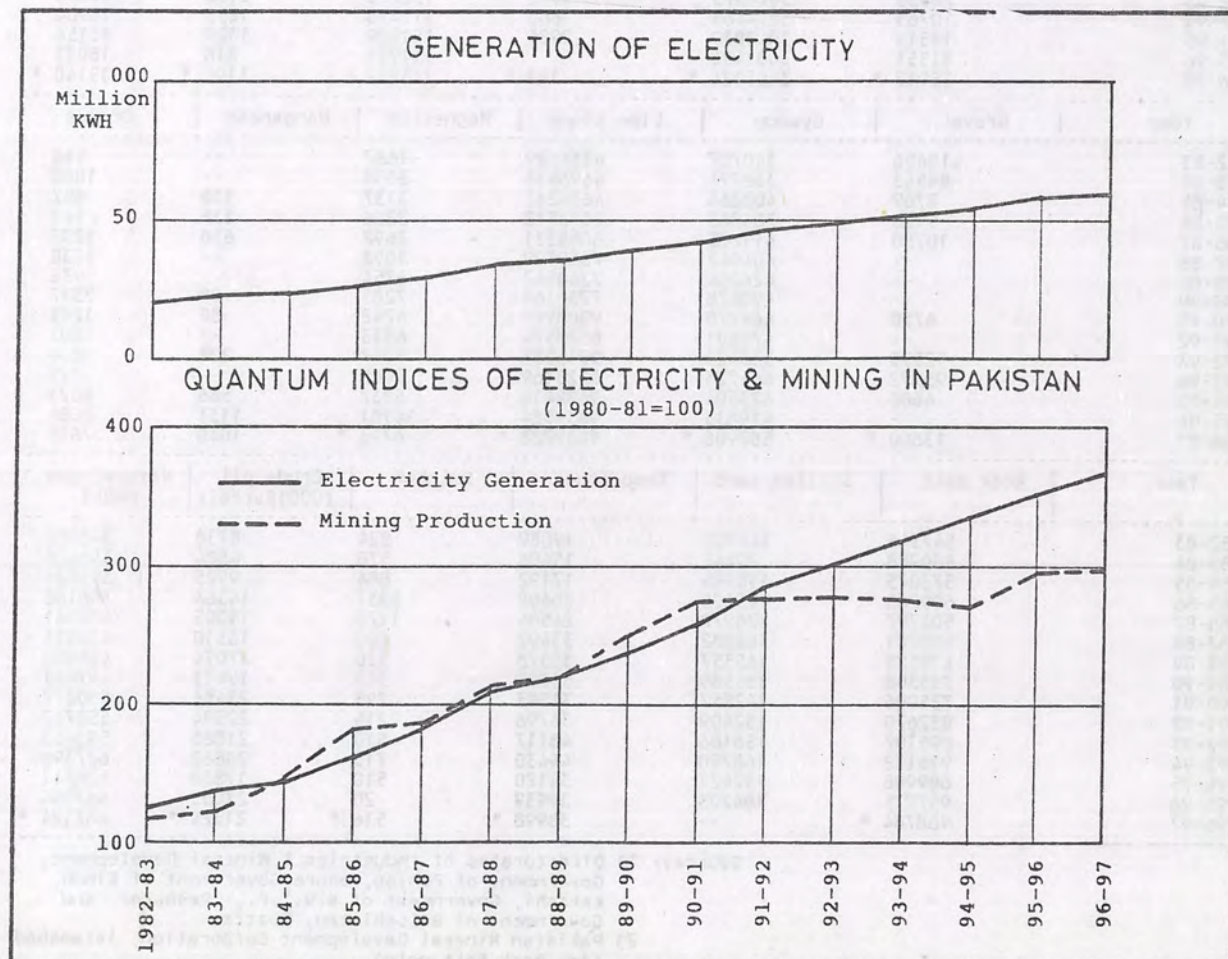


ENERGY
&
MINING

6.1 Generation of electricity and quantum indices of electricity & mining in Pakistan

Year	Electricity generation (in million KWH)	Quantum index of electricity generation			Quantum index of mining production		
		(1980-81=100)	(1975-76=100)	(1969-70=100)	(1980-81=100)	(1975-76=100)	(1969-70=100)
1982-83	20291	125.1	194.4	318.1	118.0	180.1	206.4
1983-84	22492	138.7	215.5	352.6	122.2	184.4	211.8
1984-85	23671	145.9	226.8	371.1	147.3	226.4	259.5
1985-86	26455	163.1	253.4	414.7	183.1	274.4	292.1
1986-87	29493	181.8	282.5	462.3	187.9	286.2	325.7
1987-88	33832	208.6	324.1	530.4	212.4	323.0	362.8
1988-89	35413	218.3	339.2	555.1	218.5	330.3	376.7
1989-90	38465	237.2	368.5	603.0	250.0	365.4	415.7
1990-91	41695	257.1	399.4	653.6	275.2	410.3	468.0
1991-92	46224	285.0	442.8	724.6	277.8	412.8	472.1
1992-93	48911	301.6	468.5	766.7	278.4	420.6	478.0
1993-94	51474	317.4	493.1	806.9	275.2	427.1	483.4
1994-95	54530	336.2	522.4	854.8	270.5	417.6	461.8
1995-96	57145	352.3	547.4	936.2	296.7	445.3	503.7
1996-97	59718 *	368.2 *	572.1 *	936.2 *	298.5 *	456.7 *	518.0 *

Sources: 1) WAPDA, Lahore.
2) KANUPP, Karachi.
3) KESC, Karachi.
4) PASMIC, Karachi.



6.2 Mineral production in Pakistan

(Tonnes)

Year	Antimony	Aragonite/ marble	Barytes	Bauxite	Celestite	China clay
1982-83	--	120597	20088	2772	406	23583
1983-84	--	100989	35965	4173	302	21191
1984-85	6	53202	20827	2035	650	816
1985-86	24	122134	42148	2280	873	21288
1986-87	45	203088	20376	3114	956	32953
1987-88	--	215715	12575	2924	1059	42548
1988-89	25	222775	29578	2170	992	38214
1989-90	26	267389	25123	2409	1574	29633
1990-91	128	281518	26222	3217	1773	43620
1991-92	--	320859	30118	3954	1069	42344
1992-93	5	388570	26337	4847	1682	37454
1993-94	3	459734	18334	4064	4398	48074
1994-95	--	462097	20079	4456	1403	30986
1995-96	--	452781	14047	2284	762	43031
1996-97	--	480970 *	20750 *	3106 *	920 *	50134 *

Year	Chromite	Coal	Ebry-stone	Fire clay	Flourite	Fuller's earth
1982-83	4487	1854514	912	69443	336	20781
1983-84	4180	1926350	1877	83676	--	18973
1984-85	3090	2167904	3184	76551	5736	12722
1985-86	10127	2114532	6206	73414	4052	10222
1986-87	6541	2156704	3733	100101	3956	18599
1987-88	8628	2727407	3045	133869	800	16964
1988-89	11871	2619200	1065	118331	1481	16349
1989-90	32910	2751361	1211	131032	8429	13699
1990-91	24463	2887794	1761	120038	1384	22743
1991-92	28252	3073193	1441	138772	917	20825
1992-93	22936	3074373	1018	132273	2156	22609
1993-94	10765	3214465	880	115998	1253	16984
1994-95	13513	3042839	2984	151889	1329	15154
1995-96	31551	3401456	-	111955	816	18033
1996-97	25912 *	3485124 *	192 *	143212 *	1190 *	15140 *

Year	Gravel	Gypsum	Lime stone	Magnesite	Manganese	Ochres
1982-83	418456	340707	4231629	1687	--	558
1983-84	84543	338791	4696433	3338	--	1086
1984-85	8769	400264	4634261	3137	138	697
1985-86	5936	381263	6312512	3266	135	563
1986-87	10750	411875	6885331	2692	638	1237
1987-88	--	404042	7610399	3092	--	1730
1988-89	--	426264	7248567	6754	--	936
1989-90	--	490678	7736169	7285	90	2337
1990-91	6750	468278	9008941	4242	80	1285
1991-92	--	470601	8527574	6333	--	1001
1992-93	12995	533420	9015232	5047	202	1000
1993-94	95892	665723	9125169	7000	--	745
1994-95	4600	623504	9682416	5237	566	4623
1995-96	--	419835	9837584	14981	1131	8081
1996-97	13600 *	587908 *	9859728 *	6796 *	1048	7638

Year	Rock salt	Sillica sand	Soap stone	Sulphur	Crude oil (000)Barrels	Natural gas MMCF
1982-83	547546	140701	19089	824	8738	346956
1983-84	580988	99444	15606	570	4884	346426
1984-85	573075	110585	17192	884	9525	391927
1985-86	619285	193408	20602	1337	14366	380162
1986-87	502797	126972	24504	1176	15005	402561
1987-88	502281	163882	33492	600	16310	437311
1988-89	619525	165357	38378	310	17074	455482
1989-90	735388	135585	31009	342	19473	497653
1990-91	735906	142557	31593	295	23486	530377
1991-92	832620	132409	36796	215	22394	550717
1992-93	895107	158186	48117	510	21885	583463
1993-94	916132	168790	44430	715	20662	627396
1994-95	889908	152423	34120	510	19859	628211
1995-96	957775	184203	39939	20	21063	667064
1996-97	988784 *	--	38998 *	516 *	21524 *	687124 *

Source:- 1) Directorates of Industries & Mineral Development, Government of Punjab, Lahore, Government of Sindh, Karachi, Government of N.W.F.P., Peshawar and Government of Balochistan, Quetta.
 2) Pakistan Mineral Development Corporation, Islamabad (for Rock Salt only).
 3) Ministry of Petroleum & Natural Resources (for Crude Oil & Natural gas).

ENERGY & MINING

6.3 Mineral production of Pakistan and provinces

Items	(Tonnes)				
	Pakistan	Punjab	Sindh	N.W.F.P.	Balochistan
1982-83					
Antimony	--	--	--	--	--
Aragonit/					
Marble	120597	330	348	100271	19648
Barytes	20088	--	--	3779	16309
Bauxite	2772	2772	--	--	--
Celestite	406	--	406	--	--
China Clay	23583	76	181	23326	--
Chromite	4487	--	--	230	4257
Coal	1854514	479701	400783	43180	930850
Ebry stone	912	--	--	--	912
Fire clay	69443	69270	173	--	--
Flourite	2938	--	--	--	2938
Fuller's earth	20781	1936	17167	1678	--
Gravel	418456	3665	414791	--	--
Gypsum	340747	287172	42	53533	--
Lime stone	4231629	2121423	2096693	13513	--
Magnesite	1687	--	--	--	1687
Manganese	--	--	--	--	--
Ochres	558	558	--	--	--
Rock salt	547546	459799	--	87747	--
Silica sand	140701	79125	49646	11930	--
Soap stone	19089	--	--	19089	--
Sulphur	824	--	--	--	824
Crude oil (a)	4738	3407	1331	--	--
Natural gas (b)	9825995	543678	1860719	--	7421598

1983-84

Antimony	--	--	--	--	--
Aragonit/					
Marble	100989	190	554	81670	18575
Barytes	35965	--	--	2079	33886
Bauxite	4173	4173	--	--	--
Celestite	302	50	252	--	--
China Clay	21191	53	708	20430	--
Chromite	4180	--	--	--	4180
Coal	2466350	457730	372012	32804	1603804
Ebry stone	1877	--	--	--	1877
Fire clay	83676	83182	393	101	--
Flourite	3618	--	--	--	3618
Fuller's earth	18973	2655	14896	1422	--
Gravel	84543	5344	79199	--	--
Gypsum	338971	305467	--	33485	19
Lime stone	4696433	2127583	2294277	274573	--
Magnesite	3338	--	--	511	2827
Manganese	--	--	--	--	--
Ochres	1086	1086	--	--	--
Rock salt	580988	484632	--	96356	--
Silica sand	99444	63201	27855	8388	--
Soap stone	15606	--	--	15606	--
Sulphur	570	--	--	--	570
Crude oil (a)	4884	3167	1717	--	--
Natural gas (b)	9810990	440628	1867755	--	7502607

Note:-

(a)=Unit in '000' Barrels.

(b)=Unit in MMCFT.

Contd.

ENERGY & MINING

6.3 Mineral production of Pakistan and provinces

(Tonnes)

Item	Pakistan	Punjab	Sindh	N.W.F.P.	Balochistan
1984-85					
Antimony	6	--	--	6	--
Aragonit/					
Marble	53202	155	641	39190	13216
Barytes	20836	--	--	149	20687
Bauxite	2035	2035	--	--	--
Celestite	680	30	650	--	--
China Clay	816	--	816	--	--
Chromite	3090	--	--	--	3090
Coal	2167904	471223	430312	33098	1233271
Ebry stone	3184	--	--	--	3184
Fire clay	76551	76051	500	--	--
Flourite	5770	--	--	--	5770
Fuller's earth	12722	1845	9490	1387	--
Gravel	8769	--	8769	--	--
Gypsum	400264	345566	--	54651	47
Lime stone	4634261	2224836	1927184	463810	18431
Magnesite	3137	--	--	1203	1934
Manganese	138	--	--	--	138
Ochres	697	697	--	--	--
Rock salt	573075	474145	--	98930	--
Silica sand	110585	64390	37333	8862	--
Soap stone	17192	--	--	17192	--
Sulphur	884	--	--	--	884
Crude oil (a)	9525	5181	4344	--	--
Natural gas (b)	10250024	491434	1885220	--	7873370
1985-86					
Antimony	24	--	--	5	19
Aragonit/					
Marble	122134	375	613	103111	18035
Barytes	42148	--	--	957	41191
Bauxite	2280	2280	--	--	--
Celestite	873	42	831	--	--
China Clay	21288	85	443	20760	--
Chromite	10127	--	--	--	10127
Coal	2114532	425759	465627	30810	1192336
Ebry stone	6206	--	--	--	6206
Fire clay	73414	72909	505	--	--
Flourite	4052	--	--	--	4052
Fuller's earth	10222	1570	6299	2353	--
Gravel	5936	--	5936	--	--
Gypsum	381263	338923	960	41192	188
Lime stone	6312512	2649205	2815733	805986	41588
Magnesite	3266	--	--	1435	1831
Manganese	135	--	--	--	135
Ochres	563	534	29	--	--
Rock salt	619285	505331	--	113954	--
Silica sand	193408	46553	136406	10449	--
Soap stone	20602	--	--	20599	3
Sulphur	1337	--	--	--	1337
Crude oil (a)	14366	8048	6318	--	--
Natural gas (b)	380162	24808	77410	--	277944

Note:-

(a)=Unit in '000' Barrels.

(b)=Unit in MMCFT.

Contd.

6.3 Mineral production of Pakistan and provinces

Item	(Tonnes)				
	Pakistan	Punjab	Sindh	N.W.F.P.	Balochistan
1986-87					
Antimony	45	--	--	45	--
Aragonit/ Marble	203088	687	399	185880	16122
Barytes	20376	--	--	634	19742
Bauxite	3114	3114	--	--	--
Celestite	956	60	896	--	--
China Clay	32953	252	658	32043	--
Chromite	6541	--	--	--	6541
Coal	2156704	485241	522239	35405	1113819
Ebry stone	3733	--	--	--	3733
Fire clay	100101	99438	643	20	--
Flourite	3956	--	--	--	3956
Fuller's earth	18599	2150	12698	3751	--
Gravel	10750	--	10750	--	--
Gypsum	411875	366373	--	44713	789
Lime stone	6885331	2686262	3309712	880757	8600
Magnesite	2692	--	--	388	2304
Manganese	638	--	--	603	35
Ochres	1237	577	660	--	--
Rock salt	502797	419097	--	83700	--
Silica sand	126972	54434	55950	16560	28
Soap stone	24504	--	--	24504	--
Sulphur	1176	--	--	--	1176
Crude oil (a)	15005	8510	6495	--	--
Natural gas (b)	402561	24846	98259	--	279456
1987-88					
Antimony	--	--	--	--	--
Aragonit/ Marble	215715	846	749	196344	17776
Barytes	12575	--	--	1357	11218
Bauxite	2924	2924	--	--	--
Celestite	1059	19	1040	--	--
China Clay	42548	54	3238	39256	--
Chromite	8628	--	--	48	8580
Coal	2727407	595807	668074	35708	1427818
Ebry stone	3045	--	--	--	3045
Fire clay	133869	133298	539	32	--
Flourite	800	--	--	--	800
Fuller's earth	16964	2085	12156	2723	--
Gravel	--	--	--	--	--
Gypsum	404042	343533	--	60015	494
Lime stone	7610399	3005576	3301892	1243737	59194
Magnesite	3092	--	--	1120	1972
Manganese	--	--	--	--	--
Ochres	1730	420	1310	--	--
Rock salt	502281	419178	--	83103	--
Silica sand	163882	84939	61991	16952	--
Soap stone	33492	--	--	33484	8
Sulphur	600	--	--	--	600
Crude oil (a)	16310	8983	7327	--	--
Natural gas (b)	437311	27393	115831	--	294087

Note:-
(a)=Unit in '000' Barrels.
(b)=Unit in MMCFT.

Contd.

ENERGY & MINING

6.3 Mineral production of Pakistan and provinces

(Tonnes)

Item	Pakistan	Punjab	Sindh	N.W.F.P.	Balochistan
1988-89					
Antimony	25	--	--	--	25
Aragonite/ Marble	222775	359	366	204359	17691
Barytes	29578	--	--	2003	27575
Bauxite	2170	2170	--	--	--
Celestite	992	10	982	--	--
China Clay	38214	97	5069	33048	--
Chromite	11871	--	--	3499	8372
Coal	2619200	563981	615487	35234	1404498
Ebry stone	1065	--	--	--	1065
Fire clay	118331	117600	470	261	--
Flourite	1481	--	--	--	1481
Fuller's earth	16349	2030	10071	4248	--
Gravel	--	--	--	--	--
Gypsum	426264	351579	--	74613	72
Lime stone	7248567	3084344	2895420	1208003	60800
Magnesite	6754	--	--	2504	4250
Manganese	--	--	--	--	--
Ochres	936	286	650	--	--
Rock salt	619525	505223	--	114302	--
Silica sand	165357	72878	76041	16438	--
Soap stone	38378	--	--	38376	2
Sulphur	310	--	--	--	310
Crude oil (a)	17074	8892	8182	--	--
Natural gas (b)	455482	27853	122835	--	304794
Maganese	--	--	--	--	--
1989-90					
Antimony	26	--	--	--	26
Aragonite/ Marble	267389	322	96	259414	7557
Barytes	25123	--	--	2521	22602
Bauxite	2409	2409	--	--	--
Celestite	1574	90	1484	--	--
China Clay	29633	62	5030	24541	--
Chromite	32910	--	--	8333	24577
Coal	2751361	466984	717218	44564	1522595
Ebry stone	1211	--	--	--	1211
Fire clay	131032	130349	405	278	--
Flourite	8429	--	--	144	8285
Fuller's earth	13699	2475	10482	742	--
Gravel	--	--	--	--	--
Gypsum	490678	342607	--	148071	--
Lime stone	7736169	3365397	2651355	1337448	381969
Magnesite	7285	--	--	3817	3468
Manganese	90	--	--	--	90
Ochres	2337	977	1360	--	--
Rock salt	735388	689987	--	45401	--
Silica sand	135585	71584	47832	16169	--
Soap stone	31009	--	--	31009	--
Sulphur	342	--	--	--	342
Crude oil (a)	19473	9826	9647	--	--
Natural gas (b)	497653	27761	153275	--	316617

Note:-

(a)=Unit in '000' Barrels.

(b)=Unit in MMCFT.

Contd.

6.3 Mineral production of Pakistan and provinces

Items	(Tonnes)				
	Pakistan	Punjab	Sindh	N.W.F.P.	Balochistan
1990-91					
Antimony	128	--	--	41	87
Aragonit/ Marble	281518	490	324	257647	23057
Barytes	26222	--	--	518	25704
Bauxite	3217	3217	--	--	--
Celestite	1773	10	1763	--	--
China Clay	43620	91	9856	33673	--
Chromite	24463	--	--	2576	21887
Coal	2887794	473146	783942	41604	1589102
Ebry stone	1761	150	--	--	1611
Fire clay	120038	119618	50	370	--
Flourite	1384	--	--	260	1124
Fuller's earth	22743	1567	18757	2419	--
Gravel	6750	--	6750	--	--
Gypsum	468278	326303	--	141975	--
Lime stone	9008941	3087287	3249934	1952709	719011
Magnesite	4242	--	--	2960	1282
Manganese	80	--	--	--	80
Ochres	1285	1285	--	--	--
Rock salt	735906	671936	--	63970	--
Silica sand	142557	75920	47766	18871	--
Soap stone	31593	--	--	31593	--
Sulphur	295	--	--	--	295
Crude oil (a)	23486	10902	12584	--	--
Natural gas (b)	530377	36229	188998	--	305150
1991-92					
Antimony	--	--	--	--	--
Aragonite/Marble	320859	2496	192	288529	29642
Barytes	30118	12	--	1352	28754
Bauxite	3954	3954	--	--	--
Celestite	1069	115	954	--	--
China Clay	42344	163	7335	34846	--
Chromite	28252	--	--	10933	17319
Coal	3073193	512241	822322	49813	1688817
Ebry stone	1441	--	--	--	1441
Fire clay	138772	138133	--	639	--
Flourite	917	--	--	468	449
Fuller's earth	20825	1780	17243	1802	--
Gravel	--	--	--	--	--
Gypsum	470601	326977	--	143624	--
Lime stone	8527574	3319678	3406902	1592720	208274
Magnesite	6333	--	--	5413	920
Manganese	--	--	--	--	--
Ochres	1001	1001	--	--	--
Rock salt	832620	759628	--	72992	--
Silica sand	132409	74965	42449	14995	--
Soap stone	36796	--	--	36796	--
Sulphur	215	--	--	--	215
Crude oil (a)	22394	10476	11918	--	--
Natural gas (b)	550717	32104	177789	--	340824

Note:-
(a)=Unit in '000' Barrels.
(b)=Unit in MMCF.

Contd.

ENERGY & MINING

6.3 Mineral production of Pakistan and provinces

(Tonnes)

Items	Pakistan	Punjab	Sindh	N.W.F.P.	Balochistan
1992-93					
Antimony	5	--	--	--	5
Aragonit/Marble	388570	2756	--	353885	31929
Barytes	26337	10	--	1414	24913
Bauxite	4847	4847	--	--	--
Celestite	1682	457	1225	--	--
China Clay	37454	77	12552	24825	--
Chromite	22936	--	--	11369	11567
Coal	3074373	425426	1060784	63146	1525017
Ebry stone	1018	--	--	--	1018
Fire clay	132273	131376	--	897	--
Flourite	2156	--	--	557	1599
Fuller's earth	22609	1654	17955	3000	--
Gravel	12995	12995	--	--	--
Gypsum	533420	325771	--	207649	--
Lime stone	9015232	3570851	3645329	1606789	192263
Magnesite	5047	--	--	4407	640
Manganese	202	--	--	--	202
Ochres	1000	1000	--	--	--
Rock salt	895107	776347	--	118760	--
Silica sand	158186	83525	56013	18648	--
Soap stone	48117	--	--	48117	--
Sulpher	510	--	--	--	510
Crude oil (a)	21885	9373	12512	--	--
Natural gas (b)	583463	32123	201236	--	350104
1993-94					
Antimony	3	--	--	--	3
Aragonit/Marble	459744	2160	--	398516	59068
Barytes	18334	--	--	1115	17219
Bauxite	4064	4064	--	--	--
Celestite	4398	1025	3373	--	--
China Clay	48074	84	16515	31475	--
Chromite	10765	--	--	1106	9659
Coal	3214465	465391	1093868	67040	1588166
Ebry stone	880	--	--	--	880
Fire clay	115998	115178	--	820	--
Flourite	1253	--	--	435	818
Fuller's earth	16984	2234	12846	1904	--
Gravel	95892	95892	--	--	--
Gypsum	665723	347548	--	318175	--
Lime stone	9125169	3248541	4099387	1587901	189340
Magnesite	7000	--	--	6509	491
Manganese	--	--	--	--	--
Ochres	745	705	40	--	--
Rock salt	916132	798468	--	117664	--
Silica sand	168790	95635	61469	11686	--
Soap stone	44430	--	--	44430	--
Sulpher	715	--	--	--	715
Crude oil (a)	20662	8800	11862	--	--
Natural gas (b)	627396	41072	235625	--	350699

Note:-
(a)=Unit in '000' Barrels.
(b)=Unit in MMCF.

Contd.

6.3 Mineral production of Pakistan and provinces

(Tonnes)

Items	Pakistan	Punjab	Sindh	N.W.F.P.	Balochistan
1994-95					
Antimony	--	--	--	--	--
Aragonit/Marble	462097	7996	121	389724	64256
Barytes	20074	--	--	1783	18291
Bauxite	4456	4456	--	--	--
Celestite	1403	715	688	--	--
China Clay	31086	121	16261	14704	--
Chromite	13513	--	--	440	13073
Coal	3009641	416086	1046273	55782	1491500
Ebry stone	2984	2170	--	--	814
Fire clay	151889	150989	--	900	--
Flourite	1329	--	--	195	1134
Fuller's earth	15154	1629	11499	2026	--
Gravel	4600	--	4600	--	--
Gypsum	623504	374527	--	248977	--
Lime stone	9682416	3916473	3939799	1613460	212684
Magnesite	5227	--	--	5227	--
Manganese	566	--	--	--	566
Ochres	4623	4623	--	--	--
Rock salt	889908	777911	--	111997	--
Soap stone	34120	--	--	34120	--
Sulphur	510	--	--	--	510
Crude oil (a)	19859	8226	11633	--	--
Natural gas (b)	625620	44988	234644	--	345988
1995-96					
Antimony	--	--	--	--	--
Aragonit/Marble	452781	3711	75	373047	75948
Barytes	14047	--	--	1330	12717
Bauxite	2284	2284	--	--	--
Celestite	762	111	651	--	--
China Clay	43031	--	20916	22115	--
Chromite	31551	--	--	9120	22431
Coal	3401456	514910	1088121	43618	1754807
Ebry stone	--	--	--	--	--
Fire clay	111955	110340	--	1615	--
Flourite	816	--	--	100	716
Fuller's earth	18033	6104	10666	1263	--
Gravel	--	--	--	--	--
Gypsum	419835	317282	--	102553	--
Lime stone	9837584	4056028	3329502	2220042	232012
Magnesite	14981	--	--	14581	400
Manganese	1131	--	--	--	1131
Ochres	8081	8081	--	--	--
Rock salt	957775	819248	--	138527	--
Soap stone	39939	--	--	39939	--
Sulphur	20	--	--	--	20
Crude oil (a)	21063	8586	12477	--	--
Natural gas (b)	667064	55554	307444	--	304066

Note:-

(a)=Unit in '000' Barrels.

(b)=Unit in MMCFT.

6.3 Mineral production of Pakistan and provinces

Items	(Tonnes)				
	Pakistan	Punjab	Sindh	N.W.F.P.	Balochistan
1996-97 (P)					
Antimony	--	--	--	--	--
Aragonit/Marble	480970	1922	--	421072	57976
Barytes	20750	--	--	2826	17924
Bauxite	3106	3106	--	--	--
Celestite	920	--	920	--	--
China Clay	50134	--	25160	24974	--
Chromite	25912	--	--	1722	24190
Coal	3485124	534436	1140468	48672	1761548
Ebry stone	192	192	--	--	--
Fire clay	143212	140772	--	2440	--
Flourite	1190	--	--	180	1010
Fuller's earth	15140	1520	11690	1930	--
Gravel	13600	--	13600	--	--
Gypsum	587908	460902	--	127006	--
Lime stone	9859728	4223582	3847522	1662838	125786
Magnesite	6796	--	--	6796	--
Manganese	1048	--	--	--	1048
Ochres	7638	7638	--	--	--
Rock salt	988784	861994	--	126790	--
Soap stone	38998	--	--	38998	--
Sulpher	516	--	--	--	516
Crude oil (a)	21524	8198	13326	--	--
Natural gas (b)	687124	54782	318496	--	313846

Note:-
 (a)=Unit in '000' Barrels.
 (b)=Unit in MMCFT.

Source: 1) Directorates of Industries & Mineral Development, Government of Punjab, Lahore, Government of Sindh, Karachi, Government of NWFP Peshawar & Government of Balochistan, Quetta.
 2) Ministry of Petroleum & Natural Resources (for crude Oil and Natural Gas)