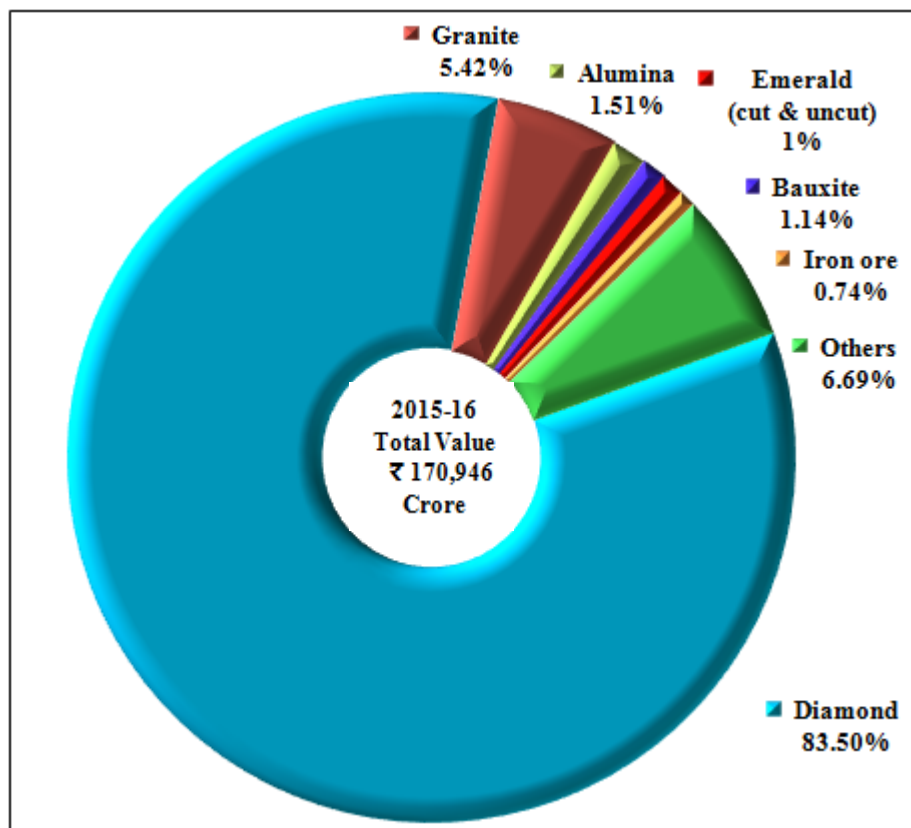
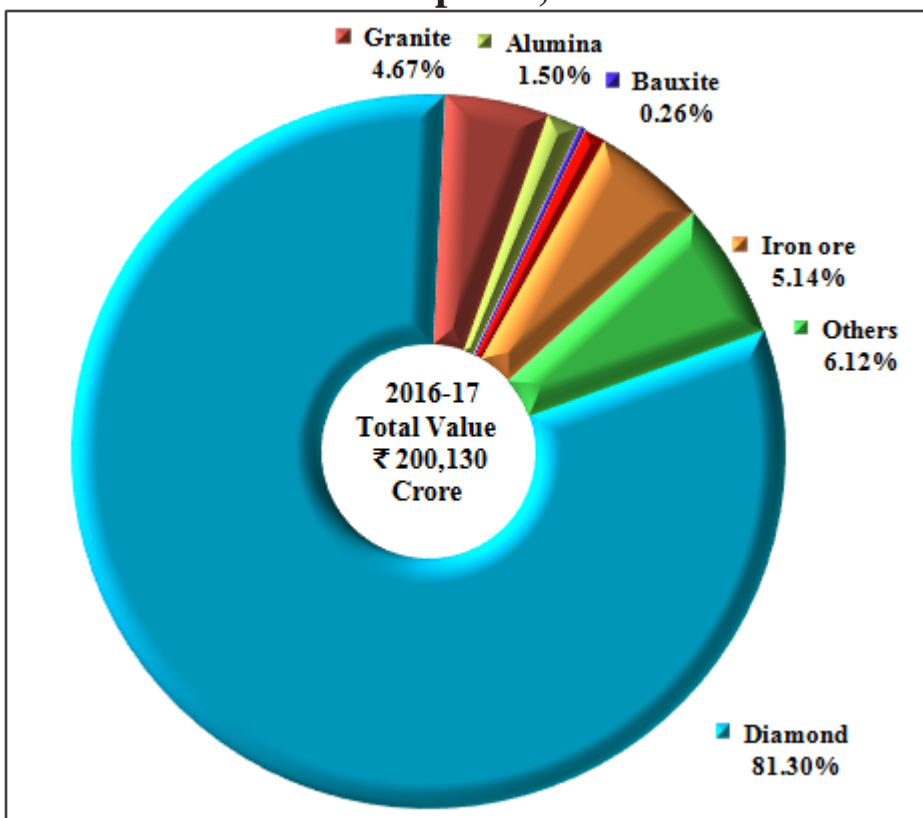
FOREIGN TRADE

**Table – 2: Value of Exports of Ores & Minerals (including re-exports), 2014-15 to 2016-17
(By Principal Ores & Minerals)**

Ores & Minerals	2014-15		2015-16		2016-17 (P)		% increase (+) or decrease (-) in 2016-17 over 2015-16
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Minerals	1780194116	100.00	1709463248	100.00	2001306842	100.00	17.07
Diamond	1481021701	83.19	1427340191	83.50	1627066250	81.30	13.99
Iron ore	31436684	1.77	12639633	0.74	102929254	5.14	714.34
Granite	98322398	5.52	92720986	5.42	93368588	4.67	0.70
Alumina	32974205	1.85	25895759	1.51	30030430	1.50	15.97
Emerald (cut & uncut)	15945392	0.90	17879971	1.05	20340187	1.02	13.76
Building and monumental stones NES	7786183	0.44	8489458	0.50	12089834	0.60	42.41
Precious & semi-precious stones (cut & uncut):Total	12993424	0.73	12590259	0.74	11080271	0.55	-11.99
Coal (excl. lignite)	7202914	0.40	9006274	0.53	9669603	0.48	7.37
Sandstone	8523123	0.48	10161784	0.59	9071313	0.45	-10.73
Barytes	4525674	0.25	6517075	0.38	7669141	0.38	17.68
Salt (other than common salt)	6390687	0.36	6701176	0.39	7450785	0.37	11.19
Marble	5990617	0.34	5998393	0.35	7048204	0.35	17.50
Titanium ores & conc.	7179648	0.40	6644935	0.39	5716719	0.29	-13.97
Bauxite	14050662	0.79	19527404	1.14	5105333	0.26	-73.86
Limestone	4671971	0.26	4694274	0.27	4990065	0.25	6.30
Bentonite	3999734	0.22	4814343	0.28	4798150	0.24	-0.34
Garnet (abrasive)	5673827	0.32	5950862	0.35	4691843	0.23	-21.16
Mica	4263736	0.24	4229719	0.25	4555655	0.23	7.71
Zinc ores & conc.	744	-	11346	-	3990176	0.20	35068.13
Chromite	659259	0.04	1314085	0.08	3657700	0.18	178.35
Quartz and quartzite	2938736	0.17	3025919	0.18	3579270	0.18	18.29
Sulphur (excl. sublimed precipitated & colloidal)	3714082	0.21	5157081	0.30	3469350	0.17	-32.73
Steatite	2156562	0.12	2709689	0.16	3456143	0.17	27.55
Felspar (natural)	2876166	0.16	2232791	0.13	2495595	0.12	11.77
Slate	1867164	0.10	1927313	0.11	2343209	0.12	21.58
Other minerals, NES	1773765	0.10	1200053	0.07	1663194	0.08	38.59
Natural gas	4901801	0.28	3798603	0.22	1521058	0.08	-59.96
Kaolin	941752	0.05	1105587	0.06	1136299	0.06	2.78
Copper ores & conc.	10	0.00	712919	0.04	1054322	0.05	47.89
Coke	1090634	0.06	1073159	0.06	992815	0.05	-7.49
Other Minerals	4320861	0.24	3392207	0.20	4276086	0.21	26.06

Source: DGCI&S, Kolkata.

Value of Mineral Exports, 2015-16 and 2016-17



FOREIGN TRADE

**Table - 3: Value of Exports of Ores & Minerals (including re-exports), 2014-15 to 2016-17
(By Principal Countries)**

Ores & Minerals	2014-15		2015-16		2016-17 (P)		% increase (+) or decrease (-) in 2016-17 over 2015-16
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Countries	1780194116	100	1709463248	100	2001306842	100	17.07
Hong Kong	578323115	32.49	532865307	31.17	631645344	31.56	18.54
USA	421954969	23.70	455980790	26.67	525322016	26.25	15.21
UAE	174860739	9.82	158770019	9.29	166195697	8.30	4.68
Belgium	164659511	9.25	148959205	8.71	163430656	8.17	9.72
China	89687335	5.04	86281415	5.05	161686097	8.08	87.39
Israel	72853787	4.09	66323391	3.88	67722142	3.38	2.11
Thailand	41698902	2.34	40895276	2.39	40263973	2.01	-1.54
Japan	32700899	1.84	20004518	1.17	23875088	1.19	19.35
Singapore	12493638	0.70	19260031	1.13	21249243	1.06	10.33
UK	19545862	1.10	21749745	1.27	20958265	1.05	-3.64
Bangladesh	9493435	0.53	11395342	0.67	15319360	0.77	34.44
Switzerland	13747660	0.77	13522509	0.79	12796337	0.64	-5.37
Australia	11549901	0.65	11851993	0.69	11543516	0.58	-2.60
Korea, Rep. of	10971166	0.62	5477729	0.32	10422948	0.52	90.28
Italy	10218857	0.57	8262732	0.48	9298952	0.46	12.54
Saudi Arabia	5338914	0.30	7212121	0.42	8341644	0.42	15.66
Germany	8965733	0.50	8249971	0.48	8331136	0.42	0.98
Nepal	6068465	0.34	6222196	0.36	7690608	0.38	23.60
Egypt	4128356	0.23	5568672	0.33	6262073	0.31	12.45
Canada	5245864	0.29	5588036	0.33	6237475	0.31	11.62
Malaysia	3627689	0.20	3133950	0.18	5685471	0.28	81.42
Turkey	6306565	0.35	4874266	0.29	5568071	0.28	14.23
Vietnam	3194376	0.18	4944962	0.29	5530643	0.28	11.84
Iran	8928364	0.50	5437373	0.32	5486020	0.27	0.89
France	5211765	0.29	5573664	0.33	5269004	0.26	-5.47
Oman	1346532	0.08	1509538	0.09	4651979	0.23	208.17
South Africa	4487334	0.25	3958967	0.23	4066171	0.20	2.71
Indonesia	2545532	0.14	3926115	0.23	3644876	0.18	-7.16
Chinese Taipei/Taiwan	3915202	0.22	3581254	0.21	3199833	0.16	-10.65
Netherlands	3227917	0.18	3317550	0.19	3046597	0.15	-8.17
Poland	3044087	0.17	2537415	0.15	2849769	0.14	12.31
Kuwait	1853373	0.10	1833768	0.11	2496200	0.12	36.12
Spain	1478906	0.08	1667314	0.10	2128517	0.11	27.66
Lebanon	1727193	0.10	1841166	0.11	1753176	0.09	-4.78
Botswana	589168	0.03	44157	0.00	1655005	0.08	3648.00
Maldives	913935	0.05	1396673	0.08	1630691	0.08	16.76
Algeria	970189	0.05	1220262	0.07	1490780	0.07	22.17
Qatar	2436451	0.14	2660962	0.16	1348839	0.07	-49.31
Bhutan	1188103	0.07	1376787	0.08	1216186	0.06	-11.66
New Zealand	1073905	0.06	1094923	0.06	1211247	0.06	10.62
Brazil	267063	0.02	252370	0.01	1128635	0.06	347.21
Ireland	926299	0.05	1084293	0.06	1096798	0.05	1.15
Iraq	614825	0.03	1083456	0.06	1004946	0.05	-7.25
Russia	1202726	0.07	956755	0.06	1002010	0.05	4.73
Sri Lanka	1822441	0.10	1606847	0.09	973409	0.05	-39.42
Other countries	22787068	1.28	14107463	0.83	13579399	0.68	-3.74

Source: DGCI&S, Kolkata.

Metals & Alloys

The value of exports of metals & alloys at ₹ 1,82,186 crore in the year 2016-17 registered an increase of 19.14% as compared to that of ₹ 1,52,913 crore in the previous year. The contribution of metals & alloys in the total value of India's exports was only 10% during the year under review.

Iron & steel with a share of 47.30% continued to hold the top position in the value of metals exported from India in 2016-17. Gold (non-monetary & monetary) came in second place and accounted for 19.9% value. Aluminium and alloys including scrap and copper & alloys (including brass & bronze) occupied the third & fourth place with a contribution of 11.9% & 9.7%, respectively. The contributions of ferroalloys, zinc & alloys including scrap & precious metals/metal clad with precious metal were 5.6%, 2.3% and 1.5%, respectively. 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 2016-17. The export value of other metals and alloys has increased 68.62%, pig & cast iron (incl. spiegeleisen) 59.20%, silver 57.12%, ferroalloys 40.17%, lead and alloys incl. scrap 33.53%, iron & steel 27.19%, aluminium and alloys incl. scrap 26.26%, zinc and alloys incl. scrap 19.28% and gold (nonmonetary & monetary) total 11.09%. However, the export values of other metals & alloys that have shown significant negative growth during 2016-17 as compared to previous year are tin and alloys incl. scrap 81.11%, nickel and alloys incl. scrap 80.93%, antimony alloys and scrap 10.80% and precious metals 5.10% .

India exported metals & alloys to 215 countries in 2016-17 as against 205 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 82% of the total value of exports during 2016-17. UAE with a share of 26.39% occupied top position in 2016-17 followed by USA 8.12%, China 4.53%, Korea, Rep. of 5.03%, Malaysia 3.85%, Nepal 2.94%, Italy 4.07%, Belgium 3.23%, Chinese Taipei/Taiwan 2.72%, Vietnam 2.23%, Bangladesh 2.14% and Saudi Arabia 2.04%. The individual share of Germany, Indonesia, Spain, UK, Singapore, Mexico, Netherlands, Japan, Turkey and Thailand ranged between 1 to 2 percent and less than one percent in respect of the remaining countries.

The countries that have recorded significant increase in value of exports of metals & alloys during the year 2016-17 are Vietnam 324.93%, Chinese Taipei/Taiwan 119.33%, Belgium 118.42%, Ecuador 102.33%, Indonesia 100.20%, Italy 98.48%, Spain 96.52%, Portugal 87.43%, Philippines 81.56%, Kuwait 81.13%, Ghana 76.55%, Bangladesh 59.82%, Thailand 47.97%, Sri Lanka 43.31%, Malaysia 37.26%, Oman 33.66%, Nepal 32.97%, Japan 32.32%, Korea, Rep. of 31.54%, Saudi Arabia 18.82%, UK 15.34%, Netherlands 14.59%, UAE 12.63%, Russia 12.34%, South Africa 11.92%, Turkey 11.75% and France 10.36%.

On the other hand the value of exports of metals & alloys, showed a declining trend for Peru 51.04%, Nigeria 39.09%, Iran 38.45%, Egypt 27.11%, Qatar 25.33%, Sweden 22.95% ,Other countries 16.04% and China 10.92% during the year under review (Tables - 4 to 6).

Exports of selected mineral-based products during 2014-15 to 2016-17 are furnished in Table - 7.

FOREIGN TRADE

Table-4: Exports of Metals and Alloys, 2014-15 to 2016-17

		(Value in ₹ '000)					
Metals & Alloys	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
All Metals & Alloys		** 1672956951		** 1529126142		** 1821860400	
Aluminium and alloys incl. scrap	tonne	1034006	173771032	1153445	171195449	1546990	216150533
Antimony alloys and scrap	tonne	2371	1209763	2034	840903	1668	750059
Bismuth & scrap	tonne	++	2331	++	2751	++	68
Boron	tonne	++	119	++	21	1	14
Cadmium (incl. waste & scrap)	tonne	74	4545	115	9373	237	19876
Cement (copper precipitated)	tonne	++	41	13	7520	-	-
Chromium & alloys	tonne	94	72047	58	50866	80	63279
Cobalt & alloys	tonne	109	124799	80	63278	37	56720
(incl waste and scrap): Total							
Cobalt & alloys	tonne	102	119533	70	54905	25	52460
Cobalt & scrap	tonne	7	5266	10	8373	12	4260
Copper & alloys	tonne	462183	205730340	415782	161726801	450292	175766074
(incl. brass & bronze): Total							
Brass & bronze	tonne	37033	28447662	31917	23316757	40008	31407198
Brass & bronze (scrap)	tonne	1228	355853	1285	287807	1794	403422
Copper & alloys	tonne	419833	175408914	379489	137136898	405326	143055151
Copper (scrap)	tonne	4037	1485483	3091	985339	3164	900303
Copper alloys & scrap	tonne	52	32428	-	-	-	-
Ferro-alloys: Total	tonne	2169453	99837096	1350224	72257850	1541794	101280507
Ferro boron	tonne	28	7412	53	10662	91	14608
Ferro chrome	tonne	426245	27051294	449430	27954672	706756	52675081
Ferro-charge-chrome	tonne	10	2036	1	208	1	362
Ferro cobalt	tonne	++	2	++	144	++	146
Ferro columbium	tonne	6	7001	10	6894	3	6262
Ferro manganese	tonne	748617	12592464	170167	8255066	127368	7317747
Ferro molybdenum	tonne	220	69420	140	53665	162	121113
Ferro nickel	tonne	-	-	++	73	++	107
Ferro niobium	tonne	11	20047	11	24104	13	19545
Ferro phosphorus	tonne	38	7640	44	7562	43	4968
Ferro selenium	tonne	2	116	++	288	++	860
Ferro silicon	tonne	57084	4749615	29912	2344427	18381	1354987
Ferro tantalum	tonne			-	-	++	47
Ferro titanium	tonne	245	68738	120	18248	299	46063
Ferro tungsten	tonne	12	10141	16	18217	11	12638
Ferro vanadium	tonne	176	213865	67	55754	460	493144
Ferro zirconium	tonne	1	590	5	2652	58	11240
Ferro silico-chrome	tonne	3	384	-	-	8	858
Ferro silico-magnesium	tonne	14933	1668030	8527	866310	9249	856923
Ferro silico-manganese	tonne	918847	53051405	671904	31326676	672039	37948700
Ferro alloys (Others)	tonne	2975	316896	19817	1312228	6852	395108

(Contd.)

FOREIGN TRADE

Table-4 (Contd.)

(Value in ₹ '000)

Metals & Alloys	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Gold (non-monetary & monetary):Total	kg	70796	174423808	135275	325665937	133032	361795422
Gold-non-monetary: Total	kg	70796	174423808	135275	325665937	133032	361795422
Gold, non-monetary, other unwrought forms	kg	70790	174421703	135272	325660716	132978	361645931
Gold, non-monetary: Other Semi manufactured forms	kg	6	2105	3	5221	54	149491
Gold-clad metals/base metals NES	tonne	++	2	-	-	++	137
Iron & Steel : Total	tonne	12077670	868623121	9122896	677365384	15440562	861511743
Iron & steel (finished steel incl. cr sheet)	tonne	5204779	327875855	4082395	245249025	5724816	309416391
Iron & steel (semi-finished steel incl. steel ingot)	tonne	4332549	197264636	2671561	119641901	7274670	254345758
Iron & steel (steel wire)	tonne	141766	18752335	157443	18119135	137394	17102043
Iron & steel (sponge iron)	tonne	207683	4776601	192823	3215978	394254	6467171
Iron & steel (scrap)	tonne	4789	532480	4917	306688	11328	782088
Iron & steel: alloy steel (granules)	tonne	1257	73375	330	23543	113	13224
Iron & steel: alloy steel (powder)	tonne	78	7509	224	12962	5	3447
Iron & steel (other finid steel, NES)	tonne	2096172	307489015	1975668	286253750	1810985	268043866
Iron & steel material	tonne	74318	5703233	29026	2506805	78151	3528484
Iron & steel (stainless steel)	tonne	14279	6148082	8509	2035597	8846	1809271
Lead and alloys incl. scrap: Total	tonne	76289	10617034	89389	11883141	108065	15868134
Lead & alloys	tonne	76173	10599712	89379	11882679	108064	15867389
Lead & scrap	tonne	116	17322	10	462	1	745
Magnesium & scrap	tonne	66	30471	169	36843	115	14078
Manganese & alloys (incl waste & scrap): Total	tonne	134	111364	190	150384	278	178614
Manganese & alloys: (wrought & unwrought)	tonne	114	107093	180	148421	226	169430
Manganese & alloys NES	tonne	20	4271	10	1963	9	2048
Manganese waste & scrap	tonne	-	-	-	-	43	7136

(Contd.)

FOREIGN TRADE

(Value in ₹ '000)

Table-4 Concl.d.)

Metals & Alloys	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Mercury	tonne	8	37675	63	46787	49	113381
Molybdenum & scrap	tonne	55	188842	12	152053	12	143814
Nickel and alloys (incl. scrap): Total	tonne	46771	55174050	37512	32072432	8708	6115822
Nickel & alloys	tonne	46462	55040521	37197	31951710	8301	5973202
Nickel scrap	tonne	309	133529	315	120722	407	142620
Other rare metals, NES	tonne	++	4203	++	632	1	3137
Pig & cast Iron (Incl. Spiegeleisen)	tonne	650353	15064847	328278	6041510	489383	9618050
Platinum alloys & related metals: Total	kg	78	83710	36	21310	344	404007
Platinum (powder, unwrought & others)	kg	42	69061	20	8234	63	14235
Other metals of platinum group	kg	36	14649	16	13076	281	389772
Platinum - clad base/ precious metals	kg	11	625	10	86	5	414
Precious metals / metals clad with precious metals	tonne	581	25052694	1980	29307616	3313	27814115
Selenium	tonne	124	350157	85	97482	203	257267
Silicon	tonne	260	34175	36	9426	43	7114
Silver	tonne	5	346251	24	481460	28	756462
Silver clad base metals	kg	22375	264220	291	2514	4049	11141
Tantalum & scrap: Total	tonne	5	93874	2	42584	4	62507
Tantalum alloys unwrought	tonne	4	71405	1	26982	1	31850
Tantalum & scrap	tonne	1	22469	1	15602	3	30657
Tellurium	tonne	++	93	++	114	1	59
Tin & alloys (incl. scrap): total	tonne	2217	2372272	4199	3829835	1275	723630
Tin & alloys	tonne	1658	2297858	3652	3754682	522	591974
Tin & alloys : worked	tonne	557	73257	547	74663	752	130773
Tin (scrap)	tonne	2	1157	++	490	1	883
Titanium & alloys (incl. waste & scrap)	tonne	174	197302	171	195611	114	201474
Tungsten alloys & scrap	kg	475385	1574148	313688	1196647	372621	1198574
Zinc and alloys (incl. scrap): total	tonne	246395	37553145	257634	34345663	228025	40967513
Zinc & alloys	tonne	246265	37526431	257590	34339933	227977	40960486
Zinc (scrap)	tonne	130	26714	44	5730	48	7027
Zirconium & scrap	tonne	8	6755	236	25879	11	6661

Source: DGCI & S, Kolkata.

** : Quantity given due to partial coverage, value figures, however, have full coverage.

FOREIGN TRADE

**Table-5: Value of Exports of Metals and Alloys, 2014-15 to 2016-17
(By Principal Metals & Alloys)**

Metals & Alloys	2014-15		2015-16		2016-17 (P)		% increase (+) or decrease (-) in 2016-17 over 2015-16
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Metals & Alloys	1672956951	100.0	1529126142	100.00	1821860400	100.00	19.14
Iron & steel	868623121	51.9	677365384	44.30	861511743	47.29	27.19
Gold (non-monetary & monetary):Total	174423808	10.4	325665937	21.30	361795422	19.86	11.09
Aluminium and alloys (incl. scrap)	173771032	10.4	171195449	11.20	216150533	11.86	26.26
Copper & alloys (incl. brass & bronze)	205730340	12.3	161726801	10.58	175766074	9.65	8.68
Ferroalloys	99837096	6.0	72257850	4.73	101280507	5.56	40.17
Zinc and alloys (incl. scrap)	37553145	2.2	34345663	2.25	40967513	2.25	19.28
Precious metals / metals clad with Precious metals	25052694	1.5	29307616	1.92	27814115	1.53	-5.10
Lead and alloys (incl. scrap)	10617034	0.6	11883141	0.78	15868134	0.87	33.53
Pig & cast iron (incl. Spiegeleisen)	15064847	0.9	6041510	0.40	9618050	0.53	59.20
Nickel and alloys (incl. scrap)	55174050	3.3	32072432	2.10	6115822	0.34	-80.93
Tungsten and alloys (incl. scrap)	1574148	0.1	1196647	0.08	1198574	0.07	0.16
Silver	346251	0.0	481460	0.03	756462	0.04	57.12
Antimony alloys and scrap	1209763	0.1	840903	0.05	750059	0.04	-10.80
Tin and alloys (incl. scrap)	2372272	0.1	3829835	0.25	723630	0.04	-81.11
Other metals and alloys	1607350	0.1	915514	0.06	1543762	0.08	68.62

Source: DGCI & S, Kolkata.

FOREIGN TRADE

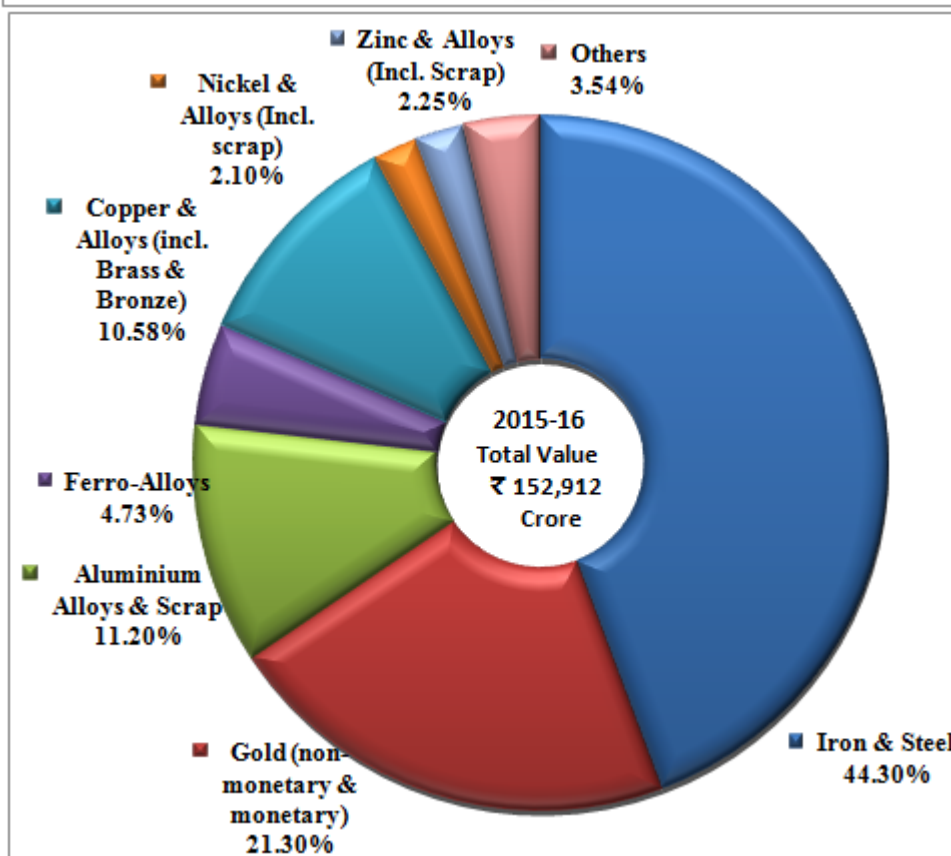
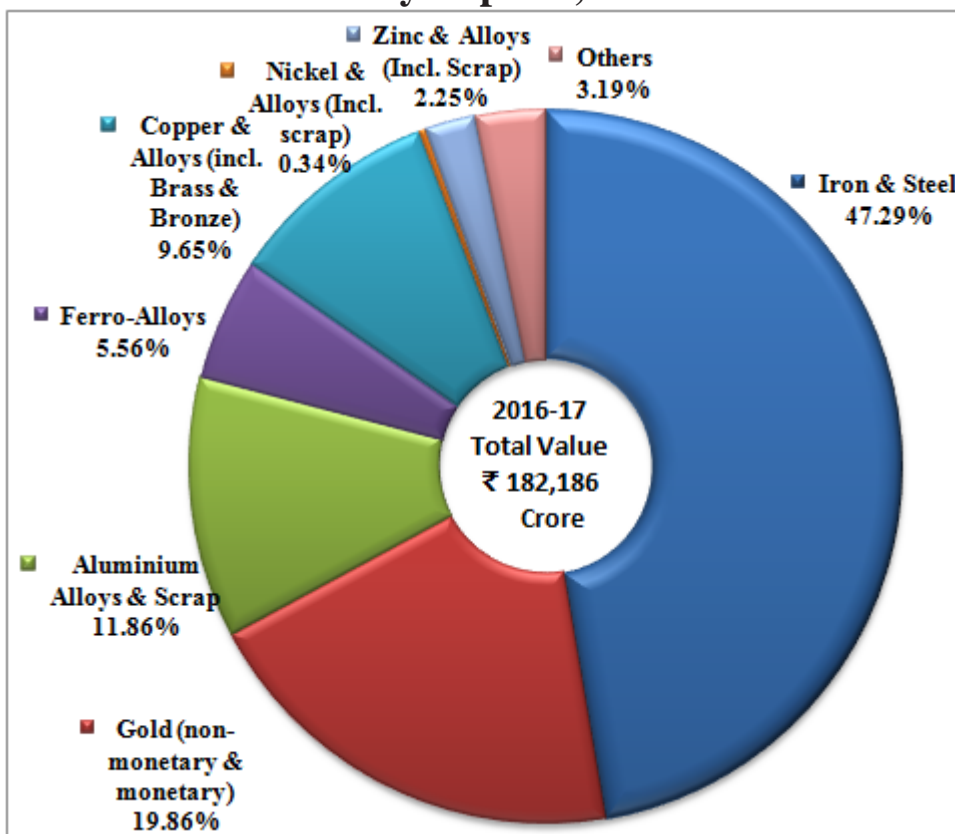
**Table-6: Value of Exports of Metals and Alloys, 2014-15 to 2016-17
(By Principal Countries)**

Country	2014-15		2015-16		2016-17 (P)		% increase (+) or decrease (-) in 2016-17 over 2015-16
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Countries	1672956951	100.00	1529126142	100.00	1821860400	100.00	19.14
UAE	323527490	19.34	426956512	27.92	480869049	26.39	12.63
USA	174667448	10.44	138881805	9.08	147942546	8.12	6.52
Korea, Rep. of	66245834	3.96	69642395	4.55	91604217	5.03	31.54
China	138358964	8.27	92582323	6.05	82473936	4.53	-10.92
Italy	48692894	2.91	37396228	2.45	74225479	4.07	98.48
Malaysia	40122017	2.40	51125302	3.34	70174205	3.85	37.26
Belgium	23966919	1.43	26980101	1.76	58929286	3.23	118.42
Nepal	40705014	2.43	40282560	2.63	53562606	2.94	32.97
Chinese Taipei/Taiwan	22827081	1.36	22570469	1.48	49503918	2.72	119.33
Vietnam	11875708	0.71	9560154	0.63	40623506	2.23	324.93
Bangladesh	20904408	1.25	24378437	1.59	38960409	2.14	59.82
Saudi Arabia	58848673	3.52	31204929	2.04	37078244	2.04	18.82
Germany	43292315	2.59	35427323	2.32	34963855	1.92	-1.31
Indonesia	18781199	1.12	16250625	1.06	32533544	1.79	100.20
Spain	18393799	1.10	16231208	1.06	31898259	1.75	96.52
UK	30790637	1.84	26208725	1.71	30228272	1.66	15.34
Singapore	40860061	2.44	31142542	2.04	29802674	1.64	-4.30
Netherlands	22440744	1.34	22781730	1.49	26106419	1.43	14.59
Thailand	22669234	1.36	16331539	1.07	24165710	1.33	47.97
Mexico	42891102	2.56	23289101	1.52	24016982	1.32	3.13
Japan	20577643	1.23	16903894	1.11	22367419	1.23	32.32
Turkey	20944244	1.25	16678532	1.09	18638791	1.02	11.75
Oman	8520467	0.51	12610017	0.82	16854834	0.93	33.66
Iran	49731116	2.97	24723830	1.62	15217196	0.84	-38.45
Sri Lanka	15471096	0.92	10287219	0.67	14743056	0.81	43.31
Kuwait	4715511	0.28	8082166	0.53	14639005	0.80	81.13
Canada	20558190	1.23	12215894	0.80	11493342	0.63	-5.91
France	11255039	0.67	10412222	0.68	11491340	0.63	10.36
Brazil	13508679	0.81	11257213	0.74	10846415	0.60	-3.65
Ethiopia	9838836	0.59	9894327	0.65	10725869	0.59	8.40
Kenya	10121904	0.61	11154166	0.73	10621782	0.58	-4.77
South Africa	10165144	0.61	9308435	0.61	10418422	0.57	11.92
Australia	10996841	0.66	9314760	0.61	10243639	0.56	9.97
Poland	8057602	0.48	8364060	0.55	8986590	0.49	7.44
Ghana	6188178	0.37	4237087	0.28	7480748	0.41	76.55
Qatar	7929168	0.47	8581349	0.56	6407491	0.35	-25.33
Portugal	4783645	0.29	3392159	0.22	6358017	0.35	87.43
Philippines	3796103	0.23	3321116	0.22	6029799	0.33	81.56
Egypt	8610811	0.51	7896544	0.52	5756023	0.32	-27.11
Russia	7613674	0.46	5073876	0.33	5699775	0.31	12.34
Nigeria	11666792	0.70	9289513	0.61	5657940	0.31	-39.09
Peru	14102894	0.84	10108433	0.66	4949217	0.27	-51.04
Colombia	10053475	0.60	4692555	0.31	4881352	0.27	4.02
Sweden	7002841	0.42	6245695	0.41	4812007	0.26	-22.95
Ecuador	4021939	0.24	2373330	0.16	4802000	0.26	102.33
Other countries	161863578	9.68	133483742	8.73	112075215	6.15	-16.04

Source: DGCI&S, Kolkata.

FOREIGN TRADE

Value of Metals & Alloy Exports, 2015-16 and 2016-17



FOREIGN TRADE

Table-7: Exports of Selected Mineral-based Products, 2014-15 to 2016-17

		(Value in ₹ '000)					
Mineral-based Products	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
All Item		** 2938432100		** 1818342757		** 2005224021	
Aluminium fluoride	tonne	2831	197961	1795	123986	320	26455
Asbestos cement products	tonne	161018	2428932	133004	2103471	69125	1166022
Asbestos fibre products	tonne	31471	4139396	31916	4091562	33973	4523801
Bleaching powder	tonne	16976	667839	16562	568548	13773	271672
Boric acid	tonne	1282	91951	1000	81553	1872	116916
Briquettes of coke, semi-coke of coal	tonne	2317	17065	56372	406604	12343	98293
Calcium carbide	tonne	412	22973	371	20635	493	28383
Caustic soda	tonne	42199	1197330	82238	2383341	84386	2762242
Cement: Total	tonne	6287580	18468589	6222434	16588896	6850808	20017686
Cement (others)	tonne	689099	2407832	1062661	1480316	265944	959027
Cement (portland grey)	tonne	1553248	5151075	2276302	7271078	2563122	8623370
Cement (portland white)	tonne	71246	536679	34351	241478	33181	253062
Cement clinker	tonne	3973987	10373003	2849120	7596024	3988561	10182227
Cryolite and chiolite	tonne	45	4029	38	2620	96	6293
Graphite (artificial)	tonne	16852	1620297	17874	1773019	18181	1600571
Graphite bricks & shapes	tonne	304	3833	219	2774	88	4713
Graphite crucibles	tonne	103	3855	60	2534	12	1478
Hydrofluoric acid	tonne	2291	162607	2792	161045	2644	162160
Manganese oxide: Total	tonne	16449	642152	21850	805062	15659	572813
Manganese dioxide	tonne	3261	105080	2679	91320	2389	77853
Manganese oxides (other than manganese dioxide)	tonne	13188	537072	19171	713742	13270	494960
Petroleum products: Total	'000 tonnes	63932	2885800000	60539	1767800000	65513	1948930000
Non-ferrous ash & residues	tonne	153841	460714	86905	395975	94912	295868
Other refractory manufactures	tonne	110353	5237698	105845	4992006	77928	6236193
Phosphatic fertilisers	tonne	2081	24053	15510	390523	24181	131548
Phosphoric acid	tonne	4014	110979	14955	412097	227	58406
Phosphorus (elemental)	tonne	360	129957	486	178267	455	175773
Potash fertilisers	tonne	39052	1122425	26715	986880	24388	737111
Potassium nitrate	tonne	1133	169325	1103	181931	1015	213902
Refractory bricks	tonne	234488	7377431	191826	8079742	184606	9170777
Silicon carbide crucibles	tonne	3478	674749	3415	610773	5083	639444
Slag (dross, etc. from iron & steel excl. granulated)	tonne	557644	2976616	271213	945575	384821	1390367
Soda ash	tonne	27720	516632	18664	393739	72525	1197987
Sodium nitrate	tonne	75	3355	57	2641	86	5901
Sodium nitrite	tonne	9808	386363	10342	443710	10723	473538
Sulphur sublimed precipitated & colloidal: Total	tonne	12770	1486491	12506	1116630	17020	1861386
Sulphur (colloidal)	tonne	39	1047	2890	17643	43	1179
Sulphur (precipitated)	tonne	155	3645	60	1464	135	4694
Sulphur (sublimed)	tonne	12576	1481799	9556	1097523	16842	1855513
Titanium oxide & dioxide: Total	tonne	37924	2286503	40820	2296618	34042	2346322
Titanium dioxide	tonne	5157	710758	4438	558233	8157	1018032
Titanium oxides (other than titanium dioxides)	tonne	32767	1575745	36382	1738385	25885	1328290

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

Source: 1) DGCI & S, Kolkata.

2) Indian Petroleum and Natural Gas Statistics 2016-17 published by Ministry of Petroleum & Natural Gas

IMPORTS

Ores and Minerals

The value of imports of ores & minerals in 2016-17 accounted for 31.40% of the total value of all merchandise imported into India. During 2016-17, the total value of imports of ores and minerals at ₹ 8,09,445 crore registered a rise of 9.56% as compared to ₹ 7,38,789 crore in the year 2015-16.

Petroleum (crude) continued to be the largest constituent item with a share of 58.6% in the total value of minerals imported in 2016-17. Next in order of importance was diamond with a share of 16.02% followed by coal (excluding lignite) with the contribution of 12.39%, natural gas 4.97%, copper ores & concentrates 2.26% and emerald (cut & uncut) 1.40 percent. The combined share of these six minerals was 95.64% in 2016-17 as against 95.42% in the previous year.

The value of imports of some ores & minerals has significantly increased like coke 70.10%, alumina 45.77%, precious metal ores and concentrates 42.21%, manganese ore 37.98%, bauxite 30.12%, emerald (cut & uncut) 29.98%, zirconium ores and concentrates 23.77%, diamond 17.28%, coal (excl. lignite) 16.50%, precious & semi precious stones (cut & uncut) 17.43%, petroleum (crude) 10.44% and molybdenum ores & concentrate 10.99% during the year 2016-17 as compared to that in the previous year. However, the value of imports in some cases declined by 38.25% in respect of sulphur (excl. sublimed, precipitated and colloidal) followed by iron ore 32.39%, copper ores and concentrates 30.41%, asbestos 24.12%, rock phosphate 24.16% and natural gas 8.07% during the year under review over the previous year.

During 2016-17, minerals were imported from 173 countries. Approximately 96.48% of the total value of imports of ores & minerals was confined to 35 countries. Out of these countries, 19 countries accounted for about 87.70% of the total value of minerals imported in 2016-17. Saudi Arabia occupied the top position in 2016-17 in terms of imports value and accounted for 11.75% of the total mineral imports. Next in the order was UAE with 9.74% share followed by Iraq 9.62%, Iran 7.43%, Australia 6.67%, Nigeria 6.18%, Indonesia 4.71%, Venezuela 4.56%, Belgium 4.24%, Qatar 4.22%, Hong Kong 3.19%, South Africa 2.55%, Russia 2.51%, Kuwait 2.44% and Angola 2.15%, Malaysia 1.69%, Mexico 1.57%, Brazil 1.40% and Botswana 1.08 percent. The individual share of remaining countries was less than one percent.

Around 96% of the total value of imports of ore & minerals was confined to 35 countries. Out of these 35 countries only 19 countries accounted for about 88% of the total value of minerals imported during the year under review. Country-wise analysis of imports of ore and minerals in 2016-17 revealed that imports value from Azerbaijan increased manifold. The other countries which recorded significant increase in the value of imports of ores and minerals more than double during the year were Botswana 160.63%, Algeria 130.26%, Iran 115.01% followed by Russia 90.34%, Equat. Guinea 78.42%, Turkey 78.28%, Malaysia 51.56% and Mexico 35.77 percent. However, imports value showed a decline of 36.99% for Oman, 39.91% for Chile, 33.33% for Cameroon, 21.53% for Nigeria, 20.65% for Belgium and 15.60% for Kuwait (Tables - 8 to 10).

FOREIGN TRADE

Table - 8: Imports of Ores & Minerals, 2014-15 to 2016-17

(Value in ₹ '000)

Ores & Minerals	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
All Minerals		**	10717327996	**	7387889415	**	8094451080
Abrasives (natural)	tonne	5775	80934	4943	63749	4714	54479
Alabaster	tonne	912	24831	970	24062	1056	28668
Alumina	tonne	790305	21244790	998446	22924845	1403569	33417506
Andalusite	tonne	9350	201731	14072	306082	10909	222534
Antimony ores and conc.	tonne	4711	1004076	5330	924223	4756	752103
Arsenic sulphide (natural)	tonne	31	2041	5	297	12	811
Asbestos: Total	tonne	396493	17168105	355686	14865511	310592	11279369
Asbestos (chrysotile)	tonne	396258	17159659	354725	14834080	310592	11279369
Asbestos (others)	tonne	235	8446	961	31431	--	--
Ball clay	tonne	125384	957636	167856	1298484	173359	1368666
Barytes	tonne	7484	146614	8433	189199	8818	202527
Bauxite	tonne	1800689	8560886	1116010	5982901	1894927	7785093
Bentonite	tonne	11002	316055	15225	353709	28616	477965
Borax: Total	tonne	146301	4474017	133551	4429455	129407	4359797
Natural borate	tonne	67430	1590619	53973	1413805	51976	1400792
Sodium borate	tonne	75332	2586805	75974	2739111	67230	2417843
Other borates	tonne	3539	296593	3604	276539	10201	541162
Building & monumental stones, NES	tonne	759539	1438610	521202	1138891	147855	506700
Calcite	tonne	66450	369703	43812	219917	54563	264364
Chalk	tonne	26734	47715	6174	46310	8211	48111
Chromite: Total	tonne	242685	2871479	187663	2266406	154226	2105121
Chrome ore others	tonne	36135	517956	22981	346341	40062	520622
Chrome ore conc.	tonne	11331	196110	11195	206037	11066	167943
Chrome ore lumps	tonne	195219	2157413	153487	1714028	103098	1416556
Clay (others)	tonne	14347	231877	19485	266438	18997	261133
Coal (excl. lignite)	'000 tonnes	212106	1045300819	204000	861073456	191014	1003162924
Coal:lignite	'000 tonnes	++	11131	++	5519	++	652
Coal gas water gas, etc. (except gaseous hydrocarbon)	tonne	++	1290	++	75	--	--
Cobalt ores & conc.	tonne	272	366480	25	44193	--	--
Coke	tonne	3290324	43751479	3019502	31956109	4368063	54356105
Copper ores & conc.	tonne	1702247	285028249	1886199	262965391	1143216	182986972
Corundum (natural)	tonne	--	---	--	--	++	18
Diamond: Total		**	1252140913	**	1105651209	**	1296740696
Diamond (industrial)	carat	520983	298568	527650	495369	954463	798242
Diamond (mostly cut) #		**	1250347957	**	1103784711	**	1294426046
Diamond (powder)	'000 carat	351378	1494388	287431	1371129	387540	1516408

(Contd.)

FOREIGN TRADE

Table-8 (Contd.)

(Value in ₹ '000)

Ores & Minerals	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Diatomite	tonne	2122	87085	2023	87086	3142	113035
Dolomite	tonne	2014760	3146097	1931136	2998295	2010665	2999705
Earth Clay	tonne	4617	2979	12	850	598	3525
Emerald (cut & uncut)		**	63062394	**	87263269	**	113428795
Emerald (uncut)	tonne	32	6432925	42	6643106	8	18249167
Emerald (cut)	'000 carat	65144	56629469	85280	80620163	96284	95179628
Feldspar (natural)	tonne	66749	242645	25716	177877	35582	161647
Feldspar (cut & uncut)		**	9639	**	21267	**	46896
Feldspar (uncut)	tonne	25	7288	1	14827	3	43535
Feldspar (cut)	'000 carat	77	2351	399	6440	585	3361
Fire clay	tonne	4	137	393	16841	1829	60726
Flint	tonne	141	2257	1279	17412	1712	24263
Fluorite/Fluorspar	tonne	155673	2967071	163113	2908707	190446	2992257
Garnet (abrasive)	tonne	647	10297	883	11053	2286	22193
Garnet (cut and uncut)		**	68743	**	62630	**	222296
Garnet (uncut)	tonne	33	59753	7	59778	4	204824
Garnet (cut)	'000 carat	210	8990	26	2852	1571	17472
Granite : Total	tonne	65595	2269307	70288	2474283	51419	1683156
Granite (crude or roughly trimmed)	tonne	44564	1297709	42677	1252865	29740	773768
Granite (cut blocks/slabs)	tonne	6290	210530	14746	371882	12717	303108
Granite (polished blocks/tiles)	tonne	5017	130523	2663	76453	2273	87216
Granite (others)	tonne	9724	630545	10202	773083	6689	519064
Graphite (natural)	tonne	28552	1335288	26160	1213354	37046	1391091
Gypsum	tonne	4421048	6747745	4068412	5713627	4423811	6051112
Iron Ore: Total	'000 tonnes	12093	65947375	7099	31971444	4607	21615219
Iron ore conc: non agglomerated	'000 tonnes	4939	24964666	2565	11462874	2352	10404621
Iron ore fines	'000 tonnes	4837	25280627	2543	10392709	866	3825369
Iron ore lumps	'000 tonnes	1657	10498110	1709	8162529	994	4824935
Iron ore pellets	'000 tonnes	656	5151575	279	1907301	392	2520827
Iron ore pyrites	'000 tonnes	4	52397	3	46031	3	39467
Kaolin	tonne	93322	1662634	118524	1996776	142928	2393952
Kieselguhr	tonne	20	803	++	73	++	139
Kyanite	tonne	508	17006	478	16913	748	16619
Lead ores & conc.	tonne	39441	3846804	5334	264663	6217	318697
Limestone	tonne	13943781	22138585	17187164	23772768	18300359	24384182

(Contd.)

FOREIGN TRADE

Table-8 (Contd.)

(Value in ₹ '000)

Ores & Minerals	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Magnesite : Total	tonne	102077	3327761	118788	3256840	142599	3089947
Magnesia (fused)	tonne	5993	245797	10348	430234	7961	335634
Magnesite (not calcined)	tonne	9286	48413	33166	146403	53833	158425
Magnesite (calcined)	tonne	12347	458054	4019	146577	11062	259910
Magnesite:dead-burnt magnesia	tonne	42316	1423690	46306	1589859	40332	1218748
Magnesium oxide	tonne	18687	616177	15024	575690	15549	583658
Magnesite (other)	tonne	13448	535630	9925	368077	13862	533572
Manganese Ore: Total	tonne	3172858	34669120	2216864	17413688	1908258	24028138
Manganese ore (46% or more Mn)	tonne	892093	11730476	588896	5376550	349679	4713328
Manganese ore (35% or more but below 46% Mn)	tonne	2090849	21380159	1385986	10479877	1058082	12582178
Manganese ore (30% or more but below 35% Mn)	tonne	170570	1426501	199508	1358838	90339	794569
Manganese ore (ferruginous, 10 % Or More but below 30%)	tonne	19345	129611	27362	120220	30069	232961
Manganese ore (others)	tonne	1	2373	15112	78203	380089	5705102
Marble : Total	tonne	778503	23839858	858061	27392157	882265	26142989
Marble (dressed)	tonne	640645	14860505	715794	17764553	724933	15714716
Marble (others)	tonne	137858	8979353	142267	9627604	157332	10428273
Mica: Total	tonne	2240	703135	2471	895589	3257	944983
Mica (Unmanufactured)	tonne	967	38596	984	56495	1909	86177
Mica (blocks)	tonne	3	520	73	3803	193	6295
Mica (powder)	tonne	298	23158	317	27701	468	40779
Mica (splittings)	tonne	597	13218	590	24045	878	30511
Mica (waste & scrap)	tonne	69	1700	4	946	370	8592
Mica (Worked)	tonne	1273	664539	1487	839094	1348	858806
Mica (cond. films, plates, cuts NES)	tonne	3	3273	14	4457	2	3963
Mica (washers & discs)	tonne	17	11968	++	98	++	240
Mica (sheets & strips)	tonne	369	34820	187	21668	91	15209
Micanite & other built-up mica	tonne	-	-	++	1	-	-
Mica (bricks)	tonne	++	58	-	-	-	-
Mica worked (others)	tonne	884	614420	1286	812870	1255	839394
Molybdenum ores & conc.	tonne	8093	8646302	7511	4903721	7139	5442499
Natural gas	tonne	13289155	563400559	14376924	437824474	17783327	402490252
Nickel ores & concs.	tonne	4185	3842487	3295	2453862	1062	818094
Niobium or tantalum ores and conc.	tonne	115	179733	191	246581	169	284038

(Contd.)

FOREIGN TRADE

Table-8 (Concl.)

(Value in ₹ '000)

Ores & Minerals	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Ochre: Total	tonne	176	25953	135	33919	122	19061
Ochre: (earth colours)	tonne	37	1823	48	3860	80	4723
Ochre: (yellow ochre)	tonne	18	5211	7	4877	26	9861
Ochre: (persian red)	tonne	++	96	2	1840	2	1573
Ochre: (red oxide)	tonne	121	18823	78	23342	14	2904
Petroleum (crude)	'000 tonnes	187913	7093793565	202314	4293999336	214886	4742189329
Precious & semi-precious stones (cut & uncut): Total		**	14675049	**	21000369	**	24660623
Precious & semi-precious stones (uncut)	tonne	1440	11430258	733	18329975	1627	21217503
Precious & semi-precious stones (cut)	'000 carat	119716	3244791	49389	2670394	52805	3443120
Precious metal ores & concentrates	kg	101602	22252599	78654	13658295	83322	19423078
Quartz & quartzite: Total	tonne	215	10403	1224	43801	383	12001
Quartz (natural)	tonne	31	2010	1027	33656	237	6124
Quartzite (natural)	tonne	184	8393	197	10145	146	5877
Rock phosphate	tonne	8273261	61888711	8037745	65290422	7511445	49513134
Salt (other than common salt)	tonne	41300	113604	55642	173741	52901	173687
Sand, (excl. metal bearing)	tonne	58237	98437	165150	375079	31668	140869
Sandstone	tonne	++	18	26	3101	++	21
Silica Sand	tonne	76529	556336	18788	226224	102430	516410
Sillimanite	tonne	116	10754	214	9044	24	3029
Slate	tonne	472	16814	134	11295	18	5323
Talc/Steatite/Soapstone: Total	tonne	3693	130505	4533	198575	3593	204909
Steatite lumps	tonne	908	7135	55	779	107	887
Steatite powder & others	tonne	2785	123370	4478	197796	3486	204022
Sulphur (excl. sublimed precipitated & colloidal)	tonne	1626407	17445433	1432632	14172610	1345520	8751428
Tin ores & conc.	tonne	-	-	82	58039	68	37334
Titanium ores & conc.: Total	tonne	51991	971521	106422	1637170	39444	867776
Titanium ores & conc. (ilmenite)	tonne	40894	408590	90991	916146	25121	252948
Titanium ores & conc. (rutile)	tonne	8736	447124	11649	557798	9322	427599
Titanium ores & conc. (others)	tonne	2361	115807	3782	163226	5001	187229
Tripoli earth	tonne	-	-	20	825	19	817
Tungsten ores & conc.	tonne	191	61582	78	34080	283	29630
Vanadium ores & others	tonne	19	1378	64	6301	268	15868
Vermiculite (raw)	tonne	391	11486	439	15093	551	14412
Witherite	tonne	184	5261	++	20	-	-
Wollastonite	tonne	1948	32549	2818	53218	3483	73052
Zinc ores & conc.	tonne	35696	1693837	385	18721	1771	86640
Zirconium ores & conc.	tonne	47656	3331466	53208	3691649	73932	4569039
Other minerals, NES	tonne	74553	2285428	59203	805957	299438	1590851

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, 2014-15 to 2016-17
(By Principal Ores/Minerals)**

Ores & Minerals	2014-15		2015-16		2016-17 (P)		% increase (+) or decrease (-) in 2016-17 over 2015-16
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Minerals	10717327996	100.00	7387889415	100.00	8094451080	100.00	9.56
Petroleum (crude)	7093793565	66.19	4293999336	58.12	4742189329	58.59	10.44
Diamond	1252140913	11.68	1105651209	14.97	1296740696	16.02	17.28
Coal (excluding lignite)	1045300819	9.75	861073456	11.66	1003162924	12.39	16.50
Natural gas	563400559	5.26	437824474	5.93	402490252	4.97	-8.07
Copper ores & conc.	285028249	2.66	262965391	3.56	182986972	2.26	-30.41
Emerald (cut & uncut)	63062394	0.59	87263269	1.18	113428795	1.40	29.98
Coke	43751479	0.41	31956109	0.43	54356105	0.67	70.10
Rock phosphate	61888711	0.58	65290422	0.88	49513134	0.61	-24.16
Alumina	21244790	0.20	22924845	0.31	33417506	0.41	45.77
Marble	23839858	0.22	27392157	0.37	26142989	0.32	-4.56
Precious & semi-precious stones (cut & uncut):Total	14675049	0.14	21000369	0.28	24660623	0.30	17.43
Limestone	22138585	0.21	23772768	0.32	24384182	0.30	2.57
Manganese ore	34669120	0.32	17413688	0.24	24028138	0.30	37.98
Iron ore	65947375	0.62	31971444	0.43	21615219	0.27	-32.39
Precious metal ores & concentrates	22252599	0.21	13658295	0.18	19423078	0.24	42.21
Asbestos	17168105	0.16	14865511	0.20	11279369	0.14	-24.12
Sulphur (excluding sublimed precipitated & colloidal)	17445433	0.16	14172610	0.19	8751428	0.11	-38.25
Bauxite	8560886	0.08	5982901	0.08	7785093	0.10	30.12
Gypsum	6747745	0.06	5713627	0.08	6051112	0.07	5.91
Molybdenum ores & conc.	8646302	0.08	4903721	0.07	5442499	0.07	10.99
Zirconium ores & conc.	3331466	0.03	3691649	0.05	4569039	0.06	23.77
Borax	4474017	0.04	4429455	0.06	4359797	0.05	-1.57
Other minerals	37819977	0.35	29972709	0.41	27672801	0.34	-7.67

Source: DGCI&S, Kolkata.

FOREIGN TRADE

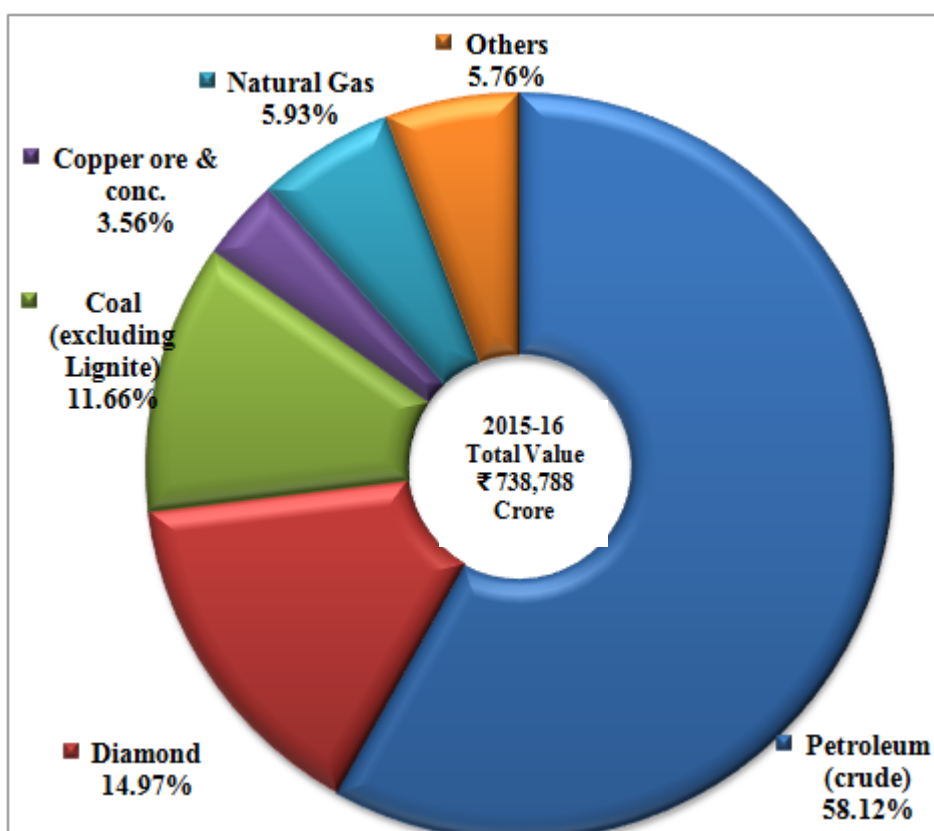
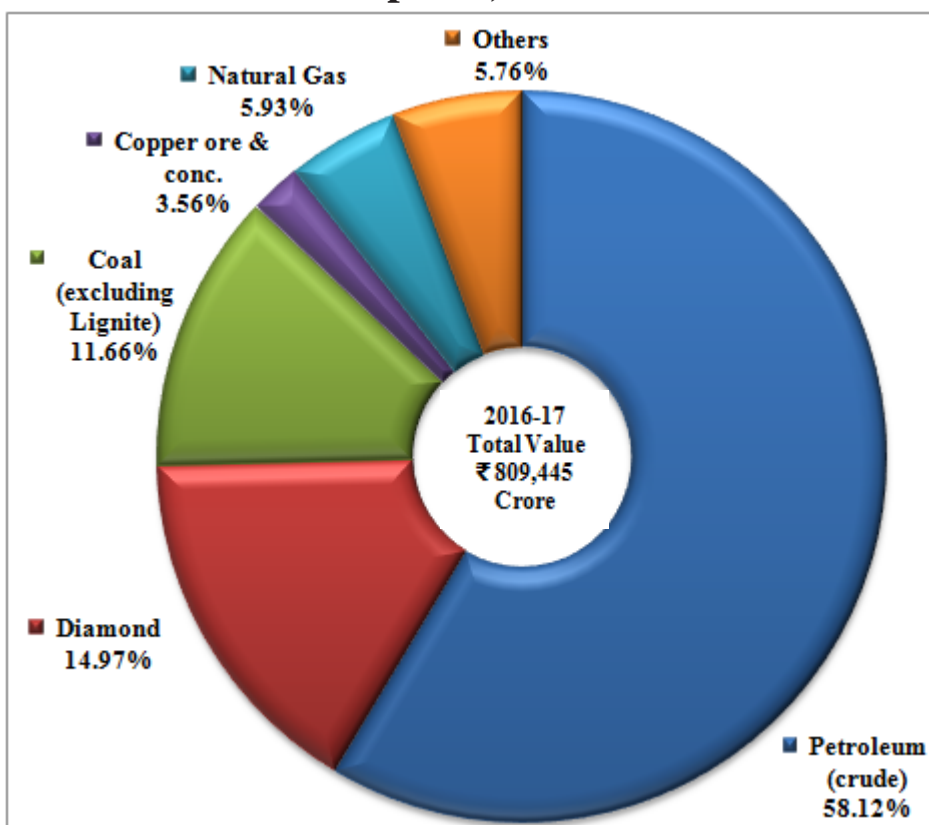
**Table- 10 : Value of Imports of Ores & Minerals, 2014-15 to 2016-17
(By Principal Countries)**

Country	2014-15		2015-16		2016-17 (P)		% increase (+) or decrease (-) in 2016-17 over 2015-16
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Countries	10717327996	100.00	7387889415	100.00	8094451080	100.00	9.56
Saudi Arabia	1370535032	12.79	917829923	12.42	951489440	11.75	3.67
UAE	951364882	8.88	629011059	8.51	788405664	9.74	25.34
Iraq	863280130	8.05	700457091	9.48	779032785	9.62	11.22
Iran	429716766	4.01	279566740	3.78	601091548	7.43	115.01
Australia	438333023	4.09	393311990	5.32	539958186	6.67	37.28
Nigeria	825407852	7.70	637927090	8.63	500589811	6.18	-21.53
Indonesia	488117984	4.55	375549119	5.08	380914748	4.71	1.43
Venezuela	708584334	6.61	369980764	5.01	369226719	4.56	-0.20
Belgium	547991797	5.11	432768913	5.86	343382955	4.24	-20.65
Qatar	612836239	5.72	398208928	5.39	341719994	4.22	-14.19
Hong Kong	190373820	1.78	206867821	2.80	257993200	3.19	24.71
South Africa	212310388	1.98	198385759	2.69	206426344	2.55	4.05
Russia	79588423	0.74	106681143	1.44	203056251	2.51	90.34
Kuwait	701194508	6.54	234322605	3.17	197779296	2.44	-15.60
Angola	276429976	2.58	179369997	2.43	173825033	2.15	-3.09
Malaysia	156550524	1.46	90164218	1.22	136649687	1.69	51.56
Mexico	164708274	1.54	93883096	1.27	127465888	1.57	35.77
Brazil	190806575	1.78	105711399	1.43	112929573	1.40	6.83
Botswana	61154272	0.57	33606492	0.45	87586948	1.08	160.63
USA	72679363	0.68	71162041	0.96	75946111	0.94	6.72
Israel	67941470	0.63	69375997	0.94	75388236	0.93	8.67
Chile	165200072	1.54	112588478	1.52	67655852	0.84	-39.91
Canada	55681180	0.52	55430779	0.75	67003367	0.83	20.88
Egypt	91902190	0.86	61130168	0.83	60733411	0.75	-0.65
Equitl. Guinea	45573279	0.43	29951093	0.41	53437826	0.66	78.42
China	41604471	0.39	41743217	0.57	43123929	0.53	3.31
Brunei	50981294	0.48	35877836	0.49	42067915	0.52	17.25
Algeria	27894840	0.26	15042370	0.20	34636630	0.43	130.26
Turkey	46352596	0.43	19265378	0.26	34346129	0.42	78.28
Peru	21852209	0.20	21579274	0.29	30741018	0.38	42.46
Azerbaijan	11153496	0.10	3973459	0.05	30655595	0.38	671.51
Oman	51220590	0.48	43634276	0.59	27491815	0.34	-36.99
Kazakhstan	36571597	0.34	20982643	0.28	24718250	0.31	17.80
Mozambique	13890172	0.13	16000997	0.22	21263047	0.26	32.89
Cameroon	42953833	0.40	31629208	0.43	21087498	0.26	-33.33
Other countries	604590545	5.64	354918054	4.80	284630381	3.52	-19.80

Source: DGCI&S, Kolkata.

FOREIGN TRADE

Value of Mineral Imports, 2015-16 and 2016-17



Metals & Alloys

The value of imports of metals & alloys at ₹ 3,37,788 crore showed a decrease of 13.47% in 2016-17 as compared to ₹ 3,90,371 crore in the previous year. The contribution of metals & alloys in the total value of all merchandise imported to India was about 13.10 percent in 2016-17.

Gold, non-monetary & monetary (total) with a share of 54.46% continued to occupy the top position in the total value of imports of metals and alloys in 2016-17. Iron & steel came in second place and accounted a share of 21.46%, aluminium & alloys including scrap occupied the third place with a share of 6.91% and copper and alloys incl. brass and bronze occupied the fourth place with a share of 6.73 percent. Next in order were silver, ferroalloys, zinc & alloys including scrap, lead & alloys including scrap, nickel & alloys including scrap contributing 3.65%, 1.51%, 1.39%, 1.19% and 1.10%, respectively. The individual share of remaining metals was less than one percent of the total value of metals & alloys.

The value of imports of the metals & alloys which have shown significant growth are zinc & alloys including scrap 56.19%, manganese & alloys including waste & scrap 32.50%, magnesium & scrap 28.91%, lead & alloys including scrap 24.64%, pig & cast iron (incl. spiegeleisen) 21.26% and ferroalloys 15.58% in 2016-17 as compared to that in the previous year. On the other hand, during 2016-17, the value of imports of metals and alloys that have a declining trend are silver 49%, nickel & alloys including scrap 36.68%, iron & steel 21.69%, gold (non-monetary and monetary) 11.34%, platinum alloys & related metals 8.54% and tin & alloys including

scrap 8.02% as compared to the previous year.

India imported metals & alloys from 200 countries in 2016-17 as against 185 countries in 2015-16. Bulk of the metal and alloys having share more than 1% to total value was imported from 19 countries which accounted for 85.01% of the total value of metals & alloys imported in 2016-17. Switzerland occupied the top position with a share of 30.85% of the total value of metal imports in 2016-17 followed by UAE in second place with a share of 9.06 percent. The countries next in order were China which occupied the third place with a share of 8.17% and Korea Rep. of was at the fourth place with a share of 5.17 percent. The share of other countries were USA 4.84%, South Africa 4.18%, Ghana 3.55%, Japan 2.91% and Malaysia 2.18%. The individual share of UK 1.88%, Germany 1.76%, Hong Kong 1.71%, Australia 1.40%, Zambia 1.33%, Dominican Republic 1.30%, Russia 1.25%, Peru & Indonesia 1.19% each, Thailand 1.09% and that of remaining countries was less than one percent.

During the year under review, imports in terms of value from Hong Kong increased by more than three times and Mexico by more than 100%. The other countries which have recorded positive growth in imports are Turkey 99.29%, Vietnam 75.10%, Zambia 53.68%, Bangladesh 51.69% and Lao Pd. Rep. 50.57% as compared to previous year. Imports of selected mineral-based products during 2014-15 to 2016-17 are furnished in Table-14.

On the other hand the value of imports of metals & alloys, showed a declining trend for UK 58.57%, Australia 47.89%, Russia 47.23%, Colombia 45.87%, Singapore 36.08%, Ghana 34.43% and Ginea 35.83% (Tables - 11 to 13).

FOREIGN TRADE

Table- 11: Imports of Metals and Alloys, 2014-15 to 2016-17

(Value in ₹ '000)

Metals & Alloys	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
All Metals & alloys		**	4012592043	**	3903716916	**	3377884248
Aluminium & alloys incl. scrap	tonne	1638434	228778054	1670538	224193035	1750582	233259468
Antimony alloys & scrap	tonne	1024	583886	1163	520244	864	396709
Bismuth & scrap	tonne	174	267473	205	197694	207	159311
Boron	tonne	1	2863	++	1280	1	9076
Cadmium & scrap	tonne	2862	339575	5053	372979	4737	446607
Chromium alloys & scrap	tonne	1001	640994	840	540333	982	534573
Cobalt alloys & scrap: Total	tonne	864	2048322	813	1799462	902	1972147
Cobalt & alloys	tonne	856	2042414	813	1799262	902	1972147
Cobalt & scrap	tonne	8	5908	++	200	-	-
Copper & alloys (incl. brass & bronze): Total	tonne	490190	196576602	619885	215201921	656057	227236243
Brass & bronze	tonne	24369	10868131	28597	10903116	26101	10969804
Brass & bronze (scrap)	tonne	113006	30846271	123124	29807286	125088	29831631
Copper & alloys	tonne	298967	133578287	409387	154428567	458731	171225797
Copper (scrap)	tonne	53848	21283695	58777	20062952	46137	15209011
Copper alloys & scrap	tonne	++	218	-	-	-	-
Copper (cement copper precipitated)	tonne	5	3089	-	-	++	31
Ferroalloys : Total	tonne	336575	47686136	361997	44137175	468245	51012884
Ferro boron	tonne	822	177769	966	179916	1349	181830
Ferro chrome	tonne	70834	7295272	91263	7703306	73433	8004752
Ferroalloys: charge-chrome	tonne	22678	1405744	32045	1710279	11151	549561
Ferro manganese	tonne	78362	5506866	47273	2983426	109605	6197334
Ferro molybdenum	tonne	952	1571945	704	640857	1026	741934
Ferro nickel	tonne	20840	15042595	40207	15410698	62768	17396666
Ferro niobium	tonne	1570	3751259	1572	3837041	1783	3737118
Ferro phosphorous	tonne	2244	64133	2126	57588	3098	62679
Ferro silicon	tonne	127988	10422863	139258	10114698	195086	12618930
Ferro titanium	tonne	2352	778277	2180	633541	2722	579422
Ferro tungsten	tonne	55	120791	7	11777	3	5266
Ferro vanadium	tonne	653	923629	347	406343	311	372113
Ferro-zirconium	tonne	532	86979	313	47515	339	45224
Ferro silico-chrome	tonne	25	1273	27	1469	25	2967
Ferro silico-magnesium	tonne	440	42614	399	35592	345	32588
Ferro silico-manganese	tonne	3630	144223	177	9513	1623	86025
Ferro alloys (others)	tonne	2598	349904	3133	353616	3578	398475

(Contd.)

FOREIGN TRADE

Table-11 (Contd.)

(Value in ₹ '000)

Metals & Alloys	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Gold (non-monetary & monetary):Total	kg	915473	2106580447	968075	2074874959	778449	1839601333
Gold-monetary	kg	-	-	-	-	-	-
Gold-nonmonetary: Total	kg	915473	2106580447	968075	2074874959	778449	1839601333
Gold, non-monetary/Powder	kg	2	18	33	76629	2	104
Gold, non-Monetary: other semi manufactured forms	kg	12097	24134381	8201	19175264	13021	9363178
Gold, non-monetary, other unwrought forms	kg	903374	2082446048	959841	2055623066	765426	1830238051
Gold-clad metal/base metals,NES	tonne	++	3959	++	4965	++	4605
Iron & Steel : Total	tonne	17656424	940534386	21898078	925898939	14706046	725054176
Iron & steel (finished steel incl. Cr sheet)	tonne	5103922	334161462	5289563	311617460	3765493	257185561
Iron & steel (semi-finished steel incl. steel ingots)	tonne	5404921	210107343	8028420	230065929	3686644	126547223
Iron & steel (steel wire)	tonne	192704	15295353	220535	15585165	246958	17576290
Iron & Steel (sponge iron)	tonne	143129	3331349	31226	600355	38136	560414
Iron & Steel (scrap)	tonne	5935948	203477830	7218869	184440584	5719949	137854665
Iron & steel: alloy steel (granules)	tonne	18570	852396	16076	761179	18641	797026
Iron & steel: alloy steel (powder)	tonne	2505	587519	2433	584090	1681	347979
Iron & steel (other finished steel, NES)	tonne	519581	147098429	700871	158830312	618654	155314158
Iron & steel material	tonne	281334	16148361	334058	14272034	534533	20233081
Iron & steel (stainless steel)	tonne	53810	9474344	56027	9141831	75357	8637779
Lead and alloys & scrap: Total	tonne	295474	38467363	268607	32144471	304913	40065602
Lead & alloys	tonne	234743	31599899	209883	26265198	238262	32861867
Lead (scrap)	tonne	60731	6867464	58724	5879273	66651	7203735
Magnesium & scrap	tonne	19271	3167018	20187	3054942	25029	3938055
Manganese & alloys (incl waste & scrap): Total	tonne	30932	4232257	29045	3606505	37436	4778615
Manganese & alloys: (wrought & unwrought)	tonne	29860	4088323	28850	3564075	37288	4756709
Manganese & alloys, NES	tonne	1072	143934	195	42430	106	19851
Manganese waste & scrap	tonne	-	-	-	-	42	2055
Mercury	tonne	99	341691	228	486156	273	426734
Molybdenum & scrap	tonne	373	1268948	351	1148230	398	1104069

(Contd.)

FOREIGN TRADE

Table-11 (Concl..)

(Value in ₹ '000)

Metals & Alloys	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Nickel and alloys incl. scrap: Total	tonne	76201	85078105	71080	58556855	49539	37077252
Nickel & alloys	tonne	73647	83811134	69070	57724031	46878	35988099
Nickel (scrap)	tonne	2554	1266971	2010	832824	2661	1089153
Other rare metals, NES	tonne	231	543397	172	486696	276	487052
Pig & cast iron incl. spiegeleisen	tonne	68887	4591408	62422	3979009	77264	4824785
Platinum alloys & related metals	kg	7818	15247930	8536	13756840	7072	12581542
Platinum (powder, unwrought & others)	kg	3900	9251187	3740	7742374	3861	8411508
Other metals of platinum group	kg	3918	5996743	4796	6014466	3211	4170034
Platinum - clad base /precious metal	kg	27	22865	3	736	21	15916
Precious metals / metals clad with precious metals	tonne	++	960	++	533638	++	206058
Selenium	tonne	263	867524	317	527902	539	527923
Silicon	tonne	42296	5689328	46252	5651587	49804	5506073
Silver	tonne	7708	276863750	7428	244357988	3359	123293266
Silver clad base metal	kg	2774	28253	189	1185	138	2964
Tantalum & scrap: Total	tonne	3	55041	6	70619	2	50893
Tantalum alloys unwrought	tonne	3	54628	6	70561	2	50858
Tantalum & scrap	tonne	++	413	++	58	++	35
Tellurium	tonne	6	42663	2	16249	2	13212
Tin & alloys (incl. scrap): Total	tonne	9423	12485758	12500	12736791	9179	11714969
Tin & alloys	tonne	9197	12383457	12110	12619957	9033	11625659
Tin (scrap)	tonne	++	79	-	-	++	150
Tin & alloys : worked	tonne	226	102222	390	116834	146	89160
Titanium & alloys (incl. waste & scrap)	tonne	2007	3360378	1869	3062798	2937	2914906
Tungsten and alloys incl. scrap	tonne	437833	1868711	384803	1591491	400849	1558902
Zinc and alloys (incl. scrap)	tonne	250182	34291939	227303	30128362	310820	47056547
Zinc & alloys	tonne	166519	24899842	168359	23734742	241074	38274764
Zinc (scrap)	tonne	83663	9392097	58944	6393620	69746	8781783
Zirconium & scrap	tonne	9	30970	37	74880	27	51750

Source: DGCI & S, Kolkata

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

FOREIGN TRADE

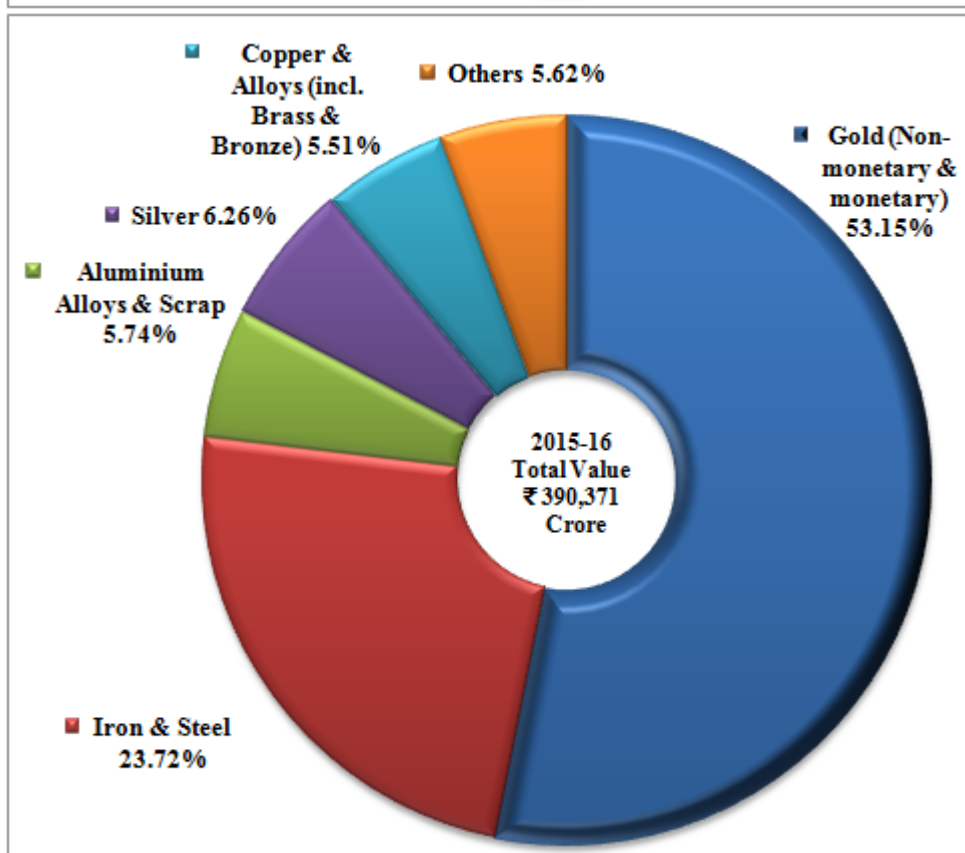
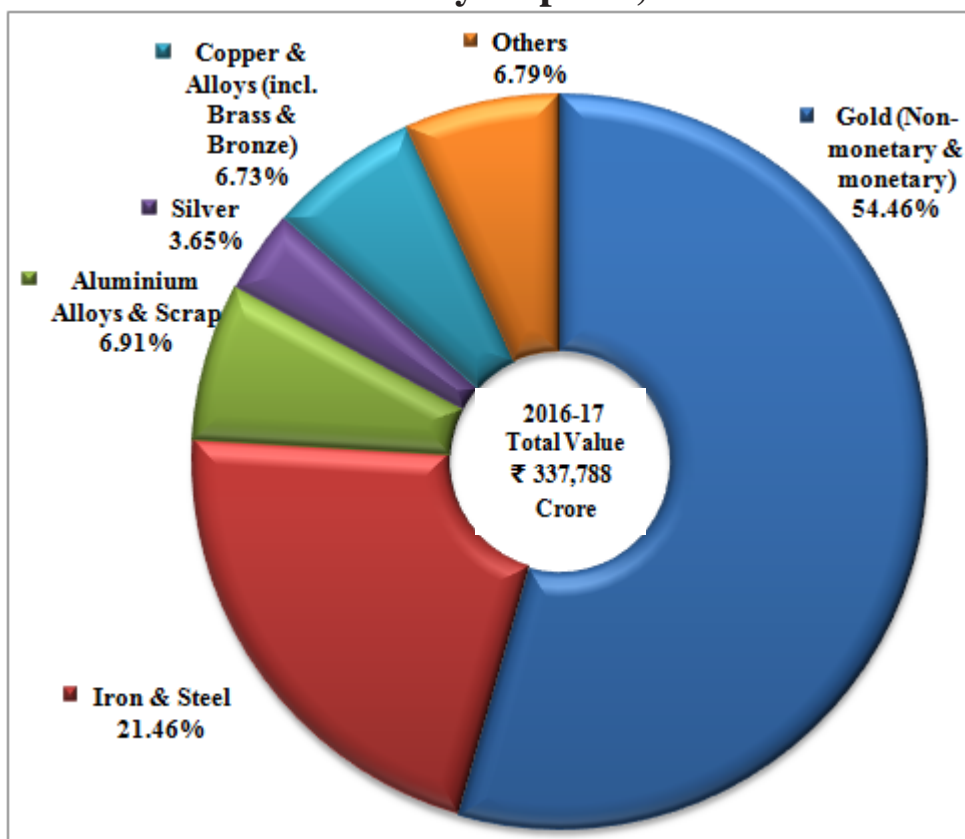
**Table- 12: Value Imports of Metals and Alloys, 2014-15 to 2016-17
(By Principal Metals & Alloys)**

Metals & Alloys	2014-15		2015-16		2016-17 (P)		% increase (+) or decrease (-) in 2016-17 over 2015-16
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Metals & Alloys	4012592043	100.00	3903716916	100.00	3377884248	100.00	-13.47
Gold (non-monetary & monetary):Total	2106580447	52.50	2074874959	53.15	1839601333	54.46	-11.34
Iron & steel	940534386	23.44	925898939	23.72	725054176	21.46	-21.69
Aluminium and alloys incl. scrap	228778054	5.70	224193035	5.74	233259468	6.91	4.04
Copper & alloys (incl. brass & bronze)	196576602	4.90	215201921	5.51	227236243	6.73	5.59
Silver	276863750	6.90	244357988	6.26	123293266	3.65	-49.54
Ferroalloys	47686136	1.19	44137175	1.13	51012884	1.51	15.58
Zinc and alloys incl. scrap	34291939	0.85	30128362	0.77	47056547	1.39	56.19
Lead and alloys incl. scrap	38467363	0.96	32144471	0.82	40065602	1.19	24.64
Nickel and alloys incl. scrap	85078105	2.12	58556855	1.50	37077252	1.10	-36.68
Platinum alloys & related metals	15247930	0.38	13756840	0.35	12581542	0.37	-8.54
Tin and alloys incl. scrap	12485758	0.31	12736791	0.33	11714969	0.35	-8.02
Silicon	5689328	0.14	5651587	0.14	5506073	0.16	-2.57
Pig & cast iron (incl. spiegeleisen)	4591408	0.11	3979009	0.10	4824785	0.14	21.26
Manganese & alloys (incl. waste & scrap)	4232257	0.11	3606505	0.09	4778615	0.14	32.50
Magnesium & scrap	3167018	0.08	3054942	0.08	3938055	0.12	28.91
Titanium & alloys (incl. waste & scrap)	3360378	0.08	3062798	0.08	2914906	0.09	-4.83
Cobalt & alloys (incl. waste and scrap)	2048322	0.05	1799462	0.05	1972147	0.06	9.60
Tungsten and alloys incl. scrap	1868711	0.05	1591491	0.04	1558902	0.05	-2.05
Other metals & alloys	5044151	0.13	4983786	0.13	4437483	0.13	-10.96

Source: DGCI&S, Kolkata.

FOREIGN TRADE

Value of Metals & Alloy Imports, 2015-16 and 2016-17



FOREIGN TRADE

**Table-13 : Value Imports of Metals and Alloys, 2014-15 to 2016-17
(By Principal Countries)**

Country	2014-15		2015-16		2016-17 (P)		% increase (+) or decrease (-) in 2016-17 over 2015-16
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
All Countries	4012592043	100.00	3903716916	100.00	3377884248	100.00	-13.47
Switzerland	1240708485	30.92	1146991946	29.38	1041952419	30.85	-9.16
UAE	374474670	9.33	318568110	8.16	306072578	9.06	-3.92
China	404219154	10.07	328822442	8.42	275970878	8.17	-16.07
Korea, Rep. of	181306067	4.52	190635514	4.88	174512993	5.17	-8.46
USA	227787599	5.68	234325484	6.00	163599382	4.84	-30.18
South Africa	151197771	3.77	145129719	3.72	141320668	4.18	-2.62
Ghana	66582595	1.66	182880400	4.68	119917980	3.55	-34.43
Japan	127005318	3.17	134646970	3.45	98460304	2.91	-26.88
Malaysia	73989568	1.84	68810136	1.76	73701485	2.18	7.11
UK	130244471	3.25	153155694	3.92	63452418	1.88	-58.57
Germany	85399273	2.13	66329020	1.70	59478969	1.76	-10.33
Hong Kong	26343249	0.66	13537080	0.35	57804394	1.71	327.01
Australia	128915103	3.21	90912273	2.33	47377871	1.40	-47.89
Zambia	14275850	0.36	29168207	0.75	44825046	1.33	53.68
Dominican Rep	17041592	0.42	29996400	0.77	43804644	1.30	46.03
Russia	78238199	1.95	79827982	2.04	42126964	1.25	-47.23
Peru	13532524	0.34	31358067	0.80	40288501	1.19	28.48
Indonesia	20031549	0.50	37122031	0.95	40099062	1.19	8.02
Thailand	34431380	0.86	34300192	0.88	36752845	1.09	7.15
Canada	24864321	0.62	41028775	1.05	32835425	0.97	-19.97
Vietnam	18954679	0.47	15455002	0.40	27061478	0.80	75.10
Singapore	47734323	1.19	41598546	1.07	26591488	0.79	-36.08
Saudi Arabia	36497505	0.91	27980654	0.72	26216743	0.78	-6.30
Tanzania	38212216	0.95	32572956	0.83	21989326	0.65	-32.49
Italy	25720149	0.64	25535317	0.65	21646563	0.64	-15.23
France	24707085	0.62	17455781	0.45	21027928	0.62	20.46

(Contd.)

FOREIGN TRADE

Table-13 (Concl.)

Country	2014-15		2015-16		2016-17 (P)		% increase (+) or decrease (-) in 2016-17 over 2015-16
	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	Value (₹'000)	% share in total value	
Brazil	35593908	0.89	32696415	0.84	20686814	0.61	-36.73
Chinese Taipei/Taiwan	32365463	0.81	23581072	0.60	17948278	0.53	-23.89
Netherlands	24292623	0.61	18111463	0.46	17364685	0.51	-4.12
Colombia	19560802	0.49	29755824	0.76	16105347	0.48	-45.87
Belgium	22787766	0.57	18090812	0.46	14386305	0.43	-20.48
Burkina Faso	6735775	0.17	14121336	0.36	13765881	0.41	-2.52
Oman	11698038	0.29	13039165	0.33	13353269	0.40	2.41
Turkey	15444255	0.38	6200244	0.16	12356602	0.37	99.29
Austria	5690425	0.14	9916254	0.25	11487680	0.34	15.85
Bolivia	5266	0.00	15520792	0.40	11466680	0.34	-26.12
Bahrain	11491174	0.29	12926876	0.33	10486437	0.31	-18.88
Mexico	2640775	0.07	3836954	0.10	10209403	0.30	166.08
Sweden	16978808	0.42	10839564	0.28	9355857	0.28	-13.69
Guinea	19874509	0.50	14208009	0.36	9117078	0.27	-35.83
Spain	11855524	0.30	11041947	0.28	9042932	0.27	-18.10
Qatar	6448893	0.16	6892206	0.18	8128024	0.24	17.93
Poland	8757238	0.22	7431406	0.19	7761887	0.23	4.45
Lao, Pd. Rep.	396135	0.01	5037341	0.13	7584872	0.22	50.57
Norway	8372870	0.21	6329650	0.16	6880153	0.20	8.70
Congo, P. Rep.	5154569	0.13	4803056	0.12	5977749	0.18	24.46
Bhutan	6229049	0.16	5348954	0.14	5846399	0.17	9.30
Philippines	1850486	0.05	5710603	0.15	5106567	0.15	-10.58
Kuwait	7617499	0.19	4592011	0.12	4628172	0.14	0.79
Finland	5325109	0.13	5690479	0.15	4475898	0.13	-21.34
Nepal	8142656	0.20	4164064	0.11	4136649	0.12	-0.66
Bangladesh	2779716	0.07	2609622	0.07	3958653	0.12	51.69
Other countries	102088017	2.54	93076099	2.38	67377625	1.99	-27.61

Source: DGCI&S, Kolkata.

FOREIGN TRADE

Table- 14: Imports of Selected Mineral-Based Products, 2014-15 to 2016-17

(Value in ₹ '000)

Mineral-based Product	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
All Item		**	995442647	**	910925284	**	943148485
Aluminium fluoride	tonne	30120	2025904	27258	1810221	46564	2643714
Asbestos cement products	tonne	24216	491702	26385	494037	28416	526153
Asbestos fibre products	tonne	5778	2665795	5459	2735037	5227	2711359
Bleaching powder	tonne	++	55	++	3	--	--
Boric acid	tonne	17305	859435	15183	732378	20529	897345
Briquettes of coke, semi-coke of coal	tonne	25	1055	--	--	296	5915
Calcium carbide	tonne	78331	3152508	61936	2542903	55691	2365221
Caustic soda	tonne	409372	9406338	484133	11702098	425734	11237080
Cement : Total	tonne	1100004	4948706	1358862	6117578	2037600	8531912
Cement (others)	tonne	173184	1490483	160385	1326230	149286	1251500
Cement (portland grey)	tonne	865082	3063570	950287	3645654	1552088	6057382
Cement (portland white)	tonne	13187	111018	12597	97780	11413	97394
Cement clinker	tonne	48551	283635	235593	1047914	324813	1125636
Cryolite and chiolite	tonne	37061	816746	16497	448797	29796	447618
Graphite (artificial)	tonne	29350	2807319	27696	2818434	43768	4137126
Graphite bricks & shapes	tonne	126	43268	155	66981	46	17165
Graphite crucibles	tonne	1339	74886	58	4879	71	2005
Hydrofluoric acid	tonne	2156	157766	2251	151943	314	26497
Manganese oxide: Total	tonne	12501	927036	13191	961951	19502	1081332
Manganese dioxide	tonne	7847	651540	8225	743182	9572	760079
Manganese oxides (other than Mn dioxide)	tonne	4654	275496	4966	218769	9930	321253
Petroleum products: Total	'000 tonnes	21301	746440000	29456	653610000	35413	707270000
Non-ferrous ash & residues	tonne	51510	3169134	39115	2727590	51434	3510047
Other refractory manufactures	tonne	20611	2880868	43237	3770691	22521	2930474
Phosphatic fertilisers	tonne	110	6369	145	8951	106	6357
Phosphoric acid	tonne	1798213	83022269	2192097	109650501	2490986	98873274

(Contd.)

FOREIGN TRADE

Table-14 (Concl'd..)

(Value in ₹ '000)

Mineral-based Product	Unit	2014-15		2015-16		2016-17 (P)	
		Quantity	Value	Quantity	Value	Quantity	Value
Phosphorus (elemental)	tonne	24858	4798749	24530	4658200	28356	5285023
Potash fertiliser	tonne	4620668	92745062	3594923	78216424	4185124	69662647
Potassium nitrate	tonne	181	21501	257	24820	345	30157
Refractory bricks	tonne	286989	18671318	249639	14151754	137087	7267766
Silicon carbide crucibles	tonne	231	21467	179	17688	161	10432
Slag (dross, etc. from iron & steel exc. granulated)	tonne	17646	147522	21	82	113818	496506
Soda ash	tonne	725517	11261604	633263	10170662	695309	10249029
Sodium nitrate	tonne	1015	24774	426	11038	925	24558
Sodium nitrite	tonne	13139	390967	14777	444689	15491	483374
Sulphur (sublimed ppt. & colloidal): Total	tonne	3071	433480	885	106389	249	38254
Sulphur (colloidal)	tonne	68	11826	44	5731	66	9533
Sulphur precipitated	tonne	2664	376122	831	99028	140	23567
Sulphur sublimed	tonne	339	45532	10	1630	43	5154
Titanium oxide & dioxide: Total	tonne	19178	3029044	17192	2768565	14181	2380145
Titanium oxides	tonne	1604	204765	771	197631	279	85864
Titanium dioxide	tonne	17574	2824279	16421	2570934	13902	2294281

Source: 1) DGCI & S, Kolkata

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

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